

DATE 05/02/2007

# Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025763

APPLICANT MARY ANN CRAWFORD PHONE 752-5152  
ADDRESS 853 SW SISTERS WELCOME RD LAKE CITY FL 32025  
OWNER RICHARD GOTSHALL PHONE 854 981-7663  
ADDRESS 632 SW CATHERINE LANE LAKE CITY FL 32025  
CONTRACTOR STANLEY CRAWFORD PHONE 752-5152  
LOCATION OF PROPERTY 41S, TR ON CATHERINE LANE, ONE MILE ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 92000.00  
HEATED FLOOR AREA 1840.00 TOTAL AREA 2680.00 HEIGHT 1 STORIES 1  
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB  
LAND USE & ZONING A-3 MAX. HEIGHT 20  
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 22-5S-17-09329-001 SUBDIVISION  
LOT BLOCK PHASE UNIT TOTAL ACRES 2.32

000001375 RG0042896  
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor  
CULVERT 07-0336-N BK JH Y  
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ALTERNATE TEMITE TREATMENT RECEIVED, ONE FOOT ABOVE THE ROAD,

2.3.1 LEGAL NON-CONFORMING LOT OF RECORD/DIVIDED BY COUNTY RD

Check # or Cash 1300

## 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 \$ 25.00 TOTAL FEE 586.80  
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 INCONVENIENCE, 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 # 0704-59 Date Received 4-25-07 By CH Permit # 1375/2570  
 Application Approved by - Zoning Official BLK Date 01.05.07 Plans Examiner OKJTH Date 7-26-07  
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3  
 Comments Alternate Termite Section 2.3.1 Legal Non-Conforming Lot of Record + Divided by County Rd.  
☐ NOC ☒ EH ☐ Deed or PA ☐ Site Plan 1st above Rd ☐ State Road Info ☐ Parent Parcel # ☐ Development Per

Name Authorized Person Signing Permit Mary Ann Crawford Fax \_\_\_\_\_  
 Address 853 SW Sisters Welcome Rd. Lake City FL 32025 Phone (386) 752-5152  
 Owners Name Richard Gotshall Phone (954) 981-7643  
 911 Address 632 SW Catherine Lane Lake City FL 32025  
 Contractors Name Stanley Crawford Construction Phone (386) 752-2152  
 Address 853 SW Sisters Welcome Rd.  
 Fee Simple Owner Name & Address \_\_\_\_\_  
 Bonding Co. Name & Address \_\_\_\_\_  
 Architect/Engineer Name & Address Mark Disosway PO Box 8068 Lake City, FL 32025  
 Mortgage Lenders Name & Address N/A

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Ener  
 Property ID Number 2255-17-09329-001 Estimated Cost of Construction 140,000.00  
 Subdivision Name \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_  
 Driving Directions Highway 41 South, TR on Catherine Lane, approximately one mile on left

Type of Construction residential SFD Number of Existing Dwellings on Property 0  
 Total Acreage 2.32 Lot Size \_\_\_\_\_ Do you need a Culvert Permit or Culvert Waiver or Have an Existing Dr  
 Actual Distance of Structure from Property Lines - Front 30' Side 44' Side 30' Rear 168'  
 Total Building Height 20' 3/4" Number of Stories 1 Heated Floor Area 1840.8sf 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 by Notarized Letter

STATE OF FLORIDA  
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
 this 25th day of April 2007.  
 Personally known ☒ or Produced Identification \_\_\_\_\_

Stanley Crawford  
 Contractor Signature  
 Contractors License Number RG-0042896  
 Competency Card Number 5627  
 NOTARY STAMP/SEAL

Janet L. Cheek  
 Notary Signature



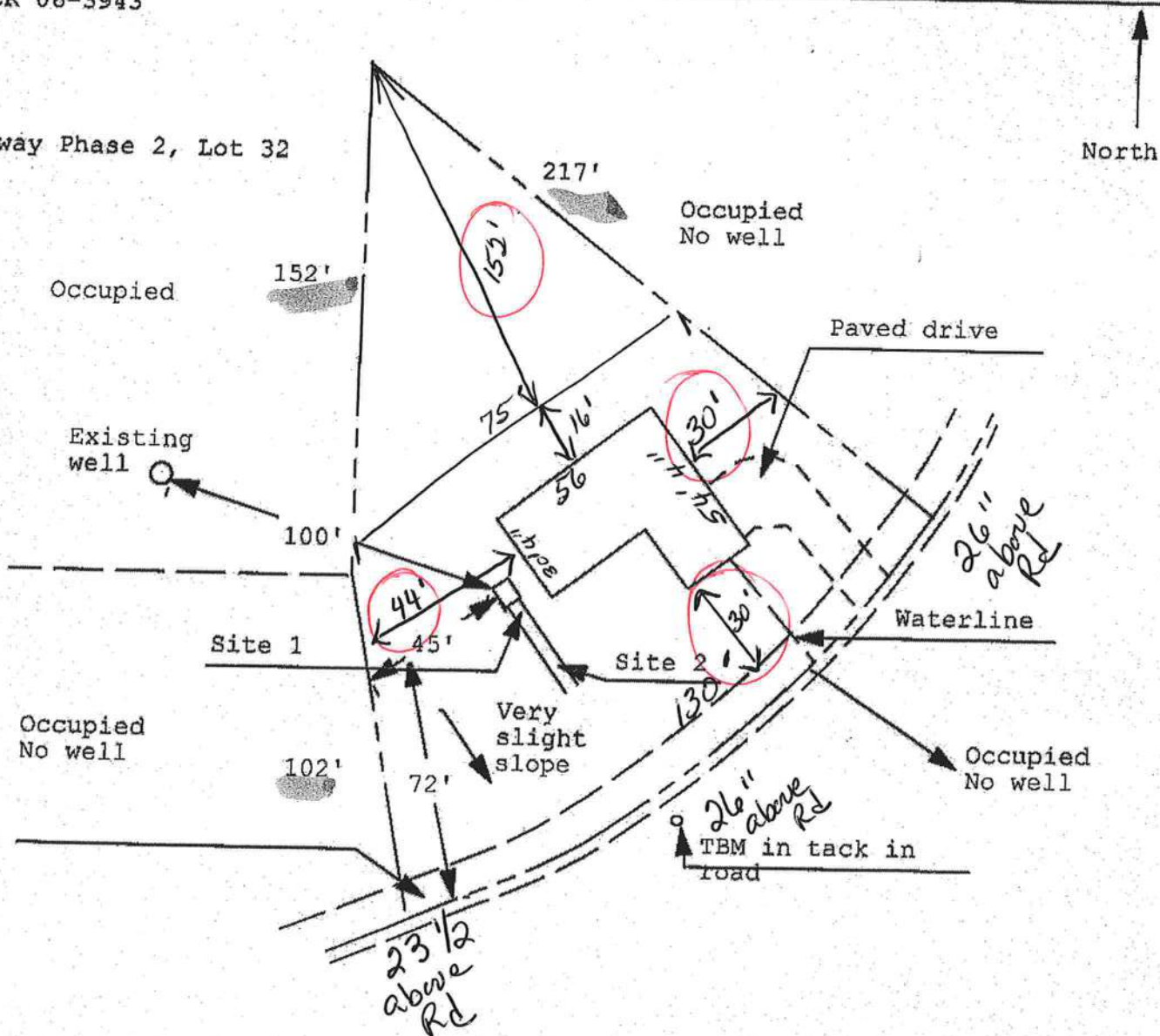
# Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: \_\_\_\_\_

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UN.

BORER/CR 06-3943

Callaway Phase 2, Lot 32



1 inch = 50 feet

Site Plan Submitted By Paul L. [Signature] Date 4/9/07  
 Plan Approved \_\_\_\_\_ Not Approved \_\_\_\_\_ Date \_\_\_\_\_

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

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

PREPARED BY & RETURN TO:

Name: Brenda Styons, an employee of  
TITLE OFFICES, LLC  
Address: 1089 SW MAIN BLVD.  
LAKE CITY, FLORIDA 32025  
File No. 06Y-09052BBS

Parcel No.: 09329-001

Inst:2006027206 Date:11/16/2006 Time:10:04

Doc Stamp-Deed : 315.00

DC, P. Dewitt Cason, Columbia County B:1102 P:564

SPACE ABOVE THIS LINE FOR PROCESSING DATA

This **WARRANTY DEED**, made the 8th day of November, 2006, by a **SINGLE PERSON**,

**LORI JACOBS**, hereinafter called the Grantor, to

**LARRY WILMOTH**, AN UNMARRIED PERSON, and **RICHARD GOTSHALL**, a **MARRIED MAN**,

AS **TENANTS IN COMMON**,

whose post office address is

**1200 HILLCREST CT., HOLLYWOOD, FL 33021**, hereinafter called the Grantees:

WITNESSETH: That the Grantor, for and in consideration of the sum of \$10.00 and other valuable consideration, receipt whereof is hereby acknowledged, does hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantees all that certain land situate in County of Columbia, State of Florida, viz:

**BEGIN AT THE SE CORNER OF THE SW 1/4 OF SW 1/4 OF SECTION 22, TOWNSHIP 5 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, AND RUN THENCE S 88°24'11" W, ALONG THE SOUTH LINE OF SAID SW 1/4 OF SW 1/4, 252.69 FEET; THENCE RUN N 14°14'13" W, 13.53 FEET; THENCE N 00°04'56" E, 348.58 FEET TO THE SOUTH RIGHT OF WAY LINE OF A COUNTY MAINTAINED ROAD; THENCE RUN N 66°09'02" E, ALONG SAID SOUTH MAINTAINED RIGHT OF WAY LINE, 272.56 FEET TO THE EAST LINE OF SAID SW 1/4 OF SW 1/4; THENCE RUN S 00°45'21" E, ALONG SAID EAST LINE OF SW 1/4 OF SW 1/4, 464.90 FEET TO THE POINT OF BEGINNING.**

TOGETHER WITH all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.


SUBJECT TO TAXES FOR THE YEAR 2006 AND SUBSEQUENT YEARS, RESTRICTIONS, RESERVATIONS, COVENANTS AND EASEMENTS OF RECORD, IF ANY.

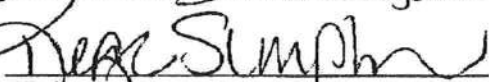
TO HAVE AND TO HOLD the same in fee simple forever.

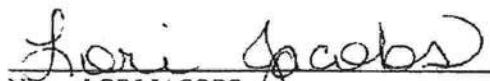
And the Grantor hereby covenants with the Grantees that the Grantor is lawfully seized of said land in fee simple, that the Grantor has good right and lawful authority to sell and convey said land and that the Grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever. Grantor further warrants that said land is free of all encumbrances, except as noted herein and except taxes accruing subsequent to December 31, 2005.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents, the day and year first above written.

Signed, sealed and delivered in the presence of:

  
Witness Signature  
Printed Name: Brenda Styons

  
Witness Signature  
Printed Name: Regina Simpkins

  
Name: LORI JACOBS L.S.  
Address: 632 SW CATHERINE LANE, LAKE CITY, FL 32025



COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 8th day of November, 2008, by LORI JACOBS, who is personally known to me or who has produced drivers license as identification.

BRENDA STYONS  
NOTARY PUBLIC-STATE OF FLORIDA  
COMMISSION #287986  
MY COMMISSION EXPIRES FEB. 5, 2009

Brenda Styons  
Signature of Notary

Printed Name:

My commission expires:

## Lynch Well Drilling, Inc.

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

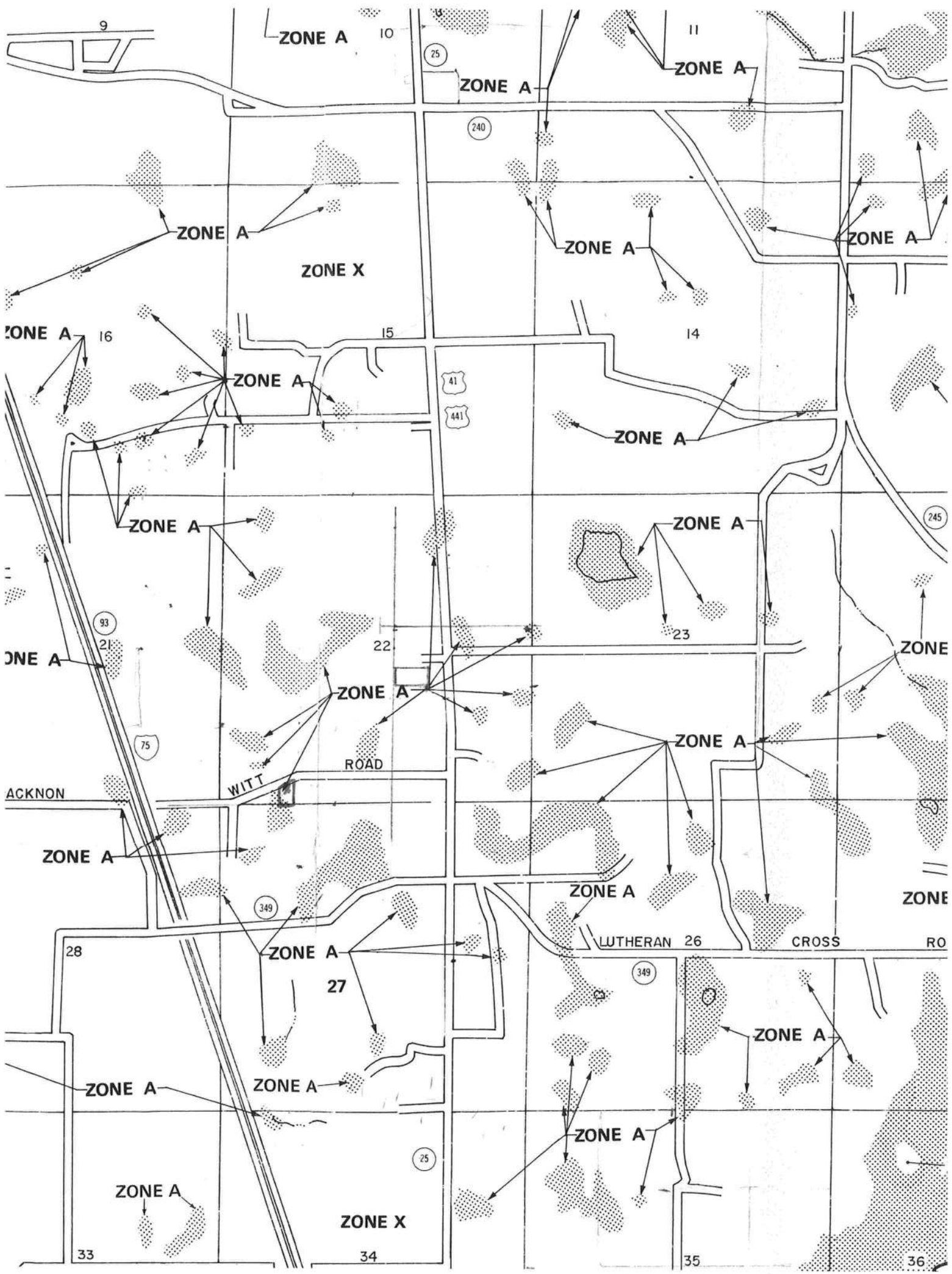
License Number

Linda Newcomb  
Print Name

4/12/07

Date

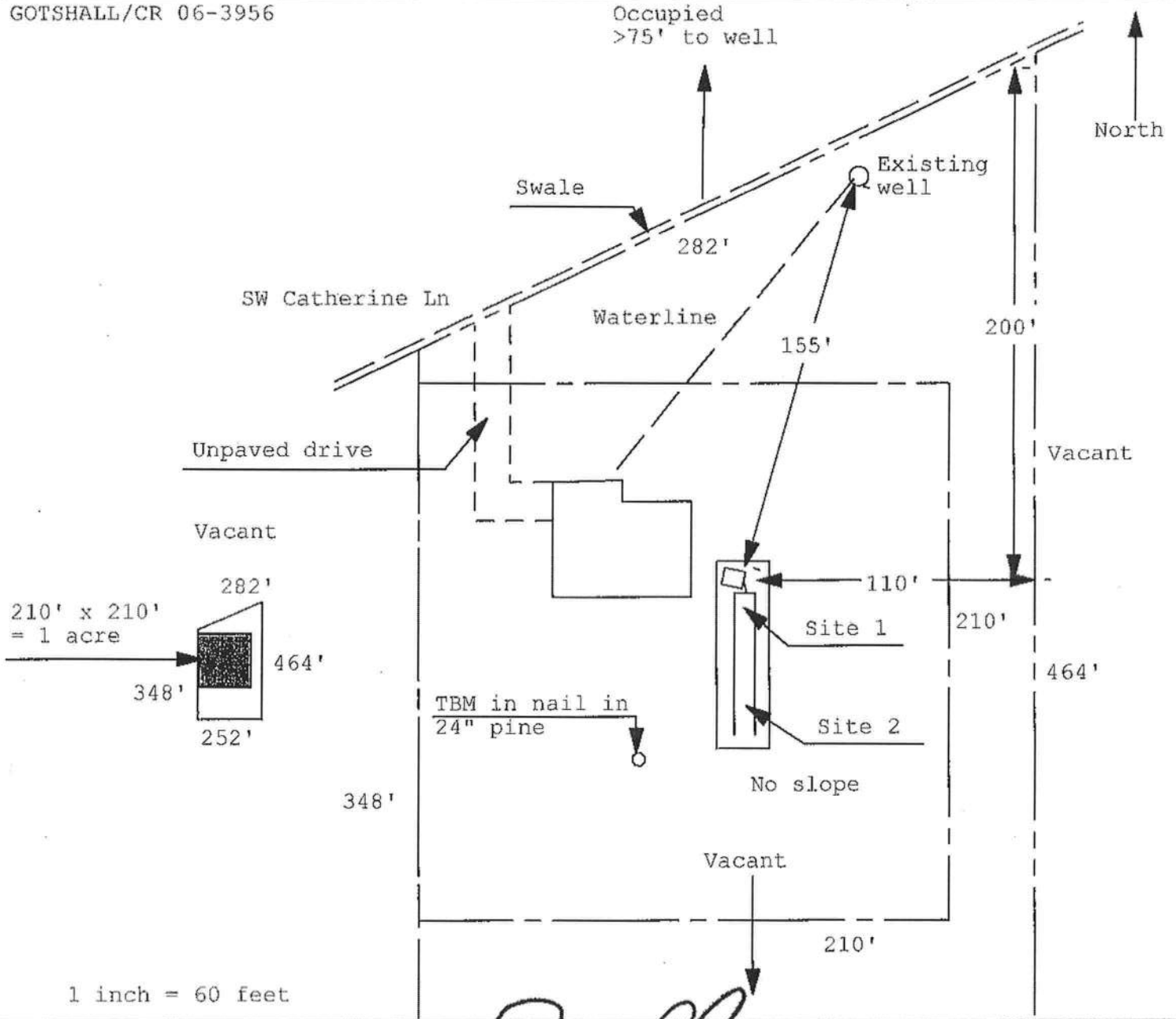




Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan  
Permit Application Number: 07-0336-N

**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT**

GOTSHALL/CR 06-3956



Site Plan Submitted By Paul Lopez Date 4/18/07  
Plan Approved ☒ Not Approved ☐ Date 4/20/07  
By Mr. A. L. L. Columbia CPHU

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



FORM 500A-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>GOTSHALL</b>	Builder: <b>STANLEY CRAWFORD</b>
Address:	Permitting Office: <b>Columbia</b>
City, State:	Permit Number: <b>25763</b>
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: 7.70</b>
(or Single or Double DEFAULT) 7a. (Dble Default) 245.0 ft²	b. N/A
b. SHGC:	c. N/A
(or Clear or Tint DEFAULT) 7b. (Clear) 245.0 ft²	14. Hot water systems
8. Floor types	a. Electric Resistance <b>Cap: 50.0 gallons</b>
a. Slab-On-Grade Edge Insulation <b>R-0.0, 220.0(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, 1152.0 ft²</b>	DHP-Dedicated heat pump)
b. Frame, Wood, Adjacent <b>R-13.0, 266.0 ft²</b>	15. HVAC credits
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. N/A	
c. N/A	
11. Ducts	
a. Sup: Unc. Ret: Unc. AH: Garage <b>Sup. R-6.0, 288.0 ft</b>	
b. N/A	

Glass/Floor Area: 0.13

Total as-built points: 24901

Total base points: 24920

**PASS**

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

PREPARED BY: \_\_\_\_\_

DATE: **4-2-07**

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 2&4.

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 Ornt Len Hgt			Area X SPM X SOF = Points			
.18	1840.0	18.59	5167.0	1.Double, Clear	E	2.0	6.0	71.0	42.08	0.85	2532.0
				2.Double, Clear	W	2.0	6.0	112.0	38.52	0.85	3664.0
				3.Double, Clear	S	2.0	6.0	22.0	35.87	0.78	612.0
				4.Double, Clear	N	2.0	6.0	40.0	19.20	0.90	691.0
				As-Built Total:			246.0			7499.0	
WALL TYPES				Area X BSPM = Points		Type	R-Value	Area X SPM = Points			
Adjacent	286.0	0.70	186.2	1. Frame, Wood, Exterior			13.0	1152.0	1.50	1728.0	
Exterior	1152.0	1.70	1958.4	2. Frame, Wood, Adjacent			13.0	286.0	0.60	159.5	
Base Total:		1418.0	2144.6	As-Built Total:				1418.0	1887.8		
DOOR TYPES				Area X BSPM = Points		Type	Area X SPM = Points				
Adjacent	18.0	2.40	43.2	1. Exterior Insulated				60.0	4.10	246.0	
Exterior	60.0	6.10	366.0	2. Adjacent Insulated				18.0	1.60	28.8	
Base Total:		78.0	409.2	As-Built Total:				78.0	274.8		
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	
Base Total:		1840.0	3183.2	As-Built Total:				1840.0	3183.2		
FLOOR TYPES				Area X BSPM = Points		Type	R-Value	Area X SPM = Points			
Slab	220.0(p)	-37.0	-8140.0	1. Slab-On-Grade Edge Insulation			0.0	220.0(p)	-41.20	-9084.0	
Raised	0.0	0.00	0.0								
Base Total:			-8140.0	As-Built Total:				220.0	-9084.0		
INFILTRATION				Area X BSPM = Points		Area X SPM = Points					
		1840.0	10.21	18786.4				1840.0	10.21	18786.4	



FORM 600A-2004R

EnergyGauge® 4.5

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 22540.4			Summer As-Built Points: 22567.0					
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
22540.4	0.3250	7325.6	22567.0	1.00	1.250	0.260	1.000	7335.6

(sys 1: Central Unit 36000Btu/h, SEER/EFF(13.0) Ducts, Uno(S), Uno(R), Gar(AH), R0.0(INS)

22567 1.00 (1.00 x 1.147 x 1.00) 0.260 1.000 7335.6

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 Omt Len Hgt			Area X WPM X WOF = Point			
.18	1840.0	20.17	6690.0	1.Double, Clear	E	2.0	6.0	71.0	18.79	1.06	1415.0
				2.Double, Clear	W	2.0	6.0	112.0	20.73	1.04	2420.0
				3.Double, Clear	S	2.0	6.0	22.0	13.30	1.26	368.0
				4.Double, Clear	N	2.0	6.0	40.0	24.58	1.00	987.0
				As-Built Total:			245.0			6190.0	
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	266.0	3.60	957.6	1. Frame, Wood, Exterior	13.0			1152.0	3.40	3916.8	
Exterior	1152.0	3.70	4262.4	2. Frame, Wood, Adjacent	13.0			266.0	3.30	877.8	
Base Total:				As-Built Total:			1418.0			4794.6	
DOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	18.0	11.50	207.0	1.Exterior Insulated				60.0	8.40	504.0	
Exterior	60.0	12.30	738.0	2.Adjacent Insulated				18.0	8.00	144.0	
Base Total:				As-Built Total:			78.0			648.0	
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	
Base Total:				As-Built Total:			1840.0			3772.0	
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Slab	220.0(p)	8.9	1958.0	1. Slab-On-Grade Edge Insulation	0.0			220.0(p)	18.80	4136.0	
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:			220.0			4136.0	
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
1840.0 -0.59 -1085.6				1840.0 -0.59 -1085.6							



FORM 600A-2004R

EnergyGauge® 4.5

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE			AS-BUILT					
Winter Base Points: 17489.4			Winter As-Built Points: 17455.0					
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
17489.4	0.5540	9689.1	(sys 1: Electric Heat Pump 35000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 17455.0 1.000 (1.000 x 1.100 x 1.00) 0.443 1.000 9680.0 17455.0 1.00 1.250 0.443 1.000 9660.0					

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									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Multiplier X Ratio	Credit = Total Multiplier
3		2635.00	7905.0	50.0	0.92	3		1.00 2635.00	1.00 7905.0
				As-Built Total:					7905.0

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	+ Hot Water Points = Total Points	Cooling Points	+	Heating Points	+ Hot Water Points = Total Points
7326		9689	7905 24920	7336		9660	7905 24901

PASS



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 joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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

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



# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 84.4**

**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>		
7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 35.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 245.0 ft <sup>2</sup>		HSPF: 7.70
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 245.0 ft <sup>2</sup>	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 220.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.92
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1152.0 ft <sup>2</sup>	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 266.0 ft <sup>2</sup>	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1840.0 ft <sup>2</sup>	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 288.0 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 FIA/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 area, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge<sup>®</sup> (Version: FLRCSB v4.5)

Attention: Weegie

**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No.  
000001375**

DATE 05/02/2007 PARCEL ID # 22-5S-17-09329-001  
APPLICANT MARY ANN CRAWFORD PHONE 752-5152  
ADDRESS 853 SW SISTERS WELCOME RD LAKE CITY FL 32025  
OWNER RICHARD GOTSHALL PHONE 854 981-7663  
ADDRESS 632 SW CATHERINE LANE LAKE CITY FL 32025  
CONTRACTOR STANLEY CRAWFORD PHONE 752-5152  
LOCATION OF PROPERTY 41S, TR ON CATHERINE LANE, ONE MILE ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT \_\_\_\_\_

SIGNATURE

*Mary Ann Crawford*

**INSTALLATION REQUIREMENTS**



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

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
- b) the driveway to be served will be paved or formed with concrete.

Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other \_\_\_\_\_



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

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

**Amount Paid 25.00**



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

Inst:2007009886 Date:05/02/2007 Time:15:23  
1.4 DC, P. DeWitt Cason, Columbia County B:1118 P:31

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

TAX FOLIO NO.: \_\_\_\_\_

### 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 Attached Description - Addendum

2. General description of improvement: Construction of Dwelling

3. Owner information:

Name and address: Larry Wilmoth and Richard Gotshall  
1200 Hillcrest Court  
Hollywood, FL 33021

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 \_\_\_\_\_ 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).

*Larry J. Wilmoth*  
*Richard B. Gotshall*

The foregoing instrument was acknowledged before me this 13 day of April, 2007, by Larry Wilmoth & Richard Gotshall who are personally known to me and who did not take an oath.

Notary Public  
My Commission Expires: \_\_\_\_\_

*Michele S. Martinez*  
Michele S. Martinez  
Commission # DD299018  
Expires April 2, 2008

Bonded by F&M Insurance, Inc. 800-365-7019



## Addendum

Inst:2007009886 Date:05/02/2007 Time:15:23

57 DC, P. DeWitt Cason, Columbia County B:1118 P:314

BEGIN AT THE SE CORNER OF THE SW  $\frac{1}{4}$  OF SW  $\frac{1}{4}$  OF SECTION 22, TOWNSHIP 5 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, AND RUN THENCE S  $88^{\circ}24'11''$  W, ALONG THE SOUTH LINE OF SAID SW  $\frac{1}{4}$  OF SW  $\frac{1}{4}$ , 252.69 FEET; THENCE RUN N  $14^{\circ}14'13''$  W, 13.53 FEET; THENCE N  $00^{\circ}04'56''$  E, 348.58 FEET TO THE SOUTH RIGHT OF WAY LINE OF A COUNTY MAINTAINED ROAD; THENCE RUN N  $66^{\circ}09'02''$  E, ALONG SAID SOUTH MAINTAINED RIGHT OF WAY LINE, 272.56 FEET TO THE EAST LINE OF SAID SW  $\frac{1}{4}$  OF SW  $\frac{1}{4}$ ; THENCE RUN S  $00^{\circ}45'21''$  E, ALONG SAID EAST LINE OF SW  $\frac{1}{4}$  OF SW  $\frac{1}{4}$ , 464.90 FEET TO THE POINT OF BEGINNING.

