

DATE 07/05/2007

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025991

APPLICANT MARY ANN CRAWFORD PHONE 386.752.5152  
ADDRESS 853 SW SISTES WELCOME ROAD LAKE CITY FL 32025  
OWNER HILLANDALE,LLC PHONE 397-2641  
ADDRESS 343 NW HILLANDALE GLEN LAKE CITY FL 32055  
CONTRACTOR WM. STANLEY CRAWFORD PHONE 386.752.5152  
LOCATION OF PROPERTY 41 NORTH, R ON HILLANDALE GLEN, THE CONSTRUCTION SITE WILL BE ON THE L.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 92000.00  
HEATED FLOOR AREA 1840.00 TOTAL AREA 2680.00 HEIGHT 21.75 STORIES 1  
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC  
LAND USE & ZONING A-3 MAX. HEIGHT 35  
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 22-2S-16-01714-002 SUBDIVISION  
LOT BLOCK PHASE UNIT TOTAL ACRES 408.00

Culvert Permit No. Culvert Waiver Contractor's License Number RG0042896  
PRIVATE 07-0513 BLK JTH N  
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ACCESSORY USE TO EXISTING AGRICULTURE USE.1ST. FLOOR TO BE 1 FOOT ABOVE NW HILLANDALE GLEN.

Check # or Cash 1594

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 460.00 CERTIFICATION FEE \$ 13.40 SURCHARGE FEE \$ 13.40  
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 \$ TOTAL FEE 561.80  
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."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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

# Columbia County Building Permit Application

For Office Use Only Application # 0706-76 Date Received 6/2- By JW Permit # 25991  
 Application Approved by - Zoning Official BLK Date 05.07.07 Plans Examiner OK JTH Date 7-3-07  
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3  
 Comments Accessory Use to existing Ag use 1st Floor to be 1st above NW Hillandale Glen  
☐ NOC ☒ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name Authorized Person Signing Permit Mary Crawford Fax \_\_\_\_\_ Phone 752-5152  
 Address 853 SW. Sisters Welcome Rd LC, FL 32025  
 Owners Name Hillandale Farms LLC (Bob Scott) Phone 397-2041  
 911 Address 343 NW. Hillandale Glen, Lake City FL 32055  
 Contractors Name Stanley Crawford Construction Phone 752-5152  
 Address 853 S.W. Sisters Welcome Road  
 Fee Simple Owner Name & Address \_\_\_\_\_  
 Bonding Co. Name & Address \_\_\_\_\_  
 Architect/Engineer Name & Address Mark Disosney P.O. Box 808 LC FL 32056  
 Mortgage Lenders Name & Address N-A

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy  
 Property ID Number 22-25-16-01714-002 Estimated Cost of Construction \$172,500.00  
 Subdivision Name N-A Lot 1A Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_  
 Driving Directions  Hwy 41 North Approximately 3.8 miles North of I-10 TR on Hillandale Glen, Site on Left.

Type of Construction Residential new construction Number of Existing Dwellings on Property 0  
 Total Acreage 4.08 Lot Size \_\_\_\_\_ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive  
 Actual Distance of Structure from Property Lines - Front 100' Side 100' Side 100' Rear 100'  
 Total Building Height 21' 3/4 Number of Stories 1 Heated Floor Area 1840.85 Roof Pitch 6/12  
 TOTAL 2680

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.

OWNERS AFFIDAVIT: 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.

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

Owner Builder or Authorized Person

STATE OF FLORIDA  
COUNTY OF COLUMBIA



Sworn to (or affirmed) and subscribed before me

this 6 day of 27 2007.

Personally known ☒ or Produced Identification \_\_\_\_\_

Contractor Signature

Contractors License Number EG0042896

Competency Card Number 5267

NOTARY STAMP/SEAL

Notary Signature

(Revised Sept. 2006)



THIS AREA IS

ZONE A

ZONE AE

ZONE X

ZONE X

22

ZONE A

BARBARA  
LAKE

ZONE X

RAILROAD



25991

This instrument was Prepared By:  
STANLEY CRAWFORD CONSTRUCTION, INC.  
853 S.W. Sisters Welcome Rd.  
Lake City, Florida 32025

inst: 200712014808 Date: 7/2/2007 Time: 10:42 AM  
DC, P. DeWitt Caseon, Columbia County Page 1 of 2

PERMIT NO. \_\_\_\_\_

TAX FOL \_\_\_\_\_

### 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: See exhibit A
2. General description of improvement: Construction of Dwelling
3. Owner information: Hillandale Farms, LLC  
Name and address: Bob Scott, Vice President of Operations  
343 N.W. Hillandale Glen  
Lake City, FL 32055
- b. Interest in property: Fee Simple
- c. Name and address of fee simple title holder (if other Than owner): NONE
4. Contractor: Stanley Crawford Construction, Inc.  
853 S.W. Sisters Welcome Rd, Lake City, FL 32025
5. Surety N/A
  - a. Name and address:
  - b. Amount of bond:
6. Lender: N/A
7. 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
8. In addition to himself, Owner designates Jo Ward - Address same as #3 to receive a copy of the Lienor's Notice as provided in section 713.13 (1) (b), Florida Statutes.
9. Expiration date of notice of commencement (the expiration date is 1 year from The date of recording unless a different date is specified)

[Signature]  
[Signature]

The foregoing instrument was acknowledged before me this 26<sup>th</sup> day of June, 2007, by Bob Scott & Josh Moore, who are personally known to me and who did not take an oath.

Kitty W. Wheate  
Notary Public  
My Commission Expires: 5/23/2011





# 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: 6/19/2007 DATE ISSUED: 6/19/2007

### ENHANCED 9-1-1 ADDRESS:

343 NW HILLANDALE GLN

LAKE CITY FL 32055

### PROPERTY APPRAISER PARCEL NUMBER:

22-2S-16-01714-002

### Remarks:

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.**

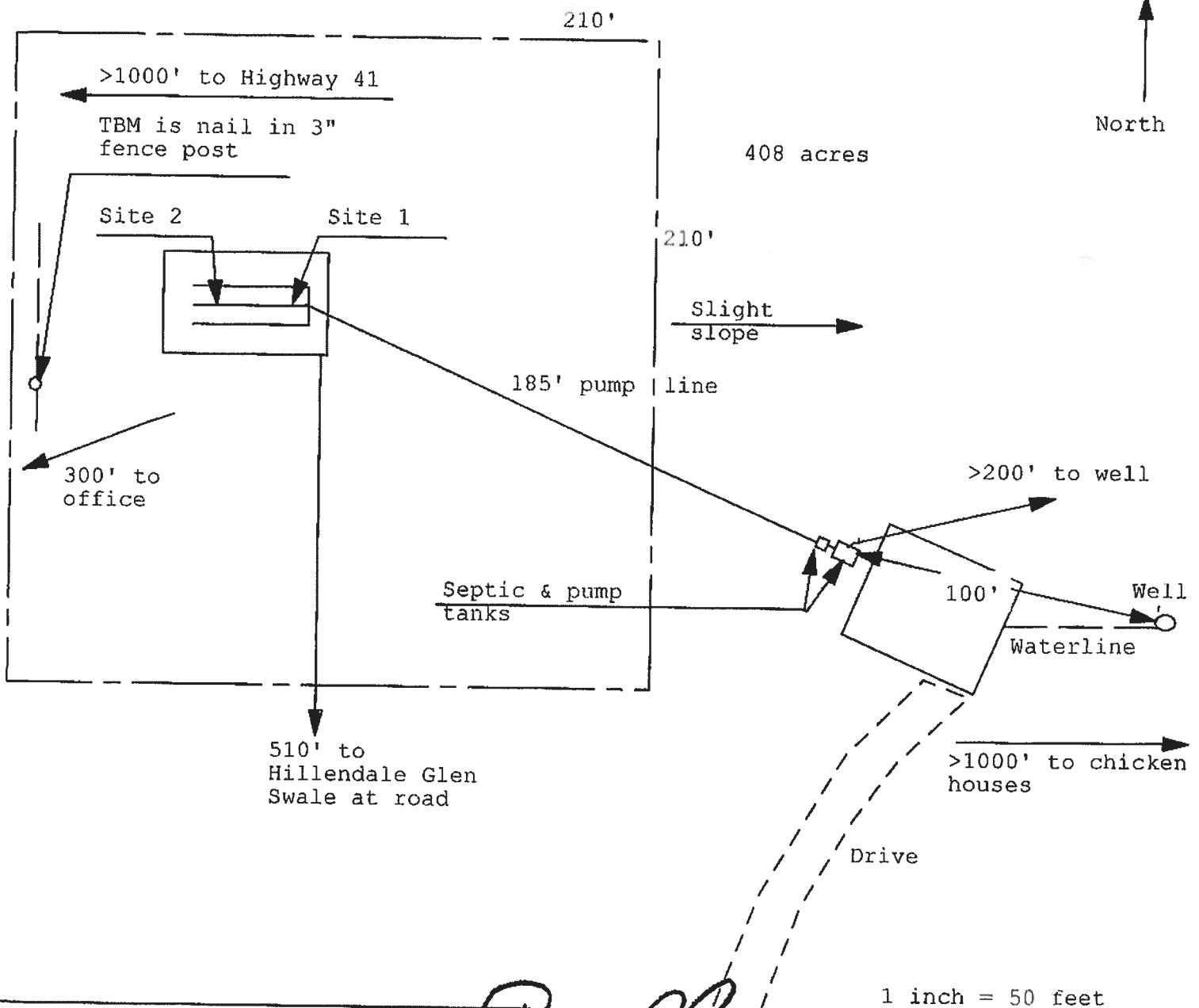
811



Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan  
Permit Application Number: 07-0518

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

HILLENDALE LLC/CR 06-4034



Site Plan Submitted By Paul L. Lyle Date 6/20/07  
Plan Approved \_\_\_\_\_ Not Approved \_\_\_\_\_ Date \_\_\_\_\_

By \_\_\_\_\_ CPHU

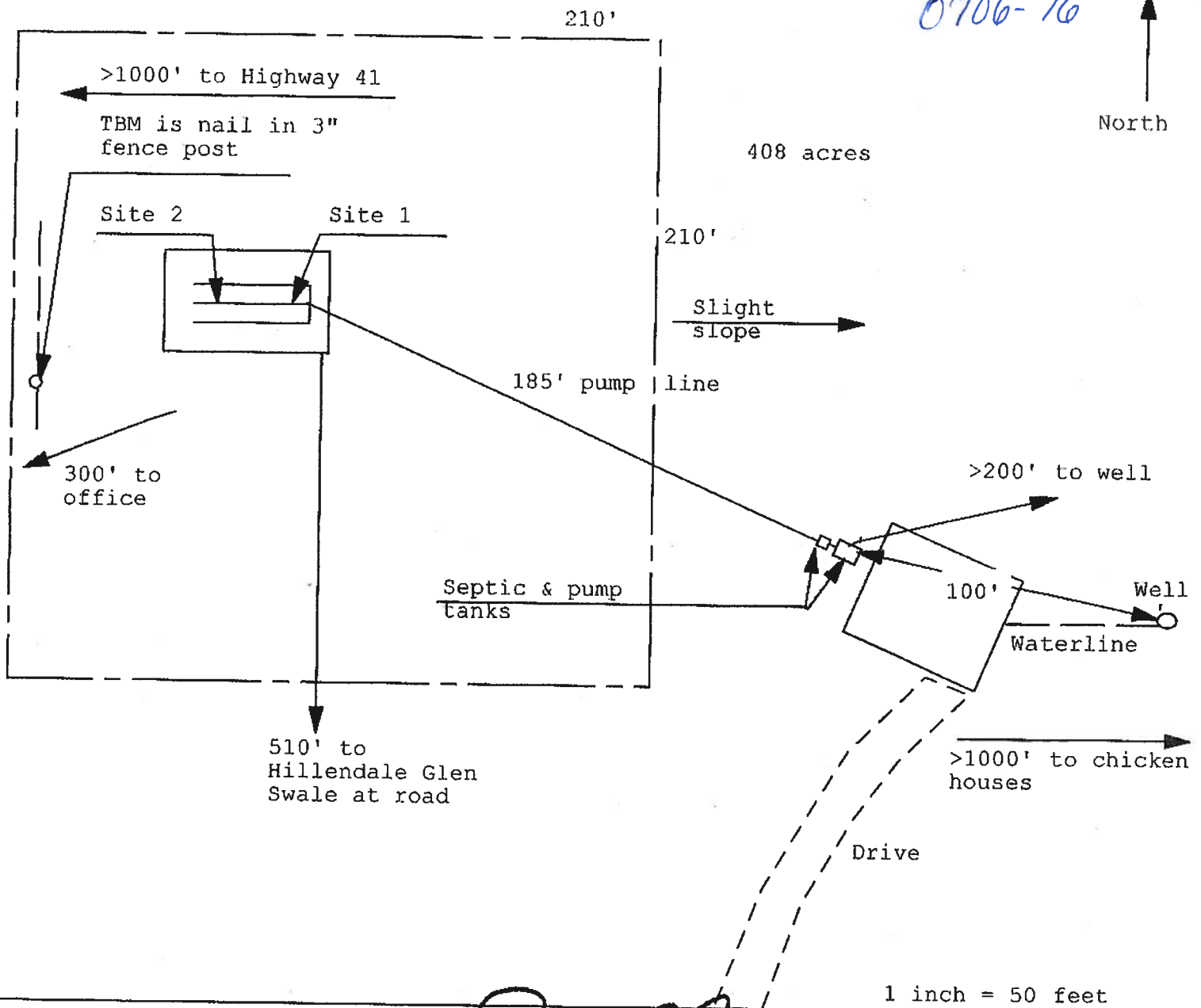
Notes: \_\_\_\_\_



Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan  
Permit Application Number: 07-0573

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

HILLENDALE LLC/CR 06-4034



Site Plan Submitted By Paul D. [Signature] Date 6/30/07  
Plan Approved ☒ Not Approved ☐ Date 6/27/07  
By Mr. [Signature] Columbia CPHU

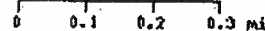
Notes: \_\_\_\_\_



J. Doyle Crews, CFA - Lake City, Florida - 388-758-1083

**Name:** HILLANDALE LLC  
**Site:**  
**Mail:** P O BOX 2109  
LAKE CITY, FL 32056  
**Sales**  
**Info**

LandVal	\$23,550.00
BldgVal	\$1,375,992.00
ApprVal	\$2,499,968.00
JustVal	\$3,900,871.00
Assd	\$2,499,968.00
Exmpt	\$0.00
Taxable	\$2,499,968.00



[http://appraiser.columbiacountyfla.com/GIS/Print\\_Map.asp?pjboiibchhjbnligafceelbjennolkjkmgaao...](http://appraiser.columbiacountyfla.com/GIS/Print_Map.asp?pjboiibchhjbnligafceelbjennolkjkmgaao...) 6/20/2007



FORM 600A-2004R

EnergyGauge® 4.5

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name: <b>HILLDALE FARMS</b>	Builder: <b>STANLEY CRAWFORD CONS</b>
Address:	Permitting Office: <b>COLUMBIA</b>
City, State:	Permit Number:
Owner:	Jurisdiction Number: <b>221000</b>
Climate Zone: <b>North</b>	

1. New construction or existing <b>New</b>	12. Cooling systems
2. Single family or multi-family <b>Single family</b>	a. Central Unit <b>Cap: 36.0 kBTu/hr</b>
3. Number of units, if multi-family <b>1</b>	<b>SEER: 13.00</b>
4. Number of Bedrooms <b>3</b>	b. N/A
5. Is this a worst case? <b>Yes</b>	c. N/A
6. Conditioned floor area (ft²) <b>1840 ft²</b>	13. Heating systems
7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)	a. Electric Heat Pump <b>Cap: 35.0 kBTu/hr</b>
a. U-factor: <b>Description Area</b>	<b>HSPF: 8.00</b>
(or Single or Double DEFAULT) 7a. (Dble Default) <b>264.0 ft²</b>	b. N/A
b. SHGC:	c. N/A
(or Clear or Tint DEFAULT) 7b. (Clear) <b>264.0 ft²</b>	14. Hot water systems
8. Floor types	a. Electric Resistance <b>Cap: 40.0 gallons</b>
a. Slab-On-Grade Edge Insulation <b>R=0.0, 213.0(p) ft</b>	<b>EF: 0.92</b>
b. N/A	b. N/A
c. N/A	c. Conservation credits
9. Wall types	(HR-Heat recovery, Solar
a. Frame, Wood, Exterior <b>R=13.0, 1438.0 ft²</b>	DHP-Dedicated heat pump)
b. Frame, Wood, Adjacent <b>R=13.0, 362.0 ft²</b>	15. HVAC credits <b>CF</b>
c. N/A	(CF-Ceiling fan, CV-Cross ventilation,
d. N/A	HF-Whole house fan,
e. N/A	PT-Programmable Thermostat,
10. Ceiling types	MZ-C-Multizone cooling,
a. Under Attic <b>R=30.0, 1840.0 ft²</b>	MZ-H-Multizone heating)
b. Under Attic <b>R=30.0, 220.0 ft²</b>	
c. N/A	
11. Ducts	
a. Sup: Unc. Ret: Unc. AH: Garage <b>Sup. R=6.0, 124.0 ft</b>	
b. N/A	

Glass/Floor Area: 0.14

Total as-built points: 25680

Total base points: 25716

**PASS**

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

PREPARED BY:

**SUNCOAST INSULATORS**

525 NW 25th Terrace

Hollywood, FL 33009

(352) 472-2885

Fax (352) 472-2833

DATE: **6/25/07**

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

OWNER/AGENT: \_\_\_\_\_

DATE: \_\_\_\_\_

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: \_\_\_\_\_



<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 284.  
EnergyGauge® (Version: FLRCSB v4.5)

FORM 600A-2004R

EnergyGauge® 4.5

## Code Compliance Checklist

### Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

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 joist 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 75%.	
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-9 both sides. Common ceiling & floors R-11.	



FORM 600A-2004R

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# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT						
WATER HEATING				Tank	EF	Number of	X	Tank	X	Credit
Number of	X	Multiplier	=	Total	Volume	Bedrooms		Ratio	Multiplier	=
Bedrooms										Total
3		2635.00		7905.0	40.0	0.82	3	1.00	2635.00	1.00
					As-Built Total:					7905.0

CODE COMPLIANCE STATUS									
BASE					AS-BUILT				
Cooling	+	Heating	+	Hot Water	=	Total	Cooling	+	Heating
Points		Points		Points		Points	Points		Points
7542		10269		7905		25716	7489		10266
									7905
									25660

PASS



FORM 600A-2004R

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# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE			AS-BUILT					
Winter Base Points: 18535.7			Winter As-Built Points: 19273.0					
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
18535.7	0.5540	10268.8	(sys 1: Electric Heat Pump 35000 btuh ,EFF(8.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 19273.0 1.000 (1.069 x 1.169 x 1.00) 0.426 1.000 10266.1 19273.0 1.00 1.250 0.426 1.000 10266.1					

FORM 600A-2004R

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# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

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 = Point			
.18	1840.0	20.17	6680.0	1.Double, Clear	N	2.0	6.0	42.0	24.58	1.00	1037.0
				2.Double, Clear	E	2.0	6.0	60.0	18.79	1.06	1594.0
				3.Double, Clear	S	2.0	6.0	20.0	13.30	1.26	334.0
				4.Double, Clear	W	2.0	6.0	122.0	20.73	1.04	2636.0
				As-Built Total:			264.0			6601.0	
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	362.0	3.60	1303.2	1. Frame, Wood, Exterior	13.0			1438.0	3.40	4889.2	
Exterior	1438.0	3.70	5320.6	2. Frame, Wood, Adjacent	13.0			362.0	3.30	1194.6	
Base Total:				As-Built Total:			1800.0			6083.8	
DOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	18.0	11.50	207.0	1.Exterior Insulated				36.0	8.40	302.4	
Exterior	36.0	12.30	442.8	2.Adjacent Insulated				18.0	8.00	144.0	
Base Total:				As-Built Total:			54.0			446.4	
CEILING TYPESArea X BWPM = Points				Type	R-Value			Area X WPM X WCM = Points			
Under Attic	1840.0	2.05	3772.0	1. Under Attic	30.0			1840.0	2.05 X 1.00	3772.0	
				2. Under Attic	30.0			220.0	2.05 X 1.00	451.0	
Base Total:				As-Built Total:			2060.0			4223.0	
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Slab	213.0(p)	8.9	1895.7	1. Slab-On-Grade Edge Insulation	0.0			213.0(p)	18.80	4004.4	
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:			213.0			4004.4	
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
1840.0 -0.59 -1085.6				1840.0 -0.59 -1085.6							



FORM 600A-2004R

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**SUMMER CALCULATIONS****Residential Whole Building Performance Method A - Details**

ADDRESS: , , ,	PERMIT #:
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BASE			AS-BUILT						
Summer Base Points: 23206.4			Summer As-Built Points: 24251.2						
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Cooling Points	
23206.4			<small>(sys 1: Central Unit 36000btuh, SEER/EFF(13.0) Duct: Uno(S), Uno(R), Gar(AH), R6.0(INS)</small> 24251 1.00 (1.09 x 1.147 x 1.00) 0.260 0.950 7488.9 24251.2 1.00 1.250 0.260 0.950 7488.9						
	0.3250	7542.1							

FORM 600A-2004R

EnergyGauge® 4.5

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt		Area X SPM X SOF = Points				
.18	1840.0	18.59	6157.0	1.Double, Clear	N	2.0	6.0	42.0	19.20	0.80	725.0
				2.Double, Clear	E	2.0	6.0	80.0	42.08	0.85	2853.0
				3.Double, Clear	S	2.0	6.0	20.0	35.87	0.78	556.0
				4.Double, Clear	W	2.0	6.0	122.0	38.52	0.85	3992.0
				As-Built Total: 284.0 8128.0							
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	382.0	0.70	253.4	1. Frame, Wood, Exterior	13.0		1438.0	1.50	2157.0		
Exterior	1438.0	1.70	2444.6	2. Frame, Wood, Adjacent	13.0		382.0	0.60	217.2		
Base Total: 1800.0 2698.0				As-Built Total:		1800.0		2374.2			
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	18.0	2.40	43.2	1.Exterior Insulated			38.0	4.10	147.6		
Exterior	38.0	6.10	219.6	2.Adjacent Insulated			18.0	1.60	28.8		
Base Total: 54.0 262.8				As-Built Total:		54.0		176.4			
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1840.0	1.73	3183.2	1. Under Attic	30.0		1840.0	1.73 X 1.00	3183.2		
				2. Under Attic	30.0		220.0	1.73 X 1.00	380.6		
Base Total: 1840.0 3183.2				As-Built Total:		2060.0		3563.8			
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	213.0(p)	-37.0	-7881.0	1. Slab-On-Grade Edge Insulation	0.0		213.0(p)	-41.20	-8775.6		
Raised	0.0	0.00	0.0								
Base Total: -7881.0				As-Built Total:		213.0		-8775.6			
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
1840.0 10.21 18786.4				1840.0 10.21 18786.4							

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 84.5**

**The higher the score, the more efficient the home.**

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 36.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft <sup>2</sup> )	1840 ft <sup>2</sup>	13. Heating systems	
7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 35.0 kBtu/hr
a. U-factor:	Description Area		HSFP: 8.00
(or Single or Double DEFAULT) 7a. (Dble Default) 264.0 ft <sup>2</sup>		b. N/A	
b. SHGC:	7b. (Clear) 264.0 ft <sup>2</sup>	c. N/A	
(or Clear or Tint DEFAULT)		14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 40.0 gallons
a. Slab-On-Grade Edge Insulation	R=0.0, 213.0(p) ft	b. N/A	EF: 0.92
b. N/A		c. Conservation credits	
c. N/A		(HR-Heat recovery, Solar	
9. Wall types		DHP-Dedicated heat pump)	
a. Frame, Wood, Exterior	R=13.0, 1438.0 ft <sup>2</sup>	15. HVAC credits	CF,
b. Frame, Wood, Adjacent	R=13.0, 362.0 ft <sup>2</sup>	(CR-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
d. N/A		PT-Programmable Thermostat,	
e. N/A		MZ-C-Multizone cooling,	
10. Ceiling types		MZ-H-Multizone heating)	
a. Under Attic	R=30.0, 1840.0 ft <sup>2</sup>		
b. Under Attic	R=30.0, 220.0 ft <sup>2</sup>		
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. Att: Garage	Sup. R=6.0, 124.0 ft		
b. N/A			

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: \_\_\_\_\_

Address of New Home: \_\_\_\_\_

City/FL Zip: \_\_\_\_\_



*\*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 EnergyStar<sup>®</sup> 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](http://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.*

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge<sup>®</sup> (Version: FLRCSB v4.5)



# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844

Florida Engineering Certificate of Authorization Number: 567

Florida Certificate of Product Approval # FL1999

Page 1 of 1 Document ID: IT868228Z0113145413

Truss Fabricator: Anderson Truss Company

Job Identification: 7-180--Stanley Crawford Construc Hillandale Farms -- , \*\*

Truss Count: 46

Model Code: Florida Building Code 2004 and 2006 Supplement

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

Engineering Software: Alpine Software, Version 7.24.

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

Seal Date: 06/13/2007

-Truss Design Engineer-

James F. Collins Jr.

Florida License Number: 52212

1950 Marley Drive

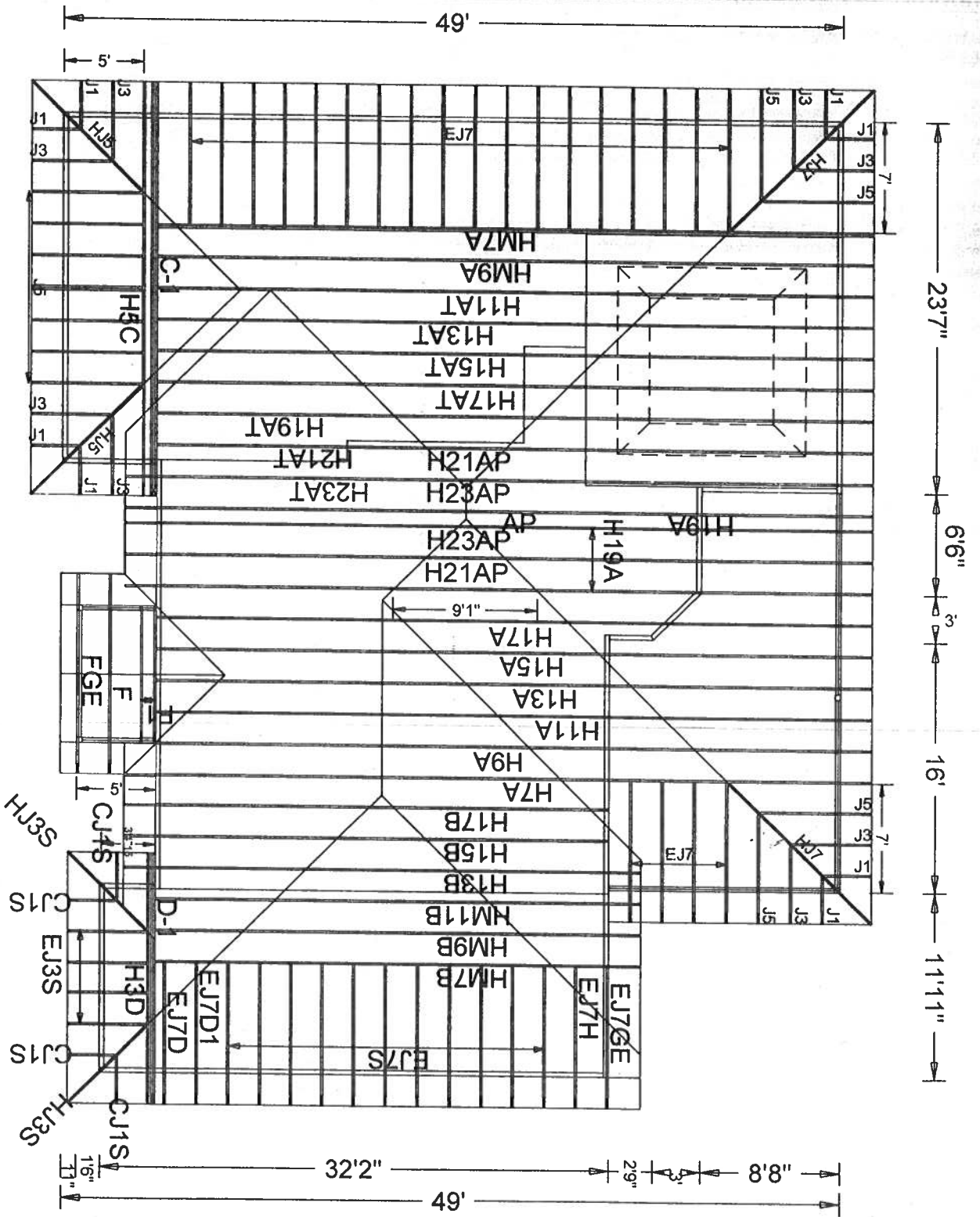
Haines City, FL 33844

Details: BRCLBSUB-CNBRGBLK-A11015EE-GBLLETIN-MAX DEAD LOAD-A11015EC-PIGBACKA-PIGBACKB-

#	Ref	Description	Drawing#	Date
1	94342--H7A		07164023	06/13/07
2	94343--H9A		07164033	06/13/07
3	94344--H11A		07164029	06/13/07
4	94345--H13A		07164028	06/13/07
5	94346--H15A		07164026	06/13/07
6	94347--H17A		07164025	06/13/07
7	94348--H19A		07164024	06/13/07
8	94349--HM7A		07164077	06/13/07
9	94350--HM9A		07164031	06/13/07
10	94351--H11AT		07164032	06/13/07
11	94352--H13AT		07164040	06/13/07
12	94353--H15AT		07164039	06/13/07
13	94354--H17AT		07164038	06/13/07
14	94355--H19AT		07164037	06/13/07
15	94356--H21AT		07164036	06/13/07
16	94357--H23AT		07164002	06/13/07
17	94358--HM7B		07164019	06/13/07
18	94359--HM9B		07164018	06/13/07
19	94360--HM11B		07164017	06/13/07
20	94361--H13B		07164016	06/13/07
21	94362--H15B		07164015	06/13/07
22	94363--H17B		07164014	06/13/07
23	94364--H5C		07164045	06/13/07
24	94365--C-1		07164030	06/13/07
25	94366--H3D		07164008	06/13/07
26	94367--D-1		07164003	06/13/07
27	94368--F1		07164020	06/13/07
28	94369--F		07164010	06/13/07
29	94370--FGE		07164001	06/13/07
30	94371--HJ5		07164044	06/13/07
31	94372--HJ7		07164035	06/13/07
32	94373--EJ7		07164034	06/13/07
33	94374--J5		07164004	06/13/07
34	94375--J3		07164027	06/13/07
35	94376--J1		07164005	06/13/07
36	94377--EJ7D		07164022	06/13/07

#	Ref	Description	Drawing#	Date
37	94378--EJ7D1		07164021	06/13/07
38	94379--EJ7GE		07164013	06/13/07
39	94380--EJ7H		07164011	06/13/07
40	94381--EJ7S		07164012	06/13/07
41	94382--HJ3S		07164009	06/13/07
42	94383--EJ3S		07164006	06/13/07
43	94384--CJ1S		07164007	06/13/07
44	94385--H21AP		07164041	06/13/07
45	94386--H23AP		07164042	06/13/07
46	94387--AP		07164043	06/13/07





#7-180 Stanley Crawford / Hillandale Farms  
6/13/07

JOB DESCRIPTION:: Stanley Crawford Construc  
/: GOTSHALL

JOB NO:

7-180

PAGE NO:

1 OF 1



[illegible]

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
located within 6.50 ft from roof edge, CAT 11, EXP B, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf,  $I_w=1.00$  gcpi(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.

