

DATE 06/21/2007

# Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025944

APPLICANT ROXANNE NAPIER PHONE 719-7143  
 ADDRESS 2109 W US HIGHWAY 90 LAKE CITY FL 32055  
 OWNER SUNIL & PRAVINA PATEL PHONE 364-5730  
 ADDRESS 518 SW WINDSOR DRIVE LAKE CITY FL 32024  
 CONTRACTOR ISAAC CONSTRUCTION PHONE 719-7143

LOCATION OF PROPERTY 90W, TL ON WINDSOR DR, AROUND CURVE, ON RIGHT, THE LOT BEFORE FIRST HOUSE

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 285700.00

HEATED FLOOR AREA 5714.00 TOTAL AREA 7694.00 HEIGHT        STORIES 2

FOUNDATION CONC WALLS FRAMED ROOF PITCH 12/12 FLOOR SLAB

LAND USE & ZONING PRRD MAX. HEIGHT 31

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE X PP DEVELOPMENT PERMIT NO.       

PARCEL ID 31-3S-16-02411-110 SUBDIVISION HILLS OF WINDSOR

LOT 10 BLOCK        PHASE        UNIT        TOTAL ACRES 3.04

00001403 CBC059323 Roxanne Napier  
 Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor  
CULVERT 07-445 BK JH Y  
 Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 84024

## FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 1430.00 CERTIFICATION FEE \$ 38.47 SURCHARGE FEE \$ 38.47

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 1606.94

INSPECTORS OFFICE Alex Tedder CLERKS OFFICE CH

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

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

### This Permit Must Be Prominently Posted on Premises During Construction

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

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

OFFICE CALLED KOKANNE AGAIN: 6.20.07

Columbia County Building Permit Application

For Office Use Only Application # 0705.79 Date Received 5/31/07 By [Signature] Permit # 1403/25944

Application Approved by - Zoning Official BSK Date 05.06.07 Plans Examiner OKJH Date 6-5-07

Flood Zone X Pht Development Permit N/A Zoning PRRD Land Use Plan Map Category A-3

Comments:

NOC [checked] Deed or PA [checked] Site Plan [checked] State Road Info [ ] Parent Parcel # [ ] Development Permit [ ]

Name Authorized Person Signing Permit Rafanre Napier Phone 719-7143

Address 2109 W. US Hwy 90 Suite 170 Pmb #338 Lake City, FL 32055

Owners Name Sunil + Pravina Patel Phone 364-5730

911 Address 518 SW Windsor Dr, L.C. 32024

Contractors Name Isaac Construction, LLC 2109 W. Phone 719. 7143

Address US Hwy 90, Suite 170, L.C. #1 32055

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address Daniel Shaheen DDS Auditor

Mortgage Lenders Name & Address CASH

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

Property ID Number 31-35-16-02411-110 Estimated Cost of Construction \$ 360,000.-

Subdivision Name Hills of Windsor Lot #10 Lot 10 Block Unit Phase

Driving Directions 518 SW Windsor Drive

First left in subdivision. Round curve + lot #10 is on right side. lot before first house.

Type of Construction single family dwelling Number of Existing Dwellings on Property 0

Total Acreage 3.040 Lot Size Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 283 Side 413 Side 377 Rear 210

Total Building Height 31'0" Number of Stories 2 Heated Floor Area 5714 Roof Pitch 12

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

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 Barbara C. Webster

STATE OF FLORIDA COUNTY OF COLUMBIA



Contractor Signature [Signature] Contractors License Number CBC059323

Competency Card Number NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this 23 day of May 2007.