Colson

# 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: IT638228Z0102081338

Truss Fabricator: Anderson Truss Company  
Job Identification: 7-104--Stanley Crawford Construc GOTSHALL -- , \*\*  
Truss Count: 46  
Model Code: Florida Building Code 2004 and 2006 Supplement  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Versions 7.24, 7.25.  
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



Seal Date: 04/02/2007

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

#	Ref	Description	Drawing#	Date
1	06748--H7A		07092045	04/02/07
2	06749--H9A		07092023	04/02/07
3	06750--H11A		07092024	04/02/07
4	06751--H13A		07092025	04/02/07
5	06752--H15A		07092026	04/02/07
6	06753--H17A		07092027	04/02/07
7	06754--H19A		07092028	04/02/07
8	06755--HM7A		07092029	04/02/07
9	06756--HM9A		07092030	04/02/07
10	06757--H11AT		07092031	04/02/07
11	06758--H13AT		07092032	04/02/07
12	06759--H15AT		07092033	04/02/07
13	06760--H17AT		07092034	04/02/07
14	06761--H19AT		07092035	04/02/07
15	06762--H21AT		07092036	04/02/07
16	06763--H23AT		07092001	04/02/07
17	06764--HM7B		07092037	04/02/07
18	06765--HM9B		07092038	04/02/07
19	06766--HM11B		07092039	04/02/07
20	06767--H13B		07092002	04/02/07
21	06768--H15B		07092003	04/02/07
22	06769--H17B		07092004	04/02/07
23	06770--H5C		07092040	04/02/07
24	06771--C-1		07092041	04/02/07
25	06772--H3D		07092042	04/02/07
26	06773--D-1		07092043	04/02/07
27	06774--F1		07092005	04/02/07
28	06775--F		07092006	04/02/07
29	06776--FGE		07089001	03/30/07
30	06777--HJ5		07092044	04/02/07
31	06778--HJ7		07092015	04/02/07
32	06779--EJ7		07092007	04/02/07
33	06780--J5		07092008	04/02/07
34	06781--J3		07092009	04/02/07
35	06782--J1		07092016	04/02/07
36	06783--EJ7D		07092010	04/02/07

#	Ref	Description	Drawing#	Date
37	06784--EJ7D1		07092011	04/02/07
38	06785--EJ7GE		07092017	04/02/07
39	06786--EJ7H		07092012	04/02/07
40	06787--EJ7S		07092013	04/02/07
41	06788--HJ3S		07092018	04/02/07
42	06789--EJ3S		07092014	04/02/07
43	06790--CJ1S		07092019	04/02/07
44	06791--H21AP		07092020	04/02/07
45	06792--H23AP		07092021	04/02/07
46	06793--AP		07092022	04/02/07





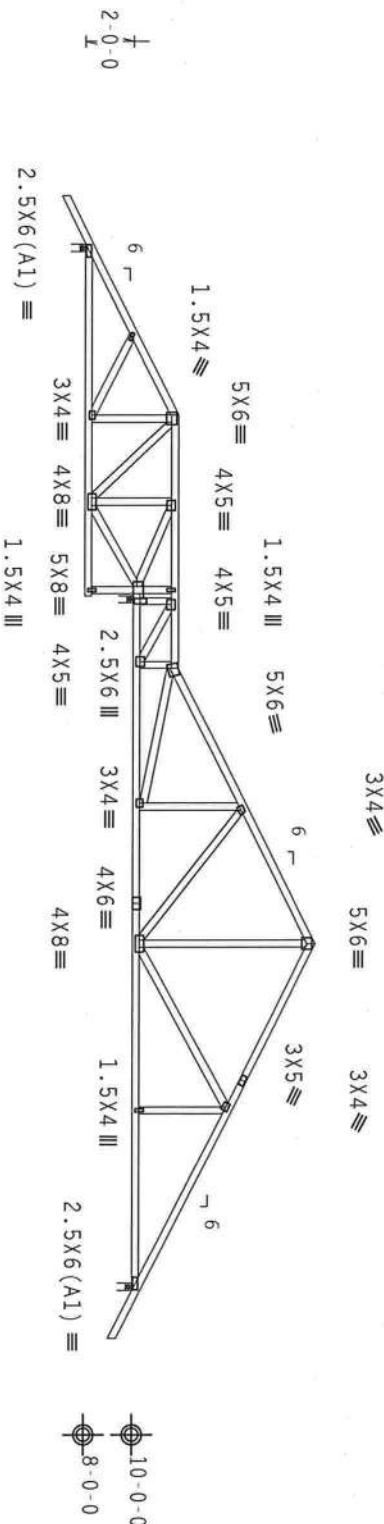


110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf 1w=1.00 gcpi (+/-)-0.18

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)	
TC	From	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 17.40
TC	From	62 PLF at 17.40	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
BC	431 LB Conc.	Load at	7.00
BC	77 LB Conc.	Load at	9.06, 11.06, 13.06



Elevation view of the bridge deck. The deck is divided into four spans by three supports. The spans are labeled with their lengths: 14-6-12, 10-4-15, 11-4-0, and 14-4-0. The total length of the bridge is 43-1-0. The bridge is supported by three supports, with the first and last supports labeled R=1225 U=180 W=3.5. The middle support is labeled R=3010 U=359 W=3.5. The bridge is shown with a top view of the deck and a side view of the supports.

PLT TYP. Wave

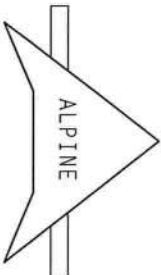
Design Crit: TPI-2002(STD)/FBC

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

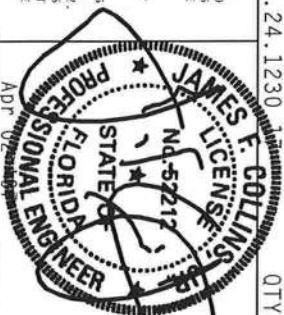
7.24.1230

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

Scale = .125" / Ft.



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



TC LL	20.0 PSF	REF	R8228- 6748
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092045
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9899
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228Z01

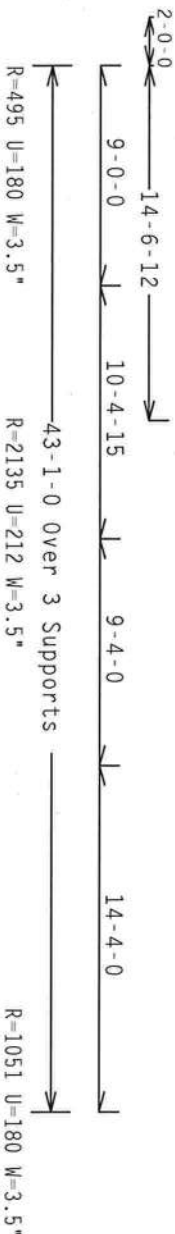
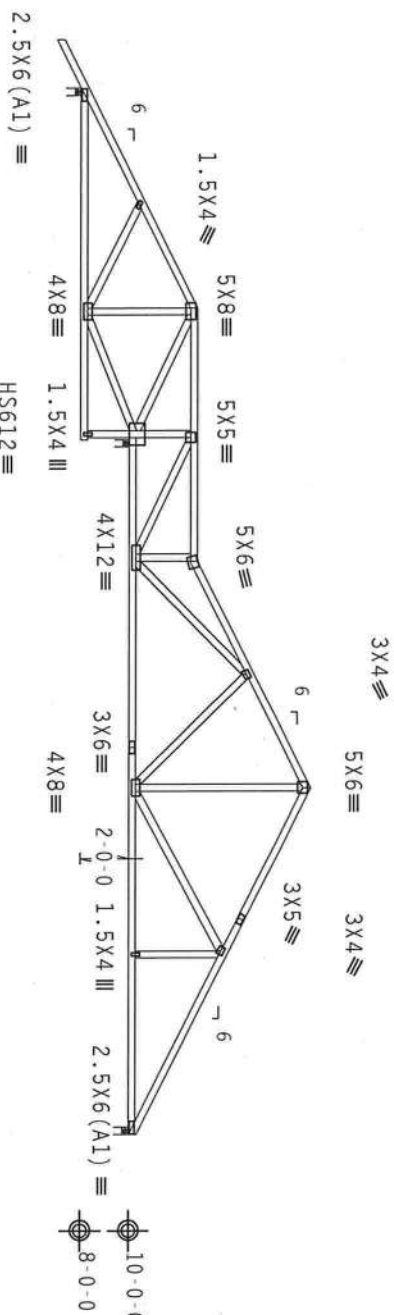
TOP CHORD 2x4 SP #2 UENSE  
BOT CHORD 2x4 SP #2 DENSE  
WEBS 2x4 SP #3

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 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 GCPI(+/-)-0.18

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 Crtt: TPI-2002(STD)/FBC

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

7.24.1230.17

QTY: 1

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

Scale = .125"/ft.

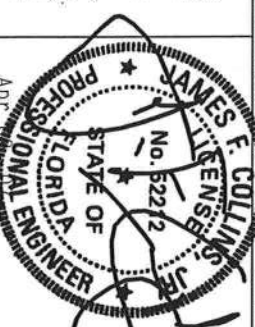
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 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. TPI BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. TPI BCG CONNECTION PLATES ARE MADE OF 20/10/100A (U, V/S/S) ASTM A663 GRADE 40/60 (U, R/21/55) GALV. STEEL. APPLY TO ALL TRUSS MEMBERS. ALL TRUSS MEMBERS SHALL BE PERMANENTLY MARKED WITH TPI IDENTIFICATION. ANY INSPECTION OF PLATES FOLLOWED BY (1) TPI BCG, SECTION PER DRAWINGS 1601-2, 1601-3, 1601-4, 1601-5, 1601-6, 1601-7, 1601-8, 1601-9, 1601-10, 1601-11, 1601-12, 1601-13, 1601-14, 1601-15, 1601-16, 1601-17, 1601-18, 1601-19, 1601-20, 1601-21, 1601-22, 1601-23, 1601-24, 1601-25, 1601-26, 1601-27, 1601-28, 1601-29, 1601-30, 1601-31, 1601-32, 1601-33, 1601-34, 1601-35, 1601-36, 1601-37, 1601-38, 1601-39, 1601-40, 1601-41, 1601-42, 1601-43, 1601-44, 1601-45, 1601-46, 1601-47, 1601-48, 1601-49, 1601-50, 1601-51, 1601-52, 1601-53, 1601-54, 1601-55, 1601-56, 1601-57, 1601-58, 1601-59, 1601-60, 1601-61, 1601-62, 1601-63, 1601-64, 1601-65, 1601-66, 1601-67, 1601-68, 1601-69, 1601-70, 1601-71, 1601-72, 1601-73, 1601-74, 1601-75, 1601-76, 1601-77, 1601-78, 1601-79, 1601-80, 1601-81, 1601-82, 1601-83, 1601-84, 1601-85, 1601-86, 1601-87, 1601-88, 1601-89, 1601-90, 1601-91, 1601-92, 1601-93, 1601-94, 1601-95, 1601-96, 1601-97, 1601-98, 1601-99, 1601-100. 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.

ALPINE

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



TC LL	20.0 PSF	REF R8228- 6749
TC-DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCURR8228 07092023
BC LL	0.0 PSF	HC-ENG JB/MHK
TOT.LD.	40.0 PSF	SEQN- 9890
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T638228Z01

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, CLUSED 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 GCpl(+/-)=0.18  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

2'-0" 14'-6"-12" 11'-0" 10'-4"-15" 7'-4" 14'-4" 2'-0"

R=424 U=180 W=3.5" R=2243 U=221 W=3.5" R=1015 U=180 W=3.5"

43'-1-0 Over 3 Supports

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 = .125"/Ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (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, 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. TPC, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. TPC DESIGN TRUSSES ARE MADE OF 20/10/10/40 (K1/SSK) ASTM A501 GRADE 40/60 (K1/2H/SS) GALV. STEEL. APPLY TYPICAL CONNECTIONS OF TPI. ALL CONNECTIONS SHALL BE PER TPI-2002 SECTION PER DESIGNER'S DRAWING INDICATES. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

TC LL	20.0 PSF	REF	R8228- 6750
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCSR8228 07092024
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEON	9882
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T638228201

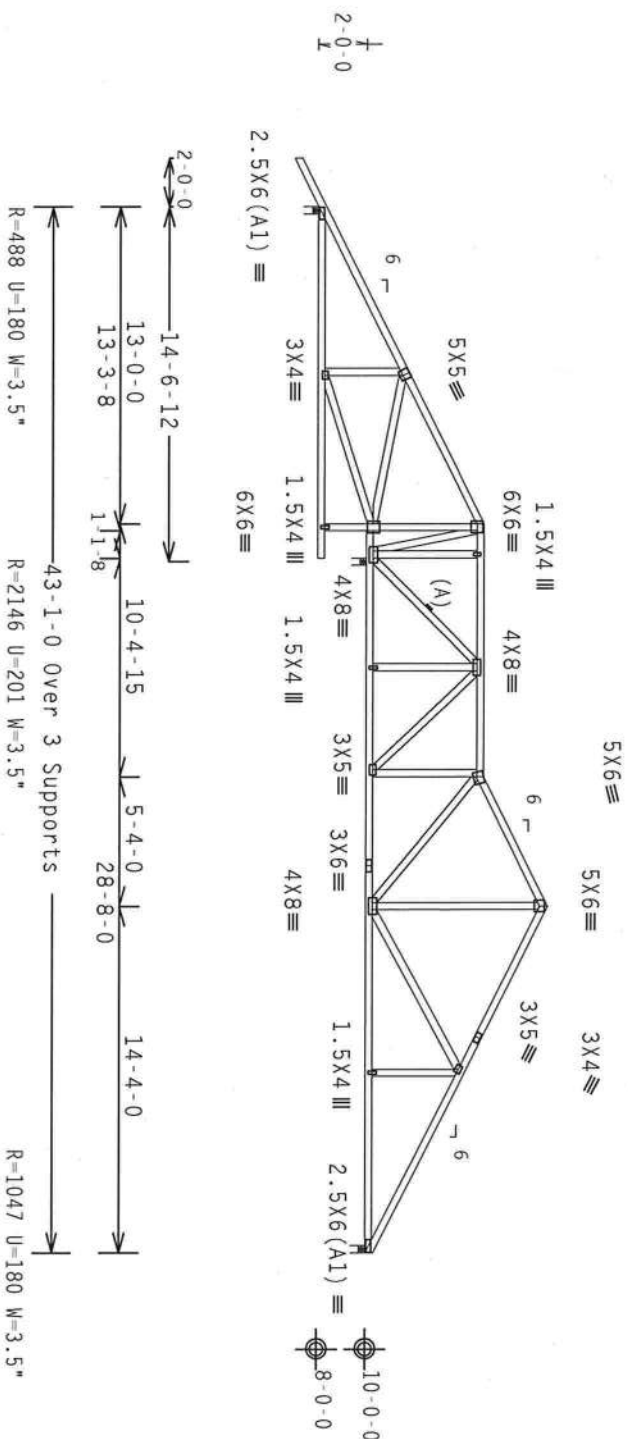
TPW Building Components Group, Inc.  
Haines City, FL 33844  
ET Certificate of Authorization # 567



110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLUSED 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.

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

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

7.24.1230.17

QTY:1

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

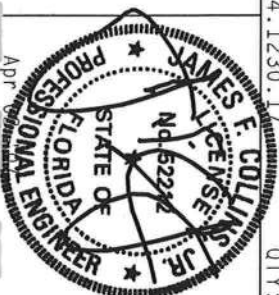
Scale = .125"/Ft.

\*\*\*\*\*WARNING\*\*\*\*\* TRUCKS, ROLLING EXCREMENT CAUSE IN FAMILIATION. HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO 8051 (BUILDING EXCREMENT SAFETY INFORMATION). PUBLISHED BY THE TROSS PAPER INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (600) TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI, 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE OPERATIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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

BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE REQUIREMENTS FOR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI.

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

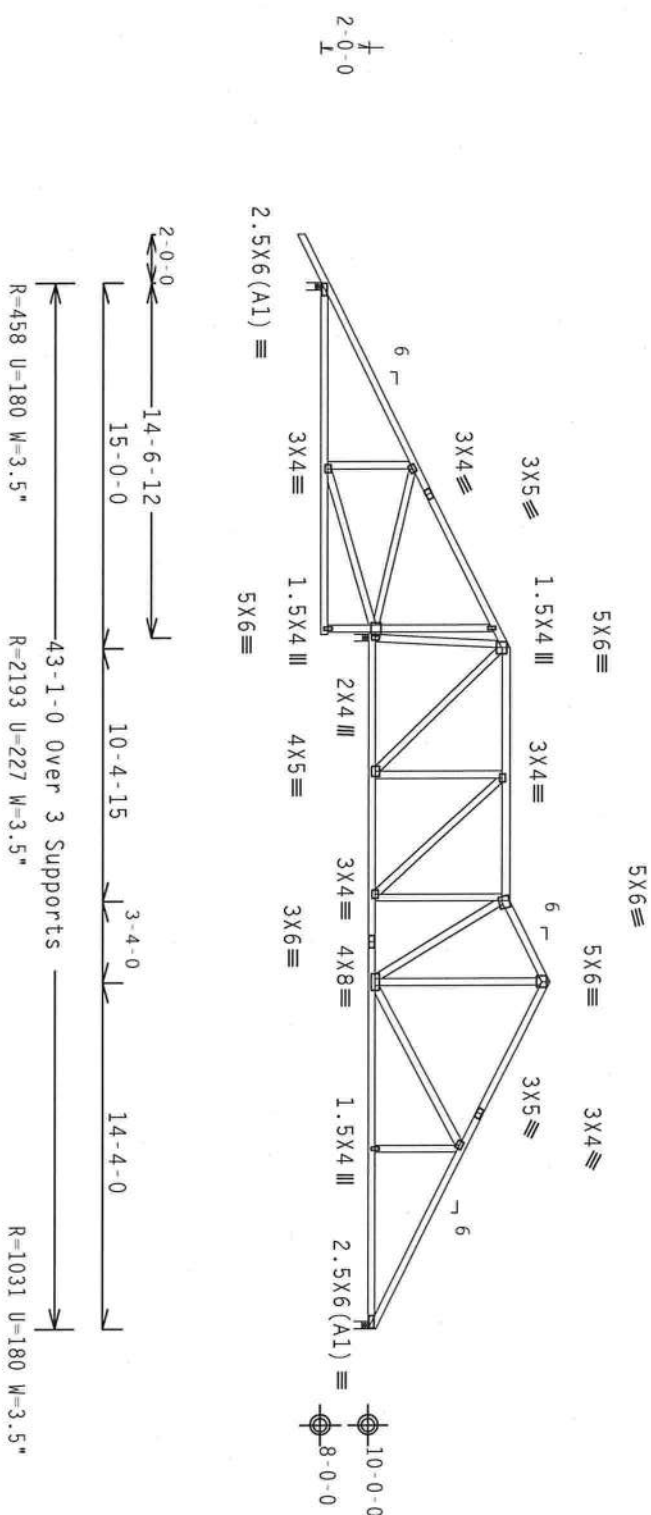


TC LL	20.0 PSF	REF	R8228- 6751
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092025
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9891
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLUSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TD 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.

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.

**"WARNING"** TRIERS, RESIDUE, EXTERNAL CASE, INFORMATION, HANDLING, SHIPPING, INSTALLING, AND BRACING REFER TO DC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE STEEL JOIST INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), 530 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 FOR SAFETY PRACTICES, PRIOR TO DEMOLITION OF AMERICAN ENTERPRISE LANE, MADISON, WI 53719. FOR SAFETY PRACTICES, PRIOR TO DEMOLITION OF THESE STRUCTURES, UNLESS OTHERWISE INDICATED, TWO CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

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

BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN CONFERS WITH THE USER AND NOT THE MANUFACTURER OF THE TRUSS. THE MANUFACTURER OF THE TRUSS SHALL BE RESPONSIBLE FOR THE TRUSS BEING BUILT IN CONFORMANCE WITH THE DESIGN.

DESIGN CONFORMING TO APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC., BY AASHTO) AND IPI. CONNECTOR PLATES ARE MADE OF 20/18/1664 (W./H/SS/K) ASTM A653 GRADE 40/60 (W./K/H/SS) GALV. STEEL. PLATES TO EACH FACE OF BRISLS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 166A-2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-1-2002 SEC.3.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUST COMPONENT

DESIGN SHOW. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.


James F. Collins  
Professional Engineer  
State of Florida  
License No. 12212  
Mechanical Engineering

TC LL	20.0 PSF	REF	R8228 - 6752
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCU8R8228 07092026
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9877
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228701

SPACING

24 "0"

JBEE- 1T638228701

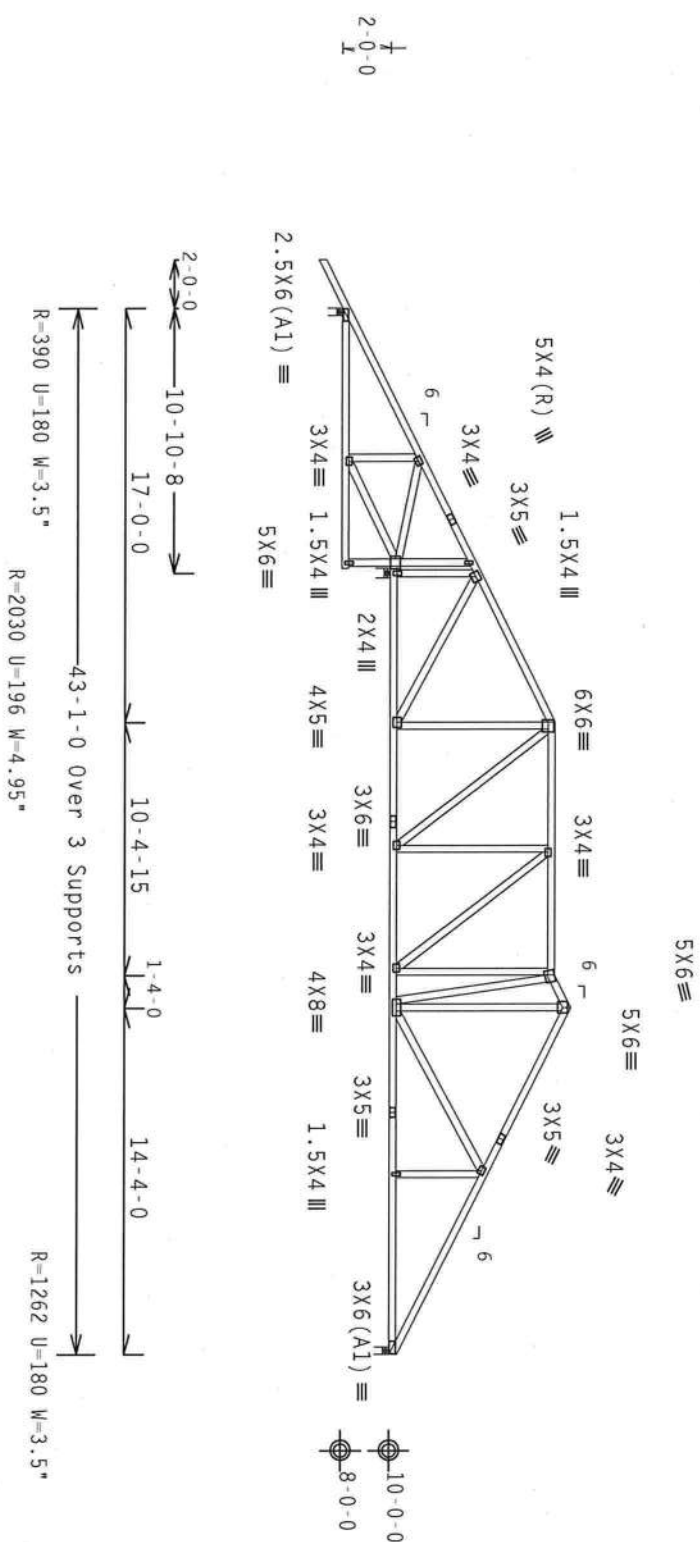


**ITW Building Components Group, Inc.**  
Haines City, FL 33844

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 GCPI (+/-)=0.18

In lieu of structural panels or rigid ceiling use purtins 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.



PLT TYP. Wave

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

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

7.24.1230

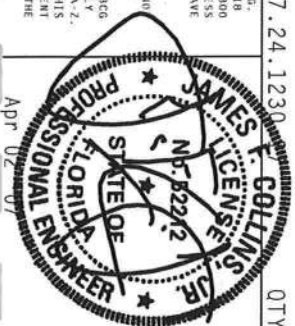
QTY:1 FL/-/4/-/-/R/-

Scale = .125"/Ft.

**WARNING:** \*PRIEST'S TRILES EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND FINISHING REFER TO GC#1 (BUILDING COMPONENT SPECIFICATIONS), PUBLISHED BY THE TRILITE SYSTEMS INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MIDDLETOWN, MI 48319) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
ET Certificate of Authorization # 6267

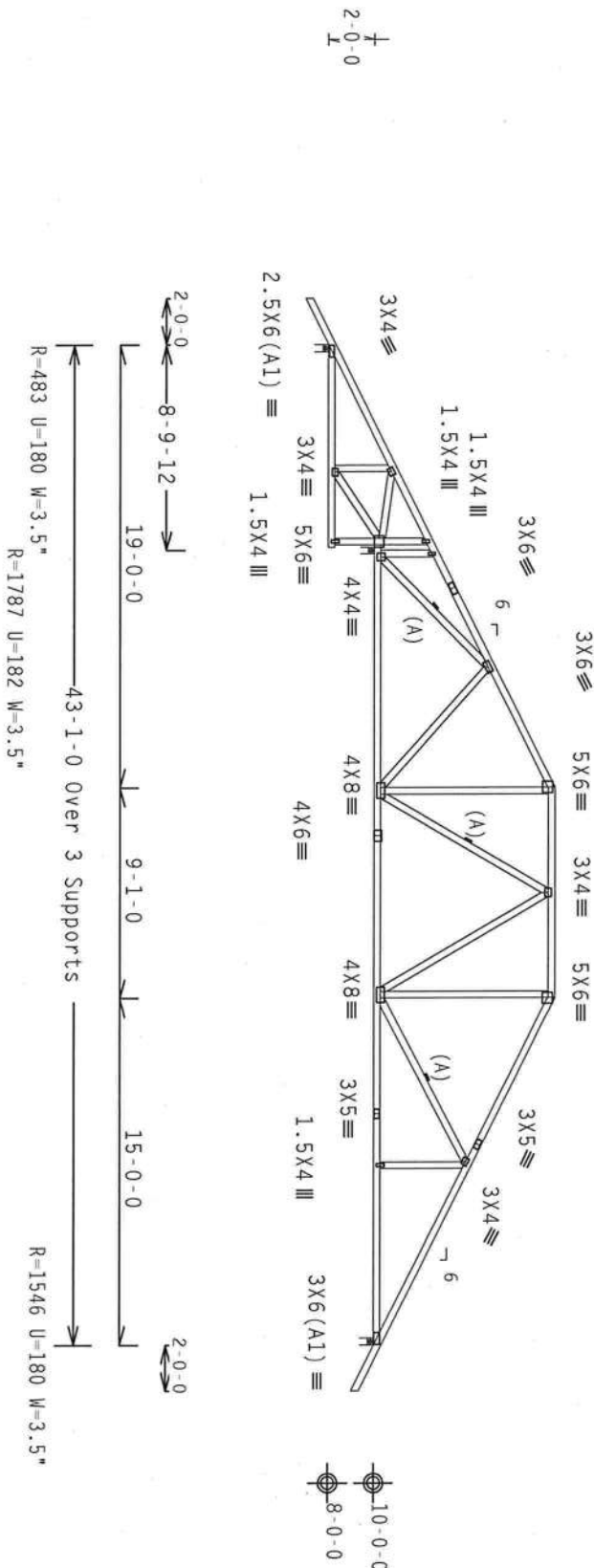


TC LL	20.0 PSF	REF	R8228- 6753
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092027
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9883
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228201

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.

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)

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


7.24.1230

~~QTY: 4~~

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

Scale = .125"/Ft.

**WARNING:** THIS IS A BUILDING COMPONENT SAFETY INFORMATION. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRESS PASTE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD INSTITUTE OF AMERICA, 6300 ENTERPRISE LANE, MONTICELLO, MI, 48159) 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.



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

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

DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AISC) AND TPI-1. THE BCG, INCG, AND CONECTOR PLATES ARE MADE OF 20/18/16GA (U-1/8X5/16) ASTM A653 GRADE 40/50 (H, K/1/8) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

AN INSPECTION OF PLACES FOLLOWED BY (1) SHALL BE PER AISC 3.01 OF TPI-1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE FOR PROFESSIONAL ENGINEERING RESPONSIBILITY OF THE TRUSS COMPONENTS.