SPECIAL LOADS		(LUMBER DUR. FAC. -1.25 / PLATE DUR. FAC. -1.25)	
TC	From	62 PLF at -2.00 to	62 PLF at 7.00
TC	From	62 PLF at 7.00 to	62 PLF at 17.41
TC	From	62 PLF at 17.41 to	62 PLF at 28.75
TC	From	62 PLF at 28.75 to	62 PLF at 34.48
TC	From	62 PLF at 34.48 to	62 PLF at 45.08
BC	From	4 PLF at -2.00 to	4 PLF at 0.00
BC	From	20 PLF at 0.00 to	20 PLF at 14.42
BC	From	20 PLF at 14.42 to	20 PLF at 27.08
BC	From	20 PLF at 27.08 to	20 PLF at 43.08
BC	From	4 PLF at 43.08 to	4 PLF at 45.08
TC	434 LB Conc.	Load at 7.00	
TC	182 LB Conc.	Load at 9.06	11.06, 13.06
BC	431 LB Conc.	Load at 7.00	
BC	77 LB Conc.	Load at 9.06, 11.06, 13.06	

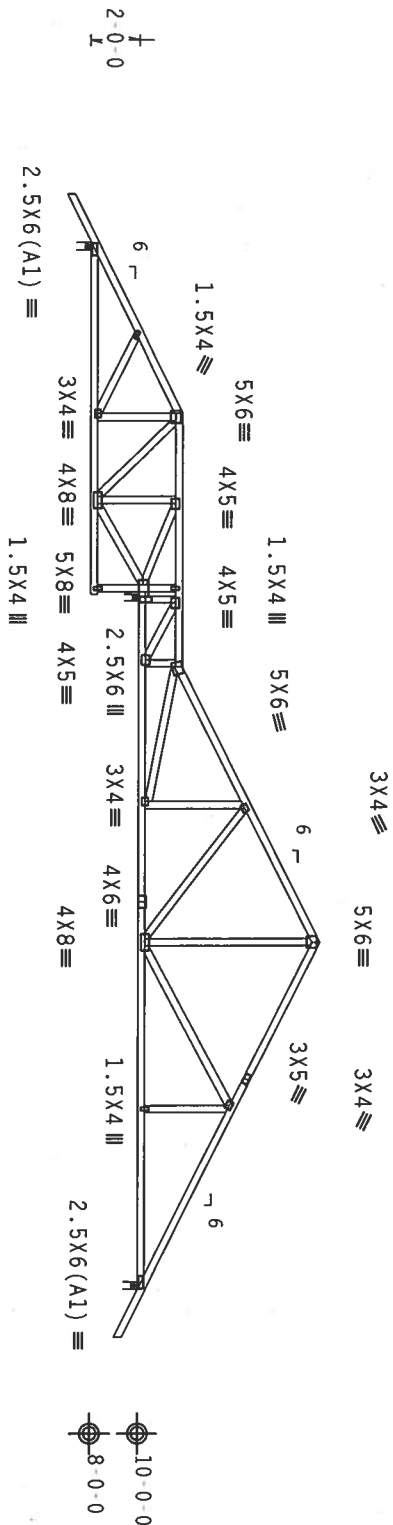


Diagram showing the elevation of a roof structure with the following dimensions and labels:

- Left end label:  $R=1225 \text{ U}=180 \text{ W}=3.5"$
- Right end label:  $R=1225 \text{ U}=180 \text{ W}=3.5"$
- Roof slope dimensions (from left to right):
  - $14'-6-12"$
  - $10'-4-15"$
  - $11'-4-0"$
  - $14'-4-0"$
- Roof slope arrows pointing right.
- Roof structure line with vertical tick marks indicating supports.
- Bottom label:  $43'-1-0"$  Over 3 Supports
- Bottom dimension line:  $70'-0"$

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

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

Scale = .125"/Ft.

**\*\*WARNING\*\*** TUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDING, SHIPPING, INSTALLING, AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TUSSE PLATE INSTITUTE, 216 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TUSSE COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MOHIOU, VA, 52719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. OTHERWISE, INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

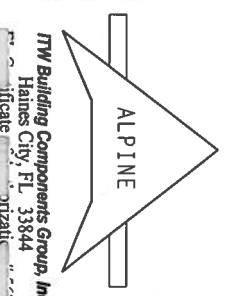
**\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH**

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BOWEN

CONNECTOR PLATES ARE MADE OF 20/18/1604 (N.H/SS/X) ASTM A553 GRADE 40/60 (N, K/H,SS) GALV. STEEL. APPL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11/2002 SEC.3. A SEAL ON THE DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS OF THE STRUCTURE. THE SUITABILITY AND USE OF THIS DOCUMENT FOR AND MAINTENANCE OF THE PERFORMANCE OF THE STRUCTURE.

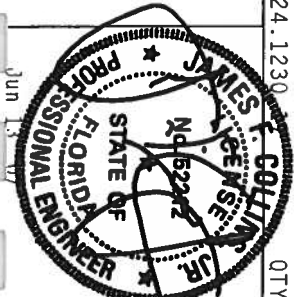
LOCATION SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



**\*\*IMPORTANT\*\*** Furnish a copy of this design to the installation contractor. ITC, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH IT; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND/OR ERECTING THE TRUSS.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC.), TYPICAL CONNECTION PLATES ARE MADE OF 2018/186GA (M./W/SS/K) ASTM A563 GRADE 40/60 (M./K/H/SS) GALV., STEEL, APPLIED TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITIONING PER DIMENSIONS 160A, AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TP11 2002 SEC.C, DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPLETION OF THE PROJECT.

A SEAL ON THIS DOCUMENT IS REQUIRED TO VERIFY THE STABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ASHRAE 90.1 SEC. 2.



TC LL	20.0 PSF	REF	R8228 - 94342
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164023
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9899
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228Z01

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC



**\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT**

FL / - / 4 - / - / K -		Scale = .125 / FL.
TC LL	20.0 PSF	REF R8228- 94343
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCU\$R8228 07164033
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 9890
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T868228Z01

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

Deflection meets  $L/360$  live and  $L/240$  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 6.50 ft from roof edge, Cat II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. IW=1.00 Gcp(+/-)=0.18

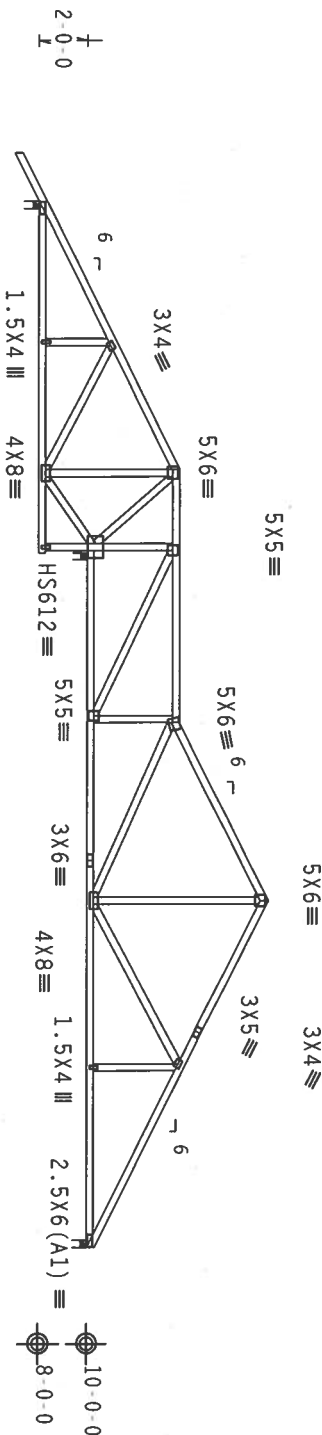


Diagram showing the elevation view of the bridge deck. The total length is 43-1-0. The deck is supported by 3 supports. The dimensions are as follows:

- Span 1: 14-6-12
- Span 2: 10-4-15
- Span 3: 7-4-0
- Span 4: 14-4-0

The total length is 43-1-0. The deck is supported by 3 supports. The dimensions are as follows:

- Span 1: 14-6-12
- Span 2: 10-4-15
- Span 3: 7-4-0
- Span 4: 14-4-0

The total length is 43-1-0. The deck is supported by 3 supports. The dimensions are as follows:

- Span 1: 14-6-12
- Span 2: 10-4-15
- Span 3: 7-4-0
- Span 4: 14-4-0

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

 $C_q/RT=1.00(1.25)/10(0)$ 

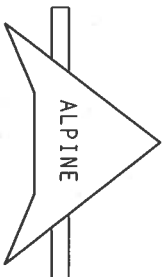
7.24.1230

QTY:1

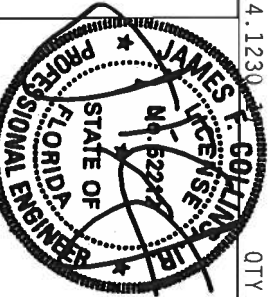
FL/-/4/-/-/R/-/

Scale = .125"/Ft.

\*\*\*\*\*WARNING\*\*\*\*\* FRAMES BUILDING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TP1 (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NICA (WOOD TRUSS CENTER OF AMERICA, 65000 AMERICA ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNDESIGNED OR OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

[illegible]

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



TC LL	20.0 PSF	REF	R8228- 94344
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164029
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9882
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228201

INVESTMENT OF THE (LUBINS & DISTRICTS) LOCAL AUTHORITY

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 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

(A) Continuous lateral bracing equally spaced on member.

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$ 

Scale = .125"/Ft.

James F. Collins  
Licenses  
No. 82262  
JR

2

STATE OF



CONFIDENTIAL

3

TC LL	20.0 PSF	REF	R8228 - 94345
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164028
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT. LD.	40.0 PSF	SEQN -	9891
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	1T868228Z01

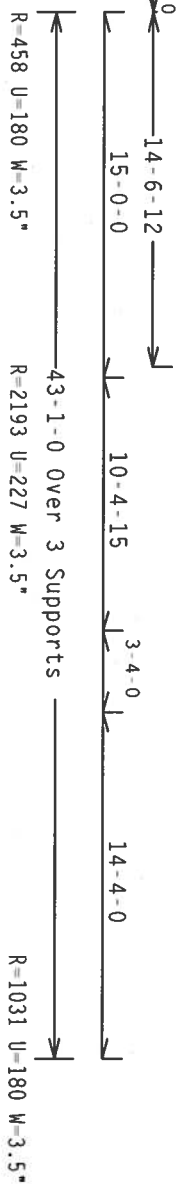


[illegible]

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



Scale = .125"/Ft.

1230  
JAMES E. COLLINGS JR.  
LICENSE  
No. 6224

ALPINE  
**ITW Building Components Group, Inc.**  
 Gaines City, FL 33844  
 Certificate of Authorization # 557

1. **DESIGN** - THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING AND THE BUILDING DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING DESIGNER PER ANSI/CP1.1 SEC. 2.

1206  
JAMES A. COLLINS, JR.  
No. 162214  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
Jun 13 07

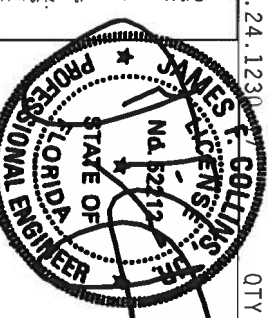
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TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164026
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN -	9877
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T868228Z01

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC



Scale = .125"/Ft.

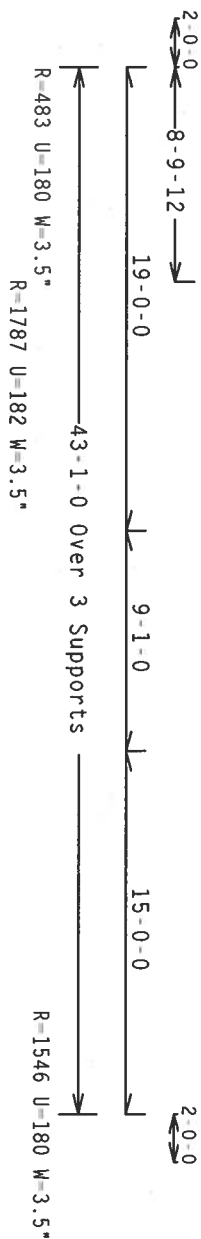
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



1	FL/4/-/R/-	Scale = .125"/Ft.
TC LL	20.0 PSF	REF R8228-94347
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUSR8228 07164025
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 9883
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T868228T01

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP 8, wind TC D<sub>L</sub>=5.0 psf, wind BC D<sub>L</sub>=5.0 psf I<sub>w</sub>=1.00 G<sub>CPI</sub>(+/-)=0.18

(A) Continuous lateral bracing equally spaced on member. Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.



Scale = .125"/Ft.

230 QTY  
JAMES F. COLLINS  
LICENSE  
NO. 66212

230 QTY  
JAMES F. COLLINS  
CLERK  
No. 62212

230  
QTY

230 QTY

JAMES F. COLLINS, JR.  
CLERK OF COURT  
No. 6212  
STATE OF FLORIDA  
PROthonary

230  
QTY

230  
QTY  
JAMES F. COLLINS, P.E.  
No. 62212  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
JUN 13 2017

230 QTY  
JAMES F. COLLINS, JR.  
PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
No. 62212-1  
Jun 13 '07

230 QTY

JAMES F. COLLINS  
LICENSE  
No. 62212  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

Jun 13 07

REF	R8228- 94348
DATE	06/13/07
DRW	HCSR8228 07164024
HC-ENG	JB/WHK
SEQN -	9875
JREF -	1T668228Z01

Top chord 2x6 SP #1 Dense :T1, T5 2x4 SP #2 Dense:  
Bot chord 2x6 SP #1 Dense  
Webs 2x4 SP #3 :W1 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

Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

## 2 COMPLETE TRUSSES REQUIRED

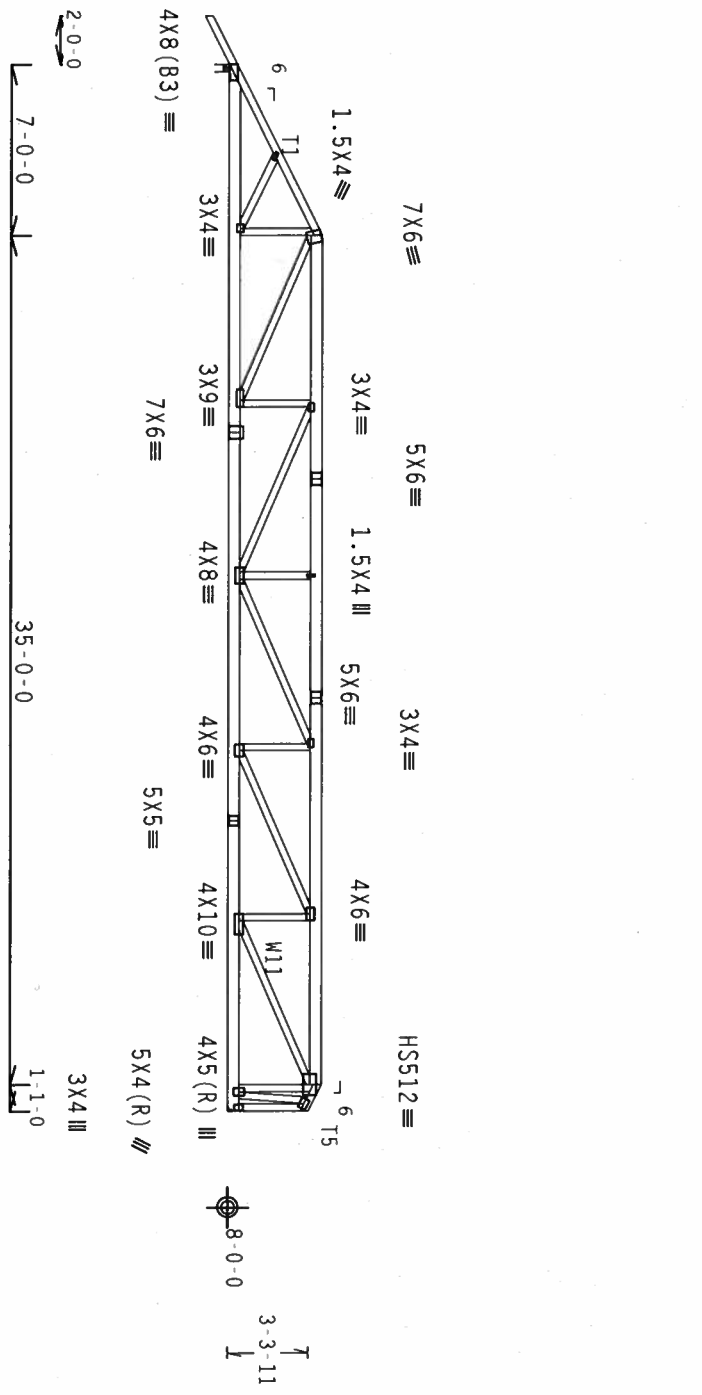
Nailing Schedule: (12d Common, (0.148"x3.25", min.)\_nails)

Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Right end vertical not exposed to wind pressure.

#1 hip supports 7-0-0 jacks with no webs.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. 20 Gauge HS.Wave

Design Crit: TP1-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

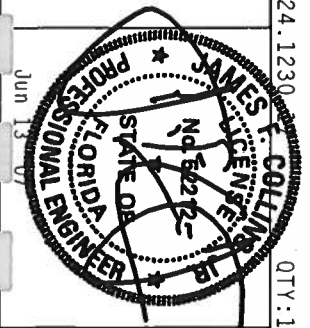
QTY:1 FL/-/4/-/-/R/-

Scale = .125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304. (703) 571-1111. IF YOU ARE A CONTRACTOR, YOU MUST BE A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA. 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 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.

DESIGN COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFPA) AND TP1. THE BCG CONNECTOR PLATES ARE MADE OF 2018/1604 (4 W/SS/S) ASTM A563 GRADE 40/60 (4, 4/16, 5/16) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK AS OF TP11-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGNER. THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 94349
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCSR8228 07164077
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN-	160312
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1T868228Z01

**ALPINE**

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
Telephone: 888.272.2722



( 7-180--Stanley Crawford Construc Hillandale Farms -- \*\* - HM9A )

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
Lt Splice Block 2x4 SP #3:

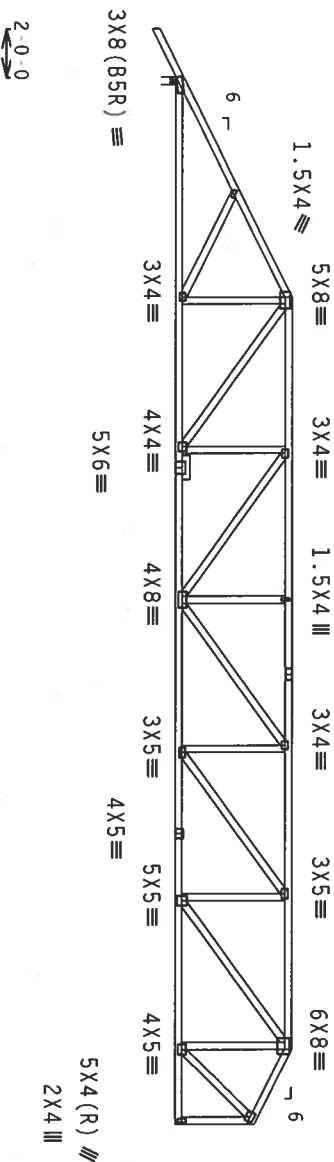
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Deflection meets L/360 live and L/240 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 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCP(+/-)=0.18$

Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.

3X6



3'-3-11  
1  
8'-0-0

9'-0-0  
31'-0-0  
2'-0-0  
3'-1-0  
43'-1-0 Over 2 Supports  
R=1917 U=196 W=3.5"  
R=1765 U=180

PLT TYP. Wave

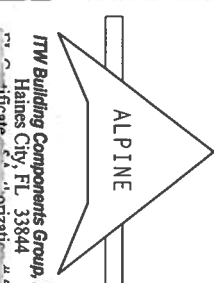
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.1230 15 QTY:1 FL/-/4/-/-/R/-

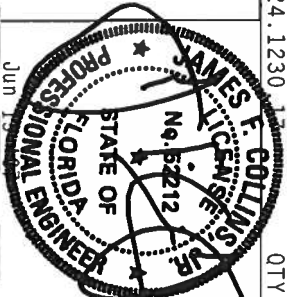
Scale = .125"/Ft.

\*\*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), 216 NORTH LEE STREET, 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. 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 WDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/1604 (W/H/S/S) ASTM A653 GRADE 40/60 (W, K/H, S/S) GALV. STEEL. APPLY PLATES EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ITW BCG SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE TRUSS COMPANY SHALL BE RESPONSIBLE FOR 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.



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



TC LL	20.0 PSF	REF R8228- 94350
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUR8228 07164031
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 9910
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T868228201

המחלקה נבנתה וסוכנותיהם (המחלקה והמחלקה) נבנתה

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf lw=1.00 Gcpi(+/-)=0.18

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

In lieu of structural panels on  
brace TC @ 24" OC, BC @ 24" OC.



Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0)$$

7.24.1230

QTY:1

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

Scale = .125"/Ft.

**JAMES T. COLLINS**  
LICENSE  
NO. 52127  
P.D.

SECRET

STATE OF

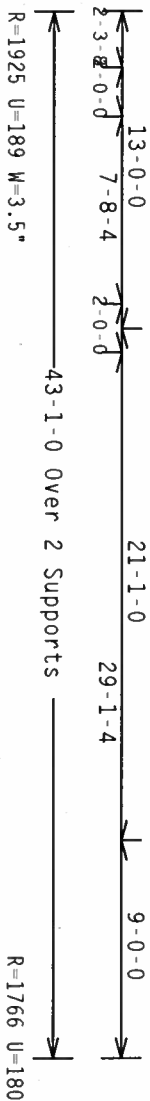
SECRET



Jun 13 07

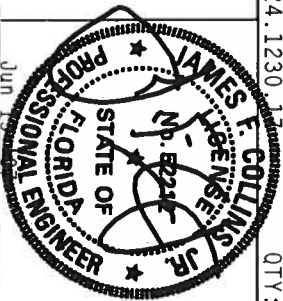
TC LL	20.0 PSF	REF	R8228- 94351
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164032
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9913
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T868228Z01

(A) Continuous lateral bracing equally spaced on member.



Scale = .125"/Ft.

**TTW Building Components Group, Inc.**  
Haines City, FL 33844



TC LL	20.0 PSF	REF	R8228- 94352
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164040
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9916
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228201

[illegible]

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, closed bldg, not located within 6.50 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

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



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

 $Cq/RT=1.00(1.25)/10(0)$ 

7.24.1230

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

Scale = .125"/Ft.

1230 QTY: 1

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT

BC LL 0.0 PSF

**TTW Building Components Group, Inc.**

Haines City, FL 33844

DESIGN SHOWN. THE SUITABILITY AND USE BUILDING DESIGNER PER ANS1/TPI 1 SEC. 2.

330  
JAMES E. COLLINS  
PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
No. 51212  
1A  
88  
OTY:

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

HC-ENG JB/WHK
SEQN - 9919
JREF - 1T868228Z01



110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, Cat II, Exp B, wind TC DLE=5.0 psf, wind BC DLE=5.0 psf Iw=1.00 Gcpi(+/-)=0.18

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



Scale = .125"/Ft.

JAMES T. COLLINS, JR.  
LICENSER  
No 52712

**\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT**

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PDA) AND TPI. ITM BCG

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, 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 USER.


BUILDING DESIGNER PER ANSI/HPI 1 SEC. 2.

Age Group	Total	Male	Female	Male	Female
18-24	100	100	100	100	100
25-34	100	100	100	100	100
35-44	100	100	100	100	100
45-54	100	100	100	100	100
55-64	100	100	100	100	100
65-74	100	100	100	100	100
75+	100	100	100	100	100

330  
QTY

PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
JAMES F. COLLINGS JR.  
No. 152712  
JUN 13 07

TC LL	20.0 PSF	REF	R8228 - 94354
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164038
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9922
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228Z01



**Alpine**  
**ITW Building Components Group, Inc.**  
 Haines City, FL 33844  
 Tel. 813/938-7333  
 Telex 980000  
 Fax 813/938-7333

**TTW Building Components Group, Inc.**  
Haines City, FL 33844  
For more information, call 800-368-7777







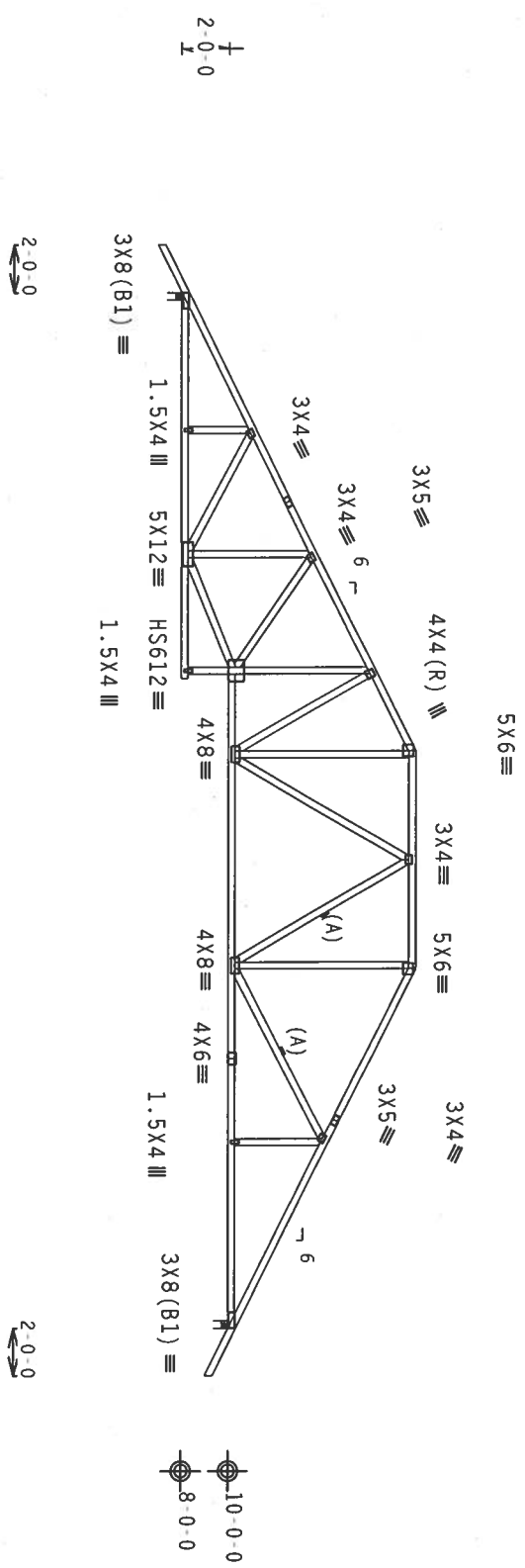
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 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 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $1W=1.00 GCP(+-)=0.18$   
Calculated horizontal deflection is 0.10" due to live load and 0.15" due to dead load.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. 20 Gauge HS.Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

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

Scale = .125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS ASSOCIATION 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 2018/1604 (W/H/S/S) ASTM A553 GRADE 40/60 (W, K/H, S5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2.

DESIGNER'S SEAL: A PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN OF THIS TRUSS COMPONENT. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THIS TRUSS COMPONENT. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THIS TRUSS COMPONENT.

ITW Building Components Group, Inc.  
Haines City, FL 33844  
Certificate # 547



TC LL	20.0 PSF	REF	R8228- 94357
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164002
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT. LD.	40.0 PSF	SEQN-	9872
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1T868228Z01

המחברת מודה לפרופ' דוד גורן על שיתוף הפעולה והערותיו.

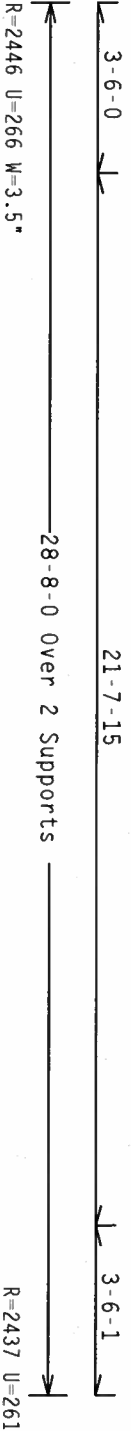
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf 1w=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.



Scale = .25"/ft.

JAMES F. COLLINS  
LICENSE  
No. 53713  
FEB

TC LL	20.0 PSF	REF	R8228 - 94358
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164019

TC LL	20.0 PSF	REF	R8228- 94358
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCSUR8228 07164019
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9930
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228Z01

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

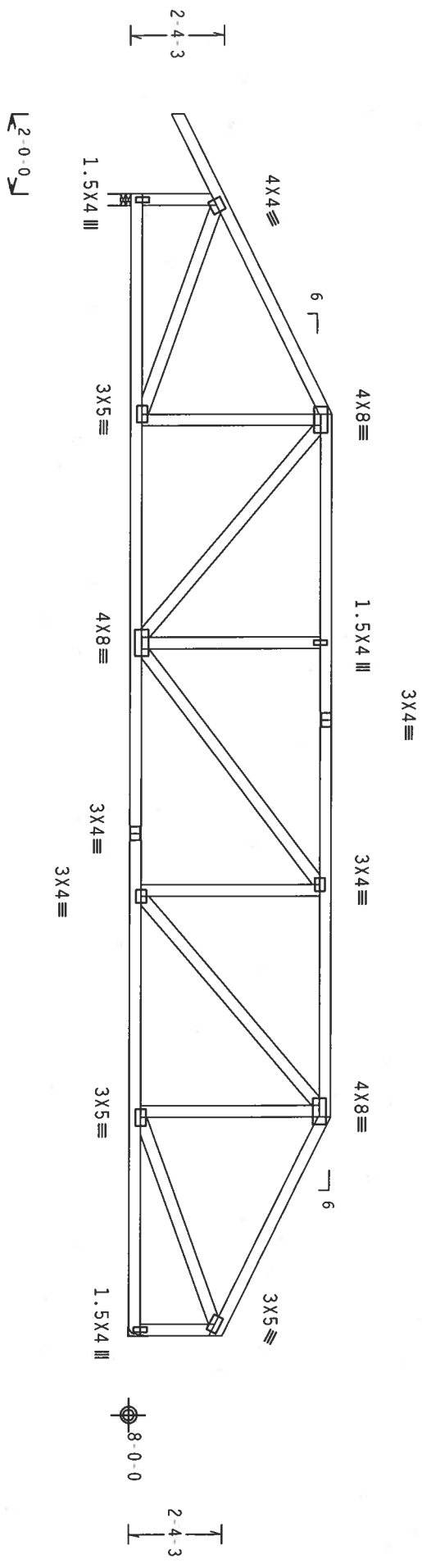
Wind reactions based on MMFRS pressures.

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

Deflection meets L/360 live and L/240 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. lw=1.00 gcpl(+/-)=0.18

Right end vertical not exposed to wind pressure.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

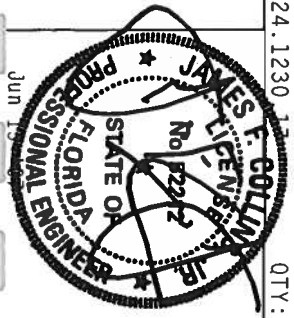
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

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

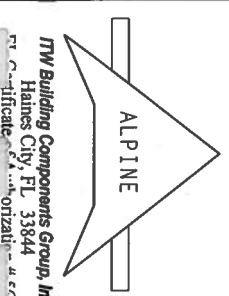
Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY) INFORMATION, PUBLISHED BY TPI, INC. 6100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6100 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 COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/1604 (W/35/3) ASTM A653 GRADE 40/60 (W/35/3) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DIMENSIONS 1604.2. THE TRUSS SHALL BE RE-EXAMINED AS OF 1/1/2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE ACCEPTED AND RESPONSIBLE DESIGN 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 R8228-94359
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUR8228 07164018
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 9934
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T868228Z01



ITW Building Components Group, Inc.  
Haines City, FL 33844  
Tel: 888.444.4444  
Fax: 888.444.4444

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

Wind reactions based on MMFRS pressures.