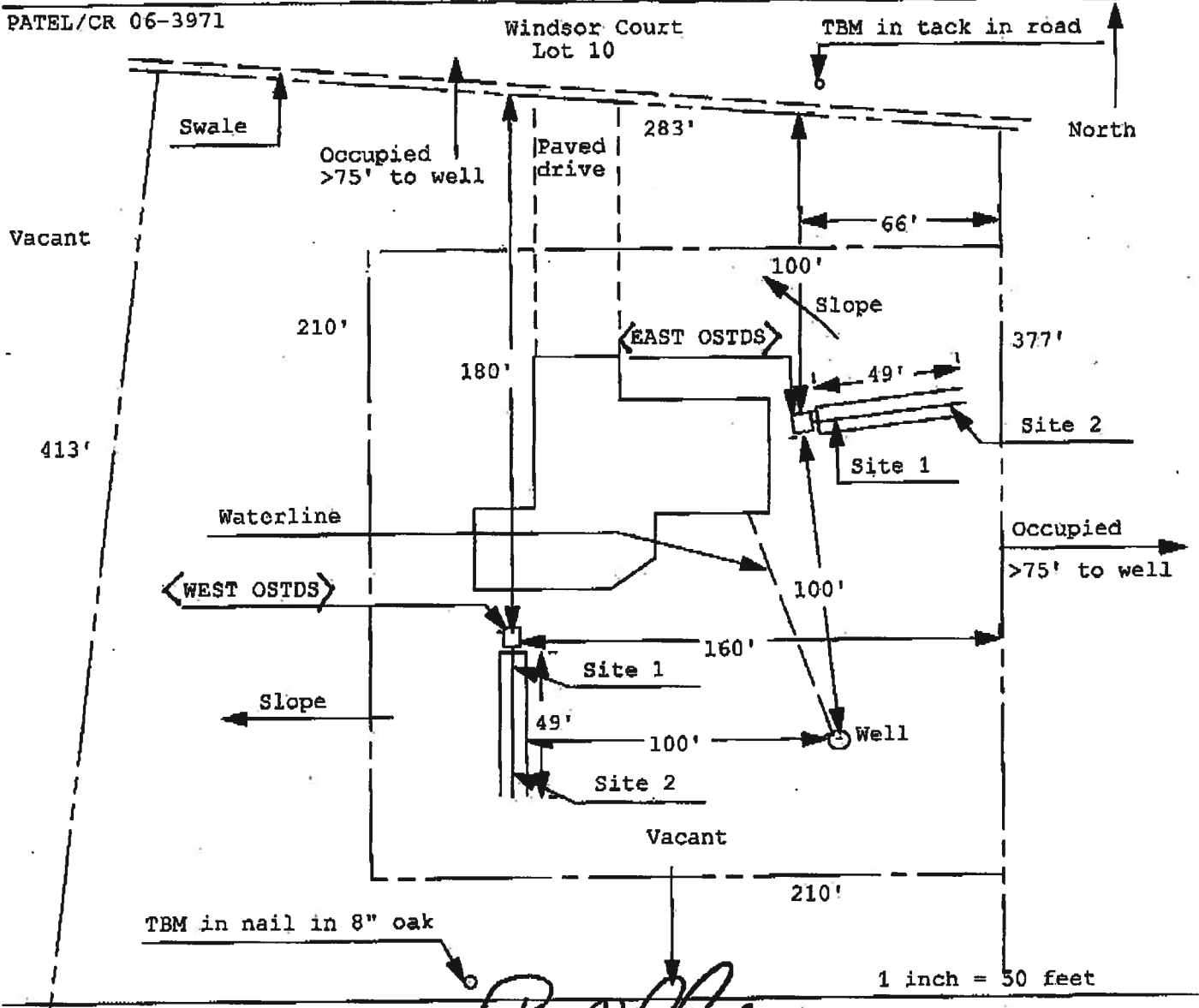
Personally known [checked] or Produced Identification

Notary Signature [Signature] (Revised Sept. 2006)

**Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan**  
 Permit Application Number: 07-0445

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

PATEL/CR 06-3971



Site Plan Submitted By Paul Lopez Date 5/4/07  
 Plan Approved  Not Approved  Date \_\_\_\_\_  
 By Sally Ford ESII 6-21-07 CPHU

**Columbia CHD**

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

\* For Sunil Patel, LOT 10 Hills of Windsor  
 Isaac Construction.