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI-1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 6754
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092028
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9875
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228Z01



Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

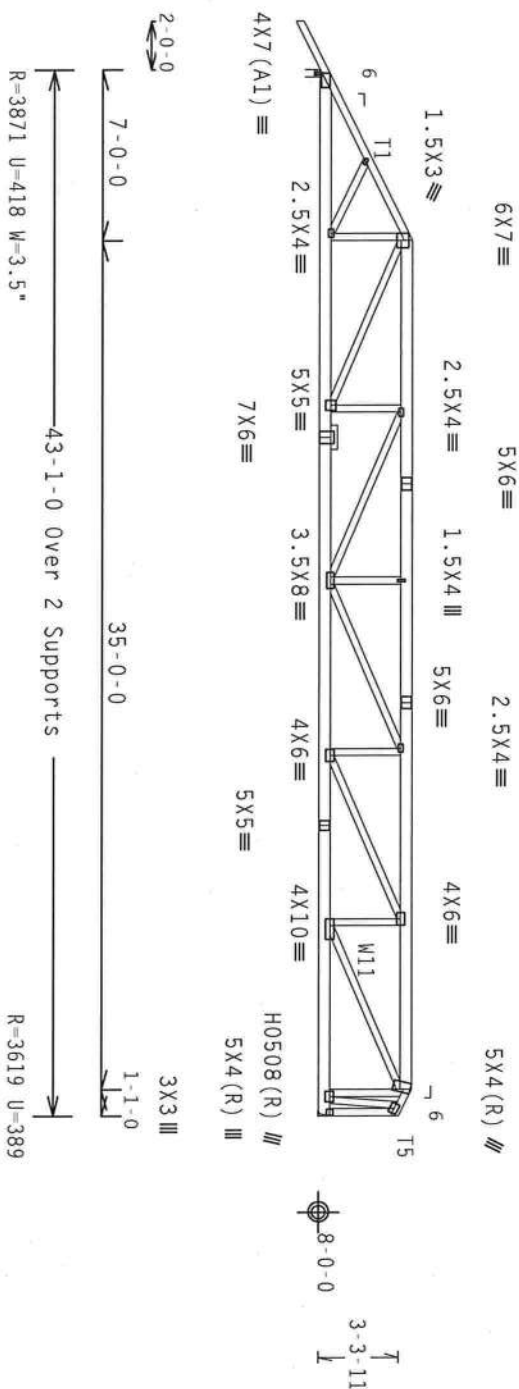
----- (NUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	
TC - From	62 PLF at -2.00 to 62 PLF at 7.00
TC - From	31 PLF at 7.00 to 31 PLF at 42.00
TC - From	62 PLF at 42.00 to 62 PLF at 43.08
BC - From	4 PLF at -2.00 to 4 PLF at 0.00
BC - From	20 PLF at 0.00 to 20 PLF at 7.00
BC - From	10 PLF at 7.00 to 10 PLF at 31.00
BC - From	10 PLF at 31.08 to 10 PLF at 43.08
TC - 433 LB Conc.	Load at 7.00
TC - 182 LB Conc.	Load at 9.00, 11.00, 13.00, 15.00, 17.00
19.00, 21.00, 23.00,	25.00, 27.02, 29.00, 31.00, 33.00, 35.00
37.00, 39.00, 41.00	
BC - 431 LB Conc.	Load at 7.00
BC - 77 LB Conc.	Load at 9.00, 11.00, 13.00, 15.00, 17.00
19.00, 21.00, 23.00,	25.00, 27.00, 29.00, 30.90, 33.00, 35.00
37.00, 39.00, 41.00	

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.

Calculated vertical deflection is 0.41" due to live load and 0.62" due to dead load at  $X = 20\text{-}11\text{-}10$ .



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

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

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

Scale = .125"/Ft.

**WARNING:** FRIGES, REFRIGERATE, EXTREME COLD IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BEST BUILDING COMPONENT CASE INFORMATION. PUBLISHED BY THE CRISS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MICA 6000 TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MALDEN, MA 02148 (508) 219-1100 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE OPERATIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

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

TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W. H/SS/K) ASTM A653 GRADE 40/60 (W. K/H.SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2

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

DESIGN APPROX. THE SUFFICIENCY AND USE OF THIS SUPPLEMENT FOR THE BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

NOVEMBER 06, 09 AM - 11 PM

APR 02 01

411

QTY:


PROFESSIONAL ENGINEER

STATE OF FLORIDA

JAMES F. COLLINS, P.E.

REG. NO. 65212

TC LL	20.0 PSF	REF	R8228- 6755
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092029
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	91332 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228Z01



**ALPINE**

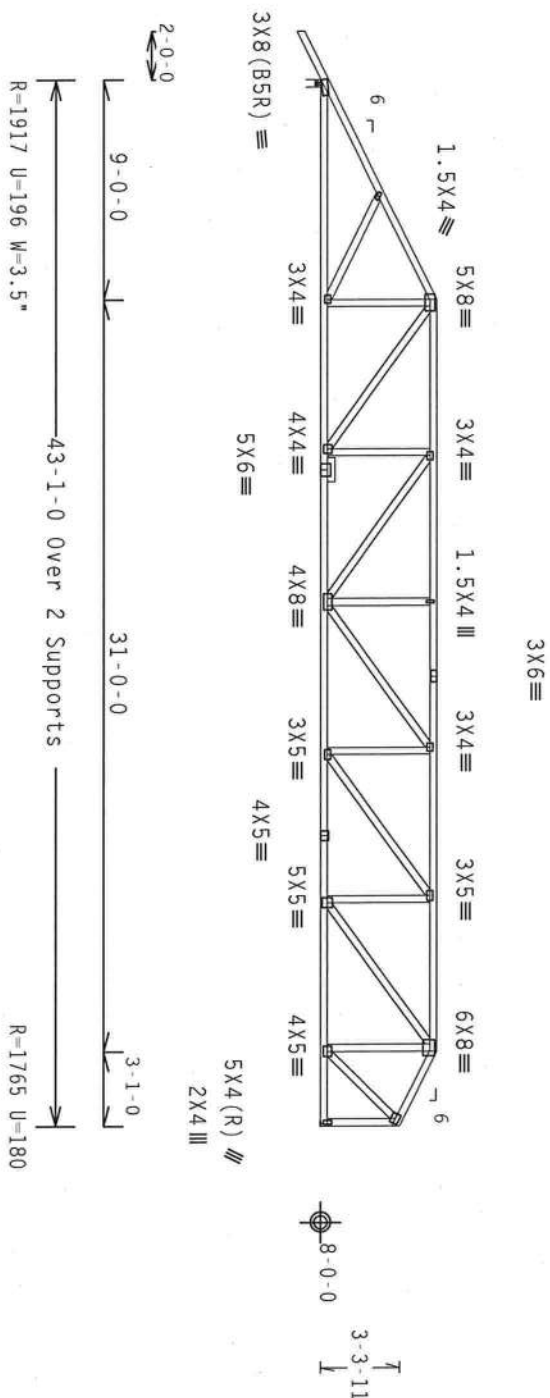
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

110 mph wind, 15.00 TC mean ngf, ASLE +/-02, CLUSTU diag, 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, IW=1.00 Gcpi(+/-)=0.18

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

QTY:1

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

Scale = .125"/Ft.

**WARNING:** FRAMES BUILDING COMPONENTS ARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC-1 (BUILDING COMPONENT SPECIFICATION), PUBLISHED BY FPI (FRUSS PASTE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NICK (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI, 53719) FOR BEST PRACTICES. REFER TO PERFORMANCE TESTS FUNCTIONS, UNLESS OTHERWISE INDICATED. FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED FIELD CEILING.

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

CONSTRUCTION PLATES ARE MADE OF 2018B16G6A ALUMINUM. STEEL  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI.  
TYPICAL FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

ITM BEGG

APPROV

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IT11-2002 SEC.3. A SEAL ON THIS

DESIGN SHOW. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

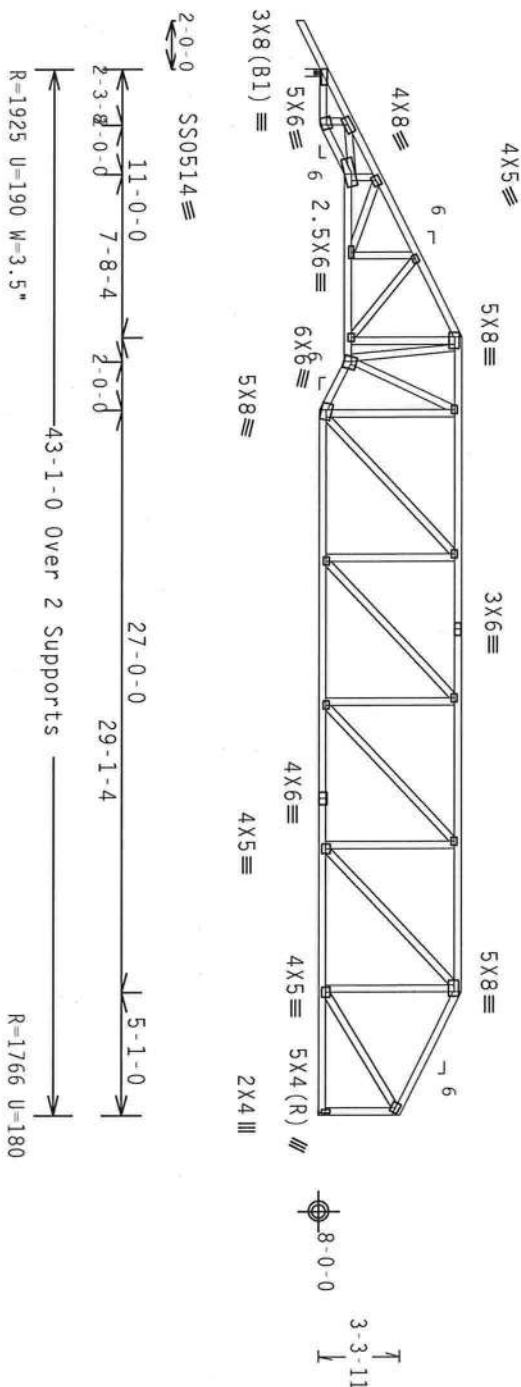
FL / - / 4 / - / K / -		Scale = .125" / ft.
TC LL	20.0 PSF	REF R8228 - 6756
TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCUR8228 07092030
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 9910
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T638228Z01

110 mph wind, 15.00 TC mean hgt, ASCE 7-02, CLUSTU diag, 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 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.

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

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

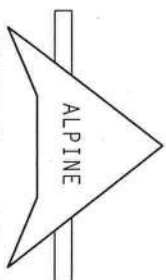
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$$\text{FL} / - / 4 / - / - / R / -$$

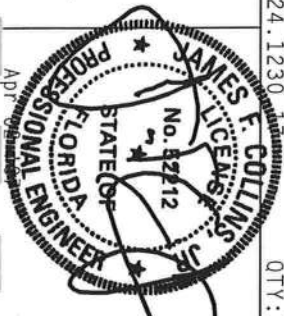
Scale = .125" / Ft.

**\*\*\*WARNING\*\*\*** TRUCKS REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO ACSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TROSS PAIL INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NFCA (WOOD TRUSS COUNCIL OF AMERICA, 65000 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 CELLING.

• **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 TUBS IN CONFORMANCE WITH THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN DECISIONS CONFORMS WITH APPLICABLE PROVISIONS OF MOST NATIONAL DESIGN SPEC. BY AREA AND FPI. THE REQUIRED CONDUCTOR PLATES ARE MADE OF 201/19/1664 (4-H/55/2) ASH AL55 GRADE 40/60 (4-K/1-55) GALV. STEEL, APPLY PLATES TO EACH FACE OF TUBS AND (4-H/55/2) LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 1600-2. THE REQUIRED INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF FPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TUBS COMPONENT BUILDING SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ASH/PTI 1 SEC. 2.



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



TC LL	20.0 PSF	REF	R8228- 6/57
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092031
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9913
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228201

10P chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.13" due to live load and 0.20" due to dead load.

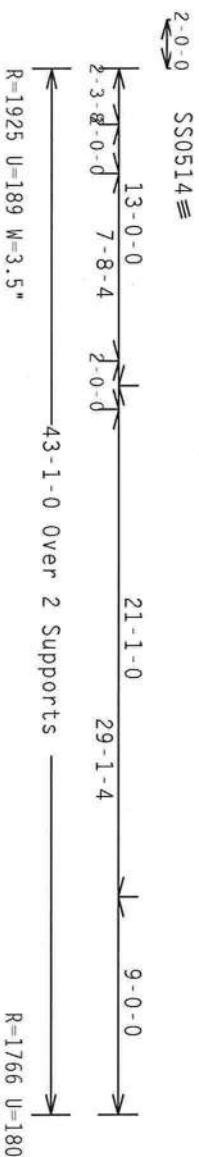
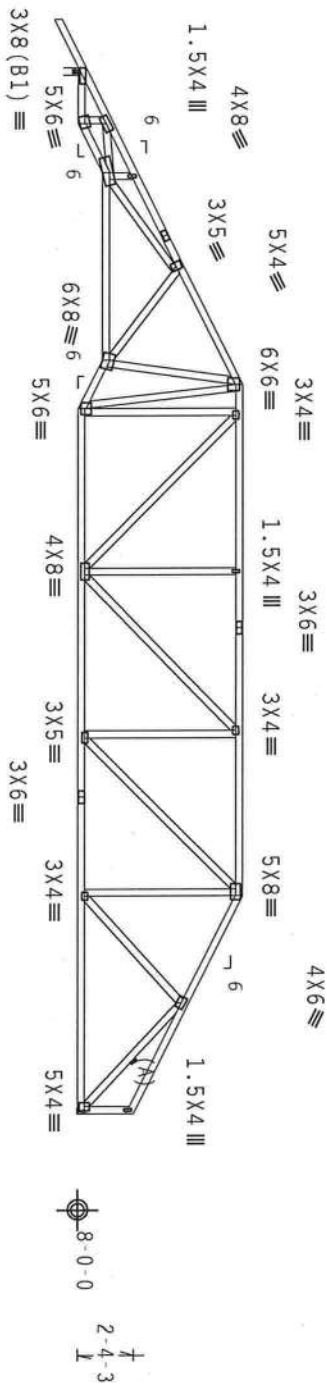
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSUD 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.  $I_w=1.00$  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.



PLT TYP. 18 Gauge HS.Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

QTY:1

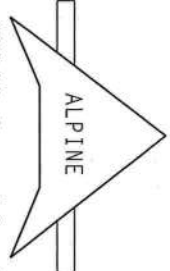
FL/-/4/-/R/-

Scale = .125"/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, 22304) AND WICK CHORD 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.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR WOOD AND TPI. ITW BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. 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.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
www.alpinebuilding.com



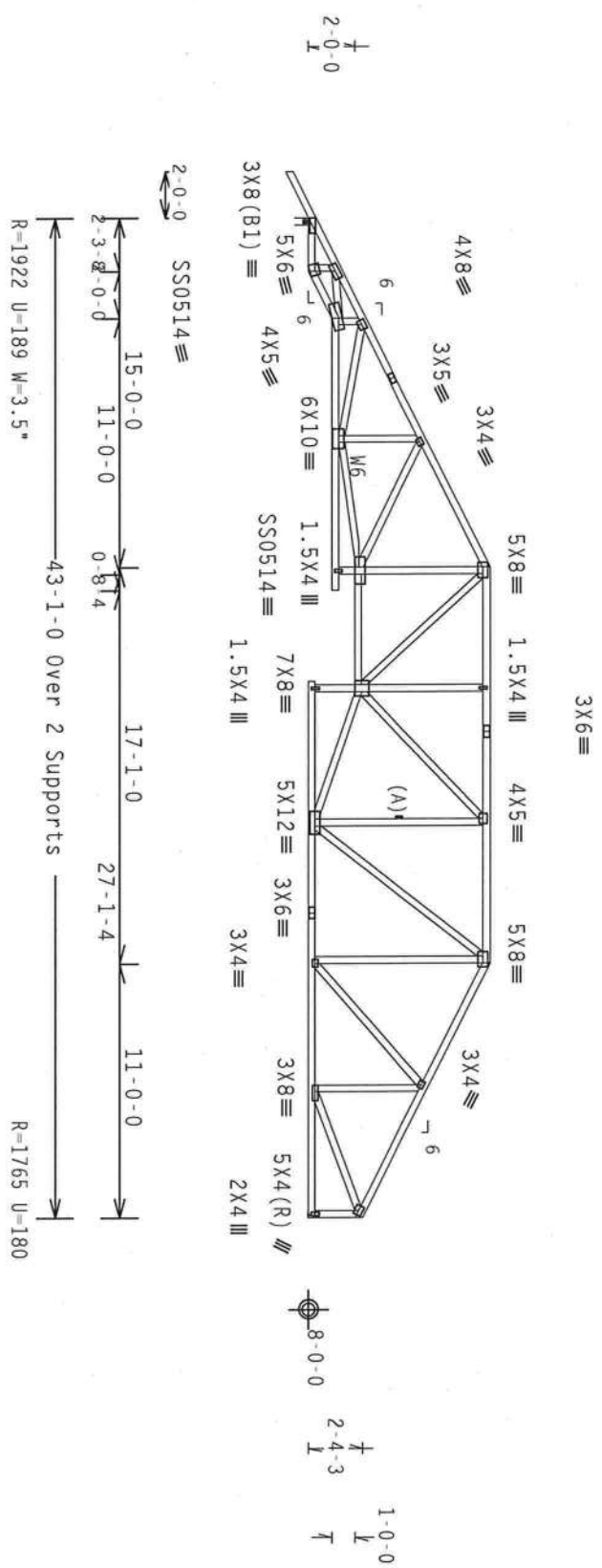
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TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCUR8228 07092032
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 9916
DUR.FAC.	1.25	
SPACING	24.0"	UREF- 1T638228Z01



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 :W6 2x4 SP #2 Dense:

Wind reactions based on MMFRS pressures.  
Calculated horizontal deflection is 0.15" due to live load and 0.23" due to dead load.  
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

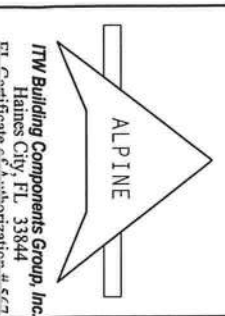
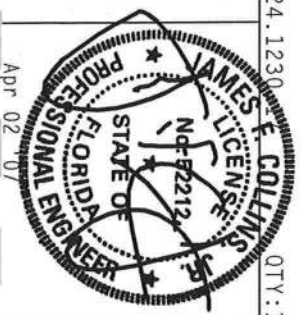
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. IW=1.00 Gcpi(+/-)=0.18  
Right end vertical not exposed to wind pressure.  
(A) Continuous lateral bracing equally spaced on member.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. 18 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 = .125"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 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 A BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOD (NATIONAL DESIGN SPEC. FOR STEEL), TYP. BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/55/5) ASIN A653 GRADE 40/60 (W/ K/H/55) GALV. STEEL. APPLY PLATES TO EACH END OF TRUSS AND, UNLESS OTHERWISE SPECIFIED ON THIS DESIGN, POSITION PER DRAWINGS T60A-Z. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN FEET AND INCHES. THE TRUSS COMPONENTS ARE 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.



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

TC LL	20.0 PSF	REF	R8228- 6759
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092033
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9919
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228Z01

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 :W6 2x4 SP #2 Dense:

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.14" due to live load and 0.23" due to dead load.

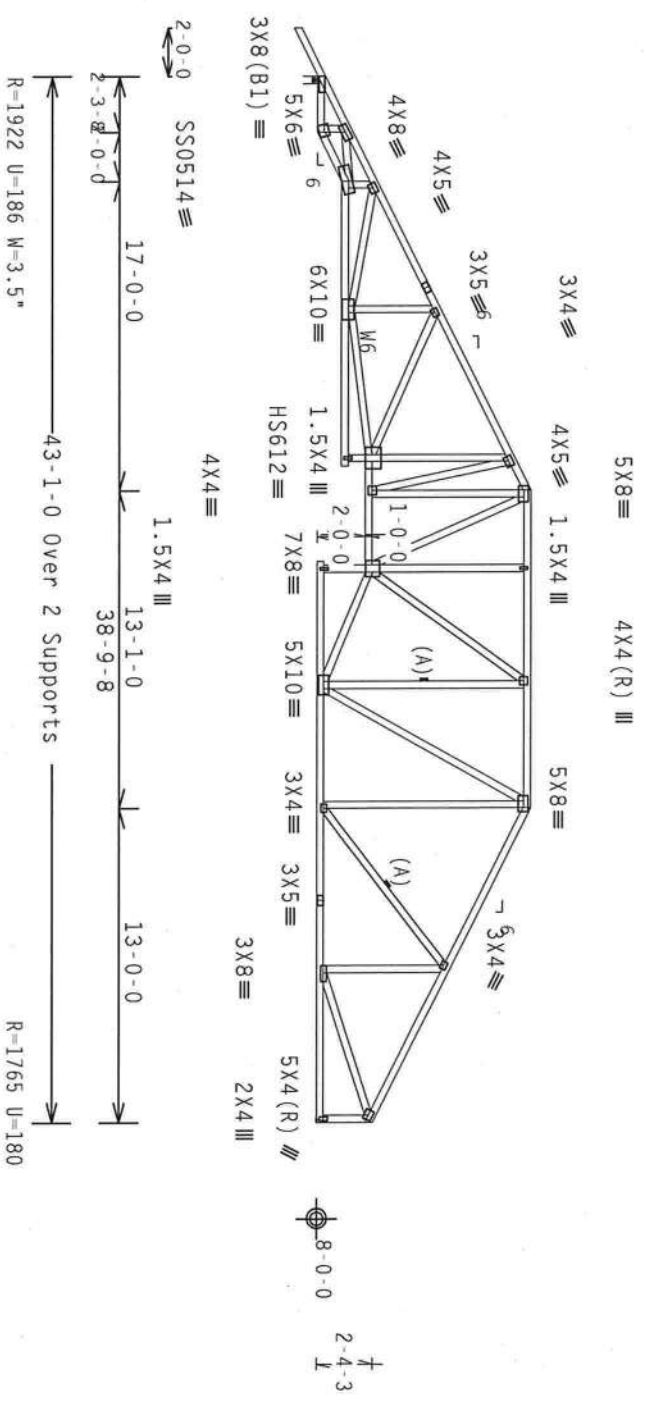
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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 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.

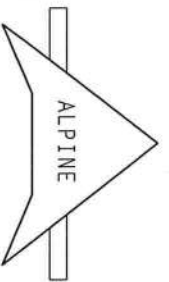


PLT TYP. 20 Gauge HS, 18 Gauge HS, Design Crit: TPI-2002(STD)/FBC  
Wave Cq/RT=1.00(1.25)/10(0)

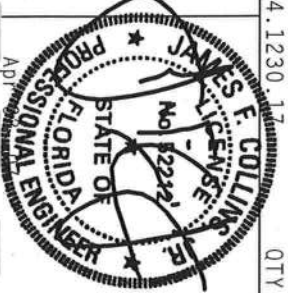
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WICA (WOOD INSTITUTE OF AMERICA, 6500 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\*\*** UNLESS 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 TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (14/11/SS/RS) ASST A653 GRADE 40/60 (44, 47H, 55) GALV. STEEL. TYP. APPLY TO ALL TRUSSES UNLESS OTHERWISE INDICATED. CONNECTIONS SHALL BE MADE PER DRAWINGS 1606-2, 1606-3, 1606-4, 1606-5, 1606-6, 1606-7, 1606-8, 1606-9, 1606-10, 1606-11, 1606-12, 1606-13, 1606-14, 1606-15, 1606-16, 1606-17, 1606-18, 1606-19, 1606-20, 1606-21, 1606-22, 1606-23, 1606-24, 1606-25, 1606-26, 1606-27, 1606-28, 1606-29, 1606-30, 1606-31, 1606-32, 1606-33, 1606-34, 1606-35, 1606-36, 1606-37, 1606-38, 1606-39, 1606-40, 1606-41, 1606-42, 1606-43, 1606-44, 1606-45, 1606-46, 1606-47, 1606-48, 1606-49, 1606-50, 1606-51, 1606-52, 1606-53, 1606-54, 1606-55, 1606-56, 1606-57, 1606-58, 1606-59, 1606-60, 1606-61, 1606-62, 1606-63, 1606-64, 1606-65, 1606-66, 1606-67, 1606-68, 1606-69, 1606-70, 1606-71, 1606-72, 1606-73, 1606-74, 1606-75, 1606-76, 1606-77, 1606-78, 1606-79, 1606-80, 1606-81, 1606-82, 1606-83, 1606-84, 1606-85, 1606-86, 1606-87, 1606-88, 1606-89, 1606-90, 1606-91, 1606-92, 1606-93, 1606-94, 1606-95, 1606-96, 1606-97, 1606-98, 1606-99, 1606-100. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE TRUSS COMPONENT DESIGN SHOWN THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
Tel: 888.457.4577



FL/-/4/-/R/-	Scale = .125"/ft.
TC LL 20.0 PSF	REF R8228- 6760
TC DL 10.0 PSF	DATE 04/02/07
BC DL 10.0 PSF	DRW HCUSR8228 07092034
BC LL 0.0 PSF	HC-ENG JB/WHK
TOT.LD. 40.0 PSF	SEON- 9922
DUR.FAC. 1.25	
SPACING 24.0"	JREF- 17638228Z01

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.14" due to live load and 0.22" due to dead load.

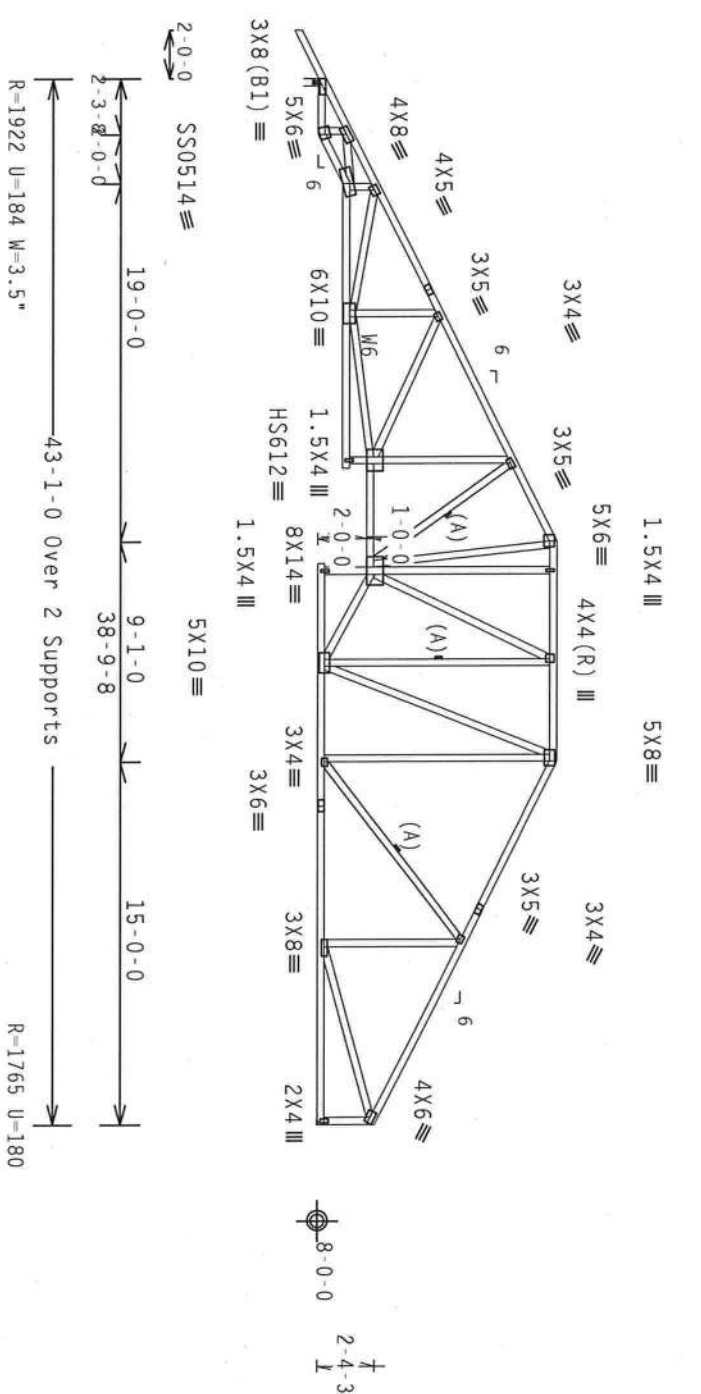
Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean height, ASCE 7-02, CLUSTED DIAG, not located within 6.50 ft from roof edge, CAT II, EXP B, wind T DL=5.0 psf, wind BC DL=5.0 psf,  $I_w=1.00$  GCF (+/-)=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.



PLT TYP.	20 Gauge HS, 18 Gauge HS, Wave	Design Crit:	TPI-2002(STD)/F3 Cg/RT=1.00 (1.25)
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$$Cq/K1 = 1.00(1.25)/10(0$$

1.24.1230

QTY:

$$FL/4/k/$$

Scale = .125 / ft

REFER TO SHEET (BUILDING DOCUMENT SHEET INFORMATION), PUBLISHING TPI (THICK PLATE INSTALLED, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 500 N. LAKE STREET, SUITE 100, CHICAGO, IL 60610) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR GOOD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GOOD SHALL HAVE A PROPERLY ATTACHED RIGID CELLULOSE.

ALPINE

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



1	FL/-/4/-/-/R/-	Scale = .125"/Ft.
TC LL	20.0 PSF	REF R8228- 6761
TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCSUR8228 07092035
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 9925
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T638228201





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

Wind reactions based on MWFRS pressures.

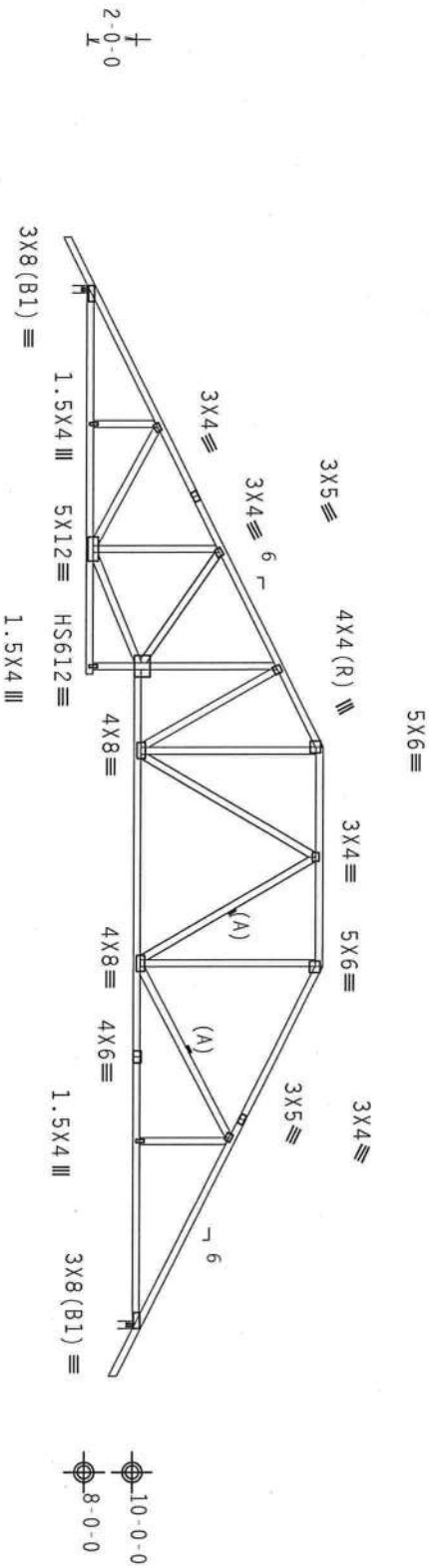
(A) Continuous lateral bracing equally spaced on member.