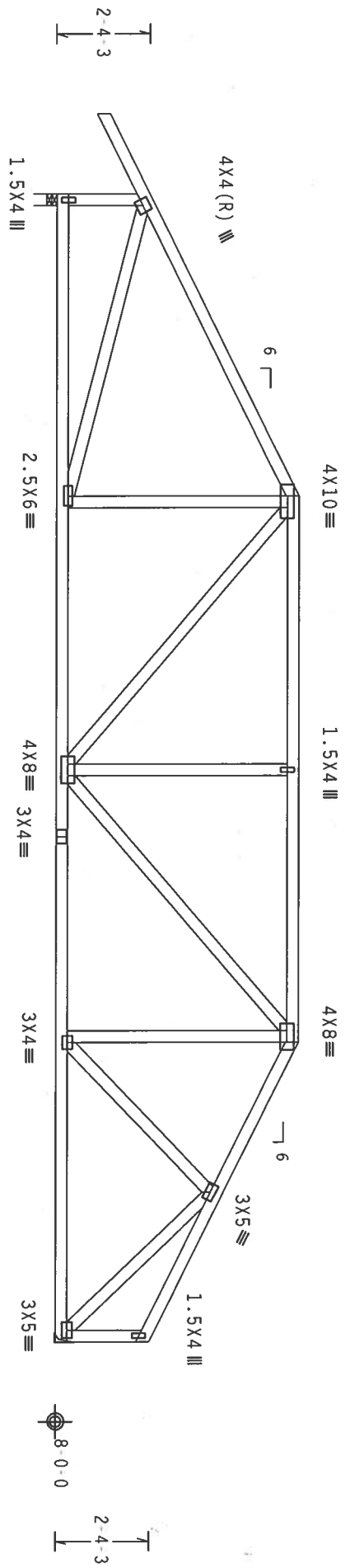
Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

Deflection meets L/360 live and L/240 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.  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

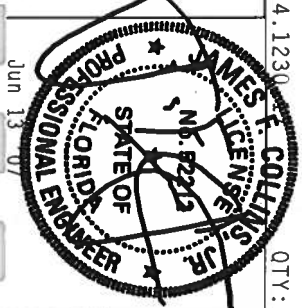
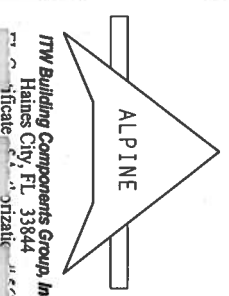


2'-0-0"  
7'-6-0  
13'-7-15  
7'-6-1  
28'-8-0 Over 2 Supports  
R=1319 U=180 W=3.5"  
R=1176 U=180

PLT TYP. Wave  
Design Crit: TP1-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)  
7.24.1230  
QTY:1  
FL/-/4/-/R/-  
Scale = .25"/ft.

\*\*HARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 5300 NORTH LEE STREET, 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. ITW 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. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AWS (NATIONAL DESIGN SPEC. BY AISC) AND TP1. ITW BCG CONNECTION PLATES ARE MADE OF 2018/1604 (W/MS/S) ASTM A563 GRADE 40/60 (W, K/H, S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2. CONNECTIONS OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS/TP1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 94360
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCSR8228 07164017
BC LL	0.0 PSF	HC-ENG	JB/WMH
TOT. LD.	40.0 PSF	SEQN-	9936
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	1T868228Z01

(continued)

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC D1=5.0 psf, wind BC D1=5.0 psf Iw=1.00 GCp1(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



Scale = .1875"/Ft.

BRACING, TUBULE, 218 A, 6300 UNLESS SHALL HAVE	TC LL	20.0 PSF
	TC DL	10.0 PSF
	TC DL	10.0 PSF
	TC DL	10.0 PSF

SHALL NOT

STATE OF

17M BCG  
PUBLIC  
FOR ID NO 0 BCE

101:LD: 40.0 PSF

DIAPYCNONE 1.25

PERSONAL ENGINEERING COMPONENT

UNITED STATES OF AMERICA

Jun 13 07 | SPACING 24.0"

—

100

FL/-/4/-/-/R/-		Scale = .1875"/Ft.
TC LL	20.0 PSF	REF R8228-94361
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUR8228 07164016
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 9878
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T868228Z01

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/FP 1 SEC. 2.



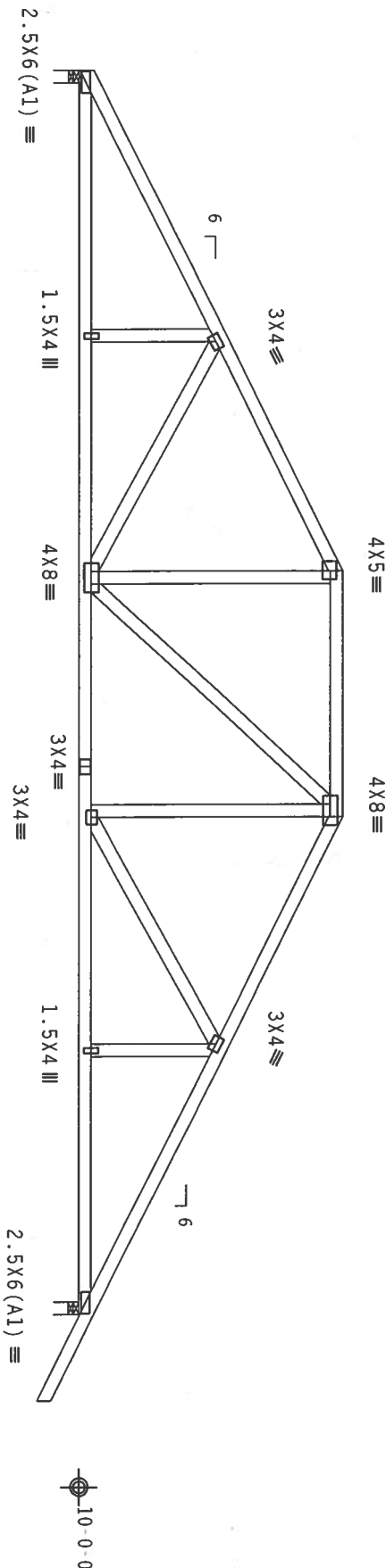
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

Deflection meets L/360 live and L/240 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 GCP(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



11-6-0  
5-7-15  
11-6-1  
28-8-0 Over 2 Supports  
R=1175 U=180 W=3.5"  
R=1320 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.1230

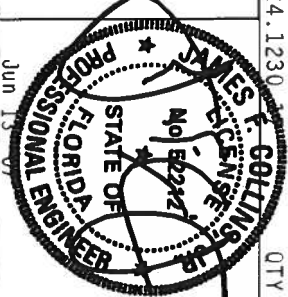
QTY:1

FL/-/4/-/0/R/-

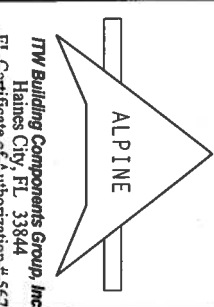
Scale = .25"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCG BUILDING COMPONENT SAFETY PUBLISHED BY THE NATIONAL TRUSS COUNCIL OF AMERICA, 6300 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 AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/1604 (W/H/S/S) ASTM A553 GRADE 40/60 (W, K/H, S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI 1, 2002, SEC. 3. A SEAL ON THIS DESIGN SHOWS THE SUTTING AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



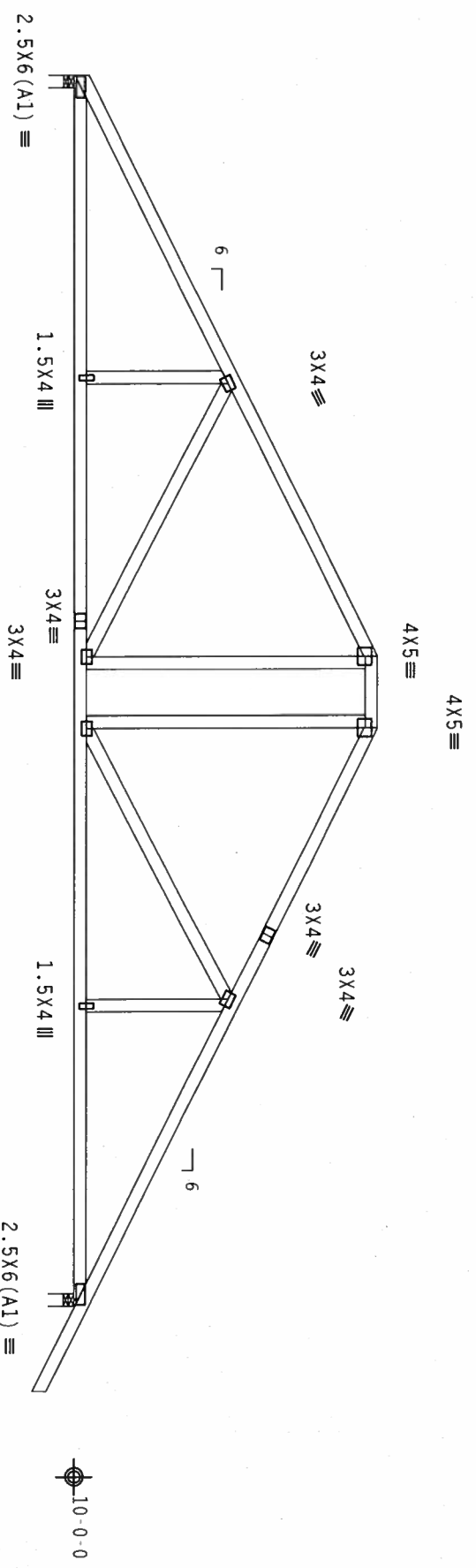
TC LL	20.0 PSF	REF R8228- 94362
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUR8228 07164015
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT. LD.	40.0 PSF	SEQN- 9863
DUR. FAC.	1.25	
SPACING	24.0"	
UREF	1T868228Z01	



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

Wind reactions based on MMFRS pressures.  
Deflection meets L/360 live and L/240 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 GCpl(+/-)=0.18  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



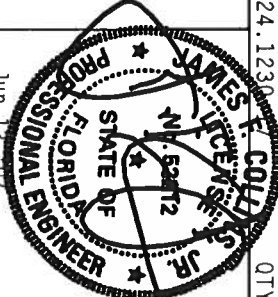
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.1230 E. COLLIER, FL 32209  
QTY: 1 FL/-/4/-/-/R/-

Scale = .25"/Ft.

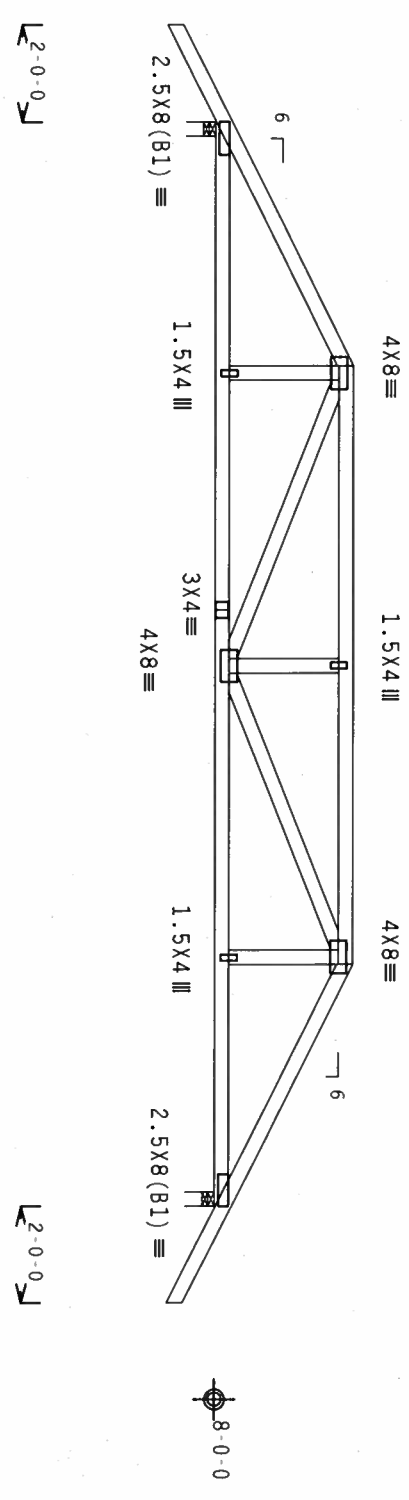
ALPINE		ITW Building Components Group, Inc. Haines City, FL 33844 Tel: 888.667.6677	
**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 216 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND NCA (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 NDS) AND TPI. TYP BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/S/S) ASTM A653 GRADE 40/60 (W, K/H/S/S) 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 AMES AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES CERTIFICATION OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWS THE DESIGNER'S 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	R8228-94363
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164014
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN	9886
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T868228Z01



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

Wind reactions based on MWFRS pressures.  
#1 hip supports 5-0-0 jacks with no webs.

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 gcpl(+/-)=0.18  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

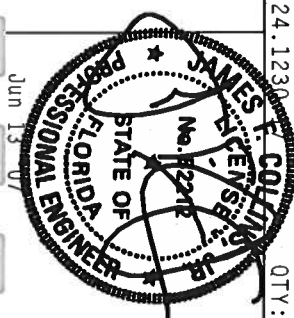
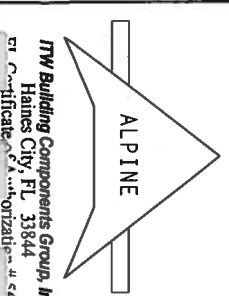


5-0-0 12-3-8 5-0-0 2-0-0 2-0-0  
R=1502 U=180 W=3.5" R=1502 U=180 W=3.5"

PLT TYP. Wave Design Crtt: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.12300 E COLLINGWOOD, FL 32202 OTY:1 FL/-/4/-/R/- Scale = .25"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 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. JTW 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 SPEC. BY AEPRA) AND TPI. JTW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AEPRA) AND TPI. JTW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/55/K) ASH 4653 GRADE 40/60 (W/55) GALV. STEEL. APPLY PLATES TO TOP AND BOTTOM CHORDS. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 160B, 160C, 160D, 160E, 160F, 160G, 160H, 160I, 160J, 160K, 160L, 160M, 160N, 160O, 160P, 160Q, 160R, 160S, 160T, 160U, 160V, 160W, 160X, 160Y, 160Z. DRAWING INDICATES ACCEPTANCE OF PROVISIONS OF TPI-2002 SEC. 2. A SEAL ON THIS DESIGN SHOWS 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 R8228-94364
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUR8228 07164045
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 9896
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T868228201

Top chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #1 Dense  
Webs 2x4 SP #3

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 62 PLF at -2.00 to 62 PLF at 5.54  
TC - From 62 PLF at 5.54 to 62 PLF at 16.75  
TC - From 62 PLF at 16.75 to 62 PLF at 24.29  
BC - From 4 PLF at -2.00 to 4 PLF at 0.00  
BC - From 20 PLF at 0.00 to 20 PLF at 12.00  
BC - From 20 PLF at 12.00 to 20 PLF at 22.29  
BC - From 4 PLF at 22.29 to 4 PLF at 24.29  
BC - 1765 LB Conc. load at 1.23, 3.23, 5.23, 7.23, 13.23  
BC - 1766 LB Conc. load at 9.23, 11.23  
BC - 3675 LB Conc. load at 15.17

Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

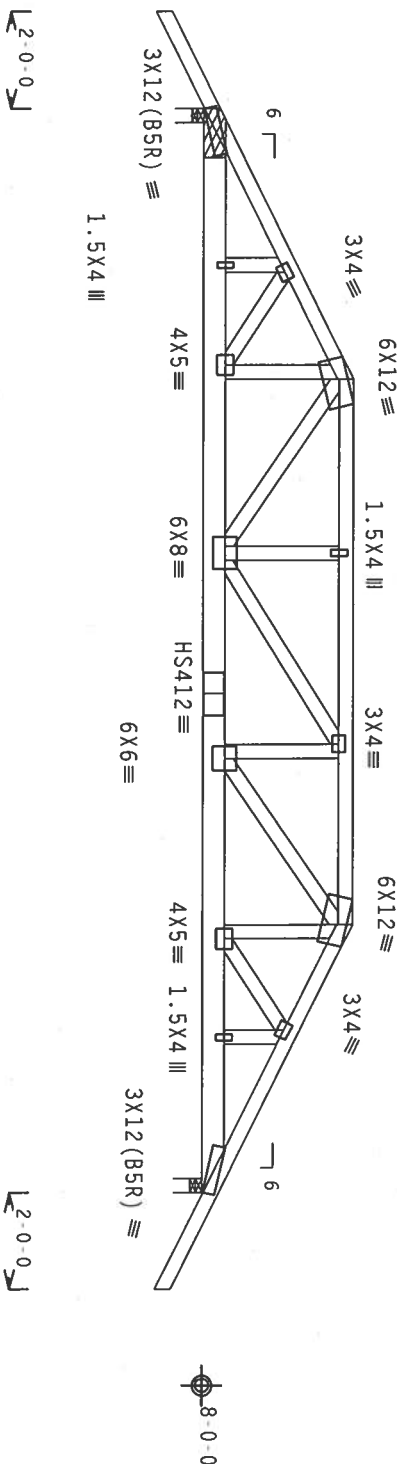
3 COMPLETE TRUSSES REQUIRED

Nailling Schedule: (12d Common (0.148"x3.25", min.)\_nails)  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 2 Rows @ 5.00" o.c. (Each Row)  
Webs : 1 Row @ 4" o.c.  
Repeat nailling as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.)\_nails  
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE  
1 0.000' 1 12" 4 Rigid Surface  
Bearing block to be same size and species as bottom chord.  
Refer to drawing CNBRGblk1103 for additional information.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. 20 Gauge HS.Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.1230

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

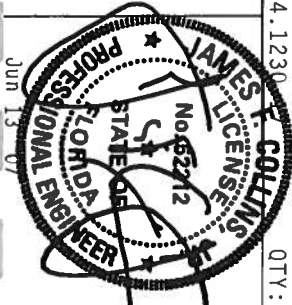
Scale = .25"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE NATIONAL ASSOCIATION OF BUILDING OFFICIALS, 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.

ALPINE

MTW Building Components Group, Inc.  
Haines City, FL 33844  
Office: 888.888.8888

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. JTW 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/PA) AND TPI. JTW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/50 (W. K/M/SS) 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 TPI SHALL BE PER AMES AS OF TPI-11-2002 SEC.3. FOR THE TRUSS COMPONENT DESIGNER'S RESPONSIBILITY, THE TRUSS COMPONENT SHALL BE USED IN CONFORMANCE WITH THE DESIGN SHOWN. THE TRUSS COMPONENT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R8228- 94365
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUR8228 07164030
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 9952
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T868228Z01

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

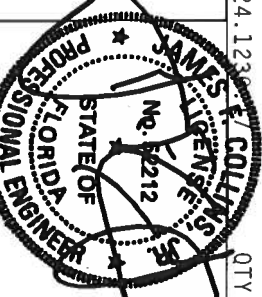
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Scale = .5"/Ft.

ALPINE

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



TC LL	20.0 PSF	REF	R8228- 94366
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCSR8228 07164008
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9895
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228201



Top chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #1 Dense  
Webs 2x4 SP #3

SPECIAL LOADS

(LUMBER DUR.FAC=1.25 / PLATE DUR.FAC=1.25)			
TC - From	62 PLF at -2.00 to	62 PLF at	3.25
TC - From	62 PLF at 3.25 to	62 PLF at	8.75
TC - From	62 PLF at 8.75 to	62 PLF at	14.00
BC - From	4 PLF at -2.00 to	4 PLF at	0.00
BC - From	20 PLF at 0.00 to	20 PLF at	12.00
BC - From	4 PLF at 12.00 to	4 PLF at	14.00
BC - 2437 LB Conc. Load at	7.00		
BC - 1176 LB Conc. Load at	9.00, 11.00		

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

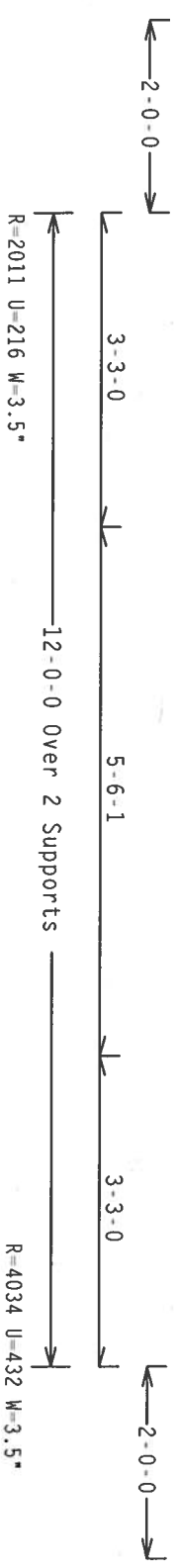
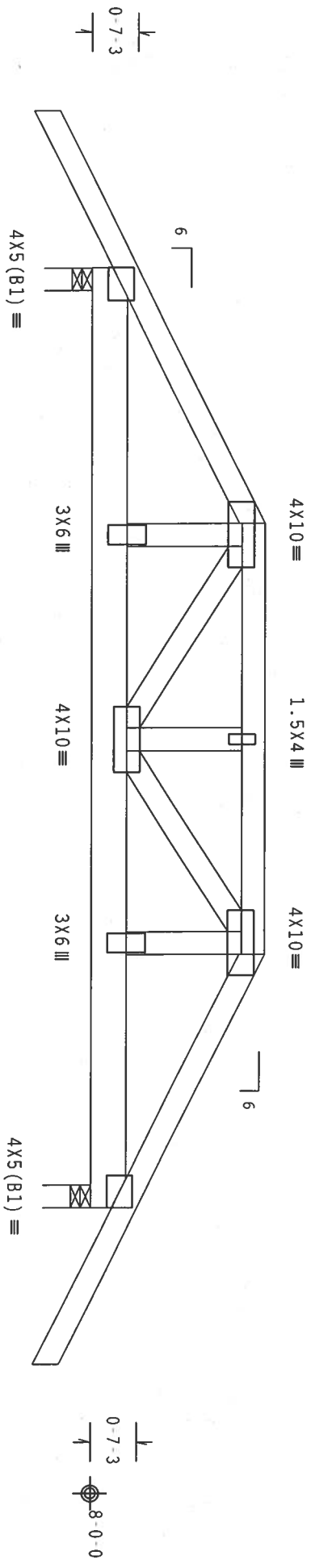
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common, (0.148"x3.25", min.)\_nails)  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @ 4.75" o.c.  
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. 1w=1.00 gcpl(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

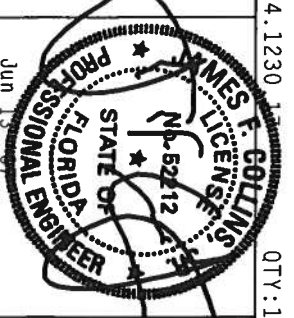
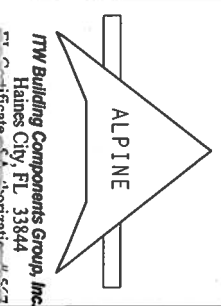
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

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

Scale =.5"/Ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE NATIONAL TRUSS COUNCIL OF AMERICA, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 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 OF THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/1604 (W/H/S/S) ASTM A553 GRADE 40/60 (W, K/H, S5) GALV. STEEL. APPLY ALL SPECIFICATIONS OF INTERMEDIATE TRUSSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER'S DESIGN. 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.



TC LL	20.0 PSF	REF	R8228-94367
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCSR8228 07164003
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT. LD.	40.0 PSF	SEQN-	9939
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228201



[illegible]

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind Tc DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

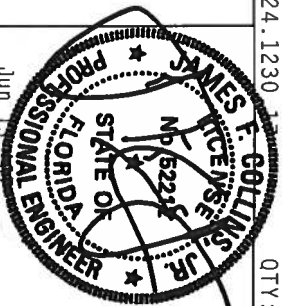
 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$ 

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

Scale = .5"/Ft.

**JAMES F. COLLINS, JR.**  
LICENSE  
No. 63235

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- 94369
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164010
BC LL	0.0 PSF	HC-ENG JB/WHK	*
TOT.LD.	40.0 PSF	SECN-	9880
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228Z01

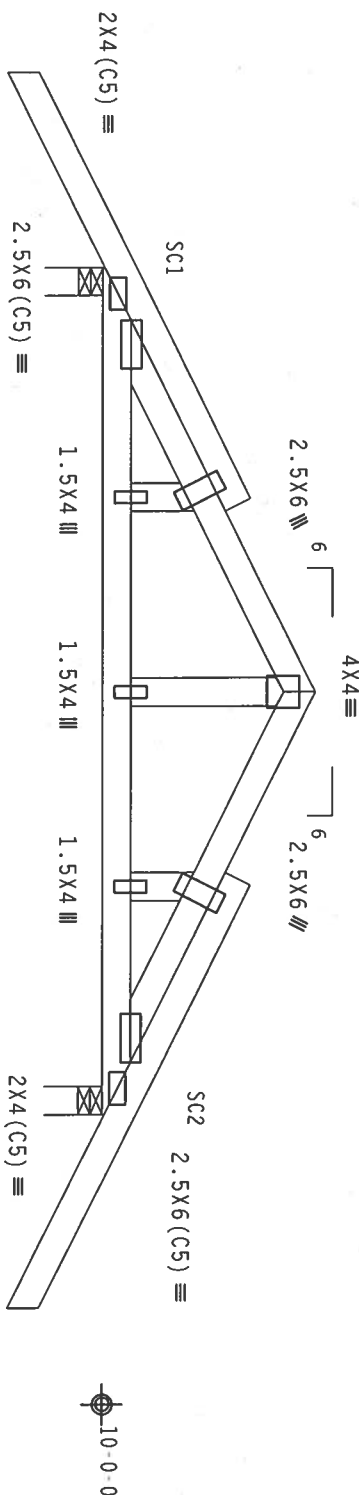
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Stack Chord SC1 2x4 SP #2 Dense:  
:Stack Chord SC2 2x4 SP #2 Dense:

Gable end supports 8" max rake overhang.

Stacked top chord must NOT be notched or cut in area (NML).  
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.

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,  $I_w=1.00$   $G_{cpl}(+/-)=0.18$   
Wind reactions based on MFRS pressures.  
See DWGS A110ISEE1106 & GBLLETIN1106 for more requirements.  
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.  
Deflection meets L/360 live and L/240 total load. Creep increase  
factor for dead load is 1.50.



2x4 (C5) ≡  
2.5x6 (C5) ≡  
1.5x4 ≡  
1.5x4 ≡  
1.5x4 ≡  
2x4 (C5) ≡  
SC1  
SC2 2.5x6 (C5) ≡  
R=699 U-180 W=3.5"  
R=699 U-180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

QTY: 1

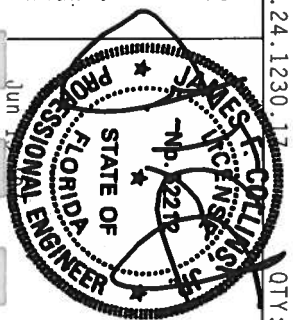
FL/-/4/-/R/-

Scale = .5"/ft.

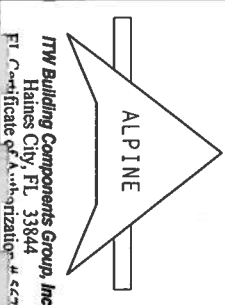
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
BEFORE TRUSSES ARE USED IN CONSTRUCTION, THE FOLLOWING INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURER, MUST BE  
READ AND UNDERSTOOD BY ALL PERSONS INVOLVED IN THE CONSTRUCTION OF THE BUILDING. THE TRUSS MANUFACTURER  
NORTH LEE STREET, WAUWATON, 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  
A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* TURNISH 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  
TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITN BCG  
CONNECTION PLATES ARE MADE OF 20/18/16GA (N/A/SS/K) ASTM A653 GRADE 40/60 (N/A/SS) 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 AMER 43 OF TPI-2002 SEC.3. A SEAL ON THIS  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT  
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R8228- 94370
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUSR8228 07164001
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 9947
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T868228Z01



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

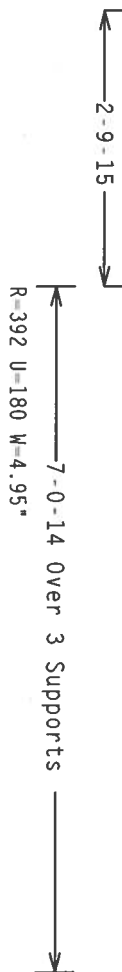
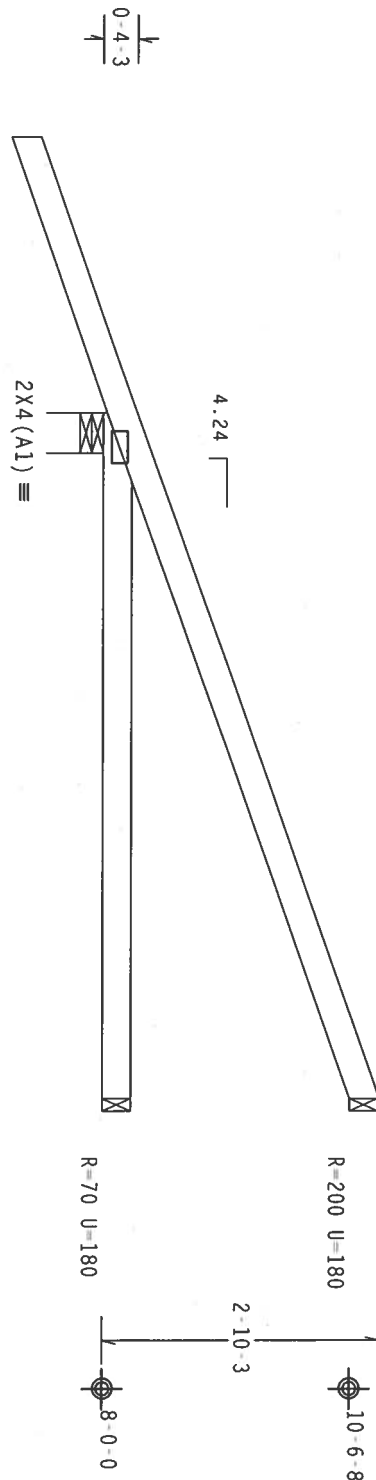
Wind reactions based on MMFRS pressures.

Hipjack supports 5-0-0 setback jacks with no webs.