Sunil Patel

## COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787  
PHONE: (386) 758-1125 \* FAX: (386) 758-1365 \* Email: rtm\_cross@columbiacountyfla.com

### Addressing Maintenance

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

DATE REQUESTED: 4/23/2007      DATE ISSUED: 4/24/2007

#### ENHANCED 9-1-1 ADDRESS:

518      SW      WINDSOR      DR

LAKE CITY      FL      32024

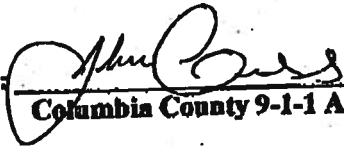
#### PROPERTY APPRAISER PARCEL NUMBER:

31-3S-16-02411-110

#### Remarks:

LOT 10 HILLS OF WINDSOR S/D.

Address Issued By:



Columbia County 9-1-1 Addressing / GIS Department

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

728

Approved Address

APR 24 2007

911Addressing/GIS Dept



**Columbia County Property Appraiser**

DB Last Updated: 4/11/2007

**2007 Proposed Values**

Parcel: 31-3S-16-02411-110

Tax Record Property Card Interactive GIS Map Print

Search Result: 1 of 1

**Owner & Property Info**

<b>Owner's Name</b>	PATEL SUNIL & PRAVINA		
<b>Site Address</b>			
<b>Mailing Address</b>	802 WHITE AVE LIVE OAK, FL 32064		
<b>Use Desc. (code)</b>	VACANT (000000)		
<b>Neighborhood</b>	30316.00	<b>Tax District</b>	3
<b>UD Codes</b>	MKTA01	<b>Market Area</b>	01
<b>Total Land Area</b>	3.040 ACRES		
<b>Description</b>	LOT 10 HILLS OF WINDSOR S/D. WD 1027-841. WD 1083-2494		

**GIS Aerial**



**Property & Assessment Values**

<b>Mkt Land Value</b>	cnt: (1)	\$125,000.00
<b>Ag Land Value</b>	cnt: (0)	\$0.00
<b>Building Value</b>	cnt: (0)	\$0.00
<b>XFOB Value</b>	cnt: (0)	\$0.00
<b>Total Appraised Value</b>		\$125,000.00

<b>Just Value</b>	\$125,000.00
<b>Class Value</b>	\$0.00
<b>Assessed Value</b>	\$125,000.00
<b>Exempt Value</b>	\$0.00
<b>Total Taxable Value</b>	\$125,000.00

**Sales History**

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
5/2/2006	1083/2494	WD	V	Q		\$175,000.00
9/15/2004	1027/841	WD	V	Q		\$65,000.00

**Building Characteristics**

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

**Extra Features & Out Buildings**

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

**Land Breakdown**

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	1.000 LT - (3.040AC)	1.00/1.00/1.00/1.00	\$125,000.00	\$125,000.00

Columbia County Property Appraiser

DB Last Updated: 4/11/2007

LOT 10 HILLS OF WINDSOR S/D. PATEL SUNIL & PRAVINA 31-3S-16-02411-110 Columbia County 2007 R  
 WD 1027-841. WD 1083-2494 802 WHITE AVE PRINTED 4/11/2007 8:57 CARD 001 of 001  
 LIVE OAK, FL 32064 APPR 7/25/2006 DF BY JEFF

AE? HTD AREA .000 INDEX 30316.00 DIST 3 PUSE 000000 VACANT  
 EFF AREA 105.914 E-RATE .000 INDY STR 30- 3S-16E  
 RCN A/B EYB (PUD1 MKT AREA 01  
 %GOOD BLDG VAL AC 3.040 125,000 LAND  
 #FIELD CK: NTCD 0 BLDG  
 #LOC: APPR CD 0 XFOB  
 \* C-W% 0 AG  
 \* HGT 125,000 JUST  
 \* STYS 0 CLAS  
 \* ECON 0 SOHD  
 \* FUNC 0 ASSD  
 \* SPCD 0 EXPT  
 \* DEPR 0 COTXBL  
 \* UD-1 125,000 JUST  
 \* UD-2 0 CLAS  
 \* UD-3 0 SOHD  
 \* UD-4 0 ASSD  
 \* UD-5 0 EXPT  
 \* UD-6 0 COTXBL  
 \* UD-7  
 \* UD-8  
 \* UD-9  
 \* %  
 \* A-AREA % E-AREA SUB VALUE