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.  $I_w=1.00$   $GCFI(+/-)=0.18$

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)

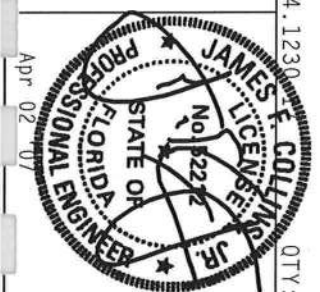
QTY: 1 FL/-/4/-/R/-

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 PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS 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 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 AND BRACING OF TRUSSES.

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF BCS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. TRUSSES SHALL BE FABRICATED FROM 20 GAUGE HOT-ROLLED STEEL. ALL TRUSSES SHALL BE GALVALUME. APPLY PLATES TO EACH FACE OF TRUSSES AND WEBS. TRUSSES SHALL BE FABRICATED FROM 20 GAUGE HOT-ROLLED STEEL. 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.

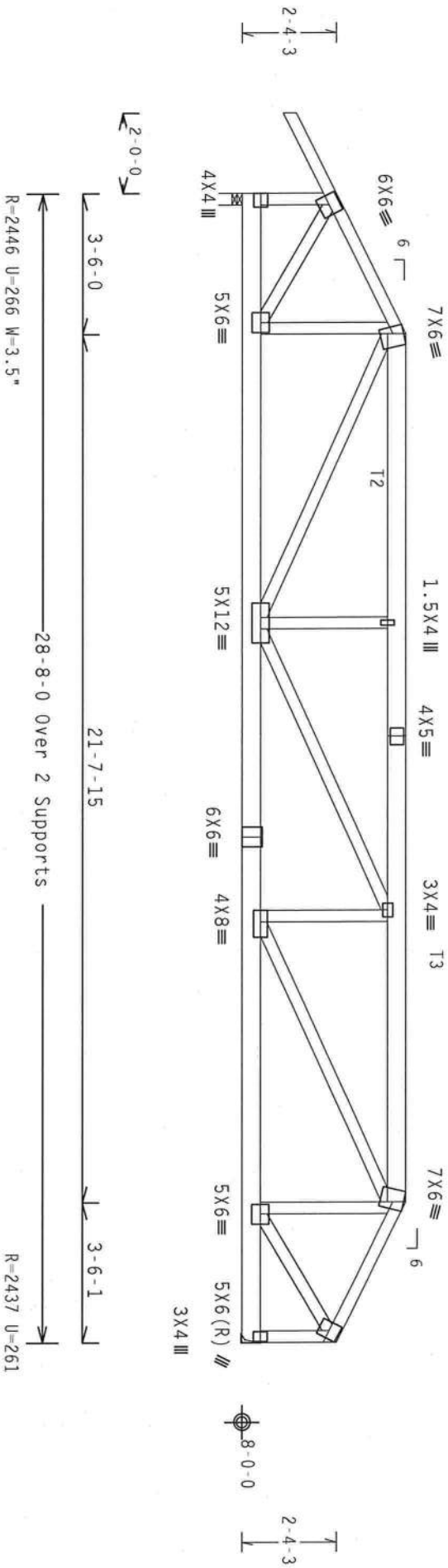


TC LL	20.0 PSF	REF R8228- 6763
TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCUSR8228 07092001
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 9872
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 17638228201

Top chord 2x4 SP #2 Dense : 12, 13 2x6 SP #1 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 126 PLF at 0.00 to 126 PLF at 28.67  
BC - From 4 PLF at -2.00 to 4 PLF at 0.00  
BC - From 44 PLF at 0.00 to 44 PLF at 28.67  
Left end vertical exposed to wind pressure. Deflection meets L/240  
criteria for brittle and flexible wall coverings.

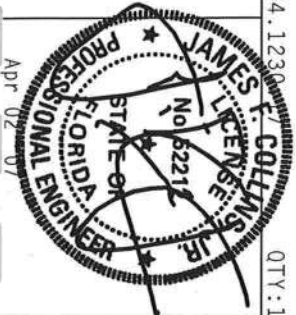
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLUSTED Bldg, not  
located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC  
DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCPI(+/-)=0.18  
Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.  
In lieu of structural 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.



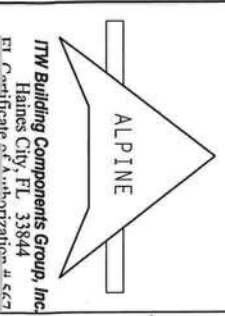
PLT TYP. Wave  
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 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. TPI, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 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.



QTY: 1	FL/-/4/-/1/-/R/-	Scale = .25" / Ft.
TC LL	20.0 PSF	REF R8228- 6764
TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCUR8228 07092037
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT. LD.	40.0 PSF	SEON- 9930
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1T638228Z01

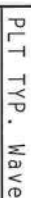


ITW Building Components Group, Inc.  
Haines City, FL 33844  
ET Certificate of Authorization #567

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 gcp(+/-)=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.



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

Scale = .25" / Ft.

TC LL	20.0 PSF
TC DL	10.0 PSF
DC DL	10.0 PSF

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

ALPINE

TC LL	20.0 PSF	REF	R8228- 6765
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092038
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9934
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228Z01

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

Wind reactions based on MMFRS pressures.

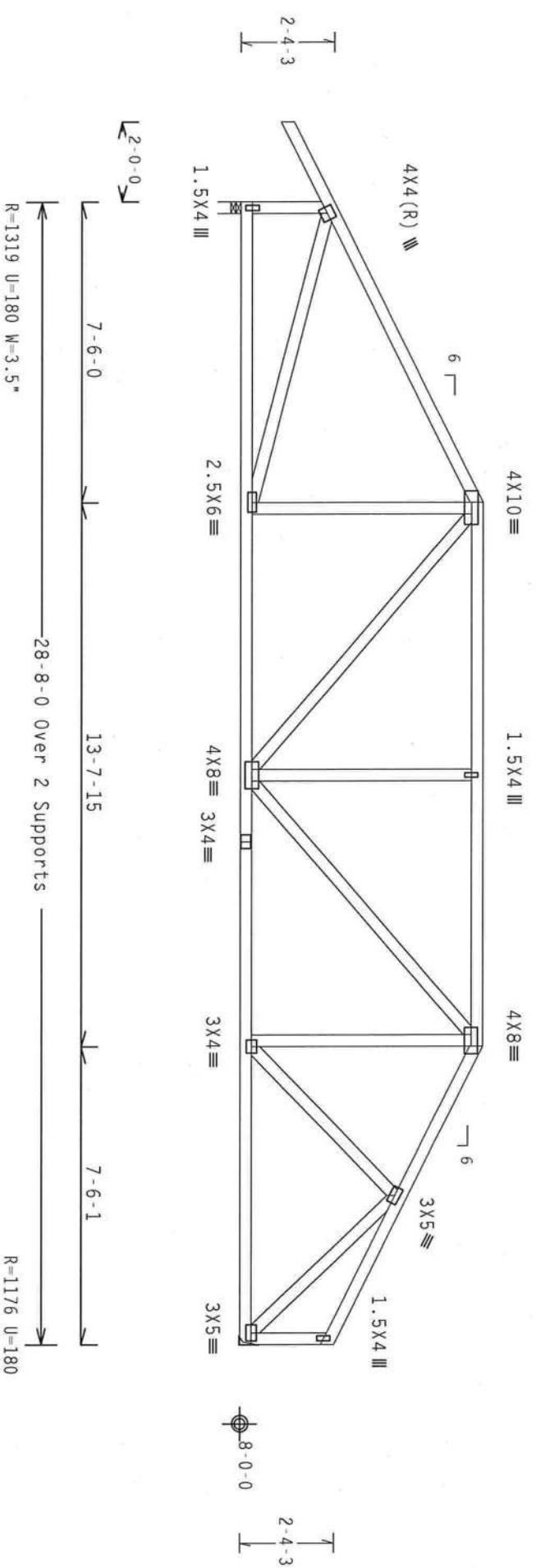
Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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. 1w=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.



PLT TYP. Wave

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

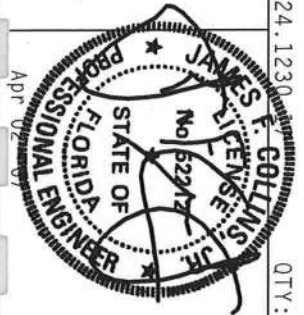
QTY: 1 FL/-/4/-/R/-

Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (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, 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.

ALPINE

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



TC LL	20.0 PSF	REF	R8228 - 6766
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092039
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEON-	9936
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	17638228201

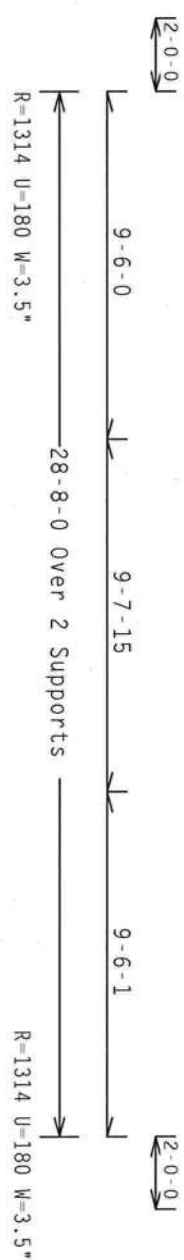
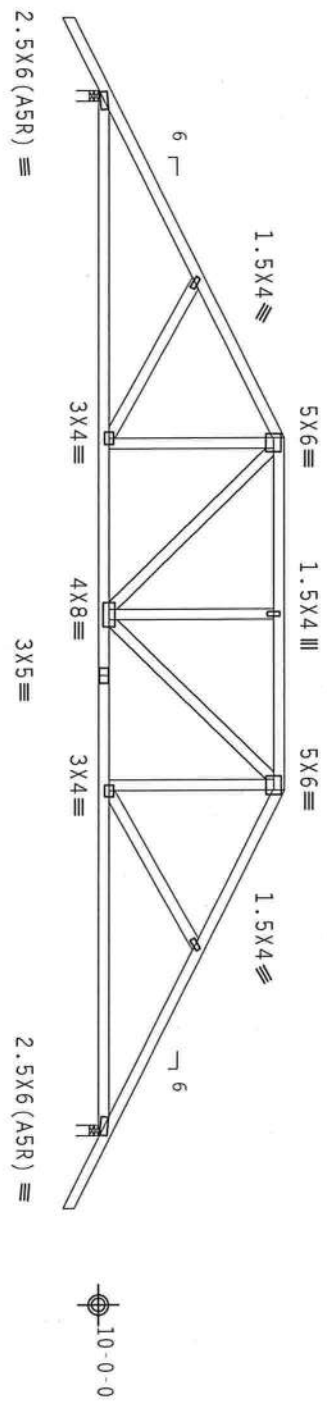


TOP CHORD 2X4 3P #2 Unse  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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 MPN WIND, 15.00 FT MEAN NGT, ASCE 7-02, CLUSTER DIAG, 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.



PLT TYP. Wave

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

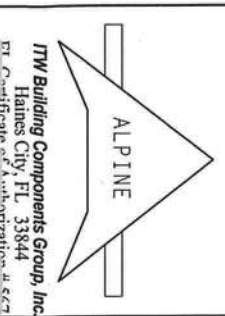
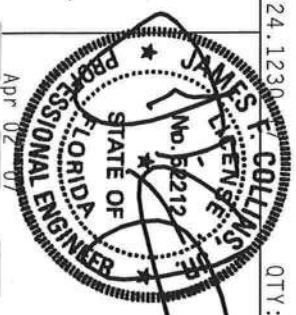
7.24.1230 F. COLLINS  
QTY: 1

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

Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO DCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 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 NDS (NATIONAL DESIGN SPEC. BY NDS) AND TPI. THE BCG CONNECTION PLATES ARE MADE OF 20/10/16GA (E/W/S/S) ASH A663 GRADE 40/60 (E, K/H/S) GALV. STEEL. APPLY TO ALL TRUSSES. THE BCG CONNECTION PLATES ARE MADE OF 20/10/16GA (E/W/S/S) ASH A663 GRADE 40/60 (E, K/H/S) GALV. STEEL. APPLY TO ALL TRUSSES. ANY INSPECTION 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.



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

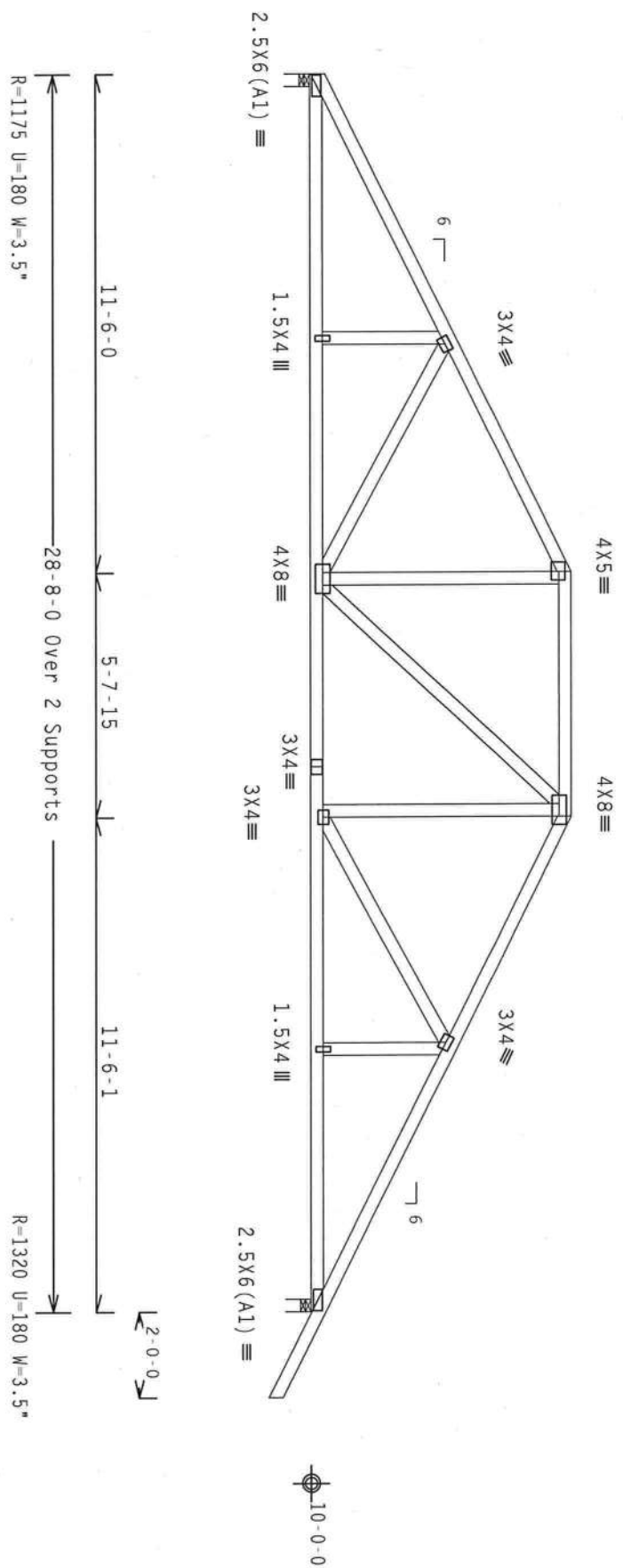
TC LL	20.0 PSF	REF	R8228- 6767
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HGUSR8228 07092002
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEQN-	9878
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228Z01

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, ULSXU diag, 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)

7.24.1230.17

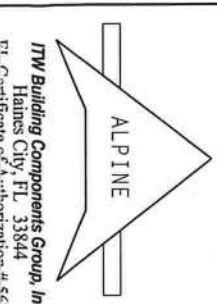
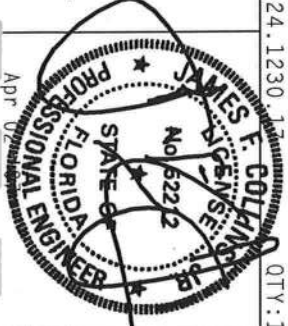
QTY:1

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 TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF BCS (NATIONAL DESIGN SPEC. BY AIA/PS) AND TPI. DESIGN CORRECTIONS ARE MADE OF 20/10/10GA (W/5/5) ASH 6053 GRADE 40/60 (4, 6/2/55) GALV. STEEL. ITW BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, SECTION PER DRAWING. TOP CHORD BRACING PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, SECTION PER DRAWING. BOTTOM CHORD BRACING PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, SECTION PER DRAWING. 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.

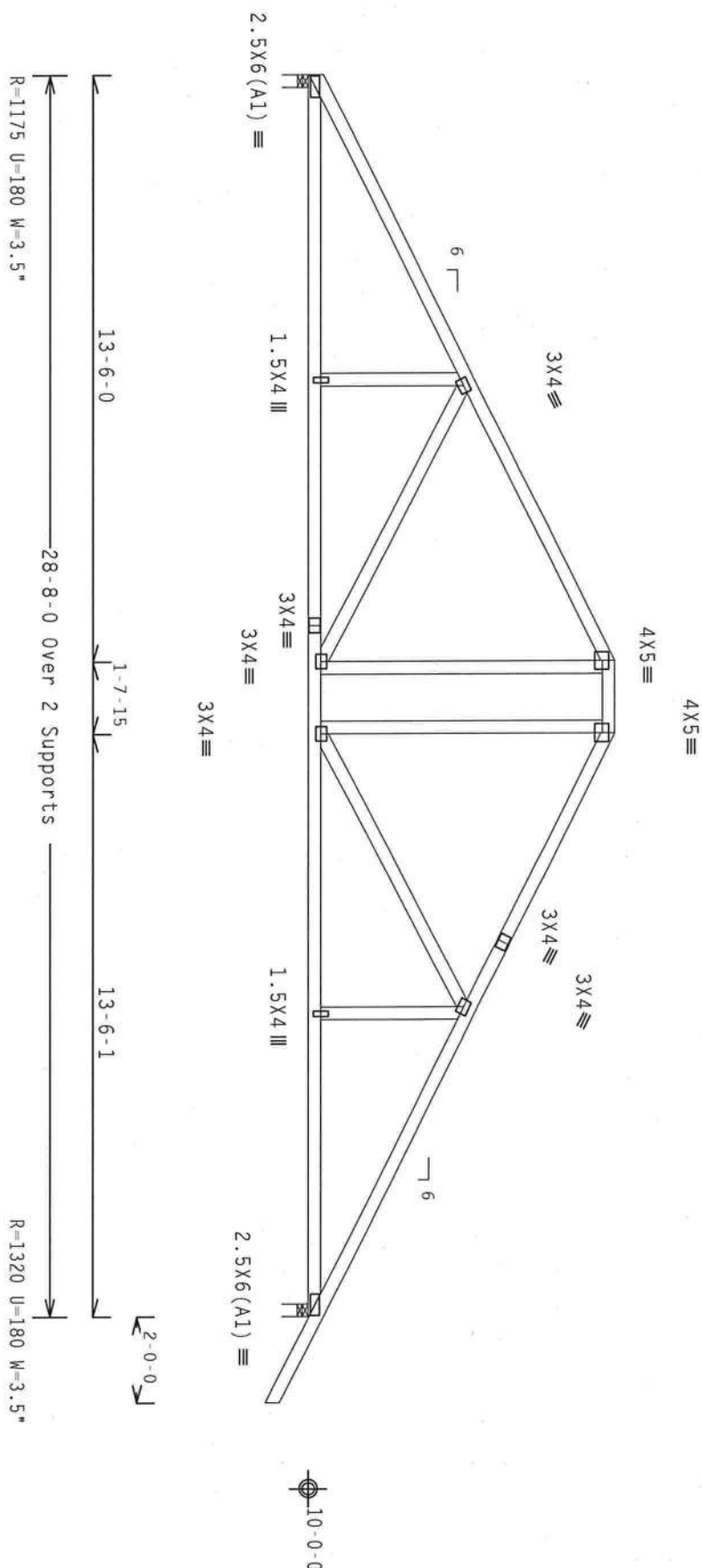


TC LL	20.0 PSF	REF R8228- 6768
TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCUR8228 07092003
BC LL	0.0 PSF	HC-ENG JB/WHK *
TOT.LD.	40.0 PSF	SEQN- 9863
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T638228Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLUSEL diag, 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 GCF(+/-)=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)

$$\overline{Cq/RT} = 1.00(1.25)/10(0)$$

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

Scale = .25" / Ft.

**WARNING:** THESE PRACTICES REPRESENT CASE IN INFORMATION. HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO RCSP (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TURNS PASTE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (4000, TURNER COMPANY, OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES, PLEASE REFER TO THE CORRESPONDING FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED FIELD CEILING.

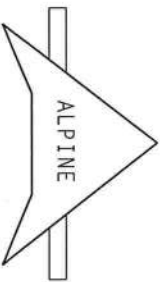
**\*\*IMPORTANT\*\***TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TROSS IN CONFORMANCE WITH THE DESIGN SHALL BE AT THE USER'S RISK. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE COVERAGE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TESTING AND CERTIFICATION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TRAINING AND QUALIFICATION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SUPPORT AND MAINTENANCE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LOGISTICS AND SUPPLY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY COMMUNICATIONS AND INFORMATION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SECURITY AND PROTECTION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LEGAL AND COMPLIANCE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY FINANCIAL AND ECONOMIC. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SOCIAL AND CULTURAL. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ENVIRONMENTAL AND CLIMATE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY POLITICAL AND GOVERNMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RELIGIOUS AND SPIRITUAL. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ETHICAL AND MORAL. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SCIENTIFIC AND TECHNOLOGICAL. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ARTISTIC AND CREATIVE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY HISTORICAL AND HERITAGE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY EDUCATIONAL AND RESEARCH. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY HEALTH AND MEDICAL. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY WELLNESS AND FITNESS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LIFESTYLE AND HABITS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERSONALITY AND CHARACTER. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY EMOTIONAL AND PSYCHOLOGICAL. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INTELLECTUAL AND MENTAL. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PHYSICAL AND BODILY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SENSORY AND PERCEPTUAL. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY COGNITIVE AND THINKING. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY AFFECTIVE AND FEELING. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY VOLUNTARY AND CHOICE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY NECESSARY AND NEED. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY DESIRE AND WANT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY BELIEF AND FAITH. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TRUST AND CONFIDENCE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RESPECT AND ADMIRATION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LOVE AND AFFECTION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CARE AND CONCERN. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY HELP AND ASSISTANCE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SUPPORT AND BACKUP. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PROTECTION AND DEFENSE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SAFETY AND SECURITY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PEACE AND HARMONY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY JOY AND HAPPINESS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SUCCESS AND ACCOMPLISHMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY FULFILLMENT AND SATISFACTION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY MEANING AND PURPOSE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY VALUE AND IMPORTANCE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SIGNIFICANCE AND IMPACT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONTRIBUTION AND SERVICE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY GIVING AND GENEROSITY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY KINDNESS AND COMPASSION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PATIENCE AND FORGIVENESS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY HUMILITY AND MODesty. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY GRACE AND MERCY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LOVE AND AFFECTION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CARE AND CONCERN. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY HELP AND ASSISTANCE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SUPPORT AND BACKUP. 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THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PATIENCE AND FORGIVENESS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY HUMILITY AND MODesty. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY GRACE AND MERCY.

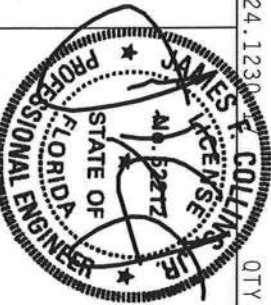
DESIGN CONFORMS TO APPLICABLE PROVISIONS OF MD5 (NATIONAL DESIGN SPEC., BY AIAA) AND IPT. CONNECTOR PLATES ARE MADE OF 20/18/1/6GA (H./H./SS./K.) ASTM A653 GRADE 40/60 (H./K./H./SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TUBES AND UNLESS OTHERWISE NOTED ON THIS DESIGN DRAWING REF. DRAWINGS 160A-2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEAL OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TIGS COMPONENT

DESIGN SHOW. 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  
FT Certificate of Authorization # 4467



TC LL	20.0 PSF	REF	R8228- 6769
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092004
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEQN -	9886
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T638228Z01

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

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.


$$\overline{Cq/RT}=1.00(1.25)/10(0)$$

7.24.1230

QTY:1

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

Scale = .25"/Ft.

**WARNING:** FIRE'S EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TPIRPS PASTE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (GOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48061, 313719) FOR SAFETY PRACTICES AND PRECAUTIONS TO PREVENT ACCIDENTS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED FIELD CEILING.

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

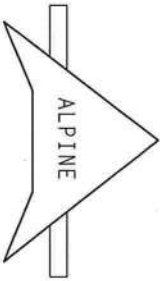
BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE SPECIFICATIONS, AND ANY DAMAGE TO THE TRUSS OR TO THE PROPERTY OF ANY OTHER PARTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING THE TRUSS FROM THE MANUFACTURER IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING DELIVERED TO THE SITE IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING ASSEMBLED AND BRACED IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING MAINTAINED IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING REMOVED FROM THE SITE IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING STORED IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING TRANSPORTED IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING DELIVERED TO THE SITE IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING ASSEMBLED AND BRACED IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING MAINTAINED IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING REMOVED FROM THE SITE IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING STORED IN CONFORMANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS BEING TRANSPORTED IN CONFORMANCE WITH THE SPECIFICATIONS.

DESIGN CONFORMS TO APPLICABLE PROVISIONS OF SDS (NATIONAL DESIGN SPEC., BY AISC) AND IBC. CONNECTOR PLATES ARE MADE OF 20/10/16GA (M./H./SS/K) ASTM A653 GRADE 40/60 (M./K./H./SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE NOTED ON THIS DESIGN POSITION PER DRAWINGS 150A-2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3.

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  
For Certificate of Authorization # 5667



TC LL	20.0 PSF	REF	R8228- 6770
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCSR8228 07092040
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9896
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228201



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

SPECIAL LOADS

TC - From	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 MWFRS pressures.

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

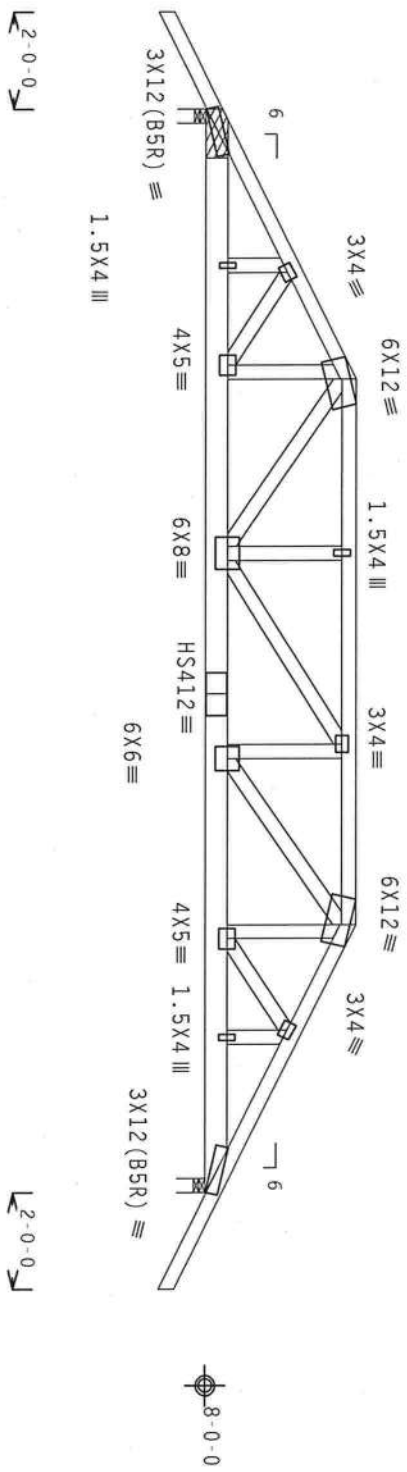
3 COMPLETE TRUSSES REQUIRED

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

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" 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 II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 GCpi(+/-)=0.18

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



22'-3-8 Over 2 Supports  
R=10596 U=1019 W=3.5"  
R=7540 U=719 W=3.5"

PLT TYP. 20 Gauge HS.Wave  
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.1230.17  
OTY:1 FL/-/4/-/R/-  
Scale = .25"/Ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 238 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.