Deflection meets L/360 live and L/240 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.  $I_w=1.00$  GCPI(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0)

7.24.1230.17

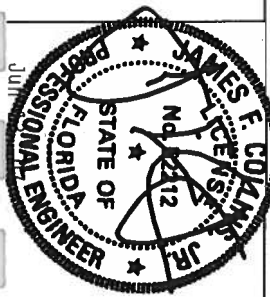
QTY: 2 FL/-/4/-/R/-

Scale = .5"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 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. BY ACPA) AND TPI. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. ITW BCG PLATES EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z, 160B, 160C, 160D, 160E, 160F, 160G, 160H, 160I, 160J, 160K, 160L, 160M, 160N, 160O, 160P, 160Q, 160R, 160S, 160T, 160U, 160V, 160W, 160X, 160Y, 160Z, 160AA, 160AB, 160AC, 160AD, 160AE, 160AF, 160AG, 160AH, 160AI, 160AJ, 160AK, 160AL, 160AM, 160AN, 160AO, 160AP, 160AQ, 160AR, 160AS, 160AT, 160AU, 160AV, 160AW, 160AX, 160AY, 160AZ, 160BA, 160BB, 160BC, 160BD, 160BE, 160BF, 160BG, 160BH, 160BI, 160BJ, 160BK, 160BL, 160BM, 160BN, 160BO, 160BP, 160BQ, 160BR, 160BS, 160BT, 160BU, 160BV, 160BW, 160BX, 160BY, 160BZ, 160CA, 160CB, 160CC, 160CD, 160CE, 160CF, 160CG, 160CH, 160CI, 160CJ, 160CK, 160CL, 160CM, 160CN, 160CO, 160CP, 160CQ, 160CR, 160CS, 160CT, 160CU, 160CV, 160CW, 160CX, 160CY, 160CZ, 160DA, 160DB, 160DC, 160DD, 160DE, 160DF, 160DG, 160DH, 160DI, 160DJ, 160DK, 160DL, 160DM, 160DN, 160DO, 160DP, 160DQ, 160DR, 160DS, 160DT, 160DU, 160DV, 160DW, 160DX, 160DY, 160DZ, 160EA, 160EB, 160EC, 160ED, 160EE, 160EF, 160EG, 160EH, 160EI, 160EJ, 160EK, 160EL, 160EM, 160EN, 160EO, 160EP, 160EQ, 160ER, 160ES, 160ET, 160EU, 160EV, 160EW, 160EX, 160EY, 160EZ, 160FA, 160FB, 160FC, 160FD, 160FE, 160FF, 160FG, 160FH, 160FI, 160FJ, 160FK, 160FL, 160FM, 160FN, 160FO, 160FP, 160FQ, 160FR, 160FS, 160FT, 160FU, 160FV, 160FW, 160FX, 160FY, 160FZ, 160GA, 160GB, 160GC, 160GD, 160GE, 160GF, 160GG, 160GH, 160GI, 160GJ, 160GK, 160GL, 160GM, 160GN, 160GO, 160GP, 160GQ, 160GR, 160GS, 160GT, 160GU, 160GV, 160GW, 160GX, 160GY, 160GZ, 160HA, 160HB, 160HC, 160HD, 160HE, 160HF, 160HG, 160HH, 160HI, 160HJ, 160HK, 160HL, 160HM, 160HN, 160HO, 160HP, 160HQ, 160HR, 160HS, 160HT, 160HU, 160HV, 160HW, 160HX, 160HY, 160HZ, 160IA, 160IB, 160IC, 160ID, 160IE, 160IF, 160IG, 160IH, 160II, 160IJ, 160IK, 160IL, 160IM, 160IN, 160IO, 160IP, 160IQ, 160IR, 160IS, 160IT, 160IU, 160IV, 160IW, 160IX, 160IY, 160IZ, 160JA, 160JB, 160JC, 160JD, 160JE, 160JF, 160JG, 160JH, 160JI, 160JJ, 160JK, 160JL, 160JM, 160JN, 160JO, 160JP, 160JQ, 160JR, 160JS, 160JT, 160JU, 160JV, 160JW, 160JX, 160JY, 160JZ, 160KA, 160KB, 160KC, 160KD, 160KE, 160KF, 160KG, 160KH, 160KI, 160KJ, 160KK, 160KL, 160KM, 160KN, 160KO, 160KP, 160KQ, 160KR, 160KS, 160KT, 160KU, 160KV, 160KW, 160KX, 160KY, 160KZ, 160LA, 160LB, 160LC, 160LD, 160LE, 160LF, 160LG, 160LH, 160LI, 160LJ, 160LK, 160LL, 160LM, 160LN, 160LO, 160LP, 160LQ, 160LR, 160LS, 160LT, 160LU, 160LV, 160LW, 160LX, 160LY, 160LZ, 160MA, 160MB, 160MC, 160MD, 160ME, 160MF, 160MG, 160MH, 160MI, 160MJ, 160MK, 160ML, 160MN, 160MO, 160MP, 160MQ, 160MR, 160MS, 160MT, 160MU, 160MV, 160MW, 160MX, 160MY, 160MZ, 160NA, 160NB, 160NC, 160ND, 160NE, 160NF, 160NG, 160NH, 160NI, 160NJ, 160NK, 160NL, 160NM, 160NO, 160NP, 160NQ, 160NR, 160NS, 160NT, 160NU, 160NV, 160NW, 160NX, 160NY, 160NZ, 160OA, 160OB, 160OC, 160OD, 160OE, 160OF, 160OG, 160OH, 160OI, 160OJ, 160OK, 160OL, 160OM, 160ON, 160OO, 160OP, 160OQ, 160OR, 160OS, 160OT, 160OU, 160OV, 160OW, 160OX, 160OY, 160OZ, 160PA, 160PB, 160PC, 160PD, 160PE, 160PF, 160PG, 160PH, 160PI, 160PJ, 160PK, 160PL, 160PM, 160PN, 160PO, 160PP, 160PQ, 160PR, 160PS, 160PT, 160PU, 160PV, 160PW, 160PX, 160PY, 160PZ, 160QA, 160QB, 160QC, 160QD, 160QE, 160QF, 160QG, 160QH, 160QI, 160QJ, 160QK, 160QL, 160QM, 160QN, 160QO, 160QP, 160QQ, 160QR, 160QS, 160QT, 160QU, 160QV, 160QW, 160QX, 160QY, 160QZ, 160RA, 160RB, 160RC, 160RD, 160RE, 160RF, 160RG, 160RH, 160RI, 160RJ, 160RK, 160RL, 160RM, 160RN, 160RO, 160RP, 160RQ, 160RR, 160RS, 160RT, 160RU, 160RV, 160RW, 160RX, 160RY, 160RZ, 160SA, 160SB, 160SC, 160SD, 160SE, 160SF, 160SG, 160SH, 160SI, 160SJ, 160SK, 160SL, 160SM, 160SN, 160SO, 160SP, 160SQ, 160SR, 160SS, 160ST, 160SU, 160SV, 160SW, 160SX, 160SY, 160SZ, 160TA, 160TB, 160TC, 160TD, 160TE, 160TF, 160TG, 160TH, 160TI, 160TJ, 160TK, 160TL, 160TM, 160TN, 160TO, 160TP, 160TQ, 160TR, 160TS, 160TT, 160TU, 160TV, 160TW, 160TX, 160TY, 160TZ, 160UA, 160UB, 160UC, 160UD, 160UE, 160UF, 160UG, 160UH, 160UI, 160UJ, 160UK, 160UL, 160UM, 160UN, 160UO, 160UP, 160UQ, 160UR, 160US, 160UT, 160UU, 160UV, 160UW, 160UX, 160UY, 160UZ, 160VA, 160VB, 160VC, 160VD, 160VE, 160VF, 160VG, 160VH, 160VI, 160VJ, 160VK, 160VL, 160VM, 160VN, 160VO, 160VP, 160VQ, 160VR, 160VS, 160VT, 160VU, 160VV, 160VW, 160VX, 160VY, 160VZ, 160WA, 160WB, 160WC, 160WD, 160WE, 160WF, 160WG, 160WH, 160WI, 160WJ, 160WK, 160WL, 160WM, 160WN, 160WO, 160WP, 160WQ, 160WR, 160WS, 160WT, 160WU, 160WV, 160WW, 160WX, 160WY, 160WZ, 160XA, 160XB, 160XC, 160XD, 160XE, 160XF, 160XG, 160XH, 160XI, 160XJ, 160XK, 160XL, 160XM, 160XN, 160XO, 160XP, 160XQ, 160XR, 160XS, 160XT, 160XU, 160XV, 160XW, 160XX, 160XY, 160XZ, 160YA, 160YB, 160YC, 160YD, 160YE, 160YF, 160YG, 160YH, 160YI, 160YJ, 160YK, 160YL, 160YM, 160YN, 160YO, 160YP, 160YQ, 160YR, 160YS, 160YT, 160YU, 160YV, 160YW, 160YX, 160YY, 160YZ, 160ZA, 160ZB, 160ZC, 160ZD, 160ZE, 160ZF, 160ZG, 160ZH, 160ZI, 160ZJ, 160ZK, 160ZL, 160ZM, 160ZN, 160ZO, 160ZP, 160ZQ, 160ZR, 160ZS, 160ZT, 160ZU, 160ZV, 160ZW, 160ZX, 160ZY, 160ZZ

ALPINE  
ITW Building Components Group, Inc.  
Haines City, FL 33844  
File Certificate of Authorization # 567



TC LL	20.0 PSF	REF R8228- 94371
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUSR8228 07164044
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SECON- 9894
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T868228Z01



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

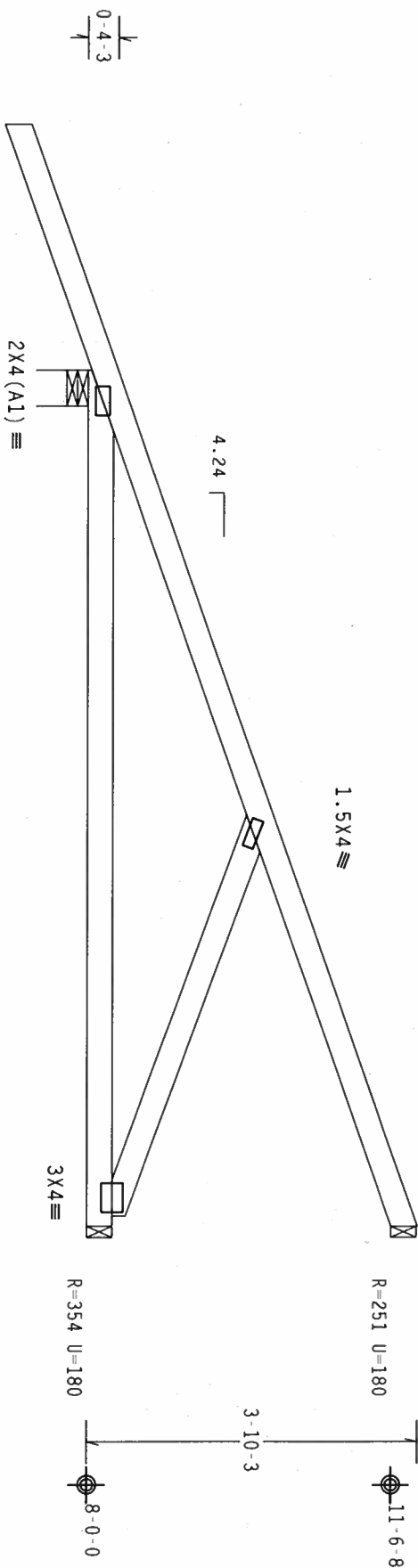
Wind reactions based on MMFRS pressures.

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

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 Gcpl(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.

Deflection meets L/360 live and L/240 total load. Creep increase  
factor for dead load is 1.50.



2-9-15

9-10-13 Over 3 Supports  
R=540 U=180 W=4.95"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

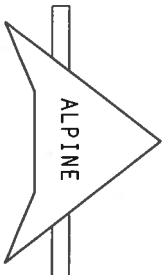
Cq/RT=1.00(1.25)/10(0) 7.24.1230

QTY:2 FL/-/4/-/R/-

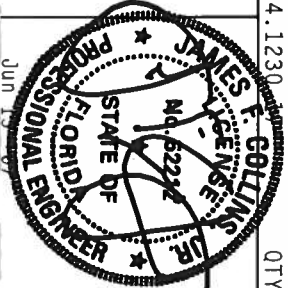
Scale =.5"/Ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE TRUSS MANUFACTURER'S INSTRUCTIONS FOR THE TRUSS. THE TRUSS IS TO BE USED IN THE FOLLOWING MANNER: NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICK LANE, SUITE 312, ALEXANDRIA, VA 22314. THE TRUSS IS TO BE USED IN THE FOLLOWING MANNER: 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. BY AERPA) AND TPI. ITM BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. ITM BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS)/ASIN A653 GRADE 40/60 (W/ K/H/SS) GALV. STEEL. APPLY 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE SIGNATURE OF THE DESIGNER. THE SIGNATURE OF THE DESIGNER IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
ET Certificate of Authorization # 627



TC LL	20.0 PSF	REF	R8228- 94372
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164035
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEON-	9898
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228201

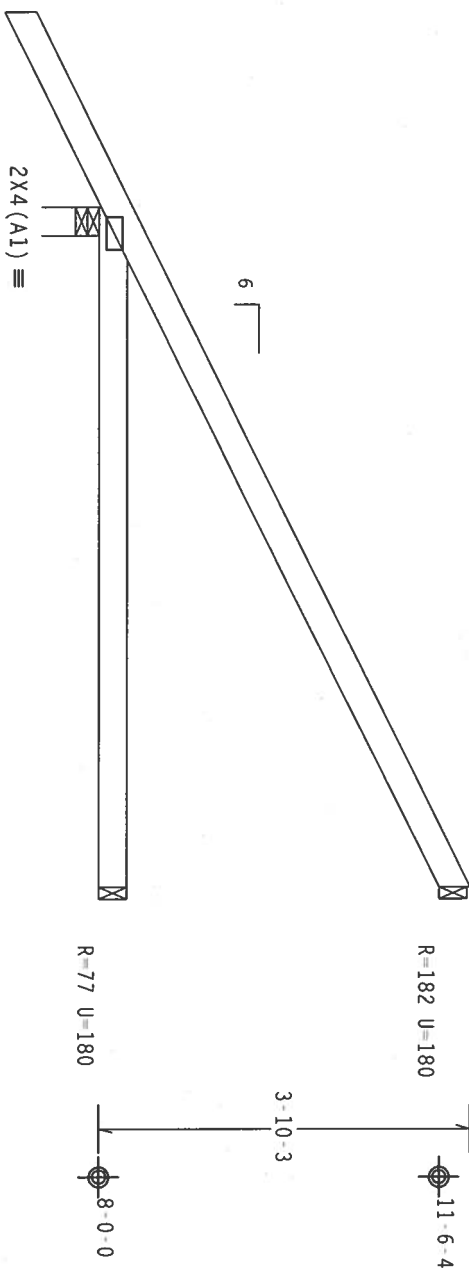
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

Deflection meets L/360 live and L/240 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 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

In lieu of structural panels or rigid ceiling use purllins to brace TC @ 24" OC, BC @ 24" OC.



6-5-8  
7-0-0 Over 3 Supports  
R=450 U=180 W-3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

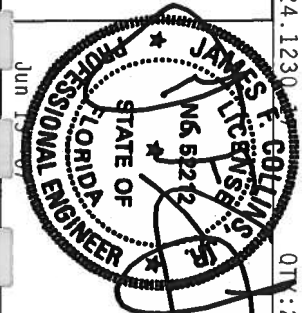
7-24-1230  
QTY: 22 FL/-/4/-/R/-

Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 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.

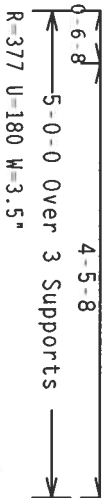
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 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.

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 567



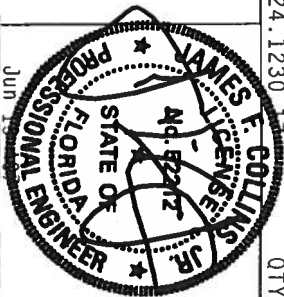
TC LL	20.0 PSF	REF R8228- 94373
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUSR8228 07164034
BC LL	0.0 PSF	HC-ENG JB/WHK *
TOT.LD.	40.0 PSF	SEON- 9865
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 11868228201

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC



Scale = .5"/Ft.

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FI Certificate of Authorization # 667



TC LL	20.0 PSF	REF	R8228- 94374
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164004
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEQN-	9873
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228Z01

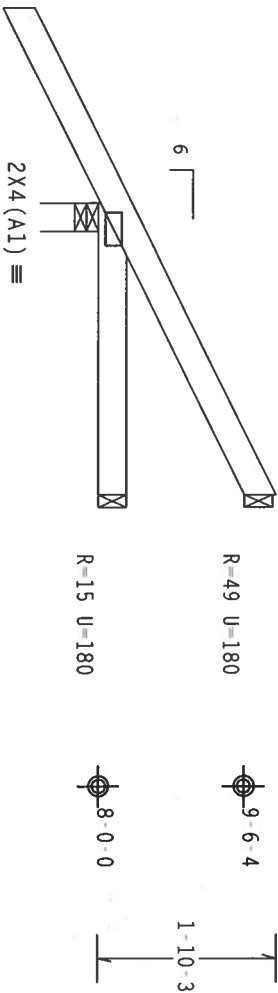
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

Deflection meets L/360 live and L/240 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, lw=1.00 Gcp1(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



2-0-0

2-5-8  
3-0-0 over 3 Supports  
R=317 U-180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

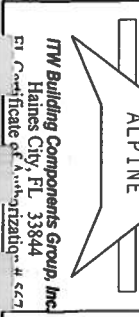
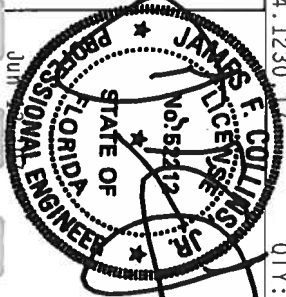
7.24.1230.1

QTY: 8 FL/-/4/-/R/-

Scale =.5"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI, TRUSS COUNCIL OF AMERICA, 6300 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. TIV 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. BY AFAPA AND TPI. TIV BCG DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. TIV BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A, 2, 100B, 100C, 100D, 100E, 100F, 100G, 100H, 100I, 100J, 100K, 100L, 100M, 100N, 100O, 100P, 100Q, 100R, 100S, 100T, 100U, 100V, 100W, 100X, 100Y, 100Z, 100AA, 100AB, 100AC, 100AD, 100AE, 100AF, 100AG, 100AH, 100AI, 100AJ, 100AK, 100AL, 100AM, 100AN, 100AO, 100AP, 100AQ, 100AR, 100AS, 100AT, 100AU, 100AV, 100AW, 100AX, 100AY, 100AZ, 100BA, 100BB, 100BC, 100BD, 100BE, 100BF, 100BG, 100BH, 100BI, 100BJ, 100BK, 100BL, 100BM, 100BN, 100BO, 100BP, 100BQ, 100BR, 100BS, 100BT, 100BU, 100BV, 100BW, 100BX, 100BY, 100BZ, 100CA, 100CB, 100CC, 100CD, 100CE, 100CF, 100CG, 100CH, 100CI, 100CJ, 100CK, 100CL, 100CM, 100CN, 100CO, 100CP, 100CQ, 100CR, 100CS, 100CT, 100CU, 100CV, 100CW, 100CX, 100CY, 100CZ, 100DA, 100DB, 100DC, 100DD, 100DE, 100DF, 100DG, 100DH, 100DI, 100DJ, 100DK, 100DL, 100DM, 100DN, 100DO, 100DP, 100DQ, 100DR, 100DS, 100DT, 100DU, 100DV, 100DW, 100DX, 100DY, 100DZ, 100EA, 100EB, 100EC, 100ED, 100EE, 100EF, 100EG, 100EH, 100EI, 100EJ, 100EK, 100EL, 100EM, 100EN, 100EO, 100EP, 100EQ, 100ER, 100ES, 100ET, 100EU, 100EV, 100EW, 100EX, 100EY, 100EZ, 100FA, 100FB, 100FC, 100FD, 100FE, 100FF, 100FG, 100FH, 100FI, 100FJ, 100FK, 100FL, 100FM, 100FN, 100FO, 100FP, 100FQ, 100FR, 100FS, 100FT, 100FU, 100FV, 100FW, 100FX, 100FY, 100FZ, 100GA, 100GB, 100GC, 100GD, 100GE, 100GF, 100GG, 100GH, 100GI, 100GJ, 100GK, 100GL, 100GM, 100GN, 100GO, 100GP, 100GQ, 100GR, 100GS, 100GT, 100GU, 100GV, 100GW, 100GX, 100GY, 100GZ, 100HA, 100HB, 100HC, 100HD, 100HE, 100HF, 100HG, 100HH, 100HI, 100HJ, 100HK, 100HL, 100HM, 100HN, 100HO, 100HP, 100HQ, 100HR, 100HS, 100HT, 100HU, 100HV, 100HW, 100HX, 100HY, 100HZ, 100IA, 100IB, 100IC, 100ID, 100IE, 100IF, 100IG, 100IH, 100II, 100IJ, 100IK, 100IL, 100IM, 100IN, 100IO, 100IP, 100IQ, 100IR, 100IS, 100IT, 100IU, 100IV, 100IW, 100IX, 100IY, 100IZ, 100JA, 100JB, 100JC, 100JD, 100JE, 100JF, 100JG, 100JH, 100JI, 100JJ, 100JK, 100JL, 100JM, 100JN, 100JO, 100JP, 100JQ, 100JR, 100JS, 100JT, 100JU, 100JV, 100JW, 100JX, 100JY, 100JZ, 100KA, 100KB, 100KC, 100KD, 100KE, 100KF, 100KG, 100KH, 100KI, 100KJ, 100KK, 100KL, 100KM, 100KN, 100KO, 100KP, 100KQ, 100KR, 100KS, 100KT, 100KU, 100KV, 100KW, 100KX, 100KY, 100KZ, 100LA, 100LB, 100LC, 100LD, 100LE, 100LF, 100LG, 100LH, 100LI, 100LJ, 100LK, 100LL, 100LM, 100LN, 100LO, 100LP, 100LQ, 100LR, 100LS, 100LT, 100LU, 100LV, 100LW, 100LX, 100LY, 100LZ, 100MA, 100MB, 100MC, 100MD, 100ME, 100MF, 100MG, 100MH, 100MI, 100MJ, 100MK, 100ML, 100MN, 100MO, 100MP, 100MQ, 100MR, 100MS, 100MT, 100MU, 100MV, 100MW, 100MX, 100MY, 100MZ, 100NA, 100NB, 100NC, 100ND, 100NE, 100NF, 100NG, 100NH, 100NI, 100NJ, 100NK, 100NL, 100NM, 100NO, 100NP, 100NQ, 100NR, 100NS, 100NT, 100NU, 100NV, 100NW, 100NX, 100NY, 100NZ, 100OA, 100OB, 100OC, 100OD, 100OE, 100OF, 100OG, 100OH, 100OI, 100OJ, 100OK, 100OL, 100OM, 100ON, 100OO, 100OP, 100OQ, 100OR, 100OS, 100OT, 100OU, 100OV, 100OW, 100OX, 100OY, 100OZ, 100PA, 100PB, 100PC, 100PD, 100PE, 100PF, 100PG, 100PH, 100PI, 100PJ, 100PK, 100PL, 100PM, 100PN, 100PO, 100PP, 100PQ, 100PR, 100PS, 100PT, 100PU, 100PV, 100PW, 100PX, 100PY, 100PZ, 100QA, 100QB, 100QC, 100QD, 100QE, 100QF, 100QG, 100QH, 100QI, 100QJ, 100QK, 100QL, 100QM, 100QN, 100QO, 100QP, 100QQ, 100QR, 100QS, 100QT, 100QU, 100QV, 100QW, 100QX, 100QY, 100QZ, 100RA, 100RB, 100RC, 100RD, 100RE, 100RF, 100RG, 100RH, 100RI, 100RJ, 100RK, 100RL, 100RM, 100RN, 100RO, 100RP, 100RQ, 100RR, 100RS, 100RT, 100RU, 100RV, 100RW, 100RX, 100RY, 100RZ, 100SA, 100SB, 100SC, 100SD, 100SE, 100SF, 100SG, 100SH, 100SI, 100SJ, 100SK, 100SL, 100SM, 100SN, 100SO, 100SP, 100SQ, 100SR, 100SS, 100ST, 100SU, 100SV, 100SW, 100SX, 100SY, 100SZ, 100TA, 100TB, 100TC, 100TD, 100TE, 100TF, 100TG, 100TH, 100TI, 100TJ, 100TK, 100TL, 100TM, 100TN, 100TO, 100TP, 100TQ, 100TR, 100TS, 100TT, 100TU, 100TV, 100TW, 100TX, 100TY, 100TZ, 100UA, 100UB, 100UC, 100UD, 100UE, 100UF, 100UG, 100UH, 100UI, 100UJ, 100UK, 100UL, 100UM, 100UN, 100UO, 100UP, 100UQ, 100UR, 100US, 100UT, 100UU, 100UV, 100UW, 100UX, 100UY, 100UZ, 100VA, 100VB, 100VC, 100VD, 100VE, 100VF, 100VG, 100VH, 100VI, 100VJ, 100VK, 100VL, 100VM, 100VN, 100VO, 100VP, 100VQ, 100VR, 100VS, 100VT, 100VU, 100VV, 100VW, 100VX, 100VY, 100VZ, 100WA, 100WB, 100WC, 100WD, 100WE, 100WF, 100WG, 100WH, 100WI, 100WJ, 100WK, 100WL, 100WM, 100WN, 100WO, 100WP, 100WQ, 100WR, 100WS, 100WT, 100WU, 100WV, 100WW, 100WX, 100WY, 100WZ, 100XA, 100XB, 100XC, 100XD, 100XE, 100XF, 100XG, 100XH, 100XI, 100XJ, 100XK, 100XL, 100XM, 100XN, 100XO, 100XP, 100XQ, 100XR, 100XS, 100XT, 100XU, 100XV, 100XW, 100XX, 100XY, 100XZ, 100YA, 100YB, 100YC, 100YD, 100YE, 100YF, 100YG, 100YH, 100YI, 100YJ, 100YK, 100YL, 100YM, 100YN, 100YO, 100YP, 100YQ, 100YR, 100YS, 100YT, 100YU, 100YV, 100YW, 100YX, 100YY, 100YZ, 100ZA, 100ZB, 100ZC, 100ZD, 100ZE, 100ZF, 100ZG, 100ZH, 100ZI, 100ZJ, 100ZK, 100ZL, 100ZM, 100ZN, 100ZO, 100ZP, 100ZQ, 100ZR, 100ZS, 100ZT, 100ZU, 100ZV, 100ZW, 100ZX, 100ZY, 100ZZ



TIV Building Components Group, Inc.  
Haines City, FL 33844  
TIV Certificate of Authorization # 547

TC LL	20.0 PSF	REF R8228- 94375
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUSR8228 07164027
BC LL	0.0 PSF	HC-ENG JB/WHK *
TOT.LD.	40.0 PSF	SEON- 9868
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T868228201

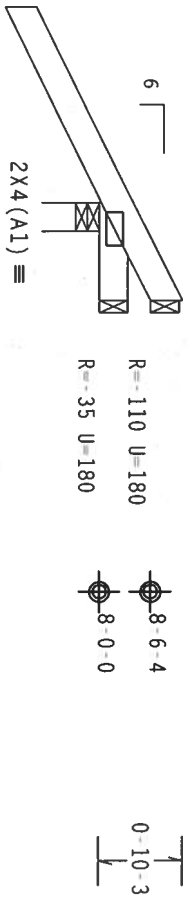
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

Deflection meets L/360 live and L/240 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, lw=1.00 Gcpl(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



2'-0"-0" over 3 Supports  
R=361 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/R=1.00(1.25)/10(0)

7.24.1230

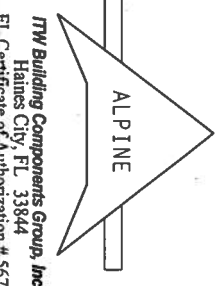
QTY:8 FL/-/4/-/R/-

Scale = .5"/ft.

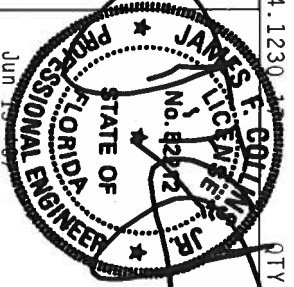
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 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\*\* TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. JTW 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 ACPA) AND TPI. JTW BCG CONNECTION PLATES ARE MADE OF 20/10/18GA (4.14/25GA) ASTM A653 GRADE 40/60 (4. R/H/55) GALV. STEEL. APPLY 7.5 MIN. MINIMUM COATING TO ALL EXPOSED SURFACES. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH TPI DETAILING. ANY INSPECTION OF PLATES FOLLOWED BY 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.



ALPINE Building Components Group, Inc.  
Haines City, FL 33844  
ET Certificate of Authorization # 547



TC LL	20.0 PSF	REF R8228- 94376
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUSR8228 07164005
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 9871
DUR.FAC.	1.25	
SPACING	24.0"	

JREF- 117688228201



**מחזורי כלימה וסכנת היעדרות (התבוננות בכתבה) ותוצאות המחקר העתידי**

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 GCp(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.



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

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$ 

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

Scale = .5"/Ft.

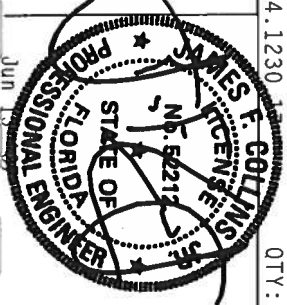
\*"WARNING" FRAMES (BUILDING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC5) (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TP1 (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD INSTITUTE FOR CONSTRUCTION OF AMERICA, 6500 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 RIDGE CEILING.

ALPINE

**TTW Building Components Group, Inc.**

Haines City, FL 33844

\* \* \* IMPORTANT - FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. IHS BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. IF ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN COMFORS WITH APPLICABLE PROVISIONS OF MOS (NATIONAL DESIGN SPEC.) OR A/E/N AND T-1. THE BCG/ALUMINUM CONNECTION PLATES ARE MADE OF 2018/T6604 (H/S/HVS) ASTM A653 GRADE 40/90 (F 47K/F 51) GALV. STEEL. APPLY PER DRAWINGS 160A.2 TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A.2 DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER MSJ/TYP1 1 SEC. 2.