----- BLDG TRAVERSE -----  
 TXDT 003  
 PERMITS AMT ISSUED

----- SALE -----  
 BOOK PAGE DATE PRICE  
 1083 2494 5/02/2006 Q V 175000  
 GRANTOR RALPH FENIMORE  
 GRANTEE SUNIL & PRAVINA PATEL  
 1027 841 9/15/2004 Q V 65000  
 GRANTOR JORDAN ET AL  
 GRANTEE RALPH FENIMORE

TOTAL  
 EXTRA FEATURES  
 AE BN CODE LEN WID HGT QTY QL YR ADJ FIELD CK: PRICE ADJ UT PR SPCD % \$GOOD XFOB VALUE  
 LAND DESC ZONE ROAD {UD1 {UD3 FRONT DEPTH FIELD CK: UNITS UT PRICE ADJ UT PR LAND VALUE  
 TOPO UTIL {UD2 {UD4 BACK DT ADJUSTMENTS 1.000 LT 125000.000 125000.00 125,000  
 Y 000000 VAC RES 0002 0003 1.00 1.00 1.00 1.00 1.00

Prepared by:  
Krisley B. Clayton  
Closing Time Title, Inc.  
101 Polo Park Boulevard, Suite 5B  
Deerport, Florida 33897

File Number: 06-1068

Inst:2006011936 Date:05/16/2006 Time:14:00  
Doc Stamp-Deed : 1225.00

DC, P. DeWitt Cason, Columbia County B:1083 P:2494

**General Warranty Deed**

Made this 5-2 2006 A.D. By Ralph Fensmore, PO Box 405, Maitcha, Florida 33993, hereinafter called the grantor, to Srujal Patel and Parvina Patel, husband and wife, whose post office address is: 802 White Ave, Live Oak, Florida 32064, hereinafter called the grantees:

(Whoever used herein the term "grantor" and "grantee" include all the parties to this instrument and their heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, alien, renites, releases, conveys and confirms unto the grantees, all that certain land situate in Columbia County, Florida, viz:

Lot 10, HILLS OF WINDSOR, according to the Plat thereof, as recorded in PFD Book 1, Page(s) 1 through 3, inclusive, of the Public Records of Columbia County, Florida

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Parcel ID Number: 3135

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said 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; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whatsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2004.

In Witness Whereof, the said grantor has signed and sealed these presents on this day and year first above written.

Signed, sealed and delivered in our presence:

Laurel McClenthon  
Witness Printed Name Laurel McClenthon

Ralph Fensmore (Seal)  
Ralph Fensmore  
Address: PO Box 405, Maitcha, Florida 33993

Liza Thomas  
Witness Printed Name Liza Thomas

\_\_\_\_\_  
Address

State of Florida  
County of LEE

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 2006, by Ralph Fensmore, who is/are personally known to me or who has produced

Laurel McClenthon  
Notary Public  
Print Name: Laurel McClenthon  
My Commission Expires \_\_\_\_\_



NOTICE OF COMMENCEMENT FORM  
COLUMBIA COUNTY, FLORIDA

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.

Tax Parcel ID Number 31-35-16-02411-110

1. Description of property: (legal description of the property and street address or 911 address)  
Hills of Windsor Lot #10 (518 SW Windsor Dr.)  
S/D WD 1027-841, WD 1083-2494  
First left in subdivision. Round curve +  
lot #10 is right side. Lot before first house.

2. General description of Improvement: single family dwellings

3. Owner Name & Address Sunil + Prayina Patel 802 White Ave.  
Live Oak, FL 32064 Interest in Property \_\_\_\_\_

4. Name & Address of Fee Simple Owner (if other than owner): \_\_\_\_\_

5. Contractor Name Isaac Construction Phone Number 719-7143  
Address 2109 W US Hwy 90 Suite 170 PMB #338 L C FL 32055

6. Surety Holders Name n/a Phone Number \_\_\_\_\_  
Address \_\_\_\_\_  
Amount of Bond n/a

7. Lender Name cash Phone Number \_\_\_\_\_  
Address \_\_\_\_\_

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name n/a Inst: 2007011561 Date: 05/23/2007 Time: 13:26  
Address \_\_\_\_\_ DC, P. DeWitt Cason, Columbia County B: 1120 P: 145