ALPINE

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

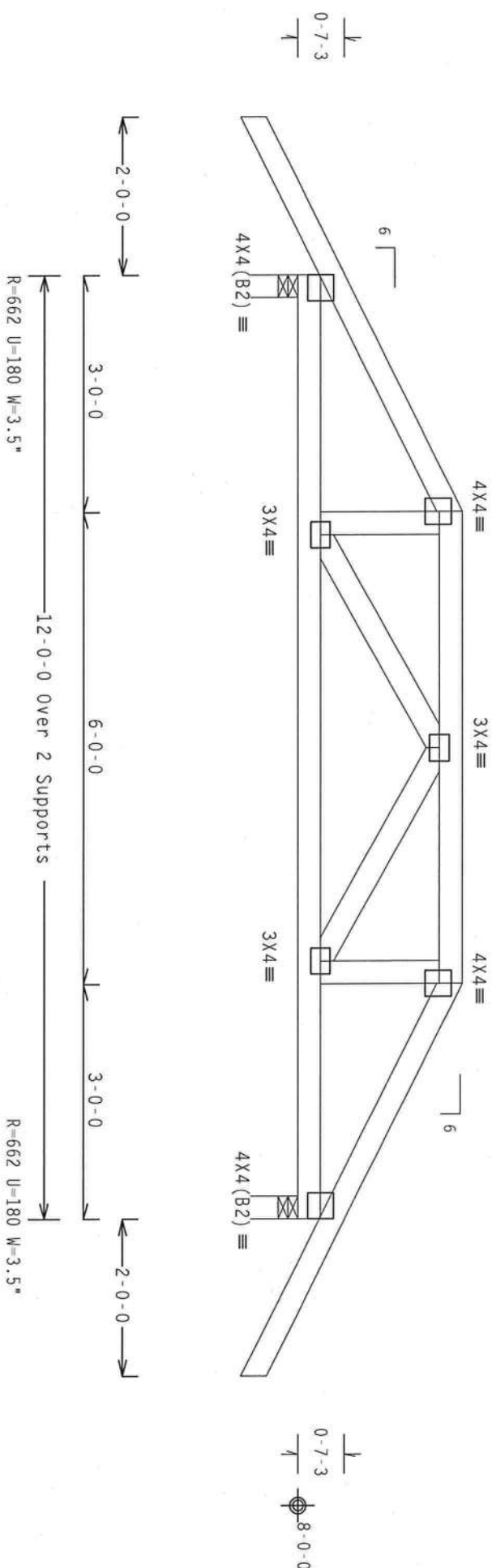


TC LL	20.0 PSF	REF R8228- 6771
TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCUSR8228 07092041
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 9952
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T638228Z01

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

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)

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

7.24.1230.17

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

Scale = .5" / Ft.

**WARNING:** FRAMES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO DCST1 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRESS PAINLIE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MICA (MIDWEST COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MAULSON, WI, 53129. FOR SAFETY PRACTICES, PLEASE TO PERFORM THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GROUND SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

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


TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & GRACING OF TRUSSES.

PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A-2 CONNECTION PLATES WARE MADE OF 20/10/1060A (H, M/55/K) A514M A553 GRADE 40/50 (H, K/H, 55) GALV., STEEL. APPLY

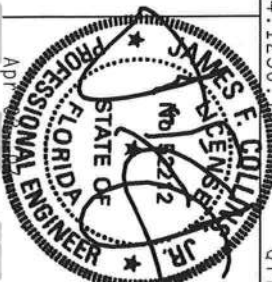
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

10



**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
Tel. 800/368-7222



TC LL	20.0 PSF	REF	R8228 - 6772
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092042
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT. LD.	40.0 PSF	SEQN -	9895
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	1T638228Z01

2 COMPLETE TRUSSES REQUIRED =  
Nailing Schedule: (12d Common (0.148"x3.25",\_min.\_)\_nails)

## Bot Chord: 1 Row @ 4.75" o.c.

Bot Chord: 1 Row @ 4.75" o.c.

Bot Chord: 1 Row @ 4.75" o.c.

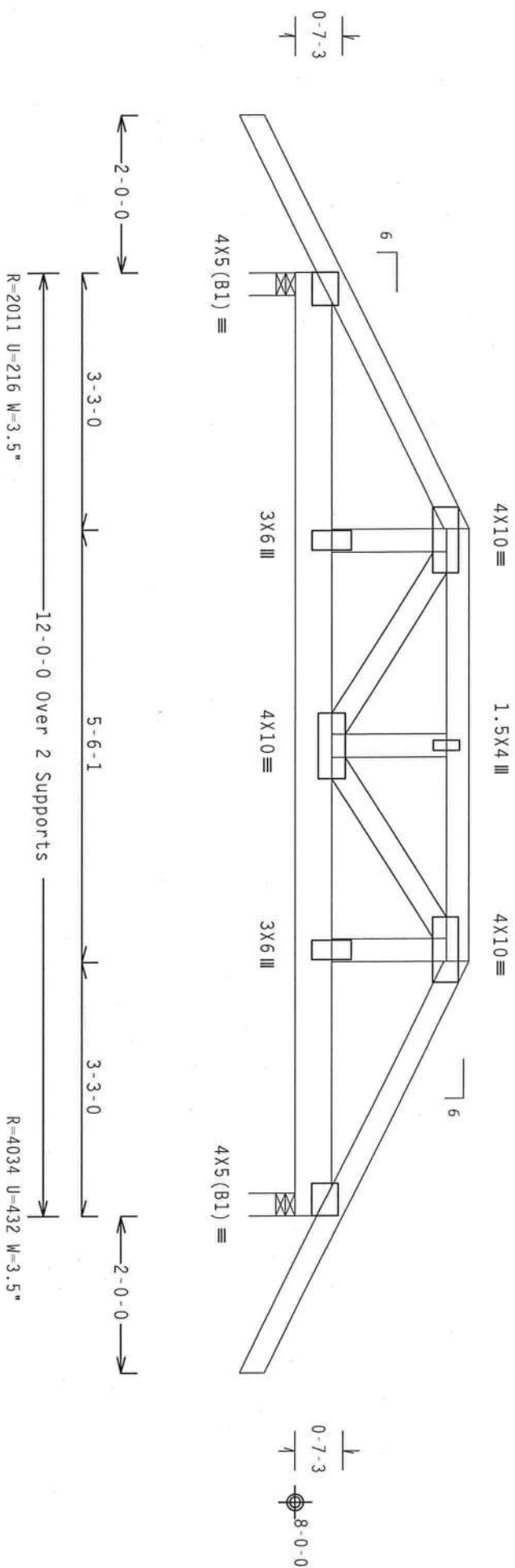
Webs : 1 Row @ 4" o.c.

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,  $I_w=1.00$  Gcp(+/-)=0.18

Wind reactions based on MFRS pressures.

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



Scale = .5"/Ft.

**WARNING—**TRUCKS, RELOADING EQUIPMENT, EXTRACT, CHAIN, IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DESIGN (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY FBI CRISIS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 212, ALEXANDRIA, VA, 22314, AND WFLA (6000 TERRY COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MALDEN, MA, 02148) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED THE GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GROUND SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

**\*\*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 COMPLY WITH THE REQUIREMENTS OF THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN, FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTION COMPONENTS IN APPLICABLE PROVISIONS OF AISC SPECIFICATIONS, BY AREA) AND PER-  
CONNECTOR PLATES ARE MADE OF 20/18/16GA (M, H/S, K) ASTM A653 GRADE 40/60 (W, K/H, S) GALV. STEEL.  
PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGNATION PER DRAWINGS 160A-2

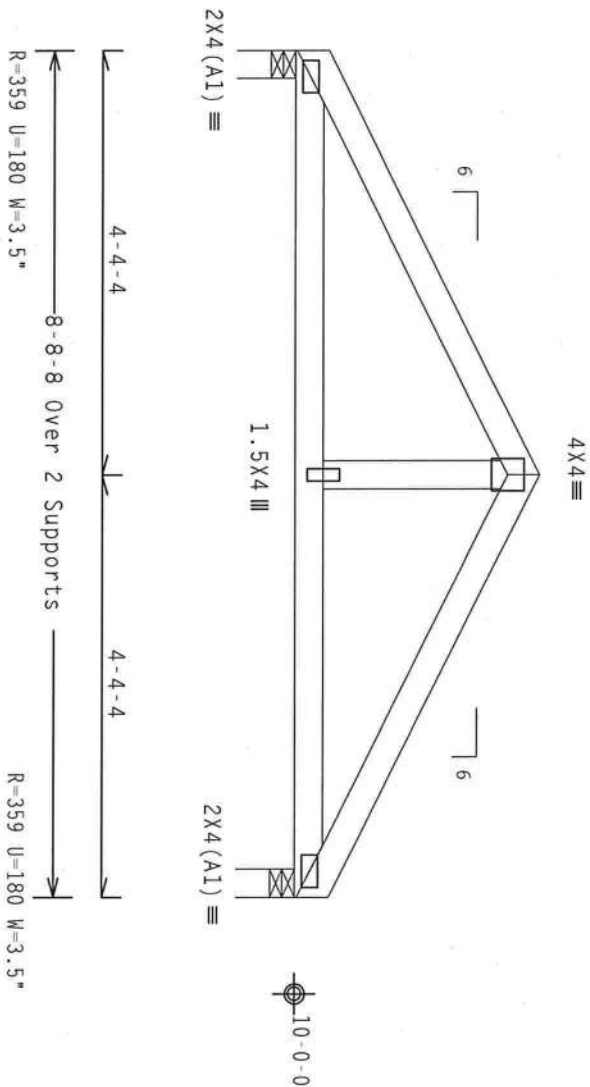
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF T011-2002 SEC. 3, DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

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

110 mph wind, 15.00 ft mean ngl, ASCE 7-02, CLUSTED diag, 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.

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)

**WARNING:** FIRE'S RESISTIVE EXTREME GAGE IN FABRICATION. HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DCST (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY THE GRISS PATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

**\*\*IMPORTANT\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR FAILURE TO BUILD THE CONSTRUCTION WITHIN THE SPECIFIED TIME FRAME.

BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE CROSS IN COMPLIANCE WITH TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS  
DRAWING INDICATE ACCEPTANCE OF PROTECTIVE COATING BY THE CLIENT FOR THE

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TQ1 1 SEC. 2

Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R8228- 6774
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRM	HCUSR8228 07092005
BC LL	0.0 PSF	HC-ENG JB/WHK	*
TOT.LD.	40.0 PSF	SEQN-	9862
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228Z01

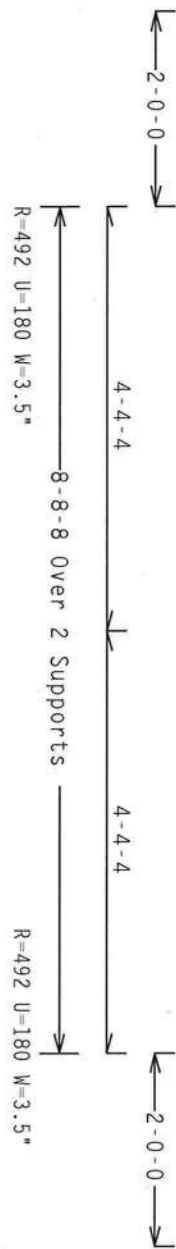
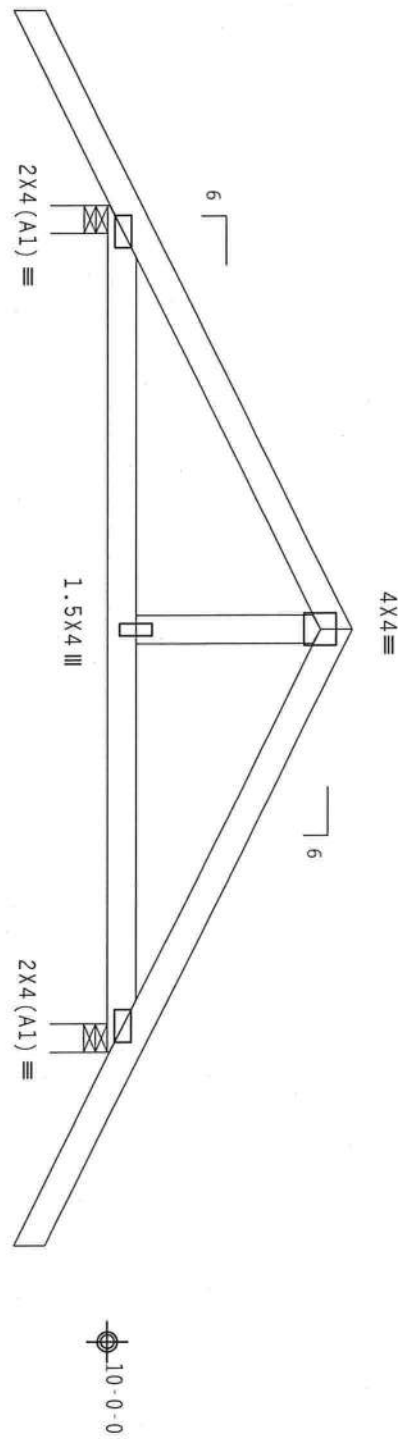


TOP CHORD 2X4 SP #2 UENSE  
Bot chord 2X4 SP #2 Dense  
Webs 2X4 SP #3

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.

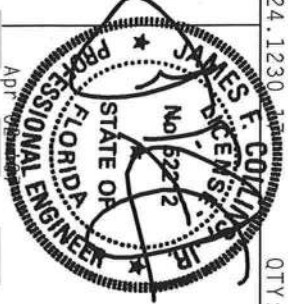
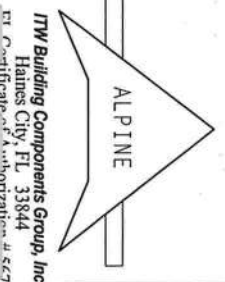
11U MPN WIND, 15.0U T mean gtl, ASCE 7-02, cluustu diag, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCPI (+/-)=0.18  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave Design Cr1t: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DCSI (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. TPI 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. TPI BCG, INC. DESIGN CONTRACTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. TPI BCG DESIGN CONTRACTS ARE MADE ON 20/10/100A (U.N./S/S) ASH 40S3 GRADE 40/60 (W, K/H/S) GALEY, STEEL, APPLY PER TPI BCG DESIGN CONTRACTS. TPI BCG, INC. SHALL BE PERMANENTLY RESPONSIBLE 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.



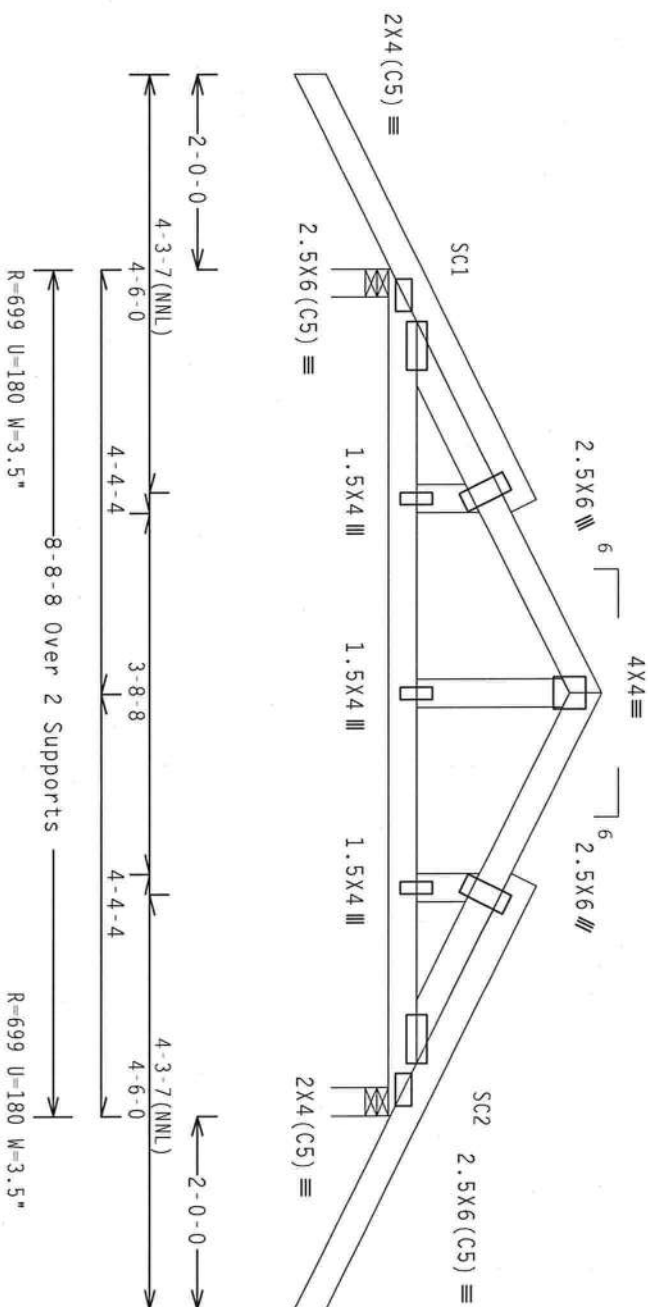
TC LL	20.0 PSF	REF R8228- 6775
TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCUR8228 07092006
BC LL	0.0 PSF	HC-ENG JB/WHK *
TOT.LD.	40.0 PSF	SEQN- 9880
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T638228Z01

110 mph wind, 15.00 TC mean hgt, ASL $\pm$ 02, CLUSTU diag, 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

See DWGS A11015EEL106 & 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.



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

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

QTY:1

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

Scale = .5"/Ft.

**\*\*\*WARNING\*\*\*** PRIORS (BUILDING COMPONENTS) ARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC51 (BUILDING COMPONENT SPECIFIC INFORMATION). PUBLISHED BY THE CRSSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 62000 ENTERPRISE LANE, MADISON, MI 48131) 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 FIELD CEILING.

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

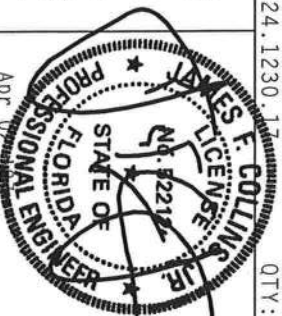
BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TROSS IN CONFORMANCE WITH THE OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TROSSES.

DESIGN CONFORMS WITH AVAILABLE INFORMATION OF MSD NATIONAL DESIGN CODE BY AECMA AND TOL

CONNECTIONS TO EACH FACE OF THUS AND PLATES TO EACH FACE OF THUS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2 THROUGH 160A-7 SHALL APPLY.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNE AS OF TPII-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS

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



TC LL	20.0 PSF	REF	R8228- 6776
TC DL	10.0 PSF	DATE	03/30/07
BC DL	10.0 PSF	DRW	HCUSR8228 07089001
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9947
DUR.FAC.	1.25		
SPACING	24.0"	JREFE-	1TG38228Z01

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

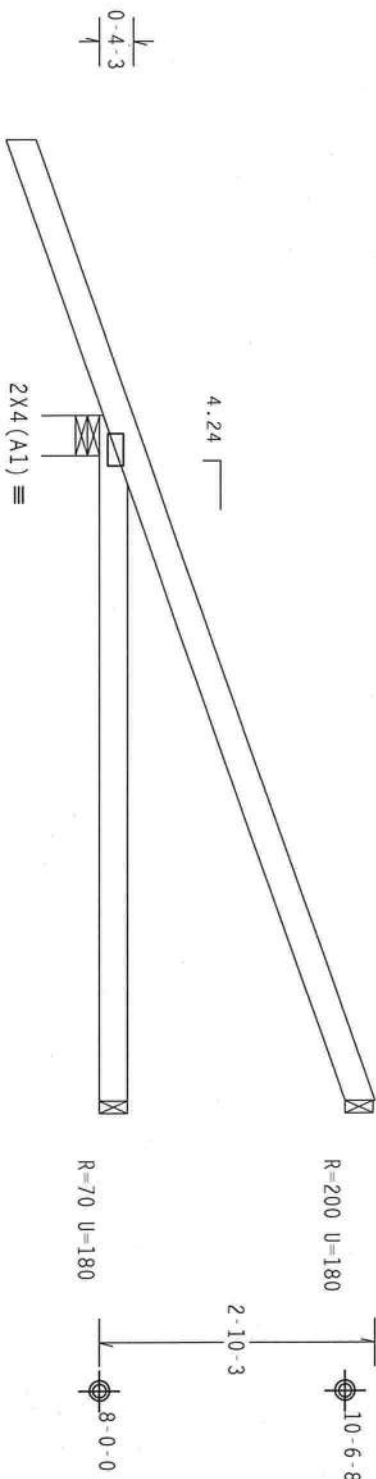
Wind reactions based on MMFRS pressures.

Hipjack supports 5'-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.  $1w=1.00 \text{ GCPI} (+/-)=0.18$

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



2'-9-15

7'-0-14 Over 3 Supports  
R=392 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

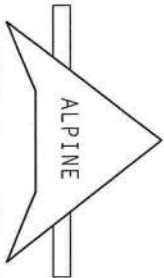
OTY:2 FL/-/4/-/R/-

Scale = .5"/ft.

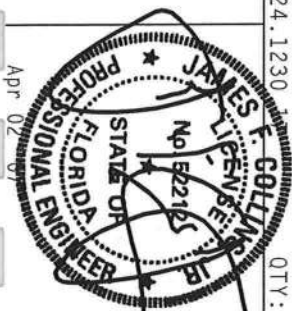
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 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.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY NDS) AND TPI. CORRECTION PLATES ARE MADE OF 2018/1604 (4.12/55/55) ASH 6053 GRADE 40/60 (4. K21/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED, APPLY TO THE TOP CHORD. DRAMAING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE TRUSS COMPANY'S 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.



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



TC LL	20.0 PSF	REF	R8228- 6777
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092044
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT. LD.	40.0 PSF	SEON-	9894
DUR. FAC.	1.25		
SPACING	24.0"		

JREF- 1T638228Z01

TOP CHORD 2X4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

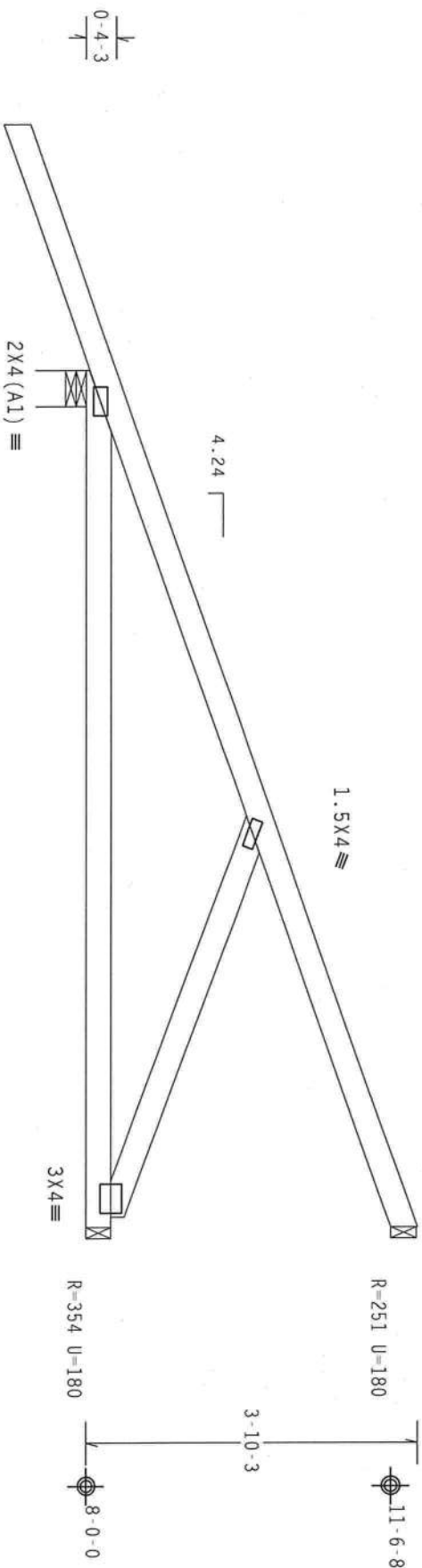
Wind reactions based on MWFRS pressures.

Hipjack supports 7'-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 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.



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)

7.24.1230.17

QTY:2

FL/-/4/-/R/-

Scale = .5"/ft.

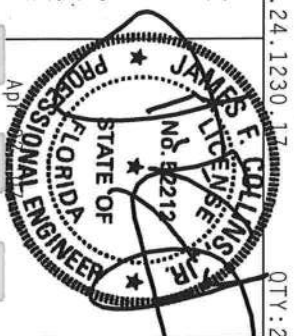
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 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 THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF BCS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. CORRECTION PLATES ARE MADE OF 20/10/16GA (W/15/15) ASH OR 60S OR 40/60 (W/15/15) GALV. STEEL. ITW BCG SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ITW Building Components Group, Inc.  
Haines City, FL 33844  
Certificate of Authorization #5577



FL/-/4/-/R/-		Scale = .5"/ft.	
TC LL	20.0 PSF	REF	R8228- 6778
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092015
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT. LD.	40.0 PSF	SEON-	9898
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1T638228Z01

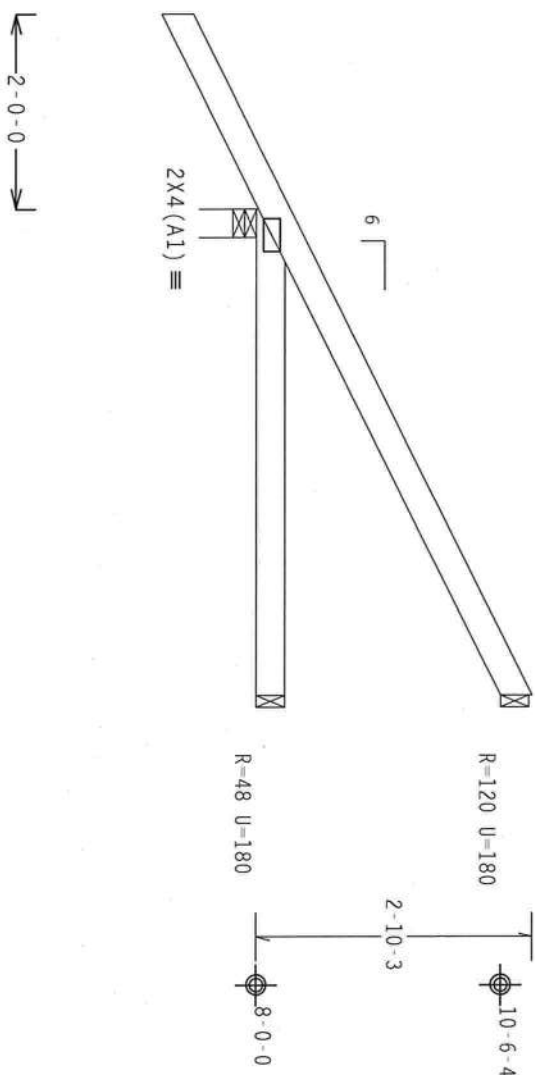




Wind reactions based on MMFRS pressures.

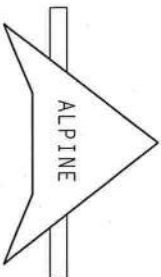
Deflection meets  $L/360$  live and  $L/240$  total load. Creep increase factor for dead load is 1.50.

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



$0-6-8$   $4-5-8$   
 $\leftarrow 5-0-0$  Over 3 Supports  $\rightarrow$   
 $R=377$   $U=180$   $W=3.5"$

PLT TYP. Wave



Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

QTY:12 FL/-/4/-/-/R/-

Scale = .5"/Ft.

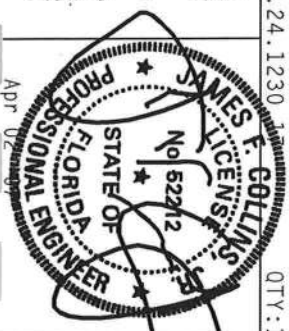
\***"WARNING"**—TRUCKS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC-1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY FPI (TROSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, OR (800) TRUSS COMPANY OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI, 53719 FOR SAFETY PRACTICES AND PRELIM FOR PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR GIRDOR SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GIRDOR SHALL HAVE A PROPERLY ATTACHED GIRDOR CEILING.

**\*IMPORTANT\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITB BCG, INC. SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TUBS IN CONFORMANCE WITH THE FOLLOWING SPECIFICATIONS WILL BE AT THE USER'S RISK. ITB BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF EQUIPMENT, MATERIALS, PERSONNEL, OR OTHER PROPERTY DUE TO THE USER'S NEGLIGENCE OR MISUSE OF THE TUBS.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MSD (NATIONAL DESIGN SPEC., BY AREA) AND TPI-10 (PIPE FABRICATING, MANOLING, SHIPPING, INSTALLING AND BRACING OF TUBS).

CONNECTOR PLATES ARE MADE OF 2010/H166A (W-A572F5) ASH ASSY GRADT 40/60 (W-FM/55) GALV. STEEL, APPLY PLATES TO EACH FACE OF TUBS AND, UNLESS OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS TAPD-2.

ANY INSPECTION OF PLATES FOLLOWED BY (1.) SHALL BE PER ANNEX A OF TPI-10, SEC.5.3. A SEAL ON THIS ANNEX INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TUBS COMPONENTRY 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- 6780
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092008
BC LL	0.0 PSF	HC-ENG JB/WHK	*
TOT.LD.	40.0 PSF	SEQN-	9873
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228Z01



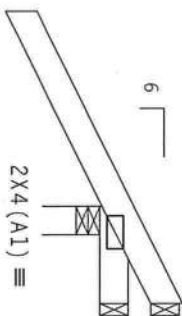
10P Chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MWFRS pressures.