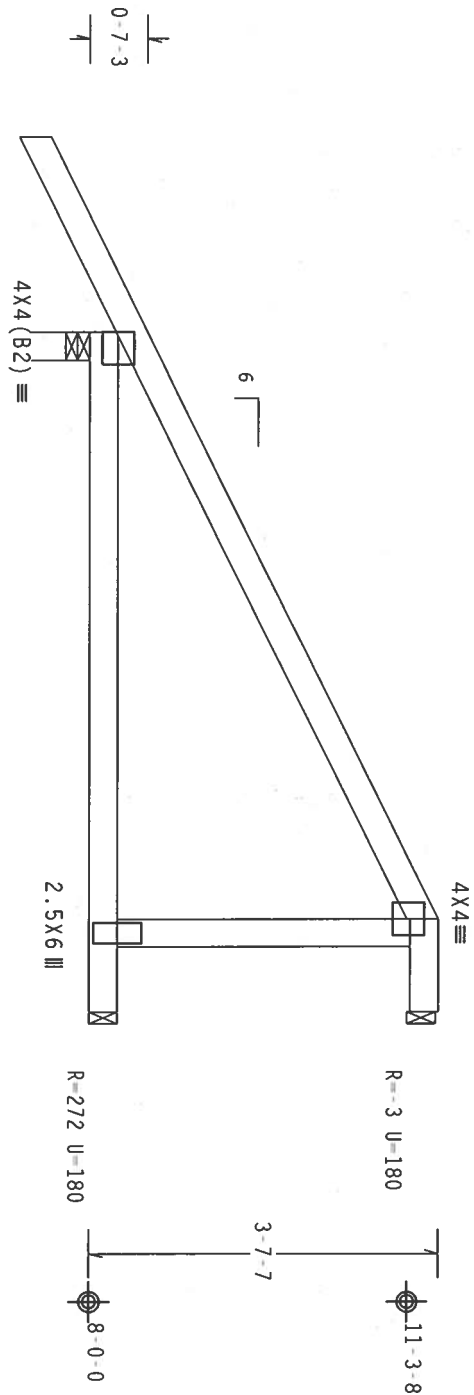
ju

TC LL	20.0 PSF	REF	R8228- 94377
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164022
BC LL	0.0 PSF	HC-ENG	JB/MHK
TOT.LD.	40.0 PSF	SEQN-	9867
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228Z01

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

Wind reactions based on MWFRS pressures.  
Deflection meets L/360 live and L/240 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. 1w=1.00 GCPI(+/-)=0.18  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



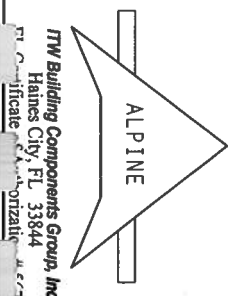
2-0-0  
6-0-7  
0-11-9  
7-0-0 Over 3 Supports  
R=441 U=180 W=3.5"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) QTY: 1  
7.24.1230.17 FL/-/4/-/-/R/-  
Scale = .5" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE 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 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.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/1604 (W.H.S.S.) ASTM A553 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 1604-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANKER AS OF TPI 11-2002, SEC.3. A SEAL ON THIS DRAWING INDICATES 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 - 94378
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164021
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT. LD.	40.0 PSF	SEQN-	9889
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	1T868228201

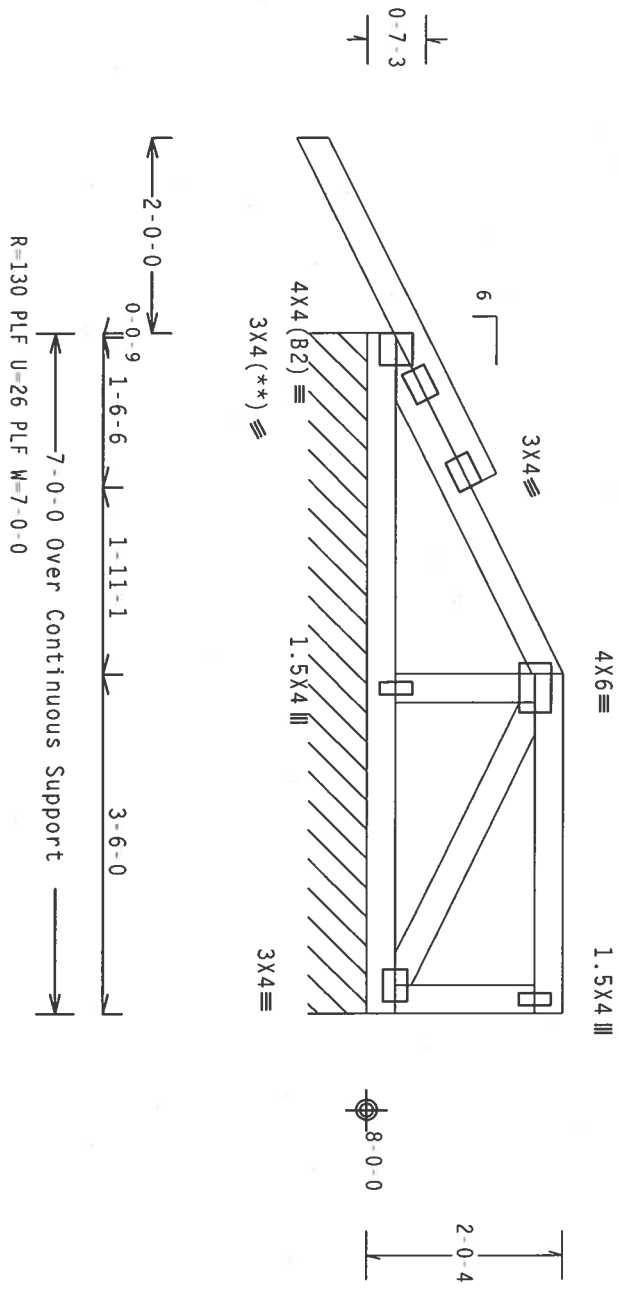
SPECIAL LOADS

TC - From	DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	84 PLF at 1.58
TC - From	84 PLF at -2.00 to	84 PLF at 1.58
TC - From	84 PLF at 1.58 to	84 PLF at 3.50
TC - From	84 PLF at 3.50 to	84 PLF at 7.00
BC - From	4 PLF at -2.00 to	4 PLF at 0.00
BC - From	20 PLF at 0.00 to	20 PLF at 7.00

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

See DWGS A11015EC0207 & GBLLETIN0207 for more requirements.

(\*\*) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.  
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.  $I_w=1.00 G C p i (+/-)=0.18$   
Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.  
Dead loads are stated on projected horizontal area basis.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

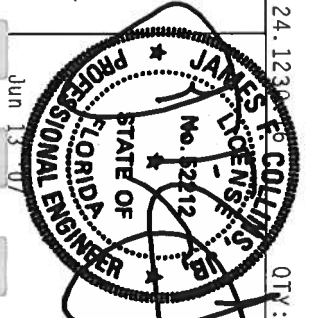
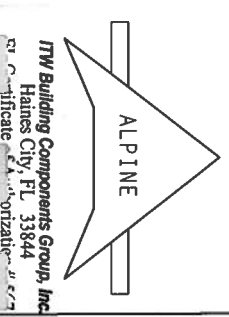
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

OTY:1 FL/-/4/-/R/-

Scale =.5"/Ft.

\*\*HARNING\*\* 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 NCA (NATIONAL COUNCIL OF AMERICA), 6500 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 AWS (NATIONAL DESIGN SPEC. FOR A572/A575) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 2018/1604 (W/SS/SX) ASTM A563 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO THE FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED 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. THIS DESIGN INDICATES 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- 94379
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCURR8228 07164013
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 151763
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 17868228201

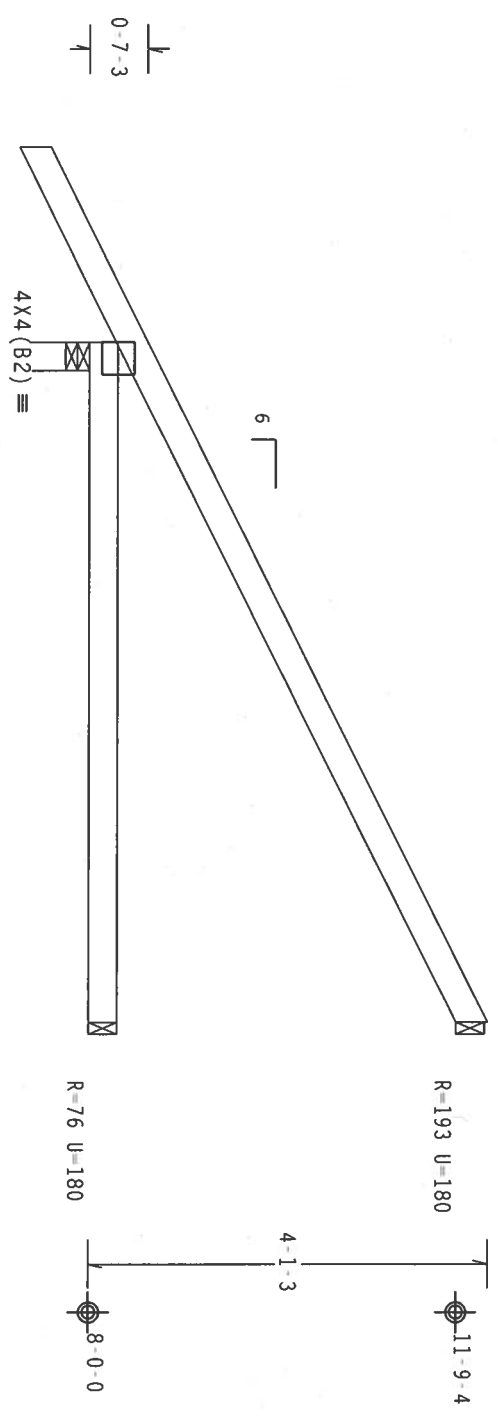
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TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164011
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEQN-	9888
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228201

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

Wind reactions based on MMFRS pressures.

Deflection meets L/360 live and L/240 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.  $I_w=1.00$   $GCP(+/-)=0.18$   
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

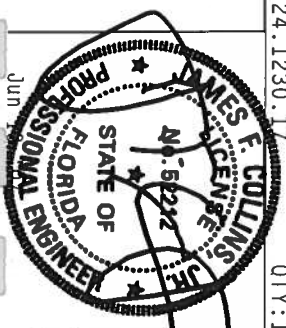
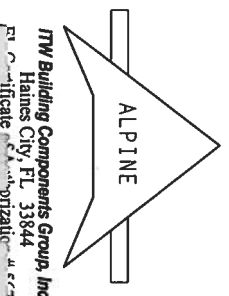
QTY: 11 FL/-/4/-/R/-

Scale = .5"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE 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 2018/1604 (W.H/S/S) ASTM A563 GRADE 40/60 (W, K/H, S/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2. CONNECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



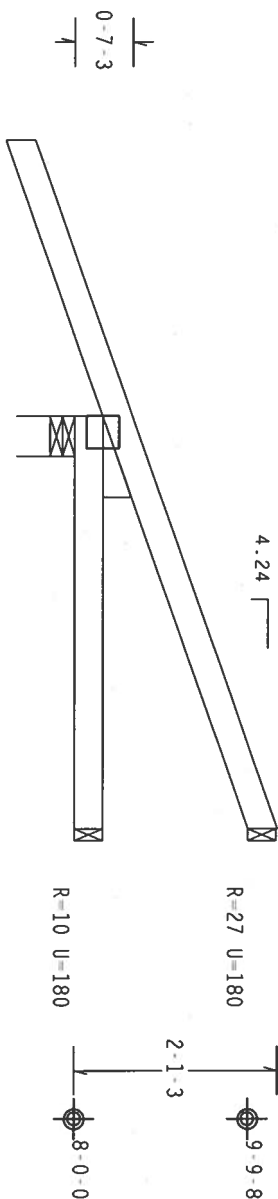
TC LL	20.0 PSF	REF R8228- 94381
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUR8228 07164012
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT. LD.	40.0 PSF	SEQN- 9869
DUR. FAC.	1.25	
SPACING	24.0"	
JREF -	1T868228201	

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind Tc DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  Gcpl(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.

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



2-9-15

← 4-2-15 Over 3 Supports →  
R=308 U=180 W=4.95"

PLT TYP. Wave

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

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$ 

QTY:2 FL/-/4/-/-/R/-

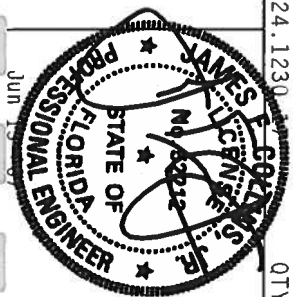
Scale = .5"/Ft.

\*"WARNING" FRAMES (BUILDING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICKI (WOOD TRUSSING 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 PROPERLY ATTACHED RIDGE CEILING.

ALPINE

**ITW Building Components Group, Inc.**

Haines City, FL 33844  
 Certificate of Authorization



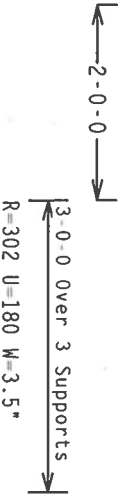
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TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 0716+009
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9950
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228201



110 mph wind, 15.00 ft mean hgt., ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{CF}(+/-)=0.18$


anywhere in roof, LAI 11, EXP B, W  
DI=5.0 psf IW=1.00 GCPI(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



Scale = .5"/Ft.

ALL HAVE



ALPINE

A circular professional engineer seal for the State of Florida. The outer ring contains the text "STATE OF FLORIDA" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the words "LICENSED" and "ENGINEER" are positioned on the right and left respectively. The center of the seal features the license number "9452212" and the signature "J.R. COLLINS". Two five-pointed stars are located on the left and right sides of the center. The seal is stamped over a document that includes a table with columns for "DATE", "DESCRIPTION OF WORK", and "FEE". The table contains several rows of data, including dates like "12/1/88" and "12/1/89", and descriptions such as "REPAIR OF ROADSIDE" and "REPAIR OF ROADSIDE".

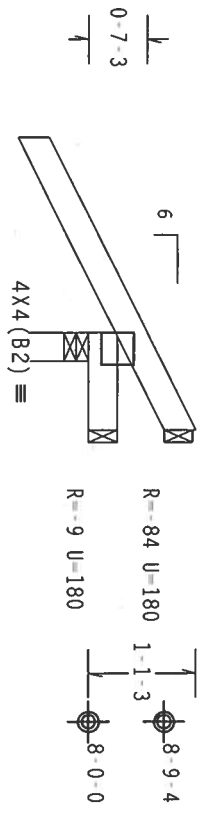
TC LL	20.0 PSF	REF	R8228- 94383
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUS8228 07164006
BC LL	0.0 PSF	HC-ENG	JB/MHK
TOT. LD.	40.0 PSF	SEQN	9876
DUR. FAC.	1.25		
SPACING	24.0"	JREF	- 1T868228201

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

Wind reactions based on MMFRS pressures.

Deflection meets L/360 live and L/240 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  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



2-0-0  
1-0-0 Over 3 Supports  
R=308 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.1230.17

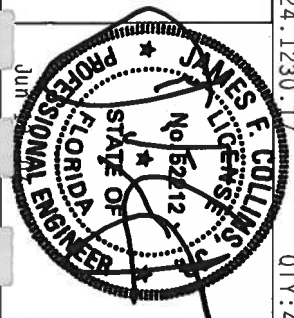
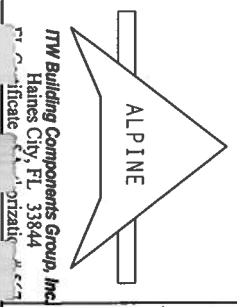
QTY:4 FL/-/4/-/4/-/4/-

Scale =.5"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE BUILDING RESEARCH CORPORATION, 6300 NORTH LEE STREET, SUITE 212, ALEXANDRIA, VA, 22304, AND WICK LUND 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.

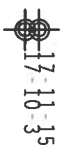
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY NDS) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 2018/1664 (4 W/SS) ASTM A563 GRADE 40/60 (4, 4/16, 5/16) 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 AMER AS OF TPI 11.2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE DESIGNER'S PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN AND NOT THE ENTIRE BUILDING. THE SEALING 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- 94384
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUR8228 07164007
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT. LD.	40.0 PSF	SEQN- 9870
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1T868228201

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



Scale = .5"/Ft.

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 94385
TC DL	10.0 PSF	DATE	06/13/07
BC DL	10.0 PSF	DRW	HCUSR8228 07164041
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	14244
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T868228Z01

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

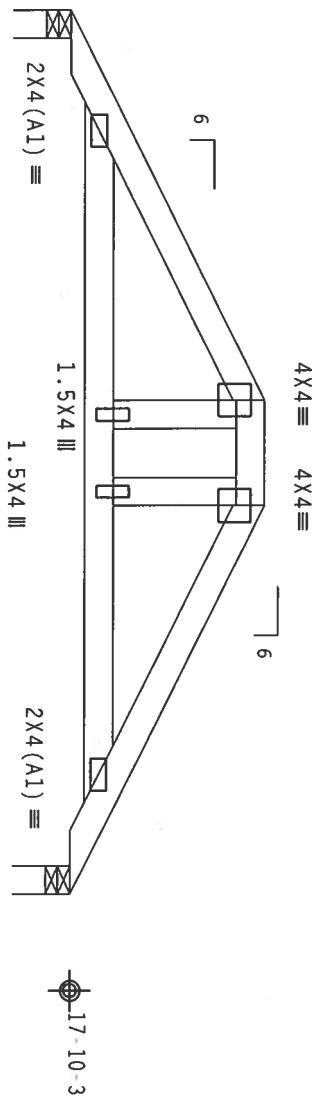
Wind reactions based on MMFRS pressures.

Deflection meets L/360 live and L/240 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.

110 mph wind, 18.85 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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



3-0-11 1-1-0 3-0-11  
R-350 U=180 W=3.5\*  
9-1-0 Over 2 Supports  
R-350 U=180 W=3.5\*

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

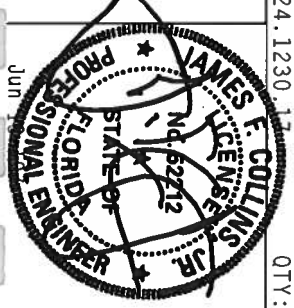
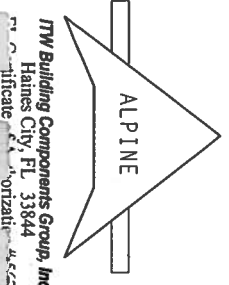
QTY: 2 FL/-/4/-/-/R/-

Scale = .5" / 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, 216 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.

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TC LL	20.0 PSF	REF R8228- 94386
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUR8228 07164042
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT. LD.	40.0 PSF	SEQN- 9903
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1T868228201

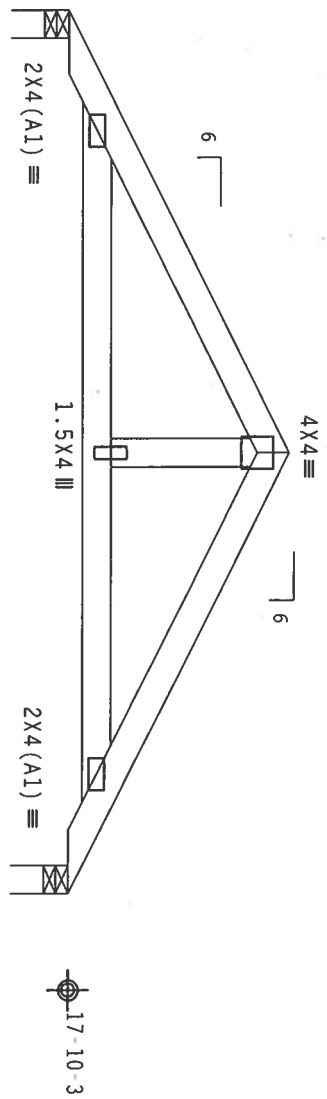
( 7-180--Stanley Crawford Construc Hillendale Farms -- , \*\* - AP )  
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

Deflection meets L/360 live and L/240 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.

110 mph wind, 18.98 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  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



3-7-3 3-7-3  
9-1-0 Over 2 Supports  
R=350 U=180 W=3.5"  
R=350 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0)

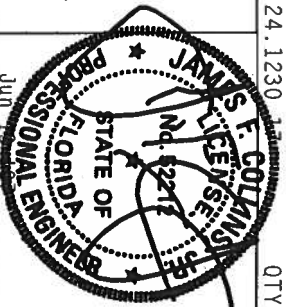
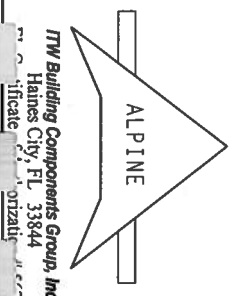
QTY:1 FL/-/4/-/-/R/-

Scale =.5"/ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 6100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6100 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-1, OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFPA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/1604 (4 W/SS/P) ASTM A563 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 1604.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK AS OF TPI 11 2002 SEC.3. A SEAL ON THIS DESIGN SHOWS 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- 94387
TC DL	10.0 PSF	DATE 06/13/07
BC DL	10.0 PSF	DRW HCUR8228 07164043
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT. LD.	40.0 PSF	SEON- 9904
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1T868228Z01

# CLB WEB BRACE SUBSTITUTION

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.

## NOTES:

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

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

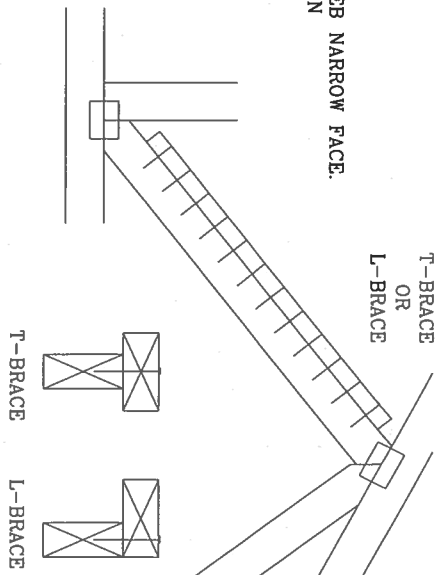
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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.

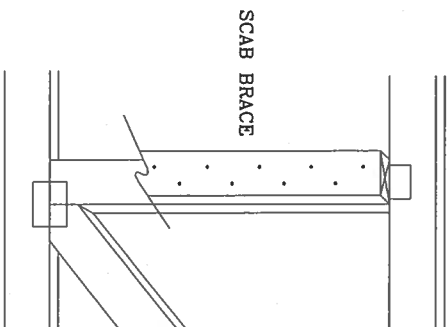
T-BRACING  
OR  
L-BRACING:

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



## SCAB BRACING:

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



THIS DRAWING REPLACES DRAWING 579.640



IN BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22314 AND VICA C/DOO TRUSS CODE 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 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 IN TYPICAL DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEA) AND TPI. TYPICAL DESIGN CONDITIONS ARE: MADE OF 20/18/16GA (V/H/SS/VO) ASTM A653 GRADE 40/60 (V/K/H/SS) TYPICAL DESIGN CONDITIONS ARE: MADE OF 20/18/16GA (V/H/SS/VO) ASTM A653 GRADE 40/60 (V/K/H/SS) DESIGN POSITION PER DRAWINGS 1604-7, 1604-8, 1604-9, 1604-10, 1604-11, 1604-12, 1604-13, 1604-14, 1604-15, 1604-16, 1604-17, 1604-18, 1604-19, 1604-20, 1604-21, 1604-22, 1604-23, 1604-24, 1604-25, 1604-26, 1604-27, 1604-28, 1604-29, 1604-30, 1604-31, 1604-32, 1604-33, 1604-34, 1604-35, 1604-36, 1604-37, 1604-38, 1604-39, 1604-40, 1604-41, 1604-42, 1604-43, 1604-44, 1604-45, 1604-46, 1604-47, 1604-48, 1604-49, 1604-50, 1604-51, 1604-52, 1604-53, 1604-54, 1604-55, 1604-56, 1604-57, 1604-58, 1604-59, 1604-60, 1604-61, 1604-62, 1604-63, 1604-64, 1604-65, 1604-66, 1604-67, 1604-68, 1604-69, 1604-70, 1604-71, 1604-72, 1604-73, 1604-74, 1604-75, 1604-76, 1604-77, 1604-78, 1604-79, 1604-80, 1604-81, 1604-82, 1604-83, 1604-84, 1604-85, 1604-86, 1604-87, 1604-88, 1604-89, 1604-90, 1604-91, 1604-92, 1604-93, 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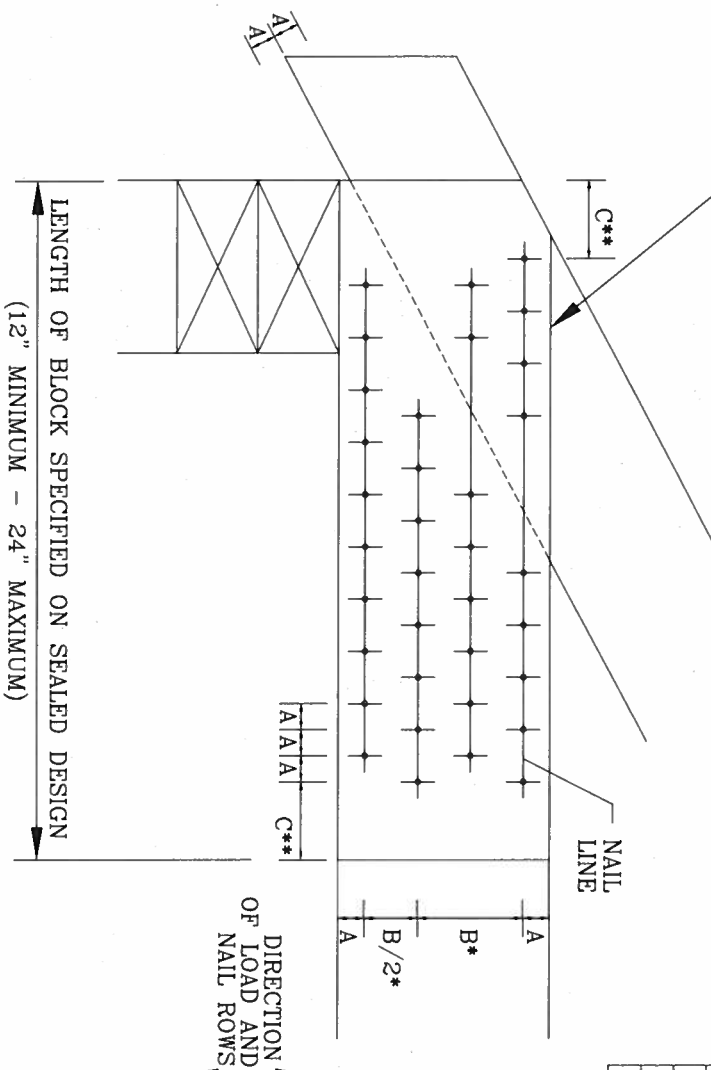
# BEARING BLOCK NAIL SPACING DETAIL

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

- A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
- B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
- C - END DISTANCE (15 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:  
 • SPACING MAY BE REDUCED BY 50%  
 • SPACING MAY BE REDUCED BY 33%

BEARING BLOCK TO BE SAME SIZE AND SPECIES AS BOTTOM CHORD. BLOCKS MAY BE ANY GRADE WITHIN THE SPECIES, PROVIDED THE COMPRESSION PERPENDICULAR TO GRAIN VALUE ( $F_c$ -perp) IS AT LEAST THAT OF THE CHORD.



LENGTH OF BLOCK SPECIFIED ON SEALED DESIGN  
 (12" MINIMUM - 24" MAXIMUM)

## MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

NAIL TYPE	CHORD SIZE				
	2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"X 2.5", MIN)	3	6	9	12	15
10d BOX (0.128"X 3", MIN)	3	5	7	10	12
12d BOX (0.128"X 3.25", MIN)	3	5	7	10	12
16d BOX (0.135"X 3.5", MIN)	3	5	7	10	12
20d BOX (0.148"X 4", MIN)	2	4	5	6	8
8d COMMON (0.131"X 2.5", MIN)	3	5	7	10	12
10d COMMON (0.148"X 3", MIN)	2	4	6	8	10
12d COMMON (0.148"X 3.25", MIN)	2	4	6	8	10
16d COMMON (0.162"X 3.5", MIN)	2	4	6	8	10
GUN (0.120"X 2.5", MIN)	3	6	8	11	14
GUN (0.131"X 2.5", MIN)	3	5	7	10	12
GUN (0.120"X 3", MIN)	3	6	8	11	14
GUN (0.131"X 3", MIN)	3	5	7	10	12

## MINIMUM NAIL SPACING DISTANCES

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

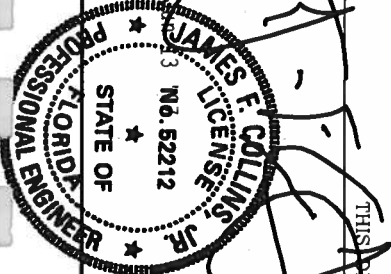
THIS DRAWING REPLACES DRAWING B139 AND CNBRG1K0699



ITW BUILDING COMPONENTS GROUP, INC.  
 POMPANO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY THE TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, VA 22341 AND VITA (WOOD TRUSS COUNCIL) FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

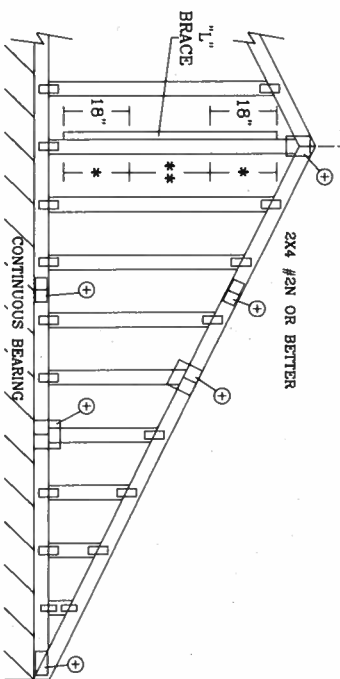
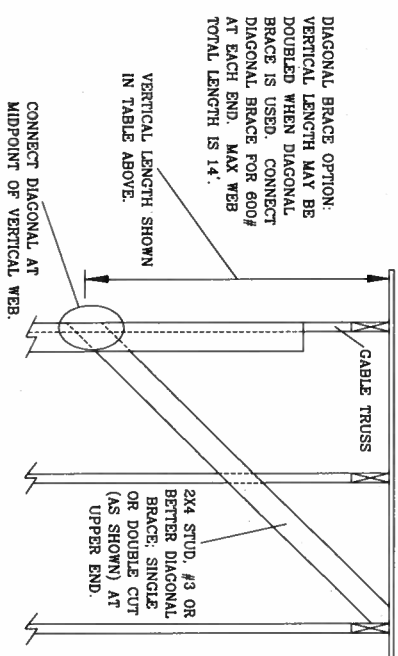
\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE OR BRACING OF TRUSSES IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (V/A/H/S/S) ASH A653 GRADE 40/60 (V/A/H/S/S) UNLESS OTHERWISE INDICATED. UNLESS OTHERWISE INDICATED, THIS PER DESIGN POSITION PER DRAWING. 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.



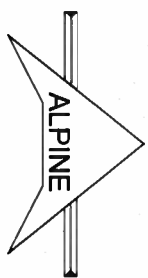
REF BEARING BLOCK  
 DATE 2/23/07  
 DRWG CNBRG1K0207  
 -ENG SUP/KAR

# MAX GABLE VERTICAL LENGTH

MAX GABLE VERTICAL LENGTH													
CABLE VERTICAL SPACING	2X4 SPECIES	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
24" O.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
			#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	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"
		#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
	DFL	#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"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
		16" O.C.	SPF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"
#3	4' 4"				7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	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"
STANDARD	4' 4"			6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"
#1	4' 10"			7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
DFL	#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"
	STUD		4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	STANDARD		4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
	12" O.C.		SPF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"
#3		4' 9"			8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	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"
STANDARD		4' 9"		7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
#1		5' 4"		8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
DFL		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	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"
		STUD	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"



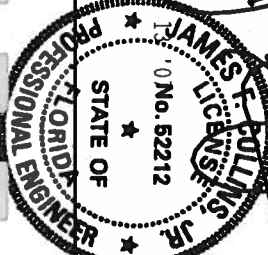
REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.



ITW BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA

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\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW 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. FOR AREAS AND TPI. ITW, BCS CONNECTOR PLATES ARE MADE OF 2018/16GA (V4/SS/VO ASTM A653 GRADE 40/60 (V4/SS)) DESIGN. BEARING PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE INDICATED IN THIS PER DESIGN, BEARING PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE INDICATED IN THIS PER ANNEK 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.



MAX. TOT. LD. 60 PSF  
MAX. SPACING 24.0"

REF. ASCE7-02-GABI1015  
DATE 2/23/07  
DRWG A11015EEO207  
-ENG

CABLE 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.

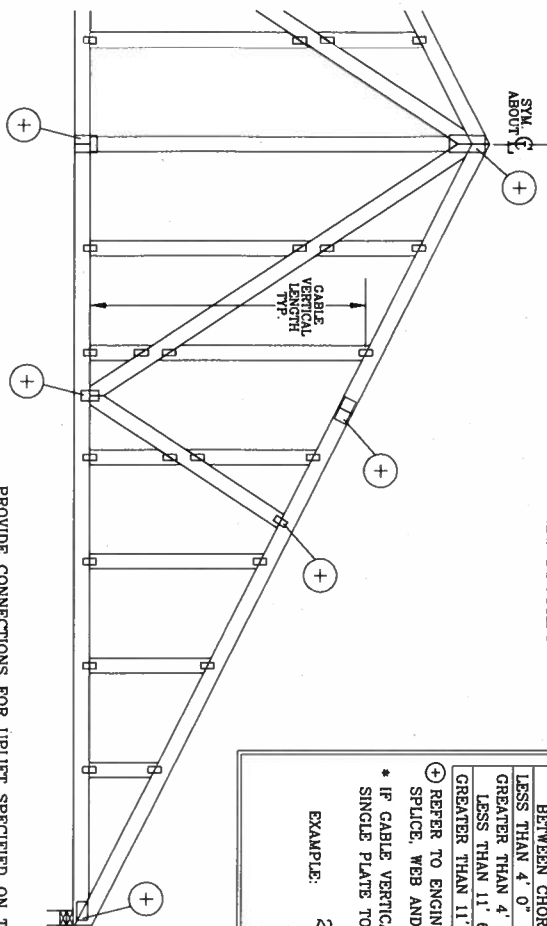
ATTACH EACH "L" BRACE WITH 10d NAILS.  
\* FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C. IN 18" END ZONES AND 4' O.C. BETWEEN ZONES.  
\*\* FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C. IN 18" END ZONES AND 6' O.C. BETWEEN ZONES.  
"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

LIVE LOAD DEFLECTION CRITERIA IS L/240.  
PROVIDE UPLIFT CONNECTIONS FOR 80 PSF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).  
GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLAYWOOD OVERHANG.