9. In addition to himself/herself the owner design \_\_\_\_\_ of \_\_\_\_\_  
\_\_\_\_\_ to receive a copy of the notice as provided in Section 713.13 (1) -  
(a) 7. Phone Number of the designee \_\_\_\_\_

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) \_\_\_\_\_

**NOTICE AS PER CHAPTER 713, Florida Statutes:**

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

[Signature]  
Signature of Owner



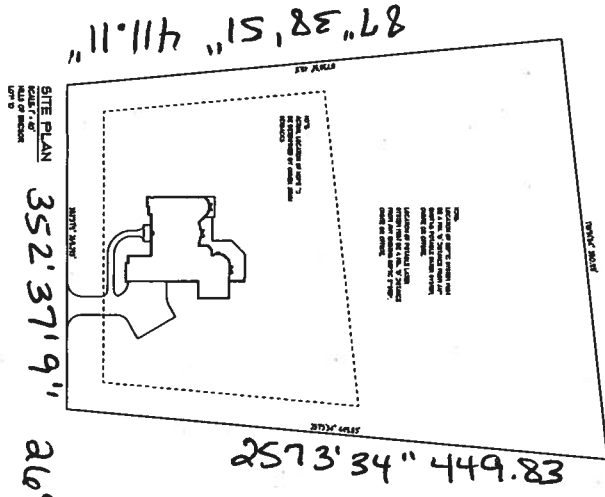
Barbara C. Webster  
Commission # DD329279  
Expires July 2, 2008  
Bonded Troy Pen - Insurance, Inc. 800-388-7018

Sworn to (or affirmed) and subscribed before 23  
day of May, 2007

NOTARY STAMP/SEAL

[Signature]  
Signature of Notary





Site Plan ↓  
1785.154" 350.99'