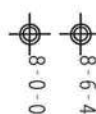
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLUSTED 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

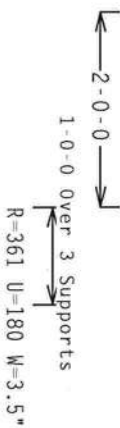
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



R=110 U=180  
R=35 U=180



0-10-3



PLT TYP. Wave

Design Crtt: TPI-2002(STD)/FBC

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

7.24.1230

QTY:8 FL/-/4/-/1/R/-

Scale =.5"/Ft.

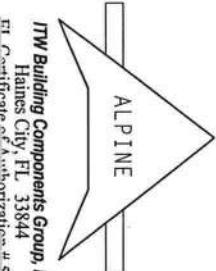
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WCA GOOD TRUSS COUNCIL OF AMERICA, 6300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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI 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 ALPINE) AND TPI. TPI BCG CONNECTOR PLATES ARE MADE OF 20/10/100A (V.H/SS/TK) ASTM A653 GRADE 40/60 (K, K/H/SS) GALV. STEEL. APPLY TO ALL TRUSSES. ALL TRUSSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100-2, 100-3, 100-4, 100-5, 100-6, 100-7, 100-8, 100-9, 100-10, 100-11, 100-12, 100-13, 100-14, 100-15, 100-16, 100-17, 100-18, 100-19, 100-20, 100-21, 100-22, 100-23, 100-24, 100-25, 100-26, 100-27, 100-28, 100-29, 100-30, 100-31, 100-32, 100-33, 100-34, 100-35, 100-36, 100-37, 100-38, 100-39, 100-40, 100-41, 100-42, 100-43, 100-44, 100-45, 100-46, 100-47, 100-48, 100-49, 100-50, 100-51, 100-52, 100-53, 100-54, 100-55, 100-56, 100-57, 100-58, 100-59, 100-60, 100-61, 100-62, 100-63, 100-64, 100-65, 100-66, 100-67, 100-68, 100-69, 100-70, 100-71, 100-72, 100-73, 100-74, 100-75, 100-76, 100-77, 100-78, 100-79, 100-80, 100-81, 100-82, 100-83, 100-84, 100-85, 100-86, 100-87, 100-88, 100-89, 100-90, 100-91, 100-92, 100-93, 100-94, 100-95, 100-96, 100-97, 100-98, 100-99, 100-100. 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- 6782
TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCUR8228 07092016
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 9871
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T638228Z01



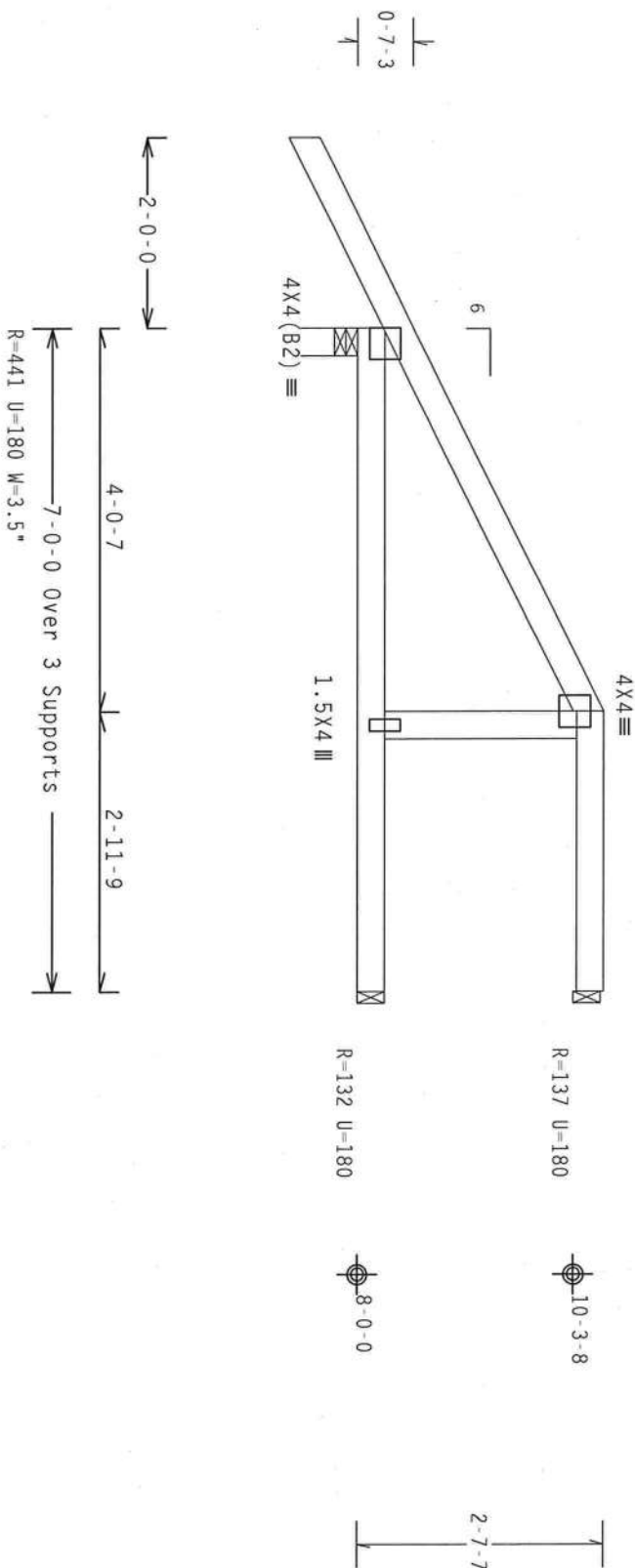
TW Building Components Group, Inc.  
Haines City, FL 33844  
TPI Certificate of Authorization #547



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,  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

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.



PLT TYP. Wave

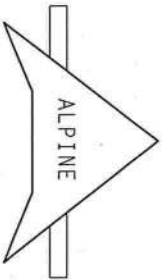
Design Crit:  $TPI-2002(STD)/FBC$  $Cq/RT=1.00(1.25)/10(0)$ 

7.24.1230

QTY: 1

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

Scale = .5"/Ft.



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

**\*\*WARNING\*\*** TRUSSES ARE EXTREMELY CARE IN FABRICATION. HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AFCA (4000 TRUSS COMPANY OF AMERICA, 6300 WEST 10TH STREET, SUITE 100, DENVER, CO 80202) FOR SAFETY PRACTICES, STAIR, PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE MINIMUM 10% OVERLAP 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 THE DESIGN OR FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

TYPE OR FABRICATING COMPANY WITH APPLICABLE PROVISIONS OR NOS (NATIONAL DESIGN SPEC., BY AIRNA) AND TPI. THE BCG TRUSS COMPANY HAS THE RIGHT TO MAKE ANY CHANGES TO THIS DESIGN WITHOUT NOTICE. A SEAL ON THIS DESIGN SHOWS THE SUFFICIENCY 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 - 6783
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCSUR8228 07092010
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEON-	9867
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T638228201

JREF- 1T638228Z01



(^^) 1 plate(s) require special positioning. refer to scared 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.  $I_w=1.00$  GCPI (+/-)=0.18

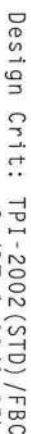
Wind reactions based on MWFRS pressures.

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.

factor for dead load is 1.50.

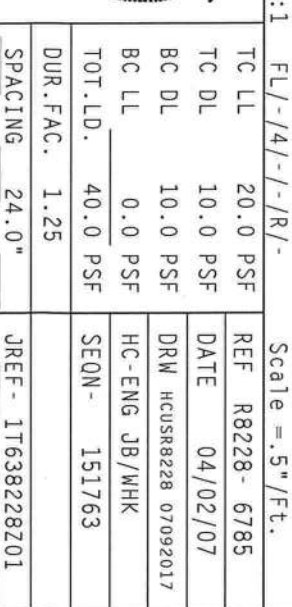

$$Cq/RT=1.00(1.25)/10(0)$$

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

Scale = .5" / Ft.

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

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 COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP11 SEC. 2.



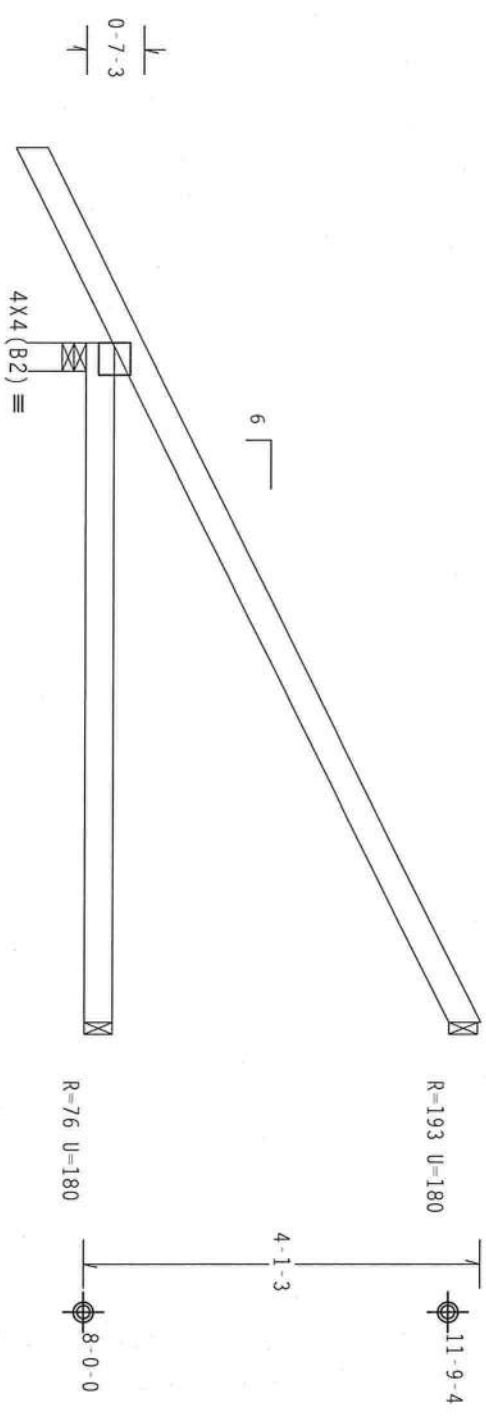


Top chord 2x4 3' #2 unise  
Bot chord 2x4 SP #2 Dense

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. 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

7-0-0 Over 3 Supports  
R=441 U=180 W=3.5"

PLT TYP. Wave

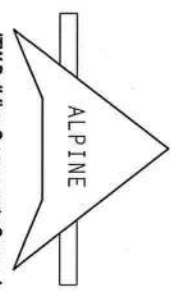
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.24.1230

QTY: 11 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, 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.



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



TC LL	20.0 PSF	REF	R8228 - 6787
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCUSR8228 07092013
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEON	9869
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T638228Z01



TOP CHORD 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
:Lt Wedge 2x4 SP #3:

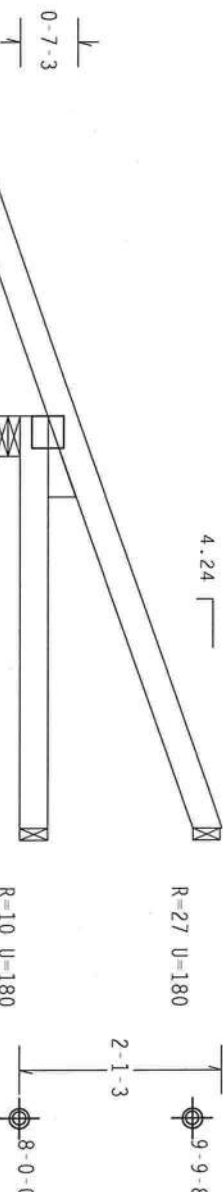
Wind reactions based on MMFRS pressures.

Hipjack supports 3-0-0 setback jacks with no webs.

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

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

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.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

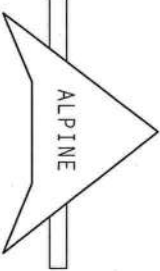
OTY:2 FL/-/4/-/-/R/-

Scale=.5"/Ft.

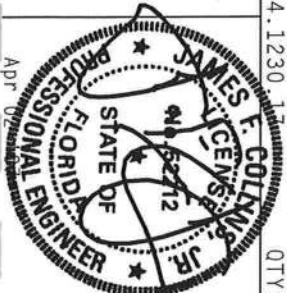
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 238 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI, 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ALPINE AND TPI. CONNECTOR PLATES ARE MADE OF 2018/1604 (W/H/S/R) ASH AND 40/60 (W, K/R, S/L) GALV. STEEL. ITW BCG FABRICATES ALL TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ALL TRUSSES ARE TO BE INSPECTED AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER. THE TRUSS COMPONENTS 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.



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



TC LL	20.0 PSF	REF R8228- 6788
TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCUSR8228 07092018
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 9950
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T638228Z01





TOP CHORD 2X4 SP #2 WENSE  
Bot chord 2X4 SP #2 Dense  
Webs 2X4 SP #3

Wind reactions based on MWFRS pressures.

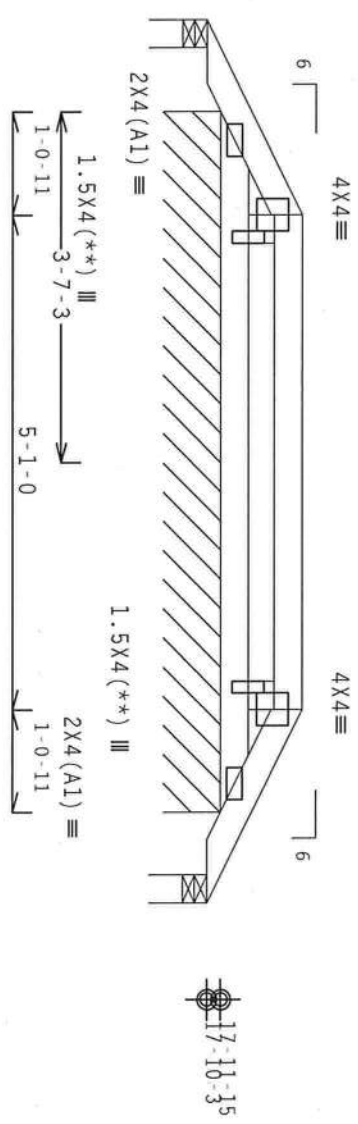
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

110 mph wind, 18.35 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCPI(+/-)=0.18

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



9-1-0 Over 3 Supports  
R=29 U=180 W=3.5"  
R=88 PLF U=25 PLF W=7-2-6  
R=29 U=180 W=3.5"

PLT TYP. Wave

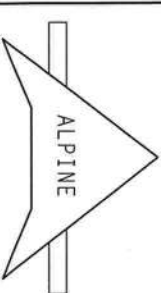
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

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

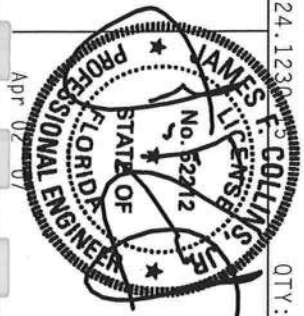
Scale = .5"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (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. TTM 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 OR BRACING THE TRUSS IN CONFORMANCE WITH THE DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. TTM BCG CONNECTION PLATES ARE MADE OF 20/10/10/6 (W/H/SS/X) ASTM A663 GRADE 40/60 (W/H/SS) GALV. STEEL. APPLY ALL RELEVANT REQUIREMENTS OF THE DESIGN, SECTION PER DRAWINGS (60% MINIMUM). 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.



TTM Building Components Group, Inc.  
Haines City, FL 33844  
Certificate # 577



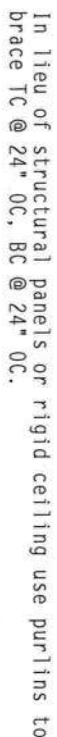
TC LL	20.0 PSF	REF R8228- 6791
TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCUR8228 07092020
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 14244
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T638228201

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.

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 = .5"/Ft.

TC LL	20.0 PSF	REF	R8228- 6792
TC DL	10.0 PSF	DATE	04/02/07
BC DL	10.0 PSF	DRW	HCSR8228 07092021
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	9903
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T638228Z01

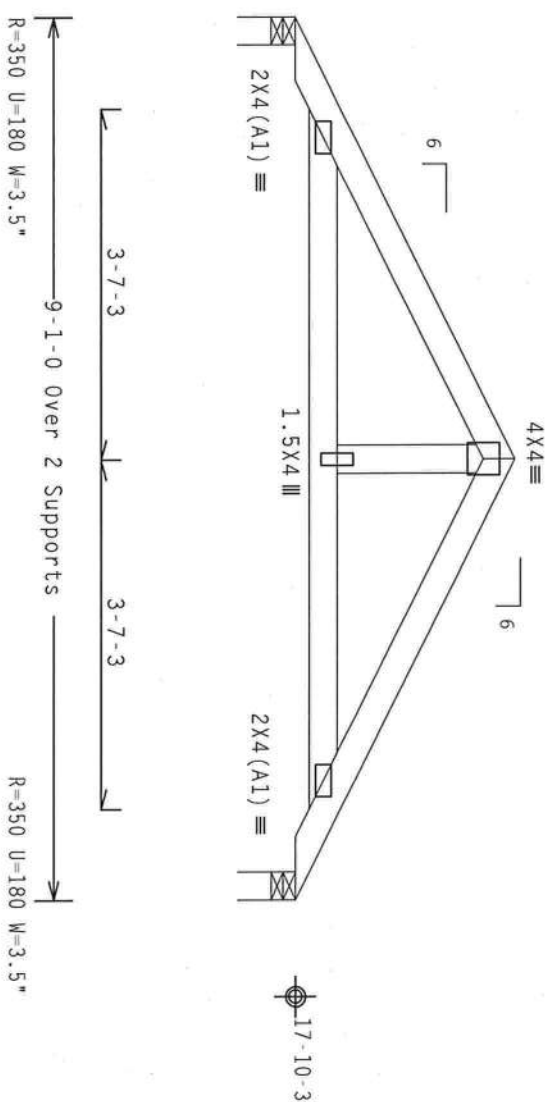


110 mph wind, 18.98 TC mean ngt, ASLE +/-, CLUSTU diag, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, IW=1.00 gcpi(+/-)-0.18

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

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 PIGBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

QTY: 1

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

Scale = .5"/Ft.

**\*\*\*WARNING\*\*\*** THESE REQUIRE EXTREME CARE IN IDENTIFICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BEST AVAILABLE COMPONENT SAFETY INFORMATION. PUBLISHED BY THE (TROSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND METC HODD TRUSSING CONSULT OF AMERICA, 65000 UNIVERSITY LANE, MANASSA, VA 52719) FOR SAFETY PRACTICES PRIOR TO TRANSFERRING THESE COMPONENTS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIDGE CEILING.

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

**BE RESPONSIBLE** ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TROSS IN CONFORMANCE WITH TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TROSSES.

CONCRETE PLATES ARE MADE OF 20/18/16GA (U./M./SS/K.) ASTM A653 GRADE 40/60 (U./K./H./SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND BRACES (HORIZONTAL LOCATED ON THIS DESIGN POSITION PER DRAWINGS 16GA-2).

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11, 2002 SEC.3, A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

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

APR 26 2006

STATE OF FLORIDA  
PROFESSIONAL ENGINEER

JAMES E. COLLINS, JR.  
No. 52212

230 QTY: 1

FL/-4/-1-/R/-		Scale = .5"/Ft.
IC LL	20.0 PSF	REF R8228- 6793
TC DL	10.0 PSF	DATE 04/02/07
BC DL	10.0 PSF	DRW HCUR8228 07092022
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SECN- 9904
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1T638228201

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

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLIB 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	ALTERNATIVE 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.

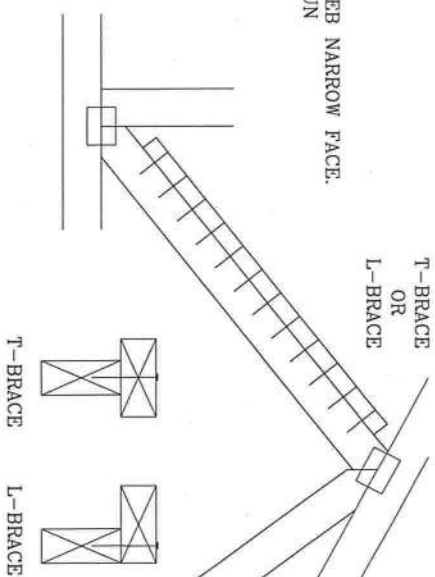


ITW BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA

\*\*WARNING\*\* THESE REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC61 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE OTHER PLANT INSTITUTE, 218 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22304 AND VITCA (VACUUM TIGHT COUPLING), AMERICA, 6300 ENTERPRISE LN, MADISON, IL 62757 FOR SAFETY PRACTICES PRIOR TO DRINKING THESE PANELS AND BOTTOM GIRDERS SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

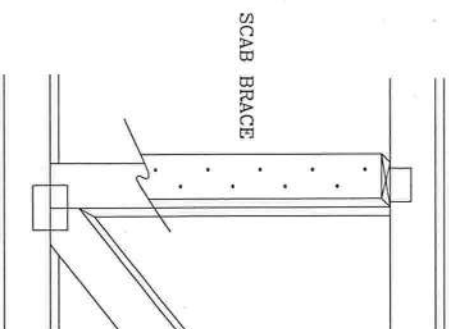
T-BRACING  
OR  
L-BRACING:

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



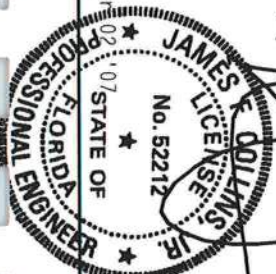
### SCAB BRACING:

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  
50% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579,640

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	2/23/07
<del>BC</del> DL	PSF	DRWG	BRCLBSUB0207
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			







**BRACING GROUP SPECIES AND GRADES:**

**GROUP A:**

SPRUCE-PINE-FIR

#1 / #2	STANDARD
#3	STUD

HEM-FIR

#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH

#3	
STUD	
STANDARD	

SOUTHERN PINE

#3	
STUD	
STANDARD	

**GROUP B:**

HEM-FIR

#1 & BTR
#1

DOUGLAS FIR-LARCH

#1
#2

**CABLE TRUSS DETAIL NOTES:**

LIVE LOAD DEFLECTION CRITERIA IS  $L/240$ .

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

CABLE END STIMPS REQUIRED FROM 4" ON

LIVE LOAD DEFLECTION CRITERIA IS  $L/240$

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER

CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

CABLE END SUPPORTS LOAD FROM 4' 0"

### PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS

\* FOR (1) "L" BRACE: SPACE NAILS AT

IN 16" 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

OPERATION	NUMBER OF TIMES	PERIOD	OPERATION	NUMBER OF TIMES
...	...	...	...	...

MEMBER LENGTH.

FEAN, OFACE, AND NEEL PLATES.



REFER TO CHART ABOVE FOR MAX CABLE VERTICAL LENGTH.



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

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**\*IMPORTANT:** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. TPI 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 BY TRUSSES. DESIGN COORDINATE WITH APPLICABLE PROVIDERS FOR NOS QUANTITIAL DESIGN SPEC. BY ARCHT AND TPI BCG. TPI BCG CONNECT PLATES ARE MADE OF 16GA GALVALANCE 16K1653 GRADE 40/61 (A.K.A) 16 GA. CONNECTION PLATES PER DRAWINGS 1604-2. AN INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX 43 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.

APR 20 1977  
STATE OF FLORIDA  
JAMES E. COLLINS  
No. 53212  
LICENSE

MAX. TOT. LD. 60 PSF	MAX. SPACING 24.0"
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REF	ASCET-98-GAB11015
DATE	2/23/07
DRWG	A11015ECO207
-ENG	

[illegible]

CABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	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

④ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

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

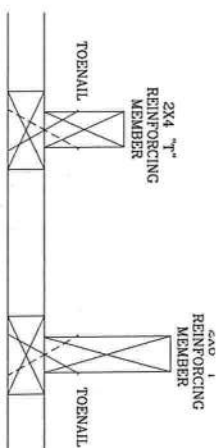
**EXAMPLE:**

2X4

1

TO CONVERT FROM  $T_v$  TO  $T_{vr}$  REINFORCING MEMBERS, MULTIPLY  $T_v$  FACTOR BY LENGTH (BASED ON CABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4  $T_v$  BRACE GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE CABLE DETAIL, FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE  $T_{vr}$  REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.



WEB LENGTH INCREASE  $W/T$  BRACE

WIND SPEED		MBR. SIZE	SBCI		ASCE	
AND MRH	REINF.					
110 MPH	2x4		10 %	10 %	50 %	
15 FT	2x6		40 %	50 %		
110 MPH	2x4		10 %	10 %	50 %	
30 FT	2x6		50 %	50 %		
100 MPH	2x4		10 %	10 %	50 %	
15 FT	2x6		30 %	50 %		
100 MPH	2x4		10 %	10 %	50 %	
30 FT	2x6		40 %	40 %		
90 MPH	2x4		20 %	10 %		
15 FT	2x6		20 %	40 %		
90 MPH	2x4		10 %	10 %		
30 FT	2x6		30 %	50 %		
80 MPH	2x4		10 %	20 %		
15 FT	2x6		10 %	30 %		
80 MPH	2x4		20 %	10 %		
30 FT	2x6		20 %	40 %		
70 MPH	2x4		0 %	20 %		
15 FT	2x6		0 %	20 %		
70 MPH	2x4		10 %	20 %		
30 FT	2x6		10 %	30 %		

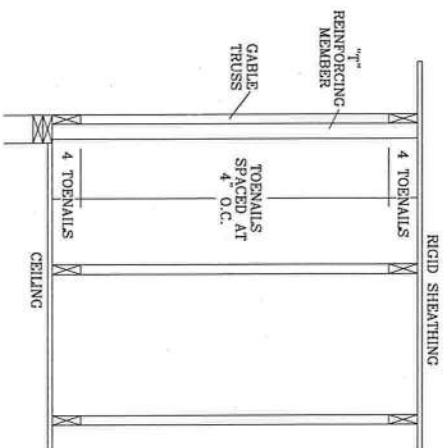
**EXAMPLE:**

ASCE WIND SPEED = 100 MPH  
MEAN ROOF HEIGHT = 30 FT

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

REINFORCING MEMBER SIZE = 2X4

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



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." 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.

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

ASCE 7-93 CABLE DETAIL, DRAWINGS

    A11015E0207, A11015E0207, A09015E0207, A08015E0207, A07015E0207,  
    A11030E0207, A10030E0207, A09030E0207, A08030E0207, A07030E0207

ASCE 7-98 CABLE DETAIL, DRAWINGS

    A11015E0207, A12015E0207, A11015E0207, A08015E0207,  
    A13030E0207, A12030E0207, A11030E0207, A10030E0207, A08030E0207

ASCE 7-02 CABLE DETAIL, DRAWINGS

    A13015E0207, A12015E0207, A11015E0207, A10015E0207, A08015E0207,  
    A13030E0207, A12030E0207, A11030E0207, A10030E0207, A08030E0207

ASCE 7-05 CABLE DETAIL, DRAWINGS

    A13015E0207, A12015E0207, A11015E0207, A10015E0207, A08015E0207,  
    A13030E0207, A12030E0207, A11030E0207, A10030E0207, A08030E0207

SEE APPROPRIATE ALPINE CABLE DETAIL, (ASCE OR SBCCI

WIND LOAD) FOR MAXIMUM UNREINFORCED CABLE

VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE

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

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**\*\*IMPORTANT:** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1, OR APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY ARCAH AND TP1 DESIGN COMPLIES WITH ALL APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY ARCAH AND TP1 DESIGN. BEFORE APPLYING PLATES TO EACH END OF TRUSSES AND SIZES OTHERWISE IDENTIFIED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. AN INSPECTION OF PLATES FOLLOWED BY GD SHALL BE PERFORMED AS REQUIRED BY TP1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER USNTP/TP1 SEC. 2.

No. 52212

4.

STATE OF

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

-ENG DLJ/KAR

DATE 2/23/07

DRWG GBLLETINO207

-ENG DLJ/KAR



# PIGGYBACK DETAIL

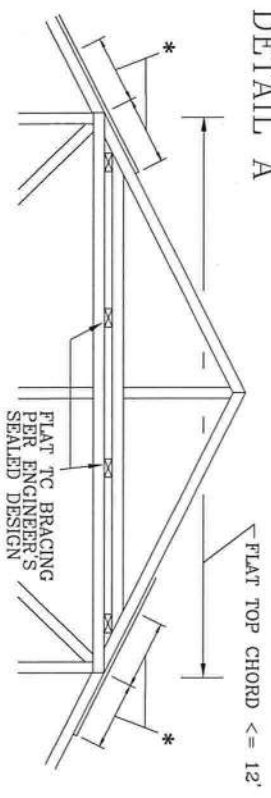
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02 OR ASCE 7-05, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

80 MPH WIND, 30.00 FT MEAN HGT, SBC, ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

100 MPH WIND, 30.00 FT MEAN HGT, 98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

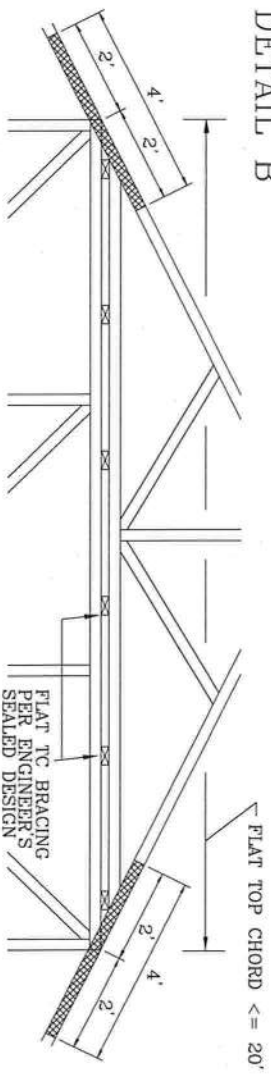
## DETAIL A



PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS.