## CABLE TRUSS DETAIL NOTES:

BRACING GROUP SPECIES AND GRADES:			
GROUP A:		GROUP B:	
SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2 STANDARD	#2 STUD	#1 STANDARD	#2 STUD
#3 STUD		#3 STANDARD	
DOUGLAS FIR-LARCH		SOUTHERN PINE	
#3 STUD		#3 STUD	
STANDARD		STANDARD	
SOUTHERN PINE		DOUGLAS FIR-LARCH	
#1	#1	#1	#1
#2	#2	#2	#2

# CABLE DETAIL FOR LET-IN VERTICALS

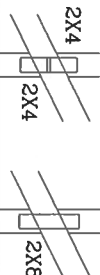


CABLE VERTICAL PLATE SIZES

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

\* IF CABLE 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 3.3" 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 CABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

- ASCE 7-93 GABLE DETAIL DRAWINGS  
A11015EN0207, A10015EN0207, A08015EN0207, A07015EN0207,  
A10303EN0207, A100303EN0207, A080303EN0207, A070303EN0207  
ASCE 7-98 GABLE DETAIL DRAWINGS  
A13015EC0207, A12015EC0207, A11015EC0207, A08515EC0207,  
A130303EC0207, A120303EC0207, A110303EC0207, A085303EC0207  
ASCE 7-02 GABLE DETAIL DRAWINGS  
A13015EB0207, A12015EB0207, A11015EB0207, A08515EB0207,  
A130303EB0207, A120303EB0207, A110303EB0207, A085303EB0207  
ASCE 7-05 GABLE DETAIL DRAWINGS  
A13015ES0207, A12015ES0207, A11015ES0207, A08515ES0207,  
A130303ES0207, A120303ES0207, A110303ES0207, A085303ES0207

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED CABLE VERTICAL LENGTH.

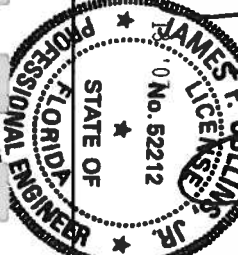
THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC28294035

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY) INFORMATION, PUBLISHED BY TPI TRUSS COMPANY OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TYPICAL 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 AIA/ASA AND TPI. ITW, BCG CONNECTOR PLATES ARE MADE OF 20/18/16/6 (V/H/S/S/D) ASTM A653 GRADE 40/60 (V/K/H/S/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16A-2. ANY INSPECTION OF PLATES FOLLOWED BY ID SHALL BE PER FORMED BY AN INSPECTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



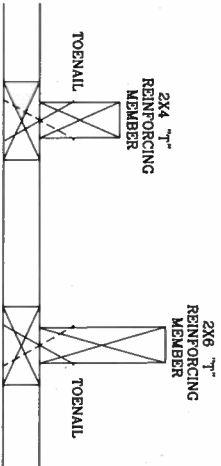
MAX TOT. LD. 60 PSF  
DUR. FAC. ANY  
MAX SPACING 24.0"

## WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. 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:

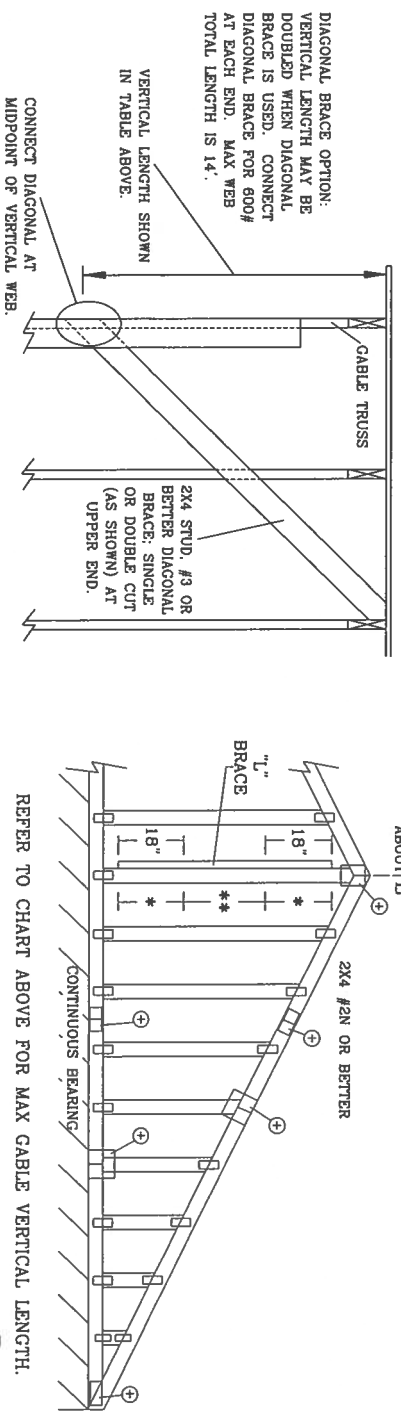
ASCE WIND SPEED = 100 MPH  
MEAN ROOF HEIGHT = 30 FT  
CABLE VERTICAL = 24" O.C. SP #3  
"T" REINFORCING MEMBER SIZE = 2X4  
(1) 2X4 "T" BRACE LENGTH = 6' 7"  
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH  
1.10 x 6' 7" = 7' 3"



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON CABLE 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.

MAX GABLE VERTICAL LENGTH													
GABLE VERTICAL SPACING	2x4 VERTICAL SPECIES	BRACE	NO	(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		
24" O.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
		#3	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"
	HF	STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	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"	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"
	SP	#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
	DFL	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
#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"	
16" O.C.	HF	STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"
		#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"
	SP	#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
	DFL	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#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.	HF	STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"
#1			5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
#2			5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
SP		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
DFL		#1 / #2	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"



BRACING GROUP SPECIES AND GRADES:	
GROUP A:	GROUP B:
SPRICE-PINE-FIR	H&M-FIR
#1 / #2 STANDARD	#2 STUD
#3 STUD	#3 STANDARD
DOUGLAS FIR-LARCH	SOUTHERN PINE
#3 STUD	#3 STUD
STANDARD	STANDARD

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS  $L/240$ .

PROVIDE UPLIFT CONNECTIONS FOR 80 PSF OVER CONTINUOUS BEARING (6 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' 0".

\*\* FOR (2) "L" BRACES: SPACE NAILS AT 3' 0".

IN 16" 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.

POMPAHO BEACH, FLORIDA

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI TRUSSING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22304 AND VTC-A 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 CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (QUALITY DESIGN SPEC. BY AIA/ASA) AND TPI. A BEG CONNECTOR PLATE ARE MADE OF 6061-T6 ALUMINUM. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE. THIS PER DESIGN POSITION PER DRAWINGS 1604-7 AND 1604-8. INSPECTION OF PLATES SHALL BE CONDUCTED ON THIS PER ANNEX A3 OF TPI-1-2006 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.

MAX. TOT. LD. 60 PSF

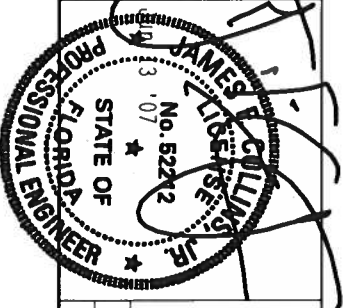
MAX. SPACING 24.0"

REF: ASCE-98-CAB11015

DATE: 2/23/07

DRWG: A11015EC0207

-ENG



## PIGGYBACK DETAIL

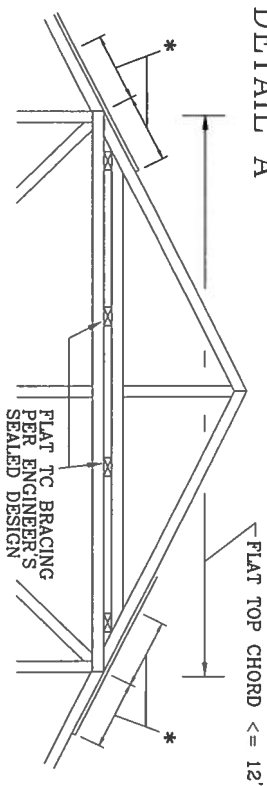
100 MPH WIND 30.00 FT MEAN HGT. ASCE 7-02 OR ASCE 7-05, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK C ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

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.

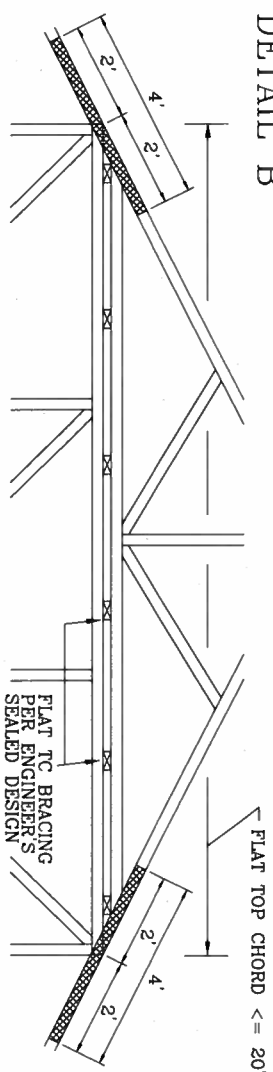
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-98,  
CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT. II,  
EXP. C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.  
S. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE

## DETAIL A



\* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5")  
OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

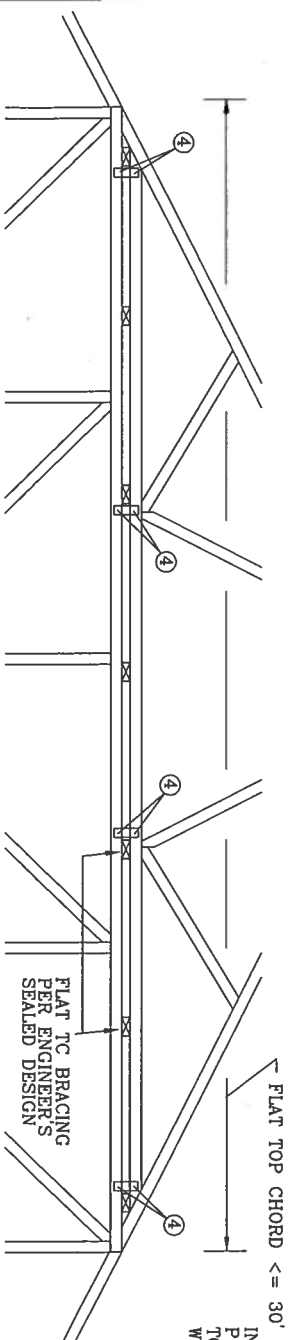
## DETAIL B



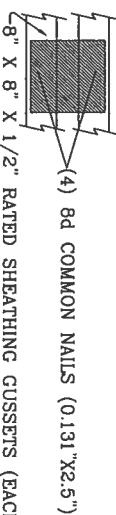
PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND SECURED WITH 2X4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

## DETAIL C

CAP TRUSS TOBNAILED TO TOP CHORD BRACING AND SECURED WITH 3X8 TRULLUX 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 1607L FOR TRULLUX INFORMATION.



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.



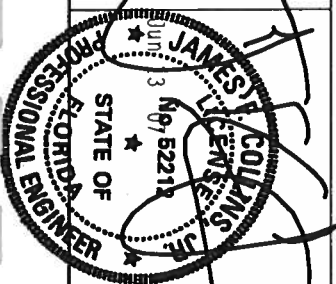
THIS DRAWING REPLACES DRAWINGS 581,670 & 961,860

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"		

# ALPINE

**ITW BUILDING COMPONENTS GROUP, INC.**  
**POMPANO BEACH, FLORIDA**

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

# PIGGYBACK DETAIL

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.

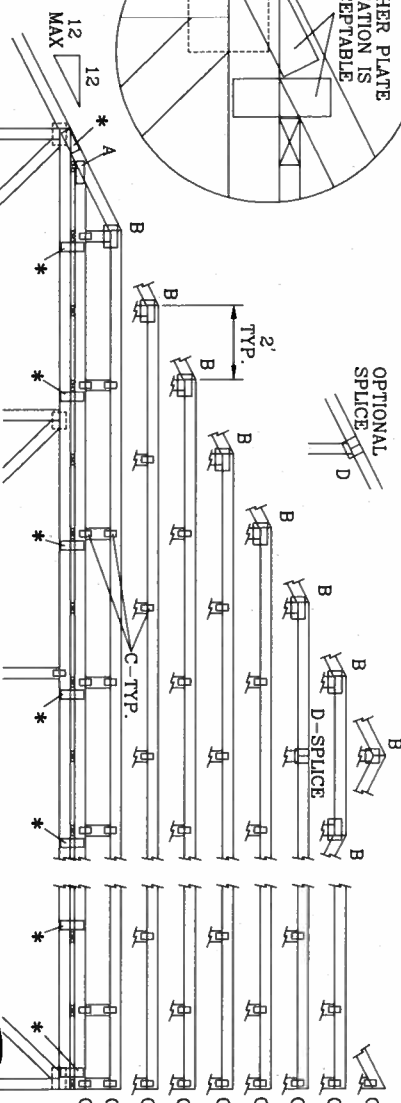
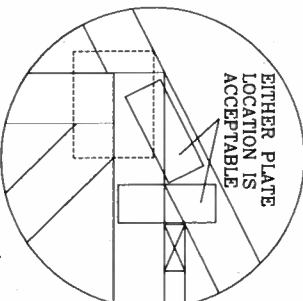
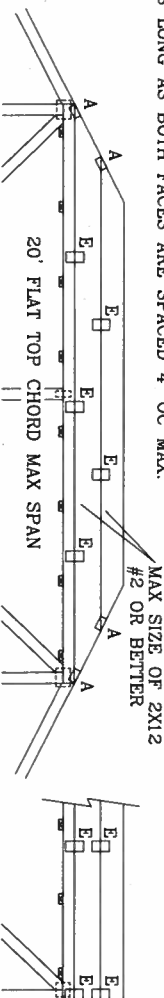
ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

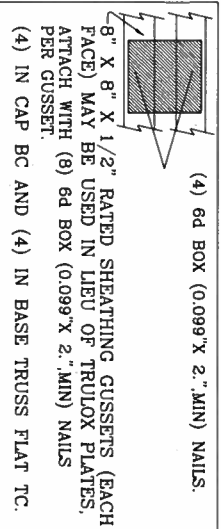
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

- 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.



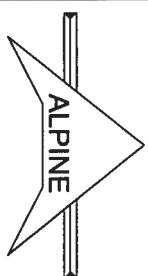
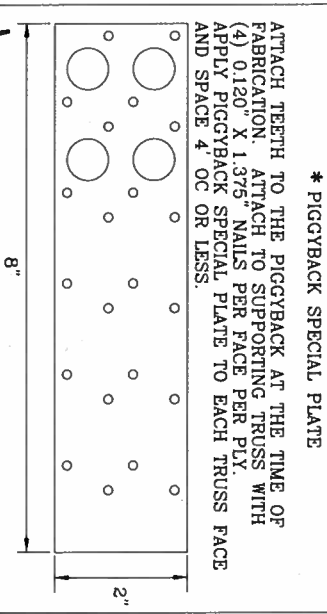
\*ATTACH PIGGYBACK WITH 3X8 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.



(4) 6d BOX (0.099" X 2" MIN) NAILS.  
(4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.  
8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRUSS PLATES, ATTACH WITH (8) 6d BOX (0.099" X 2" MIN) NAILS PER GUSSET.

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 3X8 TRUSS AT 4' OC, ROTATED VERTICALLY			

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.



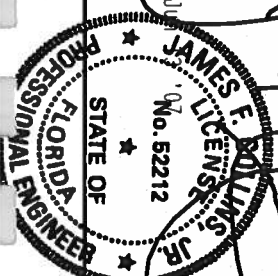
TRUSS BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSSING INSTITUTE, 218 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22314 AND WCA CWOOD TRUSSING INSTITUTE 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 TRUSSING CONFORMANCE WITH THE TRUSSING INSTITUTE, 218 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22314 AND WCA CWOOD TRUSSING INSTITUTE 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.

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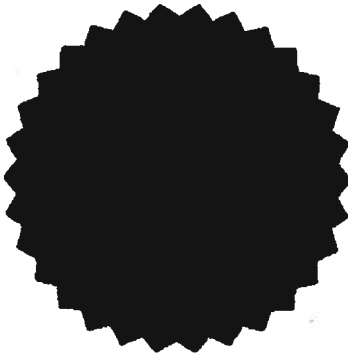
DESIGNER: JAMES E. COLLINS, JR.  
DATE: 2/23/07  
DRAWN: DRWG PIGBACKB0207  
ENG: DLJ/KAR



MAX LOADING	REF	PIGGYBACK
55 PSF AT	DATE	2/23/07
1.33 DUR. FAC.	DRWG	PIGBACKB0207
60 PSF AT	ENG	DLJ/KAR
1.25 DUR. FAC.		
47 PSF AT		
1.15 DUR. FAC.		
SPACING		24.0"



# NAMI NOTICE OF PRODUCT LINE CERTIFICATION



Certification No.: NI006110-Page 1

Date: 07/23/05

Revision Date: \_\_\_\_\_

Certification Program: Structural

Company: Masonite International

Code: M-703-1

The "Notice of Product Line Certification" is valid only when Administrator's Seal is applied to the upper left hand portion of this form and a certification label is applied to the product. This certification seal represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The products and systems listed below are approved for listing in the Directory of Certified Products at [www.NAMICertification.com](http://www.NAMICertification.com). Please review, and advise NAMI immediately if data, as shown requires corrections.

**Company:** **Masonite International Corporation**  
**1955 Powis Road**  
**West Chicago, IL 60185**

**Product Line:** **Masonite Wood-Edge Steel Side-Hinged Door Units**

**Test Report:** **NCTL-210-2929-1/210-2930-1/210-2930-7/210-2930-7/210-3121-1/  
210-3123-1/210-3125-1/CTLA-919W**

## **Section 1: General Description of the Products and Systems under this Certification**

- 1.1 Frame:** The frame jambs consist of finger jointed pine with all corners coped, butted, and sealed using three 2" long wire staples (.04375").
- 1.2 Mullion Construction:** Where used, each mullion constructed of laminated lumber with a pine cap and attached to the header and threshold with three #10 x 3" Philips Flat Head Wood Screws.
- 1.3 Glazing:** Where used, the overall insulated glass was glazed into a rigid plastic lip-lite frame. Consisted of symmetric monolithic insulated glass with 3mm (0.118) tempered glass.
- 1.4 Door Leaf Construction:** Each door leaf was constructed from 0.017"(6'8" height) or 0.020"(8'0" height) thick galvanized steel facings.

**Section 2: Registered Suppliers**

- |            |                    |                                  |
|------------|--------------------|----------------------------------|
| <b>2.1</b> | <b>Door Lites:</b> | <b>ODL, Specialty or Trinity</b> |
| <b>2.2</b> | <b>Astragal:</b>   | <b>Endura Ultimate</b>           |

**Section 3: Additional Supportive Test or Acceptance Data Provided with Certification Documentation included:**

- 3.1 Miami-Dade Building Code Compliance Notice of Acceptance for Lite Frame Material, NOA#02-0429.11; #02-1216.06 and #03-0303.07.**
- 3.2 Surface Burning Characteristics for Foam Filled Door performed by Omega Point Laboratories to ASTM E84-98, "Standard Test Method for Surface Burning Characteristics of Building Materials-Report No. 15977-104313.**
- 3.3 ASTM E1300 Glass Load Resistance Report provided by National Certified Testing Laboratories NCTL-110-9735-1.**
- 3.4 Anchor Calculations for:  
Anchor Performance Calculation Report-Performed by Harold E. Rupp, P.E. (Florida No. 15935.)**

**See additional Pages of Certification for Certified Product Line Matrix(s) and Installation Details. If you have any questions regarding this certification, please contact NAMI at (757)594-8658.**

**National Accreditation & Management Institute, Inc.  
11870 Merchants Walk Suite 202-Newport News, VA 23606  
TEL(757) 594.8658 FAX(757)594-8659**

# NOTICE OF PRODUCT CERTIFICATION

**Company:** Masonite International Corporation  
1955 Powis Road  
West Chicago, IL 60185

**Certification No.:** NI0061110-Page 3  
**Certification Date:** 07/23/2005  
**Expiration Date:** 12/31/2008

**Product:** Wood-Edge Opaque Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted)  
Specifications Tested To: PA 201-94/202-94/203-94

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at [www.Namincertification.com](http://www.Namincertification.com). NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Design Pressure Pos/Neg	Missile Impact Rated	Test Report Number Drawing Number & Comments
X Single	I/S	Opaque	3'0" x 6'8"	+76/-76	Yes	NCTL-210-2929-1 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
X Single	O/S	Opaque	3'0" x 6'8"	+76/-76	Yes	NCTL-210-2929-1 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
XX Double	I/S	Opaque	6'0" x 6'8"	+55/-55	Yes	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
XX Double	O/S	Opaque	6'0" x 6'8"	+55/-55	Yes	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
XO/OX Single w/Sidelite	I/S	Opaque Door Glazed Sidelite	6'0" x 6'8"	+55/-55	Door-Yes Sidelite-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
XO/OX Single w/Sidelites	O/S	Opaque Door Glazed Sidelite	6'0" x 6'8"	+55/-55	Door-Yes Sidelite-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
OXO Single w/Sidelites	I/S	Opaque Door Glazed Sidelites	9'0" x 6'8"	+55/-55	Door-Yes Sidelites-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
OXO Single w/Sidelites	O/S	Opaque Door Glazed Sidelites	9'0" x 6'8"	+55/-55	Door-Yes Sidelites-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
OXXO Double w/Sidelites	I/S	Opaque Doors Glazed Sidelites	12'4" x 6'8"	+55/-55	Doors-Yes Sidelites-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
OXXO Double w/Sidelites	O/S	Opaque Doors Glazed Sidelites	12'4" x 6'8"	+55/-55	Doors-Yes Sidelites-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05

National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606  
Tel-757.594.8658/Fax-757.594.8659

NAMI AUTHORIZED SIGNATURE:

# NOTICE OF PRODUCT CERTIFICATION

**Company:** Masonite International Corporation  
1955 Powis Road  
West Chicago, IL 60185

**Certification No.:** NI006110-Page 4  
**Certification Date:** 07/23/2005  
**Expiration Date:** 12/31/2008

**Product:** Wood-Edge Steel Opaque Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted)  
Specifications Tested To: PA201-94/202-94/203-94

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Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Design Pressure Pos/Neg	Missile Impact Rated	Test Report Number Drawing Number & Comments
X Single	I/S	Opaque	3'0" x 8'0"	+70/-70	Yes	NCTL-210-3121-1/CTLA919W Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
X Single	O/S	Opaque	3'0" x 8'0"	+70/-70	Yes	NCTL-210-3121-1/CTLA919W Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
XX Double	I/S	Opaque	6'0" x 8'0"	+45/-50	Yes	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
XX Double	O/S	Opaque	6'0" x 8'0"	+50/-45	Yes	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
XO/OX Single w/Sidelite	I/S	Opaque Door Glazed Sidelite	6'0" x 8'0"	+45/-50	Door-Yes Sidelite-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
XO/OX Single w/Sidelites	O/S	Opaque Door Glazed Sidelite	6'0" x 8'0"	+50/-45	Door-Yes Sidelite-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
OXO Single w/Sidelites	I/S	Opaque Door Glazed Sidelites	9'0" x 8'0"	+45/-50	Door-Yes Sidelites-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
OXO Single w/Sidelites	O/S	Opaque Door Glazed Sidelites	9'0" x 8'0"	+50/-45	Door-Yes Sidelites-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
OXOX Double w/Sidelites	I/S	Opaque Doors Glazed Sidelites	12'4" x 8'0"	+45/-50	Doors-Yes Sidelites-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
OXOX Double w/Sidelites	O/S	Opaque Doors Glazed Sidelites	12'4" x 8'0"	+50/-45	Doors-Yes Sidelites-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05

National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606  
Tel-757.594.8658/Fax-757.594.8659

NAMI AUTHORIZED SIGNATURE: \_\_\_\_\_

# NOTICE OF PRODUCT CERTIFICATION

**Company:** Masonite International Corporation  
1955 Powis Road  
West Chicago, IL 60185

**Certification No.:** NI006110-Page 5  
**Certification Date:** 07/23/2005  
**Expiration Date:** 12/31/2008

**Product:** Wood-Edge Steel Glazed Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted)  
Specifications Tested To: PA 202-94

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at [www.Namincertification.com](http://www.Namincertification.com). NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Design Pressure Pos/Neg	Missile Impact Rated	Test Report Number Drawing Number & Comments
X Single	I/S	Glazed	3'0" x 6'8"	+50.5/-50.5	No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
X Single	O/S	Glazed	3'0" x 6'8"	+50.5/-50.5	No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
XX Double	I/S	Glazed	6'0" x 6'8"	+50.5/-50.5	No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
XX Double	O/S	Glazed	6'0" x 6'8"	+50.5/-50.5	No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
XO/OX Single w/Sidelite	I/S	Glazed Door Glazed Sidelite	6'0" x 6'8"	+50.5/-50.5	Door-No Sidelite-No	NCTL-210-2930-7 MA-WL0115/16/17/18/19/20/21-02 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
XO/OX Single w/Sidelites	O/S	Glazed Door Glazed Sidelite	6'0" x 6'8"	+50.5/-50.5	Door-No Sidelite-No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
OXO Single w/Sidelites	I/S	Glazed Door Glazed Sidelites	9'0" x 6'8"	+50.5/-50.5	Door-No Sidelites-No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
OXO Single w/Sidelites	O/S	Glazed Door Glazed Sidelites	9'0" x 6'8"	+50.5/-50.5	Door-No Sidelites-No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
OXOX Double w/Sidelites	I/S	Glazed Doors Glazed Sidelites	12'6" x 6'8"	+50.5/-50.5	Doors-No Sidelites-No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
OXOX Double w/Sidelites	O/S	Glazed Doors Glazed Sidelites	12'6" x 6'8"	+50.5/-50.5	Doors-No Sidelites-No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05

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Tel-757.594.8658/Fax-757.594.8659

NAMI AUTHORIZED SIGNATURE: \_\_\_\_\_

# NOTICE OF PRODUCT CERTIFICATION

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1955 Powis Road  
West Chicago, IL 60185

Certification No.: NI006110-Page 6  
Certification Date: 07/23/2005  
Expiration Date: 12/31/2008

Product: Wood-Edge Steel Glazed Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted)  
Specifications Tested To: PA 202-94

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at [www.Namincertification.com](http://www.Namincertification.com). NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Design Pressure Pos/Neg	Misile Impact Rated	Test Report Number Drawing Number & Comments
X Single	I/S	Glazed	3'0" x 8'0"	+40/-45	No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
X Single	O/S	Glazed	3'0" x 8'0"	+45/-40	No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
XX Double	I/S	Glazed	6'0" x 8'0"	+40/-45	No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
XX Double	O/S	Glazed	6'0" x 8'0"	+45/-40	No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
XO/OX Single w/Sidelite	I/S	Glazed Door Glazed Sidelite	6'0" x 8'0"	+40/-45	Door-No Sidelite-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
XO/OX Single w/Sidelites	O/S	Glazed Door Glazed Sidelite	6'0" x 8'0"	+45/-40	Door-No Sidelite-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
OXO Single w/Sidelites	I/S	Glazed Door Glazed Sidelites	9'0" x 8'0"	+40/-45	Door-No Sidelites-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
OXO Single w/Sidelites	O/S	Glazed Door Glazed Sidelites	9'0" x 8'0"	+45/-40	Door-No Sidelites-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
OXOX Double w/Sidelites	I/S	Glazed Doors Glazed Sidelites	12'6" x 8'0"	+40/-45	Doors-No Sidelites-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
OXOX Double w/Sidelites	O/S	Glazed Doors Glazed Sidelites	12'6" x 8'0"	+45/-40	Doors-No Sidelites-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05

National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606  
Tel-757.594.8658/Fax-757.594.8659

NAMI AUTHORIZED SIGNATURE:





## SITE NAVIGATION



## PRODUCT APPROVAL

Product Type Detail

Overview Product Search Organization Search Product Application

User: Public User - Not Associated with Organization -

[Need Help ?](#)

Application #: FL4904  
 Date Submitted: 07/25/2005  
 Code Version: 2004

Product Manufacturer: Masonite International  
 Address/Phone/email: One North Dale Mabry  
 Suite 950  
 Tampa, FL 33609  
 (615) 441-4258

Category: Exterior Doors

Subcategory: Swinging

Evaluation Method: Certification Mark or Listing

Referenced Standards from the Florida Building Code:	Section	Standard	Year
		TAS 201	1994
		TAS 202	1994
		TAS 203	1994
		ASTM E1300	1998
		ASTM E1300	2002

Section  
 2612 HVHZ  
 PI

Certification Agency: National Accreditation & Management Institute,

Quality Assurance Entity:

Validation Entity:

Authorized Signature: Steve Schreiber  
 sschreiber@masonite.com

Evaluation/Test Reports Uploaded:  
 Installation Documents Uploaded:

[PTID 4904 I Install 68 WE  
 Glazed.pdf](#)  
[PTID 4904 I Install 68 WE  
 Opaque.pdf](#)  
[PTID 4904 I Install 80 WE  
 Glazed.pdf](#)  
[PTID 4904 I Install 80 WE  
 Opaque.pdf](#)

Product Approval Method:

Method 1 Option A

Application Status:

Approved

Date Validated:

09/27/2005

Date Approved:

10/06/2005

Date Certified to the 2004 Code:

Page: 1

Page 1 / 1

App/Seq #	Product Model # or Name	Model Description	Limits of Use
4904.1	Wood-edge Steel Side-Hinged Door Units	6'-8" Opaque I/S and O/S Single Door	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 3'-0" x 6'-8" max nominal size Max DP = +/- 76.0. When large missile impact resistance is required, hurricane protective system is NOT required. See installation drawing DWG-MA-FL0128-05 for additional information.
4904.2	Wood-edge Steel Side-Hinged Door Units	8'-0" Opaque I/S and O/S Single Door	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 3'-0" x 8'-

			0" max nominal size Max DP = +/- 70.0. When large missile impact resistance is required, hurricane protective system is NOT required. See installation drawing DWG-MA-FL0129-05 for additional information.
4904.3	Wood-edge Steel Side-Hinged Door Units	6'-8" Opaque I/S and O/S Door w/ or w/o Sidelites	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. Max DP = +/- 55.0. When large missile impact resistance is required, hurricane protective system is NOT required on opaque panels, but is required on glazed panels. See installation drawing DWG-MA-FL0128-05 for additional information.
4904.4	Wood-edge Steel Side-Hinged Door Units	8'-0" Opaque I/S Door w/ or w/o Sidelites	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed 12'-0" x 8'-0" max nominal size. Max DP = + 45.0 / -50.0. When large missile impact resistance is required, hurricane protective system is NOT required on opaque panels, but is required on glazed panels. See installation drawing DWG-MA-FL0129-05 for additional information.
			Evaluated for use in