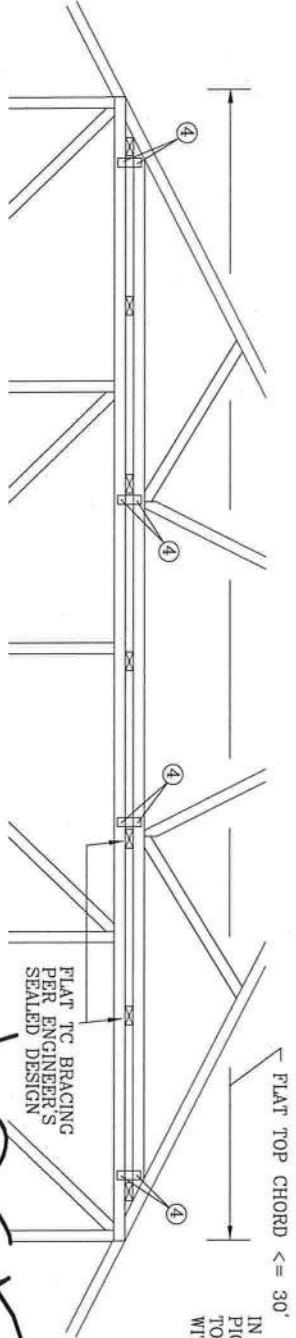
\* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5") OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

## DETAIL B



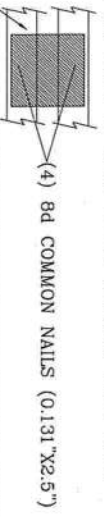
PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND SECURED WITH 2X4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

## DETAIL C



CAP TRUSS TOENAILED TO TOP CHORD BRACING AND SECURED WITH 3X8 TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS. CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 1607L FOR TRULOX 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.



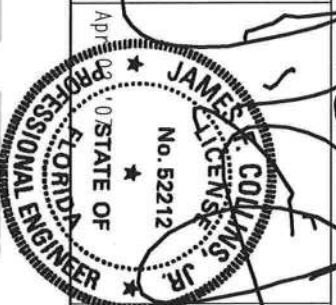
THIS DRAWING REPLACES DRAWINGS 581,670 & 961,960



ITW BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA

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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"		

TOP	CHORD	2X4	#2	OR	BETTER
BOT	CHORD	2X4	#2	OR	BETTER
	WEBS	2X4	#3	OR	BETTER

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGBACK 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

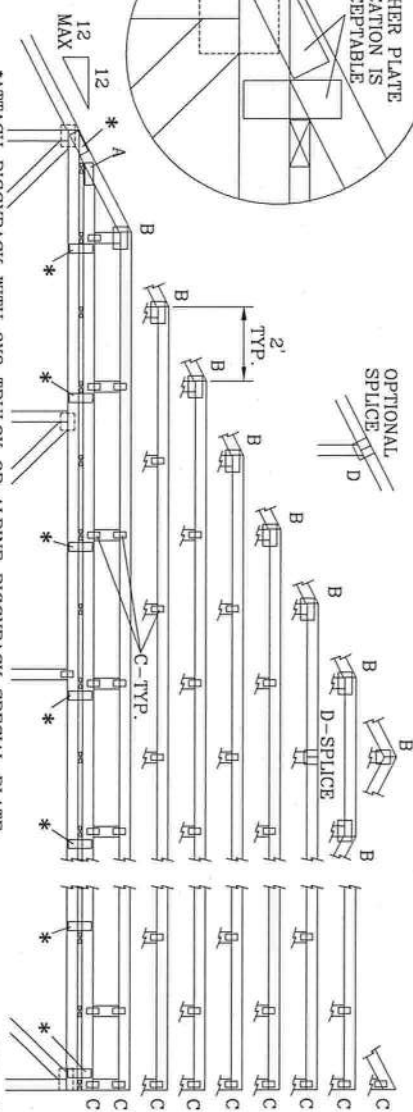
110 MPH WIND, 30' MEAN HGT, SBC

ENCLOSED BLDG, LOCATED ANYWHERE IN 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.



OPTIONAL,  
SPLICE



\*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE

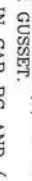
~~THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045~~

## ALPINE

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

ANNEX 43 OF TPI 1-8002 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.

(4) 6d BOX (0.099" X 2", MIN) NAILS.



8" X 6" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES, ATTACH WITH (8) 6d BOX (0.099" X 2", MIN) NAILS PER GUSSET.

(4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

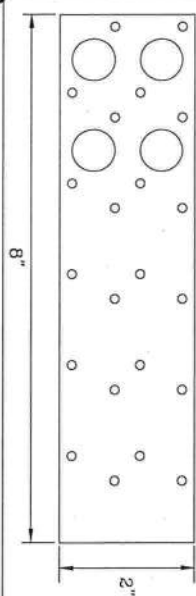
JOINT TYPE	SPANS UP TO			
	30'	34'	36'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (3) 0.120" X 1.375" NAILS OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 <sup>11</sup> / <sub>16</sub> " BRACE. SAME GRADE SPECIES AS WEB MEMBER. OR BETTER. AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 6d BOX (0.113" X 2.5" MIN) NAILS AT 4" OC.
10' TO 14'	2x4 <sup>11</sup> / <sub>16</sub> " BRACE. SAME GRADE SPECIES AS WEB MEMBER. OR BETTER. AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d BOX (0.135" X 3.5" MIN) NAILS AT 4" OC.

\* PIGGYBACK SPECIAL PLATE

ATTACH 12BTH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



MAX LOADING

55 PSF AT

1.33 DUR. FAC.

50 PSF AT

1.25 DUK. FAC.

1.15 DUR. FAC.

24.0"

REF PIGGYBA

DATE 2/23/07

DRWG: PIGBACKB0207

-ENG DLJ/KAR

1000

100

10

MAX GABLE VERTICAL LENGTH													
2x4 GABLE VERTICAL 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 B
			GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	
24" O.C.	SPF HF	#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"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
	SP	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
	DFL	STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
		#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.	SPF 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"
		#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	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' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	13' 3"	13' 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"	14' 0"
	DFL	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"
		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF HF	STUD	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	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"
		#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"
		STUD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	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"
		#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"	14' 0"

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

GROUP B:	
HEM-PIR #1 & BTR #1	SOUTHERN PINE #1 #2
	DOUGLAS FIR-LARCH #1 #2

CABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS  $L/240$ .

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

GABLE END SUPPORTS LOAD FROM 4' 0"

PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

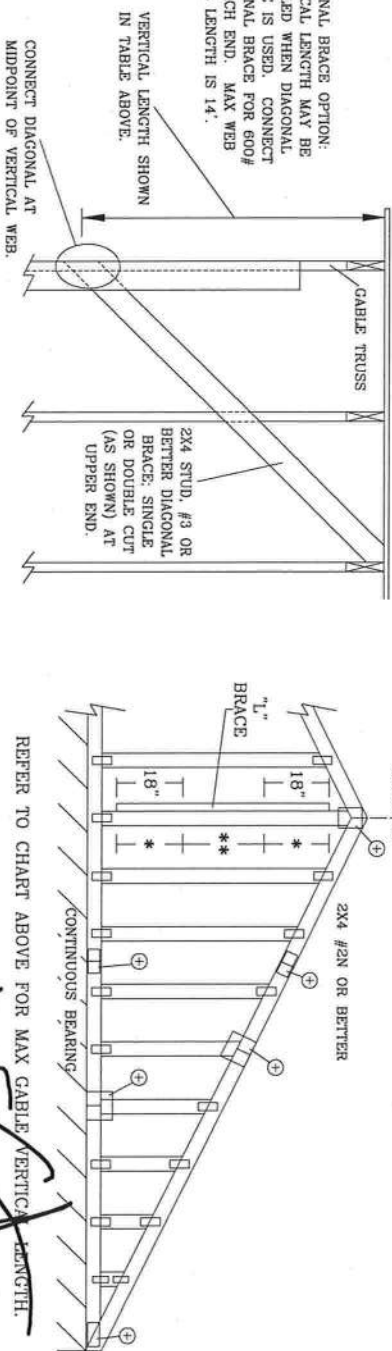
IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"1" BRACING MUST BE A MINIMUM OF 80% OF WEB

MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1x4 OR 2x3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2x4
GREATER THAN 11' 6"	2.5x4

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



REFER TO CHART ABOVE FOR MAX GABLE/VERTICAL LENGTH.

DIAGONAL BRACE OPTION:  
VERTICAL LENGTH MAY BE  
DOUBLED WHEN DIAGONAL  
BRACE IS USED. CONNECT  
DIAGONAL BRACE FOR 600#  
AT EACH END. MAX WEB  
TOTAL LENGTH IS 14'.

VERTICAL LENGTH SHOWN  
IN TABLE ABOVE.

CONNECT DIAGONAL AT  
MIDPOINT OF VERTICAL WEB.

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.  
POMPANO BEACH, FLORIDA

\*\*\*IMPORTANT\*\*\* FLUORISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITR BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, AND FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH ITR, OR FABRICATING, HANDLING, SHIPPING, INSTALLING, OR BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY A780-A1 AND ITR. ITR BCG CONNECTOR PLATES ARE MADE OF 20/80/1600 GA. UNLESS OTHERWISE SPECIFIED 40/60 (X/4) TRUSS SPLITTING PLATES TO EACH FACE OF STUDS AND CHAINS. THE TRUSS LAYOUT ON THIS PERMITTING APPLICATION PERmits THE TRUSS TO BE BUILT IN ACCORDANCE WITH THE TRUSS DESIGN AND ANNEX A3 OF ITR 1-2009 SEC. 3.6. FOR THE TRUSS BEARING INDICES ACCEPTED FOR THIS PERMITTING APPLICATION, THE TRUSS DESIGNER HAS ACCEPTED THE TRUSS DESIGN AND THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING. THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ITR/PT 1, SEC. 2.

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-02-CAB1015

DATE 2/23/07

DRWG A11015EE0207

-ENG



## Project Summary

### Entire House

Touchstone Heating and Air, Inc.

Job: Gotshall Residence Cr...  
Date: Apr 03, 2007  
By:

P.O. Box 327, Lake Butler, FL 32054 Phone: 386-496-3467 Fax: 386-496-3147

## Project Information

For: Stanley Crawford  
1531 S. W. Commercial Glen, Lake City, FL 32026

Notes:

## Design Information

Weather: Gainesville, FL, US

### Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

### Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

### Heating Summary

Structure	22653 Btuh
Ducts	5742 Btuh
Central vent (60 cfm)	2413 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	30808 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	17733 Btuh
Ducts	7226 Btuh
Central vent (60 cfm)	1109 Btuh
Blower	0 Btuh

### Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft²)	1842	1842
Volume (ft³)	15909	15909
Air changes/hour	0.46	0.20
Equiv. AVF (cfm)	121	53

Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	25286 Btuh

### Latent Cooling Equipment Load Sizing

Structure	3064 Btuh
Ducts	1630 Btuh
Central vent (60 cfm)	2096 Btuh
Equipment latent load	6791 Btuh

Equipment total load	32076 Btuh
Req. total capacity at 0.70 SHR	3.0 ton

### Heating Equipment Summary

Make	Trane
Trade	XR12 Weathertron
Model	2TWR2036A1
Efficiency	8.6 HSPF
Heating input	32800 Btuh @ 47°F
Heating output	29 °F
Temperature rise	1035 cfm
Actual air flow	0.036 cfm/Btuh
Air flow factor	0.00 in H2O
Static pressure	
Space thermostat	

### Cooling Equipment Summary

Make	Trane
Trade	XR12 Weathertron
Cond	2TWR2036A1
Coil	TUY100R9V4+TXC037E5
Efficiency	13 SEER
Sensible cooling	25340 Btuh
Latent cooling	10860 Btuh
Total cooling	36200 Btuh
Actual air flow	1035 cfm
Air flow factor	0.041 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0.79

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



FORM 500A-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>GOTSHALL</b>	Builder: <b>STANLEY CRAWFORD</b>
Address:	Permitting Office:
City, State:	Permit Number:
Owner:	Jurisdiction Number:
Climate Zone: <b>North</b>	

- |   |  |
|---|--|
| <p>1. New construction or existing <span style="float: right;">New</span></p> <p>2. Single family or multi-family <span style="float: right;">Single family</span></p> <p>3. Number of units, if multi-family <span style="float: right;">1</span></p> <p>4. Number of Bedrooms <span style="float: right;">3</span></p> <p>5. Is this a worst case? <span style="float: right;">Yes</span></p> <p>6. Conditioned floor area (ft<sup>2</sup>) <span style="float: right;">1840 ft<sup>2</sup></span></p> <p>7. Glass type<sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)</p> <p style="margin-left: 20px;">a. U-factor: <span style="float: right;">Description Area</span></p> <p style="margin-left: 40px;">(or Single or Double DEFAULT) 7a. (Dble Default) 245.0 ft<sup>2</sup></p> <p style="margin-left: 20px;">b. SHGC:</p> <p style="margin-left: 40px;">(or Clear or Tint DEFAULT) 7b. (Clear) 245.0 ft<sup>2</sup></p> <p>8. Floor types</p> <p style="margin-left: 20px;">a. Slab-On-Grade Edge Insulation <span style="float: right;">R=0.0, 220.0(p) ft</span></p> <p style="margin-left: 20px;">b. N/A</p> <p style="margin-left: 20px;">c. N/A</p> <p>9. Wall types</p> <p style="margin-left: 20px;">a. Frame, Wood, Exterior <span style="float: right;">R=13.0, 1152.0 ft<sup>2</sup></span></p> <p style="margin-left: 20px;">b. Frame, Wood, Adjacent <span style="float: right;">R=13.0, 266.0 ft<sup>2</sup></span></p> <p style="margin-left: 20px;">c. N/A</p> <p style="margin-left: 20px;">d. N/A</p> <p style="margin-left: 20px;">e. N/A</p> <p>10. Ceiling types</p> <p style="margin-left: 20px;">a. Under Attic <span style="float: right;">R=30.0, 1840.0 ft<sup>2</sup></span></p> <p style="margin-left: 20px;">b. N/A</p> <p style="margin-left: 20px;">c. N/A</p> <p>11. Ducts</p> <p style="margin-left: 20px;">a. Sup: Unc. Ret: Unc. AH: Garage <span style="float: right;">Sup. R=6.0, 288.0 ft</span></p> <p style="margin-left: 20px;">b. N/A</p> | <p>12. Cooling systems</p> <p style="margin-left: 20px;">a. Central Unit <span style="float: right;">Cap: 36.0 kBtu/hr</span></p> <p style="margin-left: 40px;">SEER: 13.00</p> <p style="margin-left: 20px;">b. N/A</p> <p style="margin-left: 20px;">c. N/A</p> <p>13. Heating systems</p> <p style="margin-left: 20px;">a. Electric Heat Pump <span style="float: right;">Cap: 35.0 kBtu/hr</span></p> <p style="margin-left: 40px;">HSPF: 7.70</p> <p style="margin-left: 20px;">b. N/A</p> <p style="margin-left: 20px;">c. N/A</p> <p>14. Hot water systems</p> <p style="margin-left: 20px;">a. Electric Resistance <span style="float: right;">Cap: 50.0 gallons</span></p> <p style="margin-left: 40px;">EF: 0.92</p> <p style="margin-left: 20px;">b. N/A</p> <p style="margin-left: 20px;">c. Conservation credits</p> <p style="margin-left: 40px;">(HR-Heat recovery, Solar</p> <p style="margin-left: 40px;">DHP-Dedicated heat pump)</p> <p>15. HVAC credits</p> <p style="margin-left: 20px;">(CF-Ceiling fan, CV-Cross ventilation,</p> <p style="margin-left: 20px;">HF-Whole house fan,</p> <p style="margin-left: 20px;">PT-Programmable Thermostat,</p> <p style="margin-left: 20px;">MZ-C-Multizone cooling,</p> <p style="margin-left: 20px;">MZ-H-Multizone heating)</p> |
|---|--|

Glass/Floor Area: 0.13

Total as-built points: 24901

Total base points: 24920

**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

DATE: 4-2-07

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.



FORM 600A-2004R

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**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	18.50	6157.0	1.Double, Clear	E	2.0	6.0	71.0	42.06	0.85	2532.0	
				2.Double, Clear	W	2.0	6.0	112.0	38.52	0.85	3664.0	
				3.Double, Clear	S	2.0	6.0	22.0	35.87	0.78	612.0	
				4.Double, Clear	N	2.0	6.0	40.0	19.20	0.90	691.0	
				As-Built Total:				246.0	7499.0			
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points					
Adjacent	266.0	0.70	186.2	1. Frame, Wood, Exterior	13.0		1152.0	1.50	1728.0			
Exterior	1152.0	1.70	1958.4	2. Frame, Wood, Adjacent	13.0		266.0	0.60	159.6			
Base Total:				As-Built Total:				1418.0	1887.6			
DOOR TYPES Area X BSPM = Points				Type			Area X SPM = Points					
Adjacent	18.0	2.40	43.2	1.Exterior Insulated			60.0	4.10	246.0			
Exterior	60.0	6.10	366.0	2.Adjacent Insulated			18.0	1.60	28.8			
Base Total:				As-Built Total:				78.0	274.8			
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			
Base Total:				As-Built Total:				1840.0	3183.2			
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points					
Slab	220.0(p)	-37.0	-8140.0	1. Slab-On-Grade Edge Insulation	0.0		220.0(p)	-41.20	-9064.0			
Raised	0.0	0.00	0.0									
Base Total:				As-Built Total:				220.0	-9064.0			
INFILTRATION Area X BSPM = Points								Area X SPM = Points				
1840.0 10.21 18786.4								1840.0	10.21	18786.4		

FORM 600A-2004R

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# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE			AS-BUILT						
<b>Summer Base Points: 22540.4</b>			<b>Summer As-Built Points: 22567.0</b>						
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
			(sys 1: Central Unit 36000Btu/h, SEER/EFF(13.0) Ducts.Unc(S).Unc(R).Gas(AH).R6.0(INS)						
22540.4	0.3250	7325.6	22567.0	1.00	(1.09 x 1.147 x 1.00)	0.260	1.000	7335.6	
				1.00	1.250	0.260	1.000	7335.6	

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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 Omt Len Hgt			Area X WPM X WOF = Point			
.18	1840.0	20.17	6680.0	1.Double, Clear	E	2.0	6.0	71.0	18.79	1.06	1415.0
				2.Double, Clear	W	2.0	6.0	112.0	20.73	1.04	2420.0
				3.Double, Clear	S	2.0	6.0	22.0	13.30	1.26	368.0
				4.Double, Clear	N	2.0	6.0	40.0	24.58	1.00	987.0
				As-Built Total:			248.0		6190.0		
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	268.0	3.60	957.6	1. Frame, Wood, Exterior	13.0			1152.0	3.40	3916.8	
Exterior	1152.0	3.70	4282.4	2. Frame, Wood, Adjacent	13.0			266.0	3.30	877.8	
Base Total:				As-Built Total:			1418.0		4794.6		
DOOR TYPES Area X BWPM = Points				Type				Area X WPM = Points			
Adjacent	18.0	11.50	207.0	1.Exterior Insulated				60.0	8.40	504.0	
Exterior	60.0	12.30	738.0	2.Adjacent Insulated				18.0	8.00	144.0	
Base Total:				As-Built Total:			78.0		648.0		
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	
Base Total:				As-Built Total:			1840.0		3772.0		
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Slab	220.0(p)	8.9	1958.0	1. Slab-On-Grade Edge Insulation	0.0			220.0(p)	18.80	4136.0	
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:			220.0		4136.0		
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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**WINTER CALCULATIONS****Residential Whole Building Performance Method A - Details**

ADDRESS: , , ,

PERMIT #:

BASE			AS-BUILT					
Winter Base Points: 17489.4			Winter As-Built Points: 17455.0					
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
17489.4	0.5540	9689.1	(sys 1: Electric Heat Pump 35000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 17455.0 1.000 (1.069 x 1.169 x 1.00) 0.443 1.000 9660.0					
17489.4	0.5540	9689.1	17455.0	1.00	1.250	0.443	1.000	9660.0

FORM 600A-2004R

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**WATER HEATING & CODE COMPLIANCE STATUS**

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT					
<b>WATER HEATING</b>									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank X Ratio Multiplier	Credit = Total Multiplier	
3		2635.00	7905.0	50.0	0.92	3	1.00 2635.00	1.00	7905.0
				As-Built Total:					7905.0

**CODE COMPLIANCE STATUS**

BASE				AS-BUILT			
Cooling Points	+	Heating Points	+ Hot Water Points = Total Points	Cooling Points	+	Heating Points	+ Hot Water Points = Total Points
7326		9689	7905 24920	7336		9660	7905 24901

**PASS**



FORM 600A-2004R

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## 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, sealed.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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

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

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 84.4**

**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>		
7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 35.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 245.0 ft <sup>2</sup>		IISPF: 7.70
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 245.0 ft <sup>2</sup>	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 220.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.92
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1152.0 ft <sup>2</sup>	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 266.0 ft <sup>2</sup>	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1840.0 ft <sup>2</sup>	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 288.0 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 FIA/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 area, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge<sup>®</sup> (Version: FLRCSB v4.5)

**Summary of Products**

FL #	Model, Number or Name	Description
7474.1	Series 3180 Vinyl Fixed Window	Series 3180 Vinyl Fixed Window O Configuration Up to 48" x 72"
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +50 /-50 <b>Other:</b>		<b>Certification Agency Certificate</b> <a href="#">FL7474_R0_C_CAC_NI006586.pdf</a> <b>Installation Instructions</b> <a href="#">FL7474_R0_II_FL_00013A.pdf</a> Verified By: Luis R. Lomas P.E. FL 62514

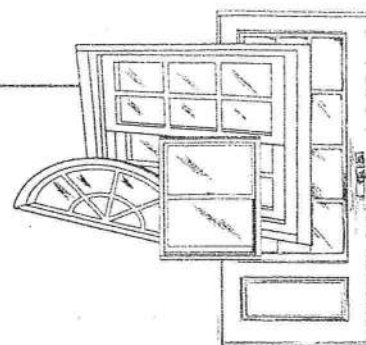
# CERTIFIED TESTING LABORATORIES

Architectural Division • 7252 Narcoossee Rd. • Orlando, FL 32822

(407) 384-7744 • Fax (407) 384-7751

Web Site: [www.ctlarch.com](http://www.ctlarch.com)

E-mail: [ctlarch.com](mailto:ctlarch.com)



Report Number: CTLA-1038W-2-AWT  
Report Date: March 4, 2003

## STRUCTURAL PERFORMANCE TEST REPORT

Client: ACTION WINDOOR TECHNOLOGY INC.  
1312 W. CROSBY ROAD  
CARROLLTON, TX 75006

Product Type and Series: AWT Series 3180 Vinyl Fin Frame Picture Window F-R80 (48"x 72")

Test Specifications: AAMA/NWWDA 101/I.S.2-97 "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"

Frame: Vinyl Fin frame measured 47.50" wide x 71.50" high overall. Mitered corner weld construction. Clear lite measured 44.50" wide x 68.50" high.

Ventilator: N/A

Weather Stripping: N/A

Hardware & Location: N/A

Glazing: 3/4" insulated annealed glass consisting of .1875" glass .375" air space with swiggle .1875" glass. Sash exterior glazed. Fixed lite interior glazed adhesive foam strip backbedding and vinyl snap in glazing bead.

Sealant: A silicone type sealant was used at frame corners and to seal specimen to test buck.

Weep System: N/A

Muntins: N/A

Reinforcement: N/A

Additional Description: N/A

Screen: N/A

Installation: Twenty-eight (28) 1.75" roofing nails were used to secure the specimen to the wood test buck. Six (6) were located in head and sill measuring 5.50", 13", 20.625", 28.25", 35.875" and 43.50" from left jamb. Eight (8) were located in each jamb measuring 5.50", 14", 22.75", 31.50", 40", 48.75", 57.75" and 66.50" from sill.

Surface Finish: White Vinyl

Comment: Nominal 2 mil polyethylene film was used to seal against air leakage during structural loads. The film was used in a manner that did not influence the test results.

## Performance Test Results

<u>Paragraph No</u>	<u>Title of Test</u>	<u>Method</u>	<u>Measured</u>	<u>Allowed</u>
2.1.2	Air Infiltration @1.57 psf	ASTM E283-91	.02 cfm/ft <sup>2</sup>	.34 cfm/ft <sup>2</sup>
The tested specimen meets or exceeds the performance levels specified in AAMA/NWWDA 101/I.S.2-97. Results recorded in two (2) decimals at the clients request.				
2.1.3	Water Resistance @ 5.0 gph/ft <sup>2</sup>	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 13.5 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
2.1.4.2	Uniform Load Structural Permanent Deformation @ 120 psf positive @ 120 psf negative	ASTM E330-90 Ten (10) second load	Neg. Neg.	.192" .192"
2.1.7	Welded Corner Test	AAMA/NWWDA 101/ IS2-97	Passed	
2.1.8	Forced Entry Resistance Test D Window Assemblies This specimen as tested complies to a grade 10-T <sup>1</sup> =5 minutes Tools used: A spatula (10.1.1.1) and a piece of stiff wire (10.1.3.2)	ASTM F 588-97	Passed	



**Test Date** January 28, 2003

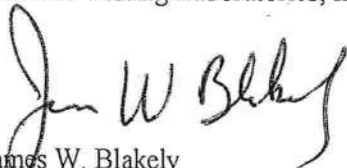
**Test Completion Date:** January 28, 2003

**Remarks:** Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

Certified Testing Laboratories, Inc.



James W. Blakely  
Vice President  
Architectural Division

cc: Action Windoor Technology Inc. (3)  
File (1)

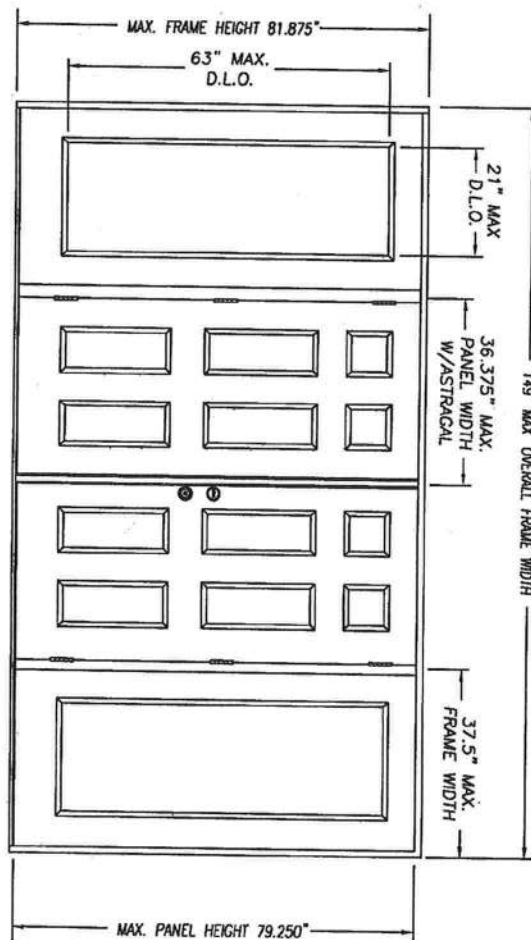


## GENERAL NOTES

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, DOES 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 DEVELOPMENT INDEX OF 60 PER ASTM E84
4. PLASTICS TESTING OF LITE FRAME MATERIAL.