4904.5	Wood-edge Steel Side-Hinged Door Units	8'-0" Opaque O/S w/ or w/o Sidelites	locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. Max DP = + 50.0 / -45.0. When large missile impact resistance is required, hurricane protective system is NOT required on opaque panels, but is required on glazed panels. See installation drawing DWG-MA-FL0129-05 for additional information.
4904.6	Wood-edge Steel Side-Hinged Door Units	6'-8" Glazed I/S and O/S Door w/ or w/o Sidelites	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. Max DP = +/- 50.5. When large missile impact resistance is required, hurricane protective system is required. See installation drawing DWG-MA-FL0130-05 for additional information.
4904.7	Wood-edge Steel Side-Hinged Door Units	8'-0" Glazed I/S Door w/ or w/o Sidelites	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed 12'-0" x 8'-0" max nominal size

			<p>Max DP = +40.0 / -45.0. When large missile impact resistance is required, hurricane protective system is required. See installation drawing DWG-MA-FL0131-05 for additional information.</p>
4904.8	Wood-edge Steel Side-Hinged Door Units	8'-0" Glazed O/S Door w/ or w/o Sidelites	<p>Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. Max DP = + 45.0 / -40.0. When large missile impact resistance is required, hurricane protective system is required. See installation drawing DWG-MA-FL0131-05 for additional information.</p>

Next



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*m*



**SIDE-HINGED WOOD-EDGE STEEL DOOR UNIT  
6'-8" DOUBLE DOOR WITH / WITHOUT SIDELITES**

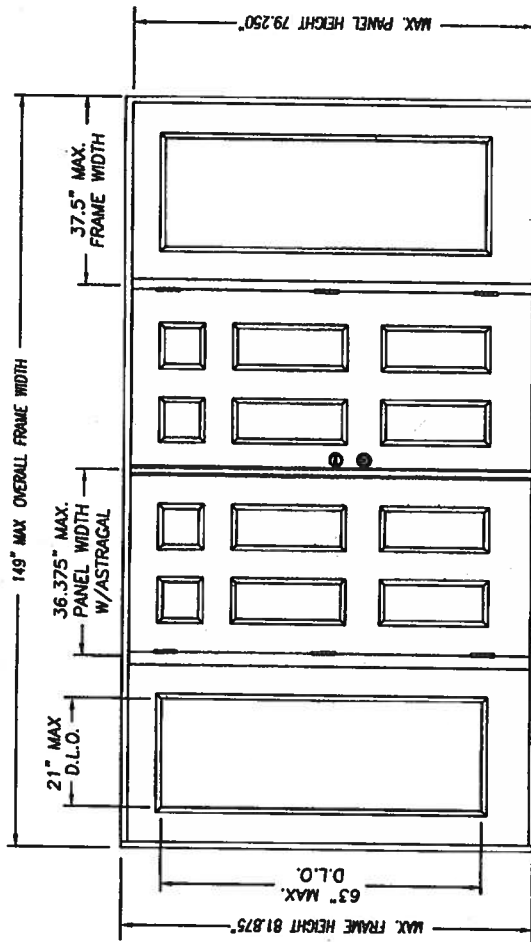
## GENERAL NOTES

1. EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, DO NOT EXCEED THE DESIGN PRESSURES LISTED
2. HURRICANE PROTECTIVE SYSTEM (SHUTTERS) IS NOT REQUIRED ON OPAQUE PANELS, BUT IS REQUIRED ON GLAZED SIDELITES
3. POLYURETHANE CORE FLAME SPREAD INDEX OF 50 AND SMOKE DEVELOPED INDEX OF 60 PER ASTM E84
4. PLASTICS TESTING OF LITE FRAME MATERIAL:

TEST DESCRIPTION	DESIGNATION	RESULT
SELF IGNITION TEMP	ASTM D1929	680 °F > 650 °F
RATE OF BURNING	ASTM D635	1.10 IN/MIN
SMOKE DENSITY	ASTM D2843	69.6%
TENSILE STRENGTH*	ASTM D638	-7.48% OFF

\* COMPARATIVE TENSILE STRENGTH AFTER WEATHERING  
4500 HOURS KENSEN ARC METHOD 1

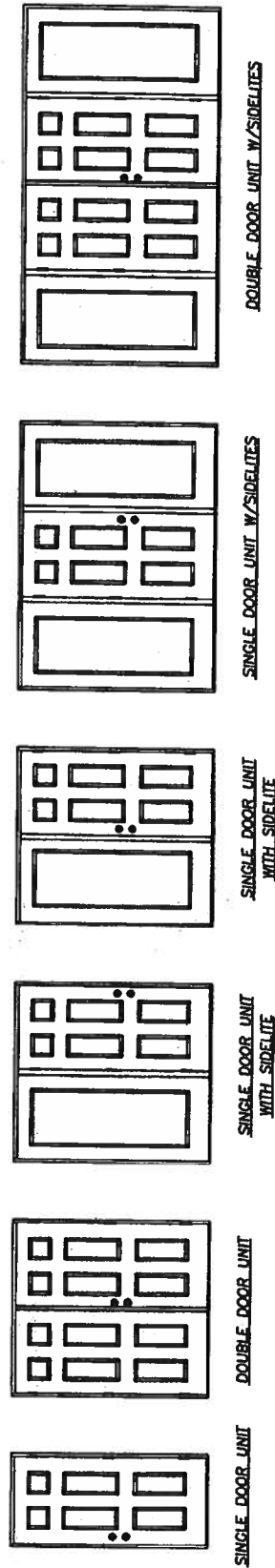
• COMPARATIVE TENSILE STRENGTH AFTER 4500 HOURS XENON ARC METHOD 1



DOUBLE INSWING UNIT W/SIDELITES

## Importance of

Certification No.: NT006110  
Reviewed By: *[Signature]*  
Date Received: 8/10/05



CONFIG	MAX WIDTH	DESIGN PRESSURE RATING		WHERE WATER INFILTRATION PERFORMANCE IS REQUIRED TO BE 13% OF DESIGN PRESSURE
		INSWING	OUTSWING	
X	3/5"	+76.0	+76.0	INSWING
XX	7/8"	+55.0	+55.0	OUTSWING
XX or XO	7/8"	+55.0	+55.0	INSWING
OJO	11/2"	+55.0	+55.0	OUTSWING
OJO	14/9"	+55.0	+55.0	INSWING
OJO	14/9"	+55.0	+55.0	OUTSWING

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	ANCHORING LOCATIONS & DETAILS
3	ANCHORING LOCATIONS & DETAILS

DATE: 7/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.:
DWG-MA-FL0128-05
SHEET 1 OF 3

MASONITE INTERNATIONAL CORP.  
7300 REAMES RD.  
CHARLOTTE, NC 28216

Product:  
EXTERIOR DOOR PRODUCT  
DOUBLE 6 3/4" OPAQUE  
WOOD-EDGE STEEL DOOR  
PART OR ASSEMBLY:  
TYPICAL ELEVATIONS  
& GENERAL NOTES

## REVISIONS

DATE \_\_\_\_\_

ON

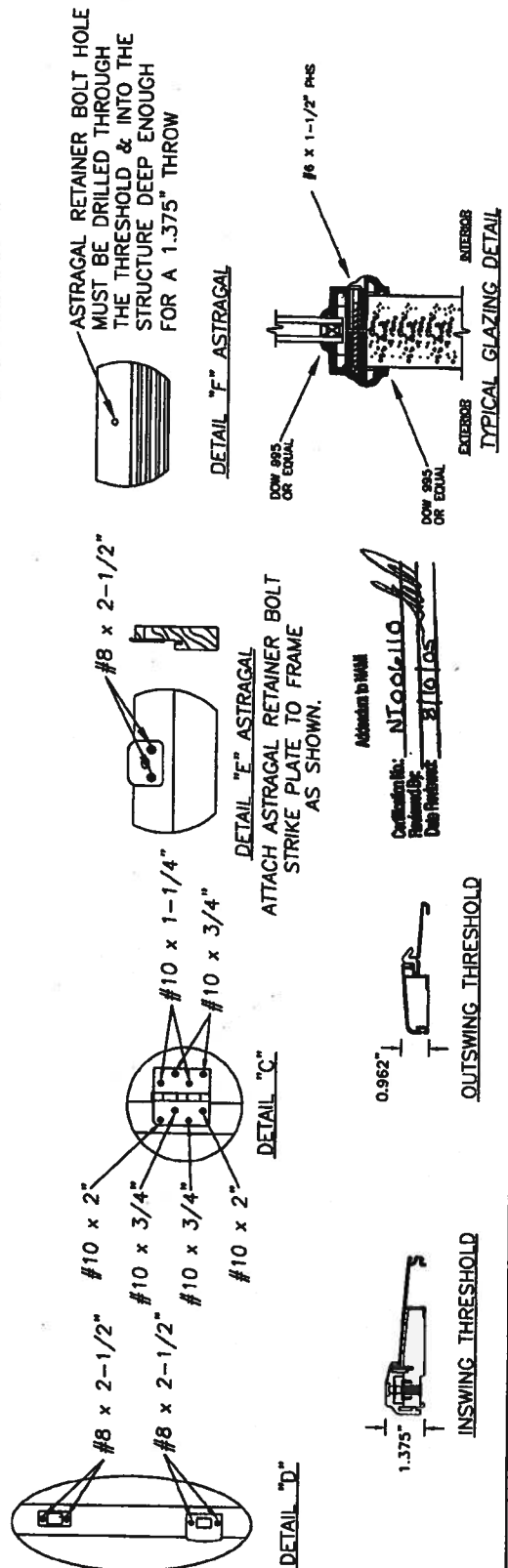
DATE: 7/11/05

SCALE: N.T.S.

CHK. BY:

DRAWING NO.: DWG-14-ET0125-01

SHEET 1 OF 3



0.962"

OUTSWING THRESHOLD

INSWING THRESHOLD







1. EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS, OR OTHER STRUCTURES, DOES NOT EXCEED THE DESIGN PRESSURES LISTED
2. HURRICANE PROTECTIVE SYSTEM (SHUTTERS) IS REQUIRED
3. POLYURETHANE CORE FLAME SPREAD INDEX OF 50 AND SMOKE DEVELOPED INDEX OF 80 PER ASTM E84
4. PLASTICS TESTING OF LITE FRAME MATERIAL:

TEST DESCRIPTION	DESIGNATION	RESULT
SELF IGNITION TEMP	ASTM D1929	680 °F > 650 °F
RATE OF BURNING	ASTM D635	1.10 IN/MIN
SMOKE DENSITY	ASTM D2843	60.6%
TENSILE STRENGTH*	ASTM D638	-7.48% DIFF

\* COMPARATIVE TENSILE STRENGTH AFTER WEATHERING  
4500 HOURS TENSILE ARC METHOD 1

\* COMPARATIVE TENSILE STRENGTH AFTER WEATHERING 4500 HOURS XENON ARC METHOD 1

DOUBLE INSWING UNIT W/SIDELITES

**Addressed to:**

Certification No.: NT006110  
 Received By: [Signature]  
 Date Received: 8/10/05

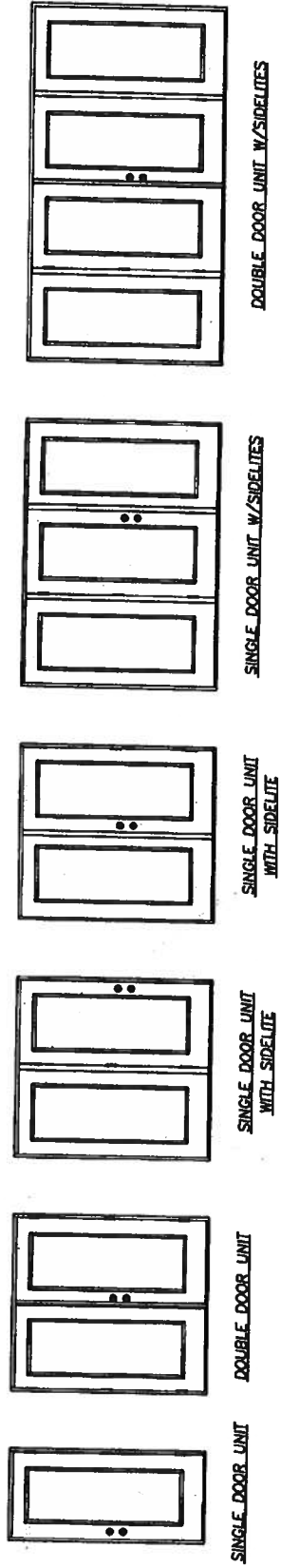
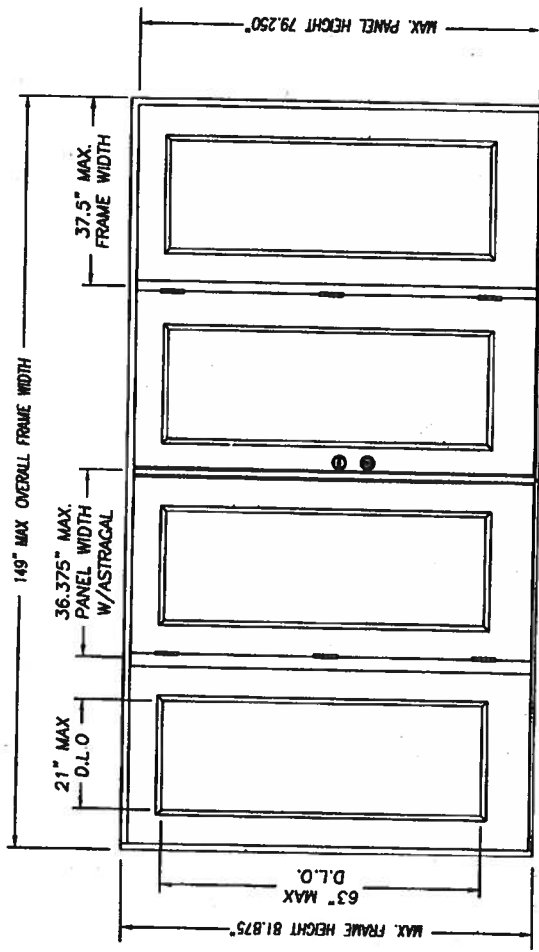


TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	ANCHORING LOCATIONS & DETAILS
3	ANCHORING LOCATIONS & DETAILS

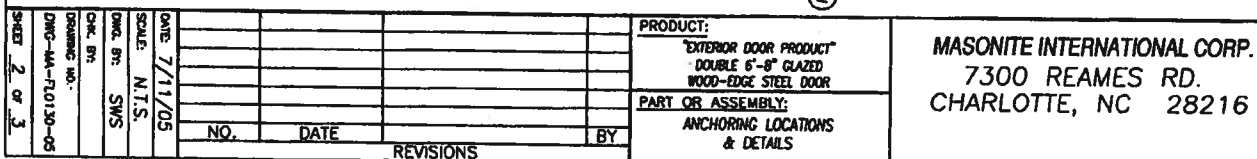
CONFIG	MAX WIDTH	DESIGN PRESSURE		RATING		WHERE WATER INFILTRATION PERFORMANCE IS REQUIRED TO BE 15% OF DESIGN PRESSURE
		INSWING	OUTSWING	INSWING	OUTSWING	
X	37.5	+50.5	-50.5	+50.5	-50.5	+50.5 / -18.0
XX	74	+50.5	-50.5	+50.5	-50.5	+50.5 / -19.0
OX or XO	75	+50.5	-50.5	+50.5	-50.5	+50.5 / -50.5
OXO	112.5	+50.5	-50.5	+50.5	-50.5	+50.5 / -19.0
OXOX	149	+50.5	-50.5	+50.5	-50.5	+50.5 / -19.0

DATE: 7/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO. DWG-MA-FLO130-05
SHEET 1 OF 3

MASONITE INTERNATIONAL CORP.  
7300 REAMES RD.  
CHARLOTTE, NC 28216

PRODUCT: EXTERIOR DOOR PRODUCT  
DOUBLE 6" GLAZED  
WOOD-EDGE STEEL DOOR  
PART OR ASSEMBLY:  
TYPICAL ELEVATIONS  
& GENERAL NOTES

[illegible]

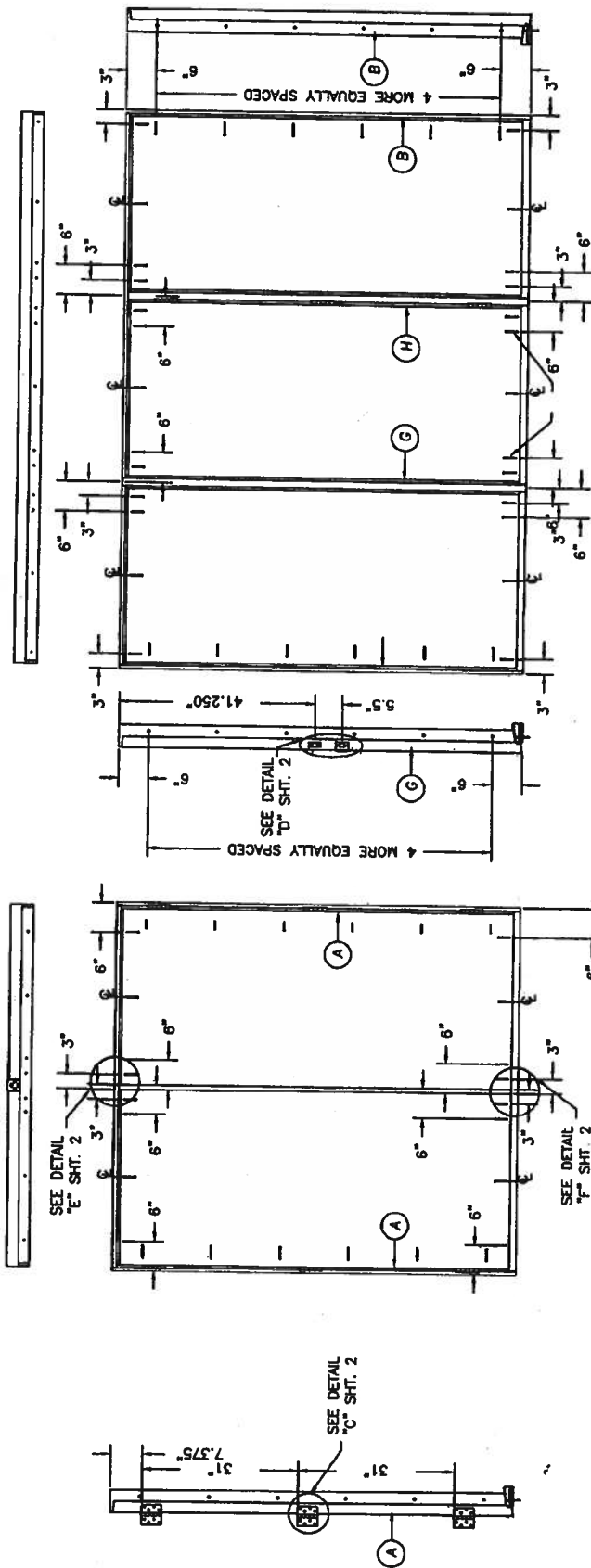


MASONITE INTERNATIONAL CORP.  
7300 REAMES RD.  
CHARLOTTE, NC 28216

PRODUCT: EXTERIOR DOOR PRODUCT  
6'-8" WOOD-EDGE STEEL GLAZED  
DOUBLE DOOR UNIT  
PART OR ASSEMBLY: ANCHORING LOCATIONS & DETAILS

[illegible]

DATE: 7/11/05
CALE: N.T.S.
WG. BY: SWS
CHK. BY:
TRAINING NO.
WG-MA-FLD130-05
PAGE 3 OF 3

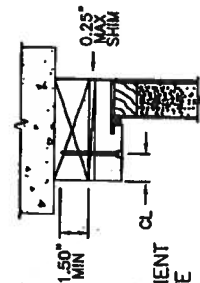


**ATTACHMENT DETAIL**

1. ANCHOR ANALYSIS FOR LOADING CONDITIONS PREPARED, SIGNED AND SEALED BY HAROLD E. RUPP, PE (FLORIDA #15935) WITH THE LOWEST (LEAST) FASTENER RATING FROM THE DIFFERENT FASTENERS BEING CONSIDERED FOR USE. JAMB, HEAD, AND THRESHOLD FASTENERS ALLOWED FOR THIS UNIT INCLUDE #10 WOOD SCREWS OR 3/16" TAPCONS. A PHYSICAL SHIM MUST BE PLACED IN SHIM SPACE AT EACH ANCHOR LOCATION.
2. THE WOOD SCREW SINGLE SHEAR DESIGN VALUES COME FROM ANSI/AF&PA NDA FOR SOUTHERN PINE LUMBER AND ACHIEVED OF 1-1/2" MINIMUM EMBEDMENT. THE TAPCON MUST ACHIEVE A MINIMUM EMBEDMENT OF 1-1/4".
3. WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE.
4. MINIMUM DESIGN VALUE STRENGTH OF ANCHORS 171 LBS.

## HARDWARE SCHEDULE

- |    |  |
|----|--|
| 1. | KWIKSET OR SCHLEGE ANSI/BHMA GRADE 3 OR BETTER CYLINDRICAL AND DEADLOCK HARDWARE TO BE INSTALLED AT 5-1/2" CENTERLINE. |
| 2. | 4" X 4" FULL MORTISE BUTT HINGES   |



## TYPICAL ANCHOR INSTALLATION

Addendum to N-644  
 Certification No. NT006110  
 Prepared By [Signature]  
 Date Prepared 8/10/05



# Load Short Form Entire House

Touchstone Heating and Air, Inc.

Job: Hillendale Farms  
Date: Jun 22, 2007  
By: ell

P.O. Box 327, Lake Butler, FL 32054 Phone: 386-496-3487 Fax 386-496-3147

## Project Information

For: Stanley Crawford / Hillendale Farms  
32026  
Phone: 386-755-8887

## Design Information

	Htg	Clg	Infiltration	Simplified Average
Outside db (°F)	33	92	Method	
Inside db (°F)	68	75	Construction quality	
Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	52		

### HEATING EQUIPMENT

Make Trane  
Trade XR13 Weathertron  
Model 2TWR3042A1

Efficiency 8 HSPF  
Heating input 35000 Btuh @ 47°F  
Heating output 25 °F  
Temperature rise 1283 cfm  
Actual air flow 0.049 cfm/Btuh  
Air flow factor 0.00 in H2O  
Static pressure  
Space thermostat

### COOLING EQUIPMENT

Make Trane  
Trade XR13 Weathertron  
Cond 2TWR3042A1  
Coil TXC054S3+\*DY100R9V4  
Efficiency 13 SEER  
Sensible cooling 26950 Btuh  
Latent cooling 11550 Btuh  
Total cooling 38500 Btuh  
Actual air flow 1283 cfm  
Air flow factor 0.049 cfm/Btuh  
Static pressure 0.00 in H2O  
Load sensible heat ratio 0.76

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BR 3	135	3388	2347	164	116
Bath	42	712	265	35	13
BR 2	135	3607	2682	175	132
Living Room	140	1802	1036	87	51
Great Room	340	3470	2396	168	118
Hall	40	52	105	3	5
Dining	140	1899	1125	92	55
Kitchen/Dinette	244	2518	6885	122	330
Master BR	272	4113	2650	200	131
WIC	104	2436	816	118	40
Master Bath	180	2363	3006	115	148
Utility	70	91	2889	4	143

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.



wrightsoft

Right-Size Residential 6.0.90 RSR25972

2007-Jun-22 16:27:15

C:\My Documents\Wrightsoft HVAC\Brian Crawford\Brian Crawford Hillendale Farms.rpt Calc = MJ8 0

Page 1

Entire House	1842	26452	26005	1283	1283
Other equip loads		4722	2284		
Equip. @ 0.97 RSM			27450		
Latent cooling			9035		
TOTALS	1842	31174	36484	1283	1283

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.





# Duct System Summary

## Entire House

Touchstone Heating and Air, Inc.

Job: Hillendale Farms  
Date: Jun 22, 2007  
By: ell

P.O. Box 327, Lake Butler, FL 32054 Phone: 386-496-3487 Fax: 386-496-3147

### Project Information

For: Stanley Crawford / Hillendale Farms  
32026  
Phone: 386-755-8887

	Heating	Cooling
External static pressure	0.00 in H <sub>2</sub> O	0.00 in H <sub>2</sub> O
Pressure losses	0.15 in H <sub>2</sub> O	0.15 in H <sub>2</sub> O
Available static pressure	-0.1 in H <sub>2</sub> O	-0.1 in H <sub>2</sub> O
Supply / return available pressure	-0.07 / -0.07 in H <sub>2</sub> O	-0.07 / -0.07 in H <sub>2</sub> O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	1283 cfm	1283 cfm
Total effective length (TEL)	0 ft	

### Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	Rect Size (in)	Duct Matl	Actual Ln (ft)	Ftg. Eqv Ln (ft)	Trunk
BR 3	h 3388	164	116	0.880	7	0x0	VIFx	0.0	0.0	
Bath	h 712	35	13	0.880	4	0x0	VIFx	0.0	0.0	
BR 2	h 3607	175	132	0.880	7	0x0	VIFx	0.0	0.0	
Living Room	h 1802	87	51	0.880	5	0x0	VIFx	0.0	0.0	
Great Room	h 3470	168	118	0.880	7	0x0	VIFx	0.0	0.0	
Hall	c 105	3	5	0.880	4	0x0	VIFx	0.0	0.0	
Dining	h 1899	92	55	0.880	5	0x0	VIFx	0.0	0.0	
Kitchen/Dinette-A	c 3343	61	165	0.880	7	0x0	VIFx	0.0	0.0	
Kitchen/Dinette	c 3343	61	165	0.880	7	0x0	VIFx	0.0	0.0	
Master BR	h 4113	200	131	0.880	8	0x0	VIFx	0.0	0.0	
WC	h 2436	118	40	0.880	6	0x0	VIFx	0.0	0.0	
Master Bath	c 3008	115	148	0.880	7	0x0	VIFx	0.0	0.0	
Utility	c 2889	4	143	0.880	7	0x0	VIFx	0.0	0.0	

### Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	RectSize (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	1283	1283	0.0	0.880	588	20	0x 0		VIFx	

Bold/italic values have been manually overridden





Architectural Testing

**AAMA/NWWDA 101/I.S.2-97 TEST REPORT**

Rendered to:

MI HOME PRODUCTS, INC.  
650 West Market Street  
Gratz, Pennsylvania 17030-0370

Report No: 01-38385.01  
Test Dates: 11/10/00  
Thru: 12/20/00  
Report Date: 01/10/01  
Expiration Date: 12/20/04

**Project Summary:** Architectural Testing, Inc. (ATI) was contracted to perform tests on a Series/Model 8540, vinyl single hung window at the MI Home Products, Inc. test facility in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for an H-R40 48 x 72 rating. Test specimen description and results are reported herein.

**Test Specification:** The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors*.

**Test Specimen Description**

**Series/Model:** 8540

**Type:** Vinyl Single Hung

**Overall Size:** 3' 11-1/2" wide by 5' 11-1/2" high

**Active Sash Size:** 3' 9-1/6" wide by 2' 10-9/16" high

**Fixed Daylight Opening Size:** 3' 6-1/4" wide by 2' 7-3/8" high

**Screen Size:** 3' 7-9/16" wide by 2' 10" high

**Finish:** All vinyl was white.

130 Derry Court  
York, PA 17402-9405  
phone: 717.764.7700  
fax: 717.764.4129  
www.testati.com



**Test Specimen Description: (Continued)**

**Glazing Details:** The sash and fixed lite were glazed with a 7/8" thick sealed insulating glass unit fabricated from two sheets of 3/32" clear annealed glass and a metal reinforced butyl spacer system. The insulating glass was interior drop-in glazed with two-sided adhesive foam glazing tape and a snap-in vinyl glazing bead.

**Weatherstripping:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.230" high by 0.187" wide backed polypile with center fin	2 Rows	Stiles
0.230" high by 0.187" wide backed polypile with center fin	1 Row	Meeting rail, sill vertical leg
3/8" diameter vinyl wrapped foam bulb	Row	Bottom rail
1/8" diameter vinyl wrapped foam bulb	1 Row	Interior of fixed meeting rail

**Frame Construction:** All frame members were constructed of extruded vinyl with mitered and welded corners. The fixed meeting rail was attached to the jambs with three screws per end.

**Sash Construction:** All sash members were constructed of extruded vinyl with mitered and welded corners.

**Screen Construction:** The screen frame was constructed from rolled aluminum members with keyed corners. The screening consisted of a fiberglass mesh that was secured with a flexible spline.

**Hardware:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Metal sweep lock	2	6-1/2" from ends of interior meeting rail
Metal keeper	2	6-1/2" from ends of fixed meeting rail
Plastic tilt latch	2	Ends of interior meeting rail
Metal pivot bar	2	Ends of bottom rail
Coil spring balance assembly	2	One per jamb
Screen leaf spring	2	6" from corners on screen top rail
Screen plunger	2	2-1/2" from bottom corners on screen stiles



**Test Specimen Description: (Continued)**

**Drainage:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
1/2" long by 5/32" wide weepslot	2	1" from each end of glazing channel on bottom rails, draining the glazing channel
1/2" long by 1/16" wide weepslot	4	2-1/2" from each end of bottom rail, draining bottom rail hollow
1" wide by 3/32" high weepnotch	2	2-1/2" from ends of sill, draining sill track
1" wide by 1/8" high weepslot	2	2-1/2" from ends of sill, draining sill hollow

**Reinforcement:** The fixed meeting rail included a custom shaped steel reinforcement, RF-104. The sash stiles and top rail included an "H" shaped steel reinforcement, RF-1575. The bottom rail included a custom shaped aluminum reinforcement, M-1575.

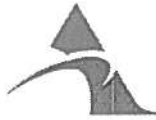
**Installation:** The test buck was fabricated from 2" x 8" Spruce-Pine-Fir fastened with 3" screws. The window was installed with 1" galvanized roofing nails in the nail fin 8" apart. Polyurethane was used as a sealant covering the nail heads and around the exterior perimeter.

**Test Results**

The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.1.6.1	Operating Force	17 lbs	30 lbs max.
	Air Infiltration per ASTM E 283 (See Note #1) @ 1.57 psf (25 mph)	0.11 cfm/ft <sup>2</sup>	0.30 cfm/ft <sup>2</sup> max.
	Water Resistance per ASTM E 547-96 (with and without screen) WTP = 6.00 psf	No leakage	No leakage @ 2.86 psf
2.1.4.2	Uniform Load Structural per ASTM E 330-97 (Measurements reported were taken on the bottom rail) @ 60.0 psf (exterior) @ 60.0 psf (interior)	0.06" 0.15"	0.18" max. @ 22.5 psf 0.18" max. @ 22.5 psf

**Note #1:** The tested specimen meets (or exceeds) the performance levels specified in AAMA/NWDA 101/I.S. 2-97 for air infiltration.



**Test Results: (Continued)**

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction at 70 lbs		
	Meeting Rail	0.12"/24%	0.50"/100%
	Bottom Rail	0.12"/24%	0.50"/100%
	In remaining direction at 50 lbs		
	Stile	0.09"/19%	0.50"/100%
	Stile	0.09"/19%	0.50"/100%
2.1.7	Welded Corner Test	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance per ASTM F 588-97		
	Type: A		
	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

**Optional Performance**

4.3	Water Resistance per ASTM E 547-96 and ASTM E 331-96 (with and without screen) WTP = 6.00 psf	No leakage	No leakage
4.4.2	Uniform Load Structural per ASTM E 330-97 (Measurements reported were taken on the bottom rail)		
	@ 60 psf (exterior)	0.06"	0.18" max.
	@ 60 psf (interior)	0.15"	0.18" max.

**Structural Load Results for the North Carolina State Building Code:**

<u>Title of Test – Test Method</u>	<u>Results</u>
Design Pressure @ 47 psf (interior) for 33 seconds	No damage
Design Pressure @ 47 psf (exterior) for 33 seconds	No damage
Structural Overload @ 64.5 psf (interior) for 10 seconds	No damage
Structural Overload @ 64.5 psf (exterior) for 10 seconds	No damage
Structural Overload @ 70.5 psf (interior) for 10 seconds	No damage
Structural Overload @ 70.5 psf (exterior) for 10 seconds	No damage



Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC.

*Bill Thorr*

Bill Thorr  
Technician

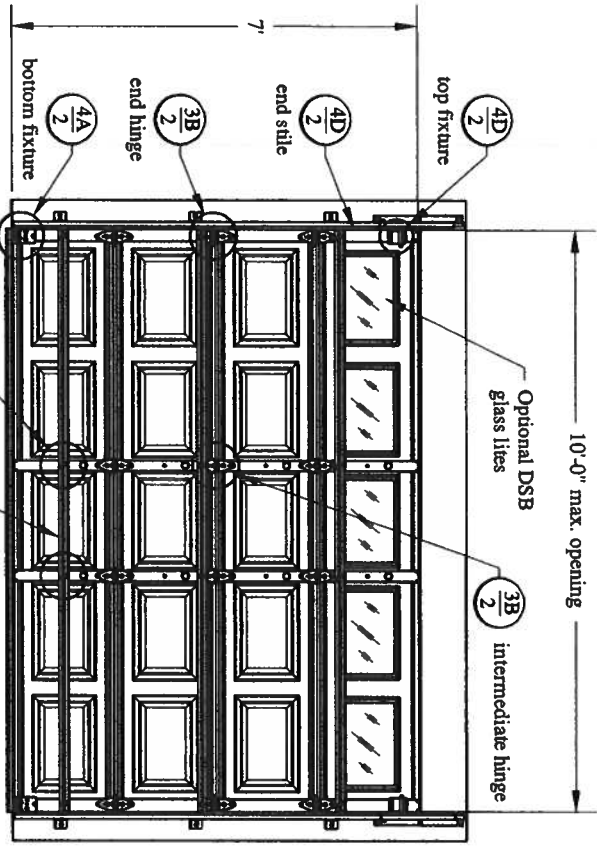
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*Allen N. Reeves*

Allen N. Reeves, P.E.  
Director - Engineering Services

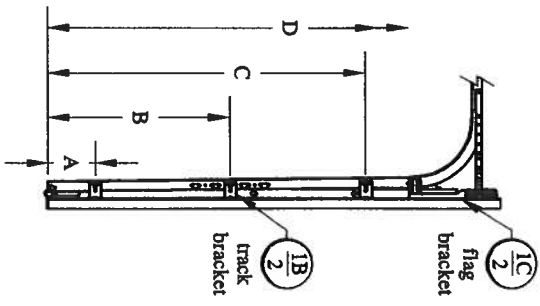
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door height	section quantity	strut quantity	trk brkt per side
6'-6" to 7'-0"	4	3	3
7'-6" to 8'-0"	5	4	4
8'-3" to 8'-9"	5	4	4
9'-0" to 10'-6"	6	5	5
10'-9" to 12'-3"	7	6	6
12'-6" to 14'-0"	8	7	7

Refer to Supplemental Instructions for strut placement on doors over 7'-0" high



Door Model	Gauge	Decimal
2250/2251	25	.0185
4250/4251	25	.0185
2240/2241	24	.0225
4240/4241	24	.0225
5240/5241	24	.0225

Track Bracket Chart		door height									
		6'-6"	6'-9"	7'-0"	7'-6"	7'-9"	8'-0"	8'-3"	8'-6"	8'-9"	
track brackets		D	n/a	n/a	n/a	72"	69"	72"	81"	84"	87"
	C	60"	63"	66"	58"	55"	58"	60"	63"	66"	
	B	35"	35"	38"	34"	31"	34"	32"	35"	38"	
	A	10"	7"	10"	10"	7"	10"	4"	7"	10"	

Track bracket locations shown above are for doors up to five sections high. Additional door sections may be added for a maximum door height of 14'-0". One track bracket (per track) must be added for each section and spaced at a distance not greater than the corresponding section height.

This door has been tested in accordance with ANSI/DASMA 108-2002  
 Design Pressure (DP): 19.2 pos / 22.0 neg  
 Test Pressure (TP): 28.8 pos / 33.0 neg  
 Per 2004 FBC Table 1609.6E, DP meets or exceeds basic wind speed of:  
 V = 110 MPH for Exposure B and mean roof height of 30' or less  
 V = 93 MPH for Exposure C and mean roof height of 30' or less  
 Maximum door size: 10'-0" wide by 14'-0" tall  
 Glazing and door have not been tested for windborne debris.  
 Wood buck and supporting structural elements shall be designed by a registered professional engineer for wind loads shown on this drawing.  
 If door is not electrically operated, a lock must be installed.

Professional Engineer's seal provided only for verification of windload construction details

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 1411 LeMay Street #205  
 Carrollton, Texas 75007  
 Florida P.E. # 51737

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Pumps & Service

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Fax: (386) 752-1477

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

Casing Size 4 inch Steel Pump Installation: Deep Well Submersible

Pump Make Aermotor Pump Model S20-100 HP 1


System Pressure (PSI) On 30 Off 50 Average Pressure 40

Pumping System GPM at average pressure and pumping level 20(GPM)

Tank Installation: Bladder /Galvanized Make Challenger

Model PC 244 Size 81 gallon

Tank Drawdown per cycle at system pressure 25.1 gallons

  
Signature

2609

License Number

Linda Newcomb

Print Name

4/12/07

Date



FEB - 4 2002

January 31, 2002

**TO: OUR FLORIDA CUSTOMERS:**

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

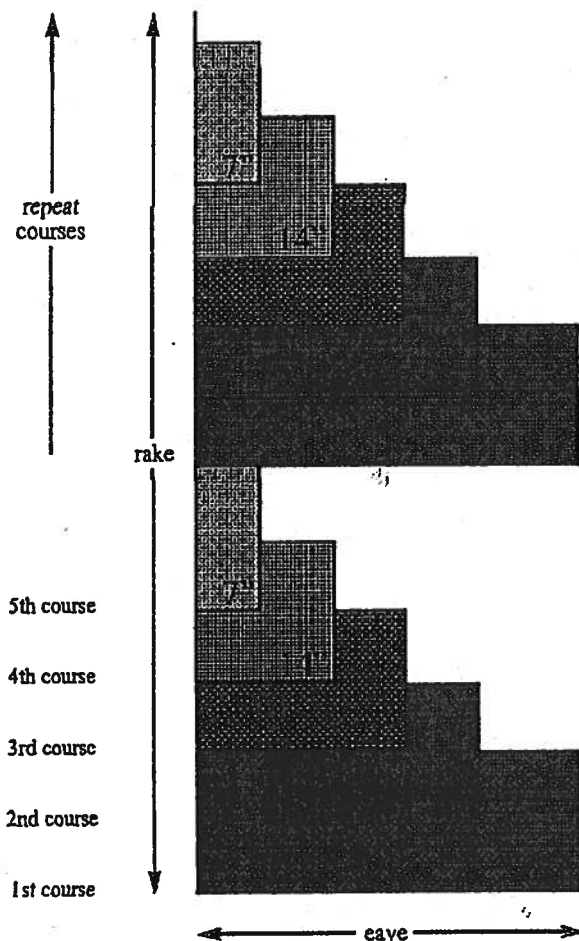
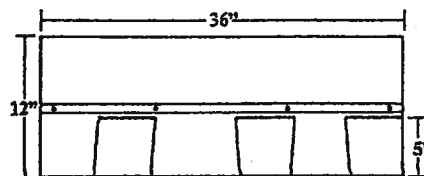
**TAMKO Roofing Products, Inc.**



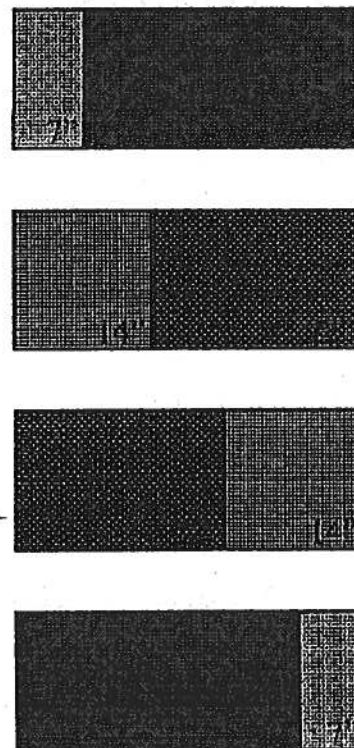


## Application Instructions For Heritage® 40 & 30 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	36"
Width	12"
Bundles per Sq.	4
Shingles per Sq.	80
Shingles per Bundle	20
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"



The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no wastes.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

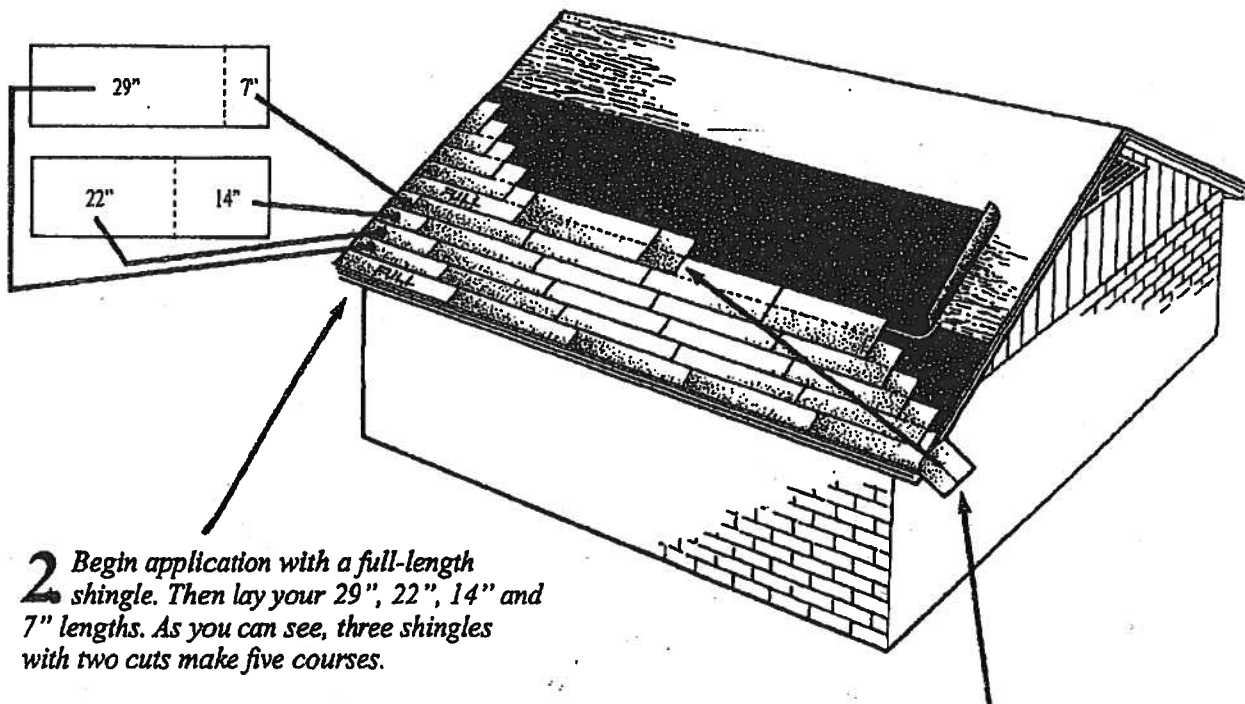
**NOTE:** These application instructions apply only to Heritage 40, Heritage 30, Heritage 40 AR, and Heritage 30 AR shingles.



## Application Instructions For Heritage® 40 & 30 Series Shingles

With two simple cuts, you can create five courses out of three Heritage shingles with no waste. Fewer cuts mean labor savings and faster application. The TAMKO method also eliminates unsightly zipper patterns. And because you can work any piece over 8" long back into the field of roofing, you'll save money on materials. For the best-looking roof with the least waste, rely on TAMKO and the Heritage Series.

**1.** Cut your first shingle to make a 29" and a 7" length. Cut a second shingle to make a 22" and a 14" length.



**2.** Begin application with a full-length shingle. Then lay your 29", 22", 14" and 7" lengths. As you can see, three shingles with two cuts make five courses.

**3.** Continue working your way across the roof. When you make your final cut at the roof's edge, flip any pieces that are 8" or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

**NOTE:** Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4" from one another.

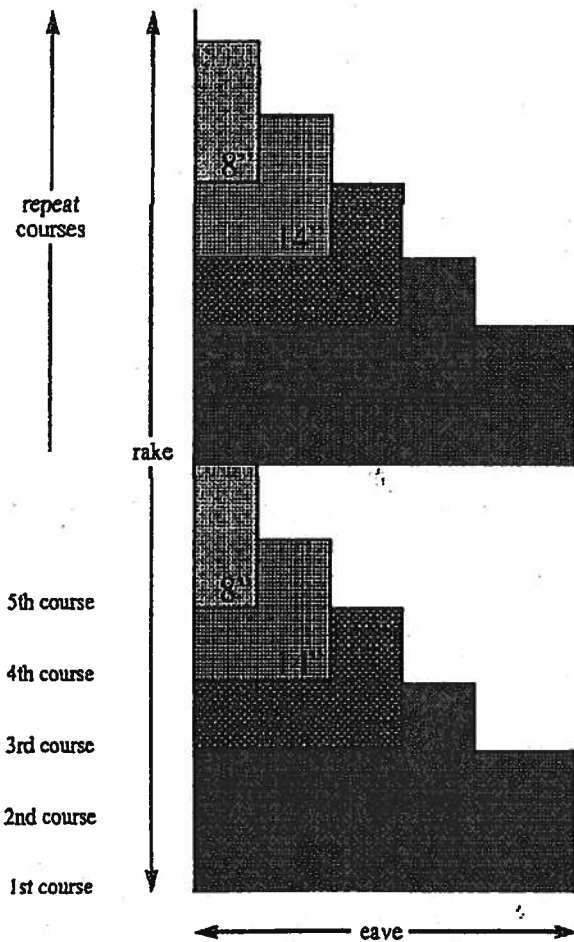
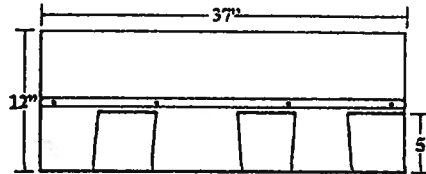


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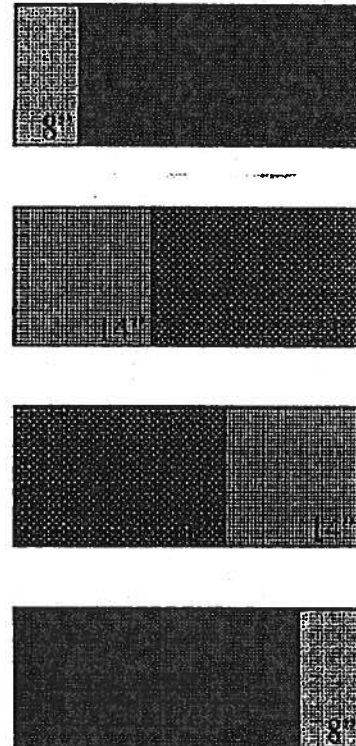


## Application Instructions For Heritage® 25 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"



The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

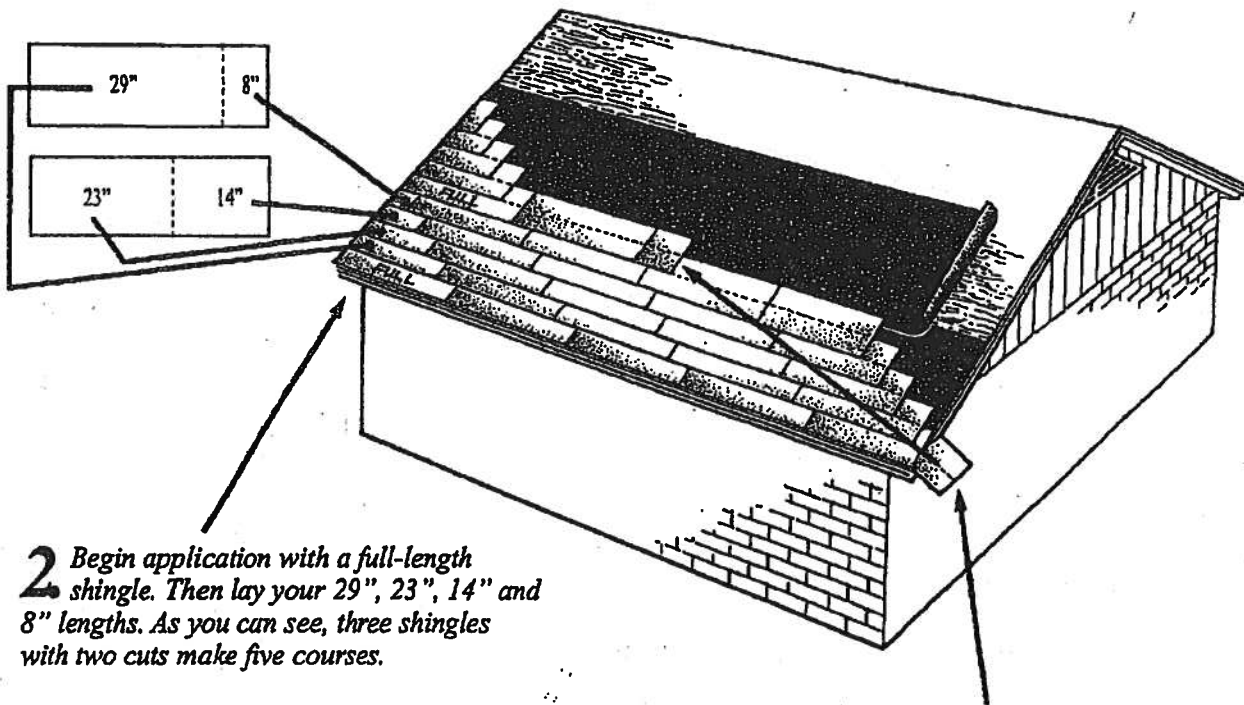
**NOTE:** These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.



## Application Instructions For Heritage® 25 Series Shingles

With two simple cuts, you can create five courses out of three Heritage shingles with no waste. Fewer cuts mean labor savings and faster application. The TAMKO method also eliminates unsightly zipper patterns. And because you can work any piece over 8" long back into the field of roofing, you'll save money on materials. For the best-looking roof with the least waste, rely on TAMKO and the Heritage Series.

**1.** Cut your first shingle to make a 29" and an 8" length. Cut a second shingle to make a 23" and a 14" length.



**2** Begin application with a full-length shingle. Then lay your 29", 23", 14" and 8" lengths. As you can see, three shingles with two cuts make five courses.

**3.** Continue working your way across the roof. When you make your final cut at the roof's edge, flip any pieces that are 8" or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

**NOTE:** Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4" from one another.



997493



## Application Instructions for

- Glass-Seal
- Elite Glass-Seal®
- Glass-Seal AR
- Elite Glass-Seal® AR

### THREE-TAB ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

**IMPORTANT:** It is not necessary to remove the plastic strip from the back of the shingles.

#### 1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

**NEW ROOF DECK CONSTRUCTION:** Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

**PLYWOOD:** All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

**SHEATHING BOARDS:** Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

#### 2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.

FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

**IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.**

#### 3. FASTENING

**NAILS:** TAMKO recommends the use of nails as the preferred method of application.

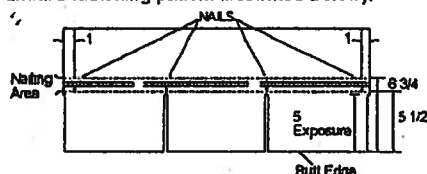
**WIND CAUTION:** Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

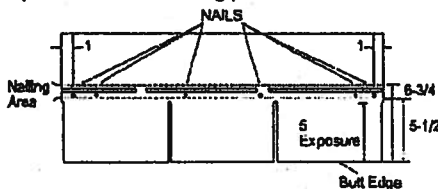
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagrams and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

**FASTENING PATTERNS:** Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

**1) Standard Fastening Pattern.** (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below).



**2) Mansard or High Wind Fastening Pattern.** (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fastener per shingle. (See Mansard fastening pattern illustrated below.)



**NAILS:** TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

(Continued)

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Southeast District	2300 35th St., Tuscaloosa, AL 35401
Southwest District	7910 S. Central Exp., Dallas, TX 75216
Western District	5300 East 43rd Ave., Denver, CO 80216

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800-530-8868

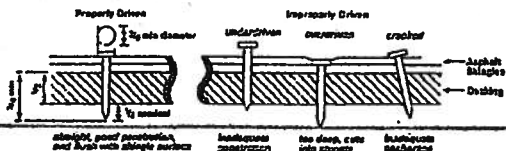
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## • Glass-Seal • Glass-Seal AR

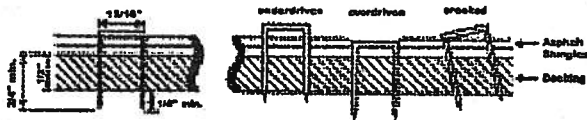
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### THREE-TAB ASPHALT SHINGLES

into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



**STAPLES:** If staples are used in the attaching process, follow the above instructions for placement. All staples must be driven with pneumatic staplers. The staple must meet the following minimum dimensional requirements. Staples must be made from a minimum 16 gauge galvanized wire. Crown width must be at least 15/16 in. (staple crown width is measured outside the legs). Leg length should be a minimum of 1-1/4 in. for new construction and 1-1/2 in. for reroofing thus allowing a minimum deck penetration of 3/4 in. The crown of the staple must be parallel to the length of the shingle. The staple crown should be driven flush with the shingle surface. Staples that are crooked, underdriven or overdriven are considered improperly applied.



**CAUTION: DO NOT FASTEN INTO THE FACTORY APPLIED ADHESIVE.**

#### 4. UNDERLAYMENT

**UNDERLAYMENT:** An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles which is not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

Products which are acceptable for use as underlayment are:

- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I
- Any TAMKO non-perforated asphalt saturated organic felt

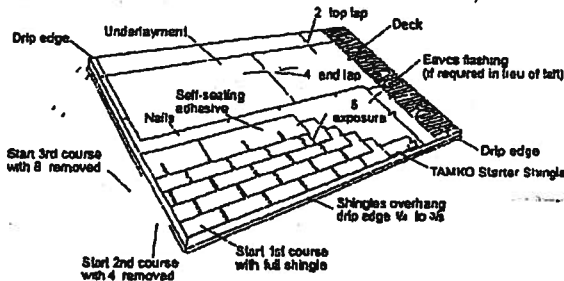
In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information.

TAMKO does not recommend the use of any substitute products as shingle underlayment.

#### 5. APPLICATION INSTRUCTIONS

**STARTER COURSE:** A starter course may consist of TAMKO Shingle Starter, self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. Attach the starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eaves edge. The starter course should overhang both the eaves and rake edges 1/4 in. to 3/8 in. If a roll roofing is used, seal down the shingles in the first course by applying adhesive cement in four spots equally spaced to the surface of the starter strip and press the shingle down on the spots of cement. Plastic cement should be used sparingly, as excessive amounts may cause blistering.

**SHINGLE APPLICATION:** There are three different offset methods for applying strip shingles: the 4-inch method, the 5-inch method and the 6-inch method. By removing different lengths from the first shingle, cutouts in one course of shingles do not line up directly with those of the course below. It is recommended that the shingles be laid according to one of these methods consistent with procedures outlined in ARMA's Residential Asphalt Roofing Manual. This panel will feature the 4-inch method. For information regarding the other methods, please refer to the ARMA Residential Asphalt Roofing Manual. **CAUTION:** Never use an alignment system where shingle joints are closer than 4 in. to one another.



#### 6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of asphalt saturated felt. Begin by applying the felt in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the felts to each other with plastic cement from eaves and rakes to a point of at least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus® self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

#### 7. MANSARD ROOF OR STEEP SLOPE ROOF

If the slope exceeds 21 in. per foot (60°), each shingle must be sealed

(Continued)

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### THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a \$.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

#### 8. RE-ROOFING

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and refasten in a new location. Remove all drip edge metal and replace with new.

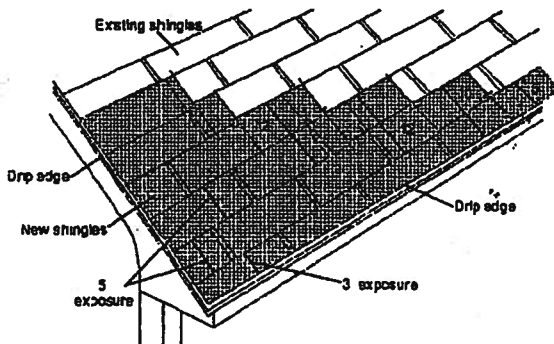
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nesting procedure described below is the preferred method for re-roofing over square tab strip shingles with a 5 in. exposure.

**Starter Course:** Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

**First Course:** Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

**Second and Succeeding Courses:** According to the off-set application method you choose to use, remove the appropriate length from the



rake end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingle used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.

#### 9. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 50 lb.-roll roofing in the valley. Nail the felt only where necessary to hold it in place and then only nail the outside edges.

**IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.**

- Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

- Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

- To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

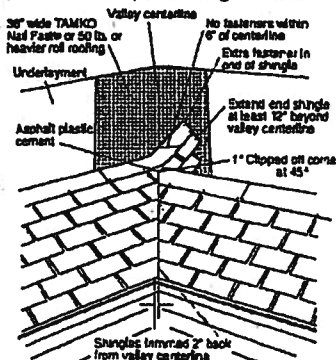
Note: For a neater installation, snap a chalkline over the shingles for guidance.

- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

- **CAUTION:** Adhesive must be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



(Continued)

Visit Our Web Site at  
[www.tamko.com](http://www.tamko.com)

Central District  
Northeast District  
Southeast District  
Southwest District  
Western District

220 West 4th St., Joplin, MO 64801  
4500 Tamko Dr., Frederick, MD 21701  
2300 35th St., Tuscaloosa, AL 35401  
7910 S. Central Exp., Dallas, TX 75216  
5300 East 43rd Ave., Denver, CO 80216

800-641-4691  
800-368-2055  
800-228-2656  
800-443-1834  
800-530-8868

07/01



(CONTINUED from Pg. 3)

- Glass-Seal
  - Glass-Seal AR
  - Elite Glass-Seal®
  - Elite Glass-Seal® AR
- THREE-TAB ASPHALT SHINGLES**

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.

#### 10. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and 1 in. up from the edge. Do not nail directly into the sealant.

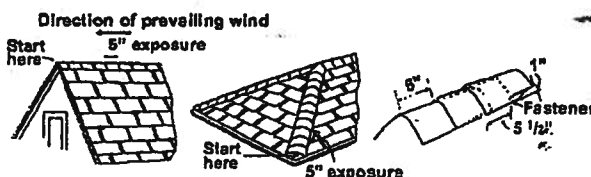
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

**NOTE:** AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite Glass-Seal AR shingles.

Fasteners should be 1/4 in. longer than the one used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES IN COOL WEATHER.

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.



THIS PRODUCT IS COVERED BY A LIMITED WARRANTY. THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

#### IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

In this paragraph "You" and "Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper; or (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

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[www.tamko.com](http://www.tamko.com)

Central District	220 West 4th St., Joplin, MO 64801	800-641-4691
Northeast District	4500 Tamko Dr., Frederick, MD 21701	800-368-2055
Southeast District	2300 35th St., Tuscaloosa, AL 35401	800-228-2658
Southwest District	7910 S. Central Exp., Dallas, TX 75216	800-443-1834
Western District	5300 East 43rd Ave., Denver, CO 80216	800-530-8868

07/01



Permit # 25991

# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 567  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID:1T9R8228Z0310064807

Truss Fabricator: Anderson Truss Company  
Job Identification: 7-180--Stanley Crawford Construc Hillandale Farms -- , \*\*  
Truss Count: 1  
Model Code: Florida Building Code 2004 and 2006 Supplement  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Version 7.25.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
the seal date per section 61G15-31.003(5a) of the FAC  
Address:  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed



Seal Date: 08/10/2007

## 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

-Truss Design Engineer-

James F. Collins Jr.

Florida License Number: 52212

1950 Marley Drive

Haines City, FL 33844

Details: -

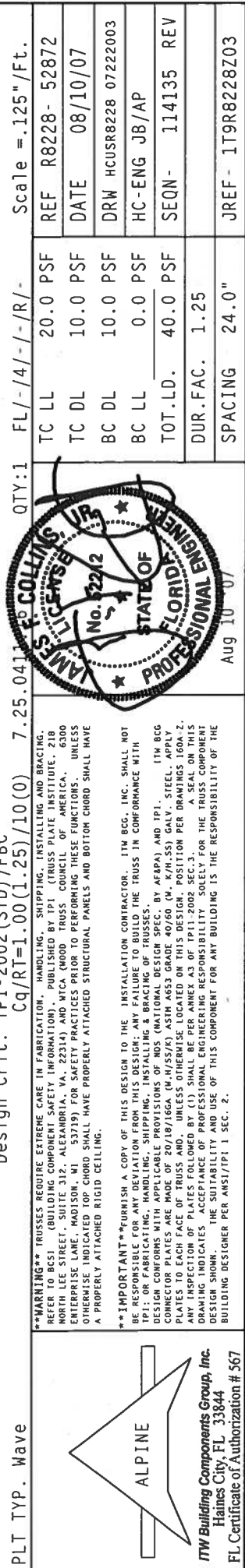
#	Ref	Description	Drawing#	Date
1	52872--H17A		07222003	08/10/07

# ALPINE



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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind 8C DL=5.0 psf.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 567

# COLUMBIA COUNTY OFFICE OF 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 22-2S-16-01714-002

Building permit No. 000025991

Use Classification SFD/UTILITY

Fire: 77.00

Permit Holder WM. STANLEY CRAWFORD

Waste: 201.00

Owner of Building HILLANDALE,LLC

Total: 278.00

Location: 343 NW HILLANDALE GLEN, LAKE CITY, FL



Date: 10/30/2007

*Randy Jones*

Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)



# Notice of Treatment

ADD TO 12615

**Applicator:** Florida Pest Control & Chemical Co. (www.flapest.com)

**Address:** 536 SE BAY AVE

**City** LAKELAND

**Phone** 752-1703

**Site Location:** Subdivision \_\_\_\_\_

**Lot #** \_\_\_\_\_ **Block#** \_\_\_\_\_

**Permit #** 25991

**Address** 343 NW HILLDALE BL

L.C.

STADLEY CRAWFORD

## 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**

Dwelling

2680.5

227

7 GALS

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 \_\_\_\_\_.

7-31-07

Date

7:55

Time

F299

Print Technician's Name

Remarks: \_\_\_\_\_

Applicator - White

Permit File - Canary

Permit Holder - Pink

# Notice of Treatment

12615

Applicator: **Florida Pest Control & Chemical Co. (www.flapest.com)**

Address: 536 SE BAY AVE

City LAKE CITY

Phone 752-1703

Site Location: Subdivision

Lot #

Block#

Permit #

STANLEY CANTARD

25991

Address 343 NW Hillardale Ave

## 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

Dwelling

2680

281

215 gals

Porches

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 \_\_\_\_\_.

7-11-07

Date

11:40

Time

F299

Print Technician's Name

Remarks: \_\_\_\_\_

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



Date

Title

Rd.

Hillside  
Bldg.

100'

Prop.

← 229' →

← 179' →

116

← 100' →

220

Priorities

150  
Co