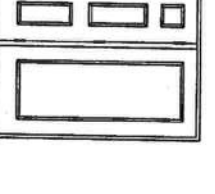
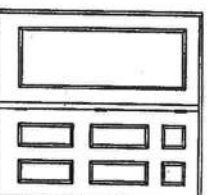
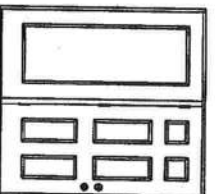
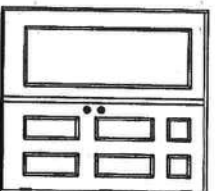
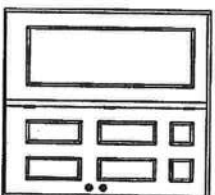
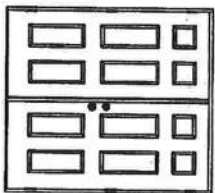
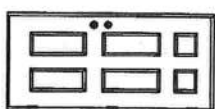
TEST DESCRIPTION	DESIGNATION	RESULT
SELF IGNITION TEMP	ASTM D1929	680 °F > 650 °F
RATE OF BURNING	ASTM D635	1.10 IN/MIN
SMOKE DENSITY	ASTM D2843	69.6%
TENSILE STRENGTH*	ASTM D638	-7.48% DIFF

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



DOUBLE INSWING UNIT W/SIDELITES

Addendum to NME  
 Certification No.: NT0006110  
 Released By: [Signature]  
 Date Released: 8/10/05



SINGLE DOOR UNIT

DOUBLE DOOR UNIT

SINGLE DOOR UNIT  
WITH SIDELITE

SINGLE DOOR UNIT  
WITH SIDE LITE

SINGLE DOOR UNIT W/SIDE LITES

DOUBLE DOOR UNIT W/SIDELITES

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 1% OF DESIGN PRESSURE
		INSWING	OUTSWING		INSWING	
X	37.5"	+76.0 / -76.0	+76.0 / -76.0	+19.0 / -19.0	+55.0 / -55.0	
XX	75"	+55.0 / -55.0	+55.0 / -55.0	+19.0 / -19.0	+55.0 / -55.0	
OX or XO	75"	+55.0 / -55.0	+55.0 / -55.0	+19.0 / -19.0	+55.0 / -55.0	
XXO	112.5"	+55.0 / -55.0	+55.0 / -55.0	+19.0 / -19.0	+55.0 / -55.0	
OXO	149"	+93.0 / -55.0	+93.0 / -55.0	+19.0 / -19.0	+55.0 / -55.0	

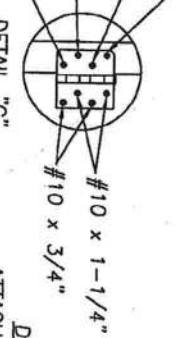
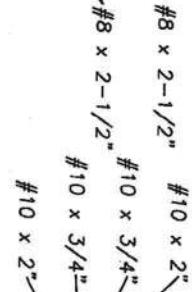
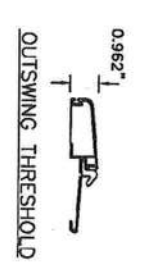
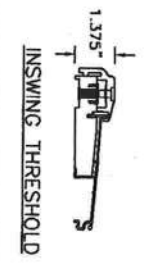
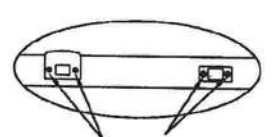
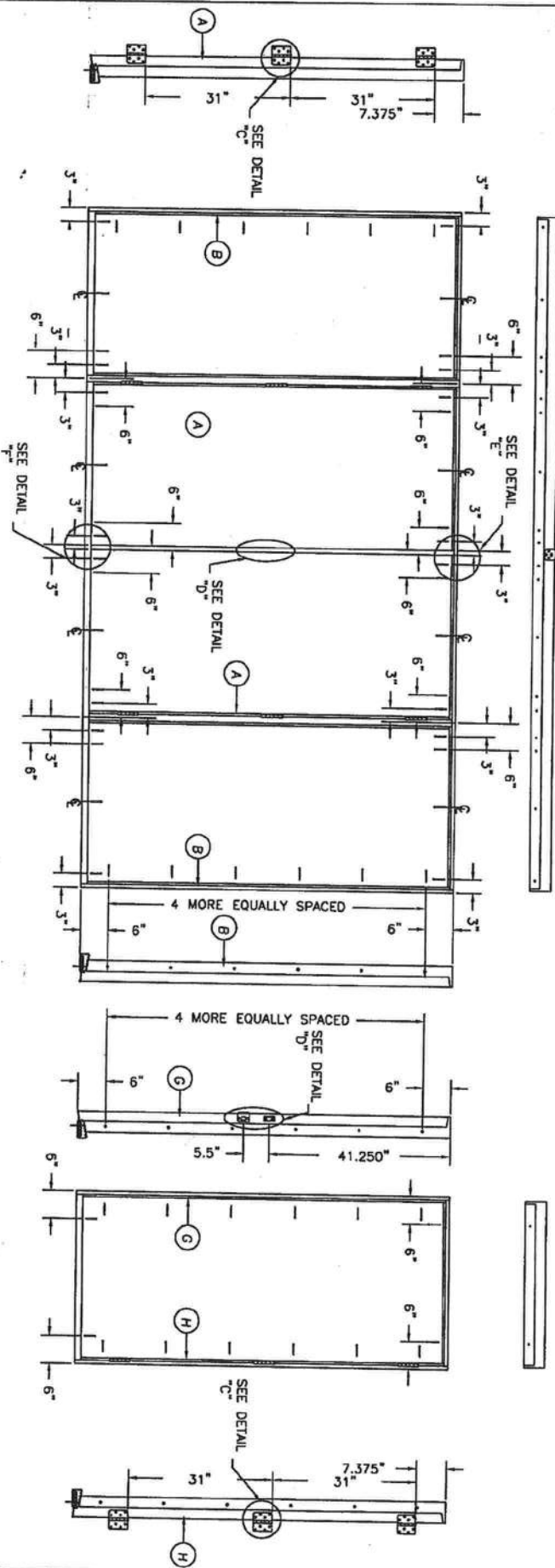
WHERE WATER INFILTRATION PERFORMANCE IS REQUIRED TO BE 15% OF DESIGN PRESSURE

[illegible]

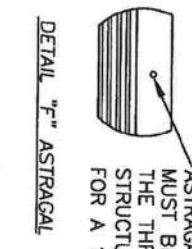
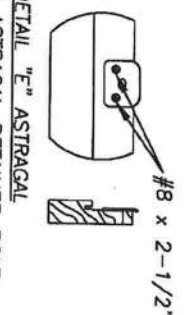
**PRODUCT:**  
"EXTERIOR DOOR PRODUCT"  
DOUBLE 6'8" OPAQUE  
WOOD-EDGE STEEL DOOR

**PART OR ASSEMBLY:**  
TYPICAL ELEVATIONS  
& GENERAL NOTES

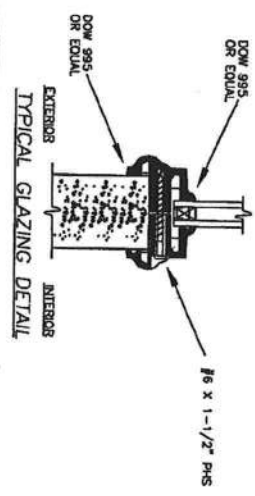
MASONITE INTERNATIONAL CORP.  
7300 REAMES RD.  
CHARLOTTE, NC 28216



ATTACH ASTRAGAL RETAINER BOLT  
AS SHOWN.



ASTRAGAL RETAINER BOLT HOLE  
MUST BE DRILLED THROUGH  
THE THRESHOLD & INTO THE  
STRUCTURE DEEP ENOUGH  
FOR A 1.375\"/>



Approved by: **NICOLELLO**  
Reviewed by: **8/10/05**  
Date Reviewed: **8/10/05**

(E)

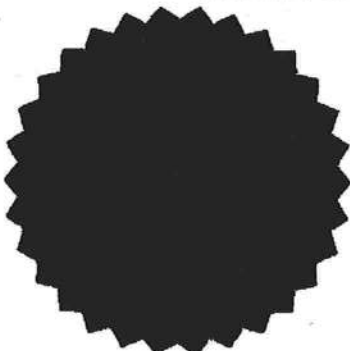
DATE: 7/11/05	SCALE: N.T.S.	CHK. BY: SMS	DWG. NO.: DMC-44-R10128-05	SHEET 2 OF 3	
					<div>PRODUCT: "EXTERIOR DOOR PRODUCT" DOUBLE 6'-8" OPAQUE WOOD-EDGE STEEL DOOR</div> <div>PART OR ASSEMBLY: ANCHORING LOCATIONS &amp; DETAILS</div>
NO.      DATE      REVISIONS					BY

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



DATE: 7/17/05 SCALE: N.T.S. DWG. BR: SMS CHK. BY: DRAWING NO.: DWG-44-F-10128-05 SHEET 3 OF 3					PRODUCT: "EXTERIOR DOOR PRODUCT" 6"-8" WOOD-EDGE STEEL OPAQUE DOUBLE DOOR UNIT		MASONITE INTERNATIONAL CORP. 7300 REAMES RD. CHARLOTTE, NC 28216
					PART OR ASSEMBLY: ANCHORING LOCATIONS & DETAILS		
NO.		DATE		BY			
REVISIONS							

## 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.

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



**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.:** NI006110-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: 30" 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.:** NT006110-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

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 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" 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" 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" 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" 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" 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" Installation Drawings-MA-FL0129-05
OXXO 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" Installation Drawings-MA-FL0129-05
OXXO 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" 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 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05 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
OXXO 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
OXXO 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

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 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	Missile 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

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Tel-757.594.8658/Fax-757.594.8659

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## SITE NAVIGATION



Home



Course Accreditation



Florida Building Code



Manufact. Buildings



Prototype Building



Surcharges



Training



License Search



Mailing List



Florida Building Commission

## 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

			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.
4904.8	Wood-edge Steel Side-Hinged Door Units	8'-0" Glazed 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 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.

Next



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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.

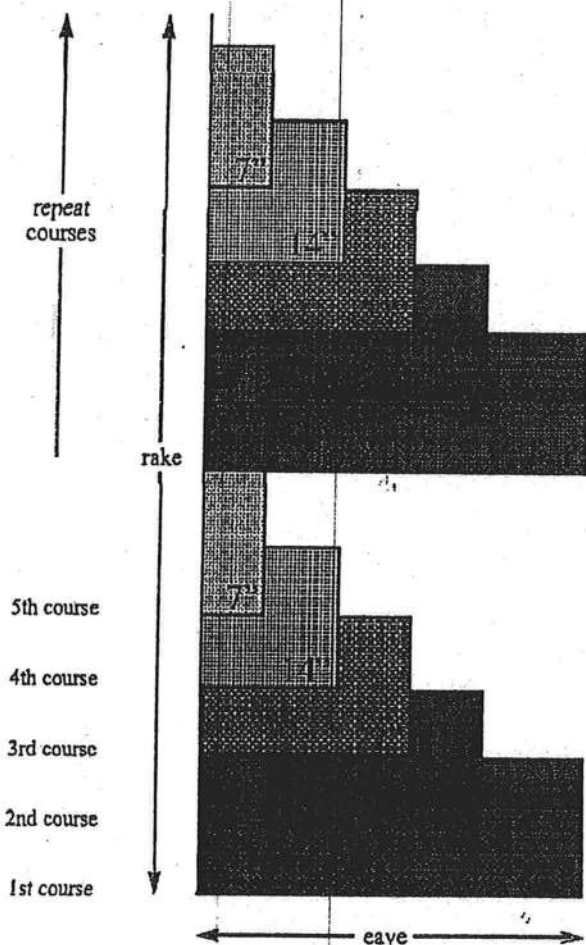
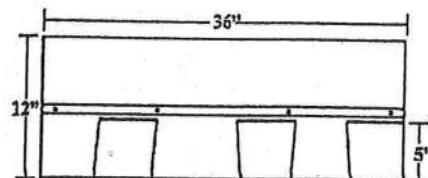
Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

**TAMKO Roofing Products, Inc.**

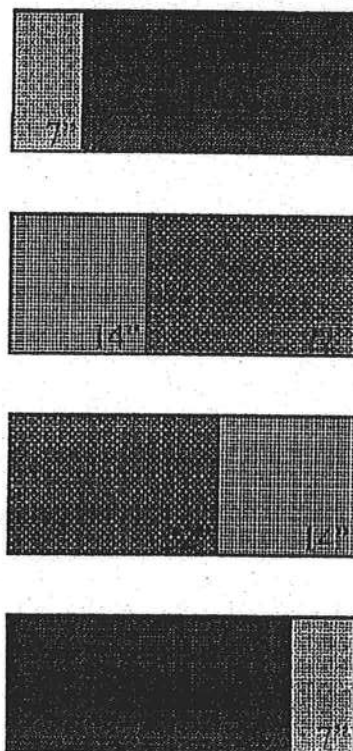


## Application Instructions For Heritage® 40 & 30 Series Shingles

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 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 40, Heritage 30, Heritage 40 AR, and Heritage 30 AR shingles.

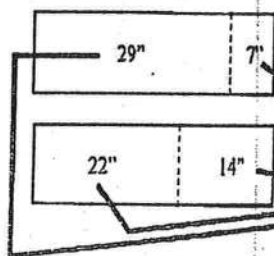
**TAMKO**

ROOFING PRODUCTS

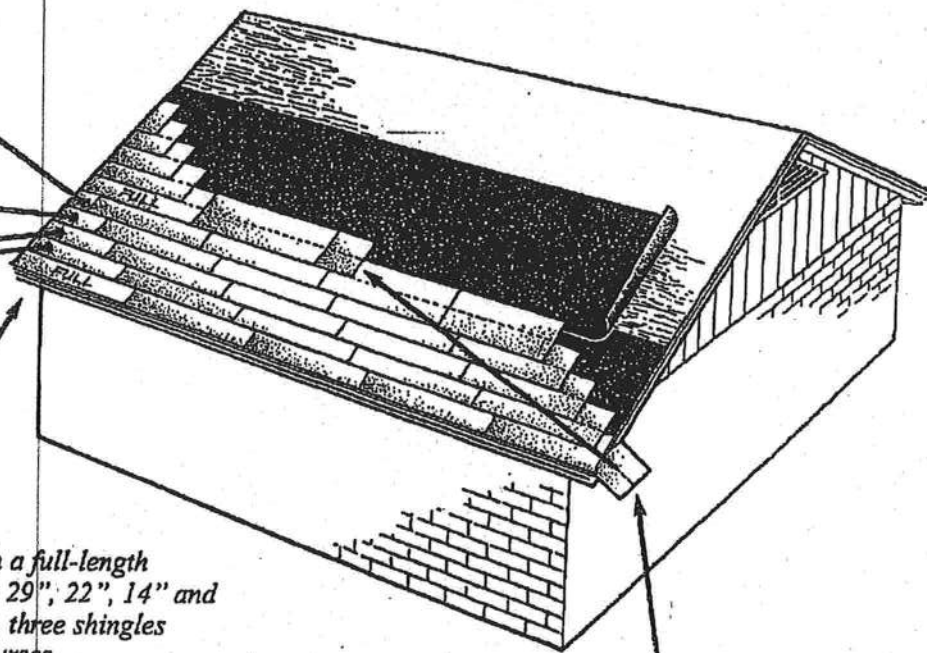
## Application Instructions For Heritage® 40 & 30 Series Shingles

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.

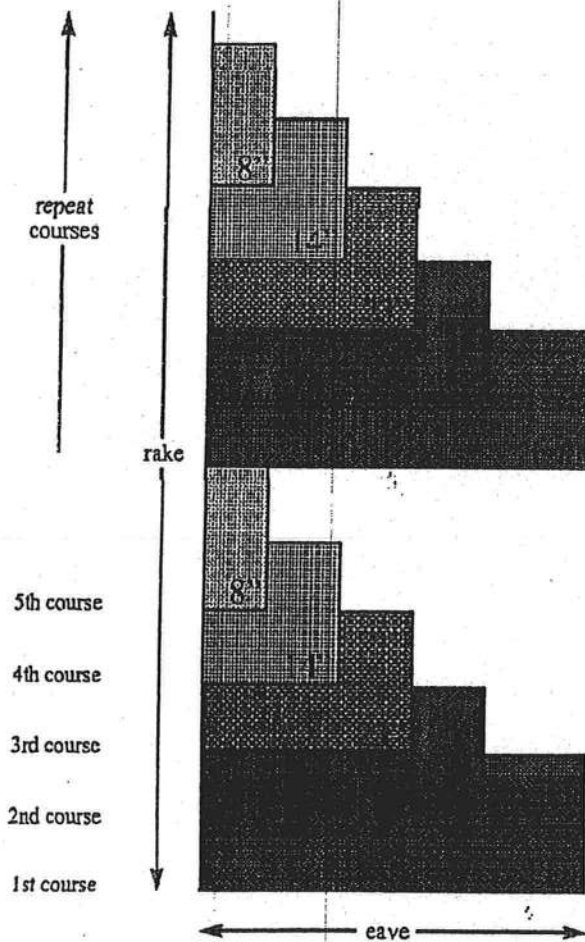
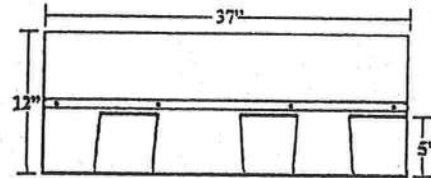


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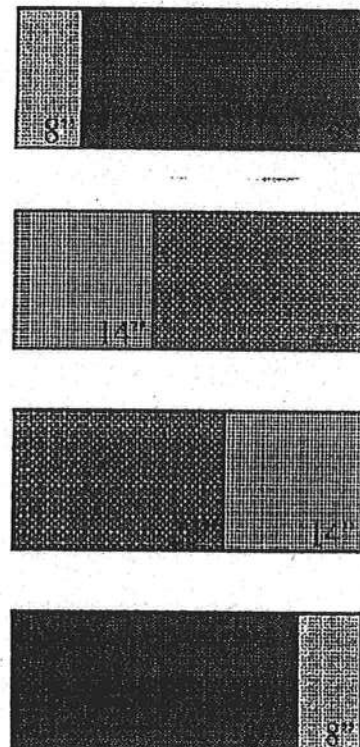


## Application Instructions For Heritage® 25 Series Shingles

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.

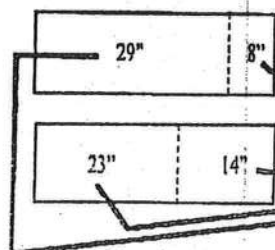
NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.



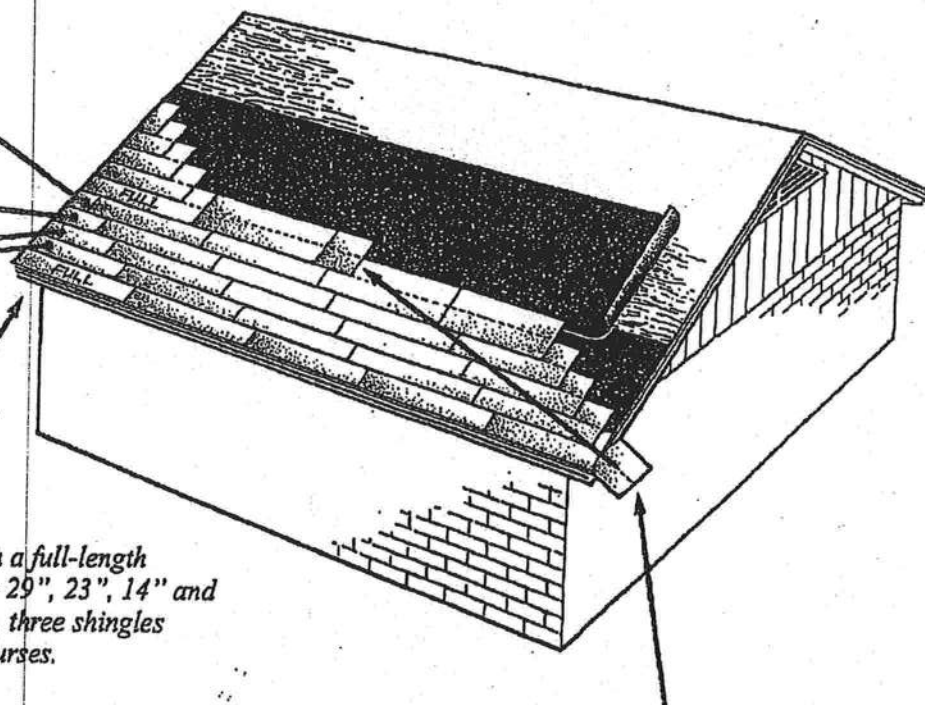
## Application Instructions For Heritage® 25 Series Shingles

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



# TAMKO<sup>®</sup>

## ROOFING PRODUCTS

### Application Instructions for

- Glass-Seal
  - Glass-Seal AR
  - Elite Glass-Seal<sup>®</sup>
  - Elite Glass-Seal<sup>®</sup> 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.

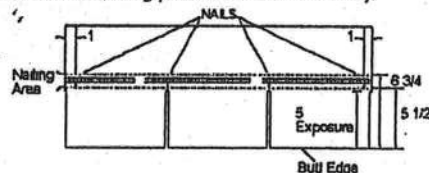
**WIND CAUTION:** Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

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.

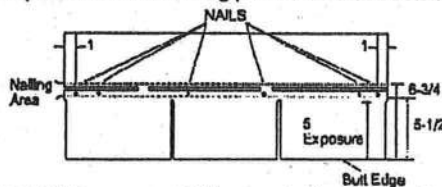
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or 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 fasteners 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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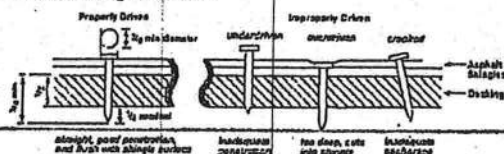
07/01

## • Glass-Seal • Glass-Seal AR

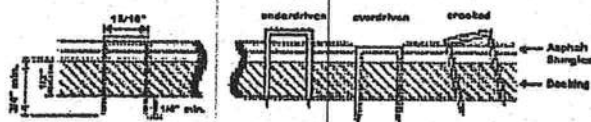
## • Elite Glass-Seal® • Elite Glass-Seal® AR

### 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

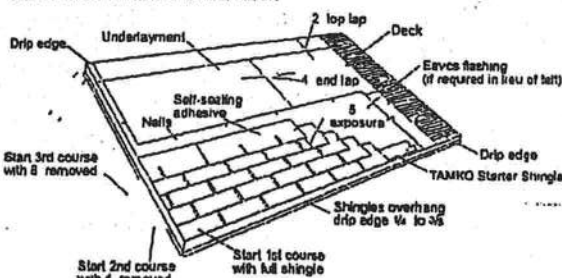
In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers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

## ROOFING PRODUCTS

(CONTINUED from Pg. 2)

### • Glass-Seal • Glass-Seal AR

### • Elite Glass-Seal® • Elite Glass-Seal® AR

## 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.

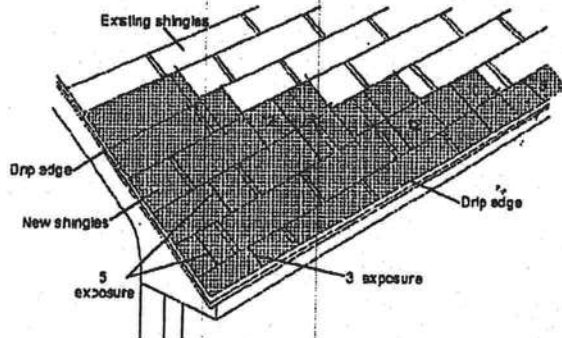
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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

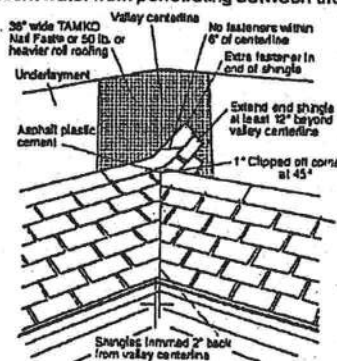
- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

### • 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)

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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.

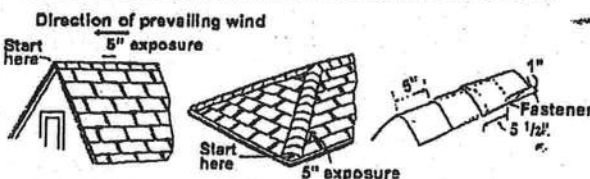
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

**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.

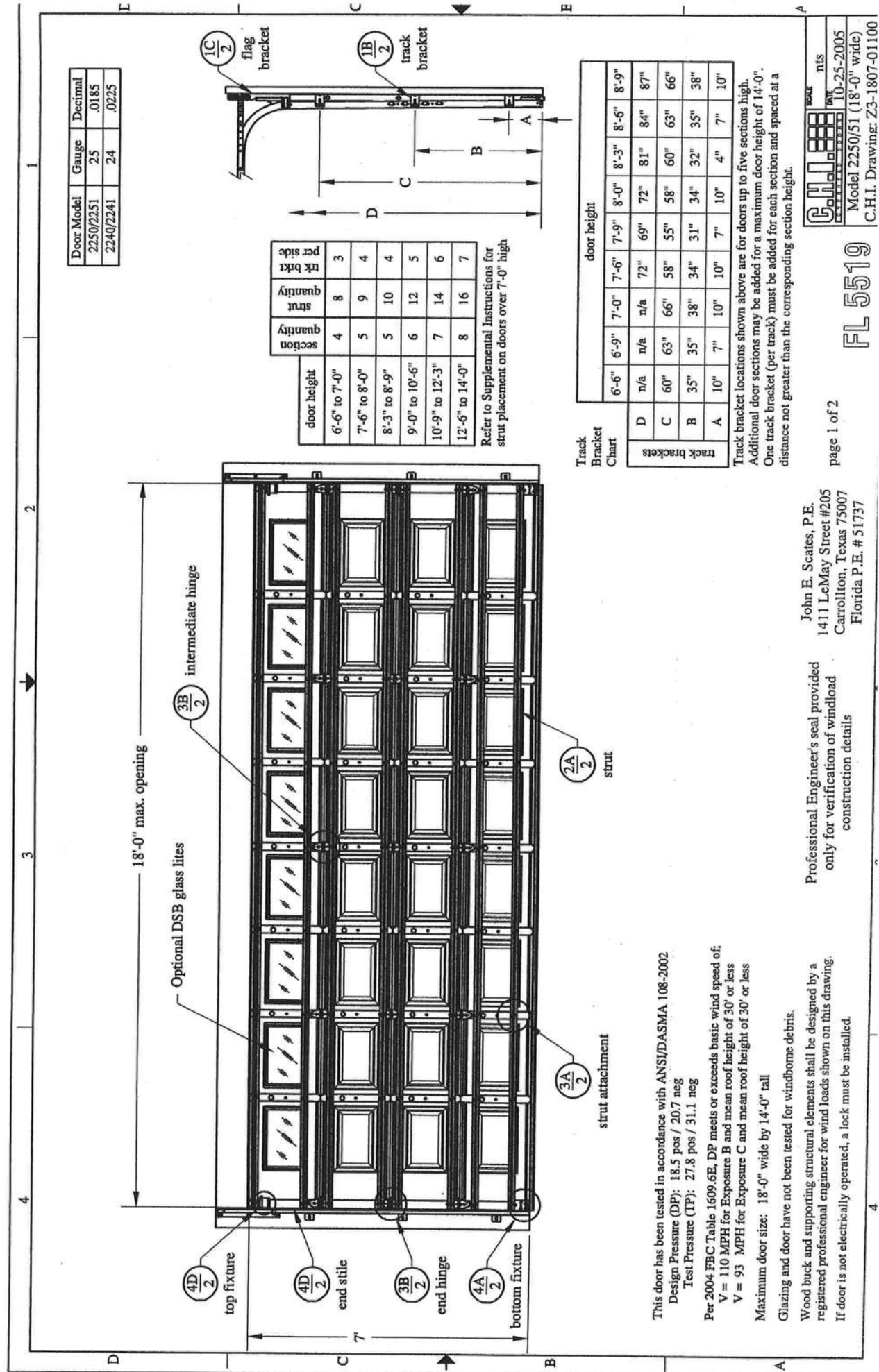
#### IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

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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Door Model	Gauge	Decimal
2250/2251	25	.0185
2240/2241	24	.0225

door height	section quantity	strut quantity	trk brkt per side
6'-6" to 7'-0"	4	8	3
7'-6" to 8'-0"	5	9	4
8'-3" to 8'-9"	5	10	4
9'-0" to 10'-6"	6	12	5
10'-9" to 12'-3"	7	14	6
12'-6" to 14'-0"	8	16	7

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

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): 18.5 pos / 20.7 neg  
Test Pressure (TP): 27.8 pos / 31.1 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: 18'-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

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





Water Wells  
Pumps & Service

Phone: (386) 752-6677  
Fax: (386) 752-1477

## Lynch Well Drilling, Inc.

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

# Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

: 4/107

W. Catherine Lane

Address of Treatment or Lot/Block of Treatment)

Lake City, FL

City 32025

## Florida Pest Control & Chemical Co.

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

Product to be used: Bora-Care Termiticide (Wood Treatment)  
Chemical to be used: 23% Disodium Octaborate Tetrahydrate

Application will be performed onto structural wood at dried-in stage of construction.  
Bora-Care Termiticide application shall be applied according to EPA registered label  
instructions as stated in the Florida Building Code Section 1816.1

Information to be provided to local building code offices prior to concrete  
foundation installation.)



25763

## Notice of Treatment

12/9/

Applicator: Florida Pest Control & Chemical Co. ([www.flapest.com](http://www.flapest.com))

Address: 536 SE Bay Ave

City: LAKE CITY Phone: 752-1703

Site Location: Subdivision

Lot # Block#

Address: 632 SW Catherine Ln

## Product used

☐ Dursban TC☐ Termidor☐ Bora-Care☒ Premise

## Type treatment:

☐ Soil☐ Wood

## Active Ingredient

Chlorpyrifos

Fipronil

Disodium Octaborate Tetrahydrate

1/2

## % Concentration

0.5%

0.06%

23.0%

Area Treated

Dwelling

Square feet

2680

Linear feet

289

Gallons Applied

225 gal

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 \_\_\_\_\_.

5-16-07

Date

12:40

Time

F229

Print Technician's Name

Remarks:

Applicator - White

Permit File - Canary

Permit Holder - Pink

6/04 ©