**ELECTRICAL LEGEND**

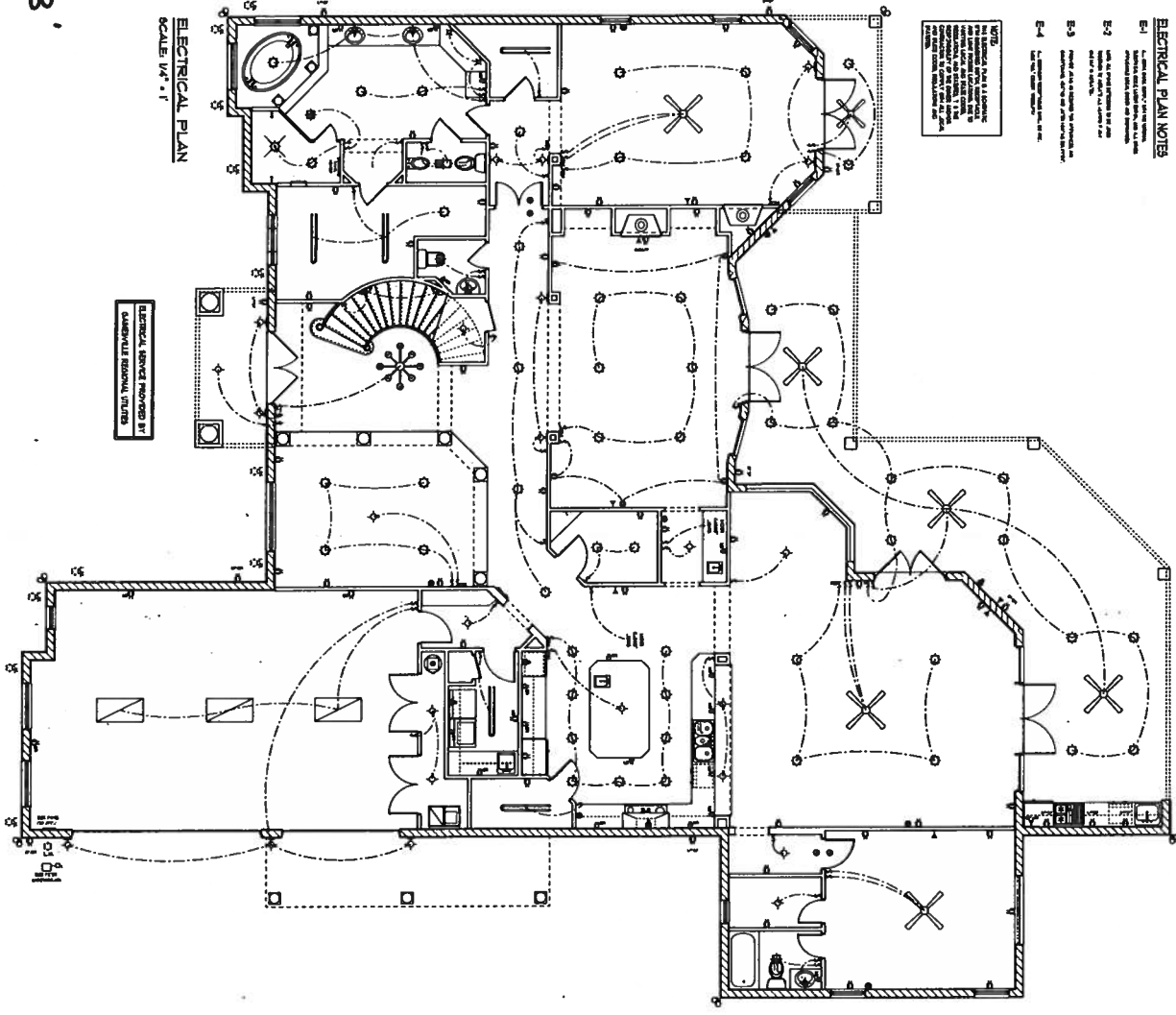
- ☐ 200' ALUMINUM ELECTRICAL LIGHT RIG WITH BALLAST
- ☐ BALLAST FAN
- ☐ INCANDESCENT LIGHT FIXTURE
- ☐ BALLAST MAIN/START COMBO
- CAN LIGHT
- ◇ PRELUM CAN LIGHT
- WALL SCONCE
- DOUBLE SPOTLIGHT
- TELEPHONE OUTLET
- TELEVISION OUTLET
- ☒ LOW BATTERY LIGHTING
- ☒ SMOKE DETECTOR
- ☒ SENTRY
- ☒ 3-WAY SWITCH
- ☒ DIMMER SWITCH
- ☒ RECEPTACLE BY GROUND FAULT INTERRUPTER
- ☒ 15 AMP RECEPTACLE (1 AMP/20' CONSTANT)
- ☒ 200 VOLT RECEPTACLE
- ☒ BATTERY BACKUP EMERGENCY LIGHTING

**ELECTRICAL PLAN NOTES**

- E-1: ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES.
- E-2: ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES.
- E-3: ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES.
- E-4: ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES.

**NOTES**

1. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES.



ALL DIMENSIONS ARE NOT TO BE SCALED. VERIFY DIMENSIONS FROM PRESENCE OVER SCALED DIMENSIONS.

<p><b>ELECTRICAL PLAN</b></p> <p><b>SITE PLAN</b></p>	<p><i>Daniel Shaheen</i> <b>Daniel Shaheen</b></p>	<p>CUSTOM HOME DESIGNED FOR:</p> <p><b>SUNIL &amp; PRAVINA PATEL</b></p> <p>COPYRIGHT 2006, DDS STUDIOS</p>		<p>DESIGNED BY:</p> <p><b>DDS</b> DANIEL D. SHAHEEN DANIEL D. SHAHEEN DANIEL D. SHAHEEN</p>	<p>DATE: 11/11/06</p> <p>PROJECT: SUNIL &amp; PRAVINA PATEL</p>	<p>11/11/06</p>
		<p>11/11/06</p>				

BOUNDARY SURVEY IN SECTION 31, TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA

SYMBOL LEGEND

- 4"x4" CONCRETE MONUMENT FOUND
- 4"x4" CONCRETE MONUMENT SET
- IRON PIPE FOUND
- IRON PIN AND CAP SET
- POWER POLE
- ▲ WATER METER
- ⊥ CENTERLINE
- \* WELL
- ⊙ SATELLITE BUSH
- ⊙ TELEPHONE BOX
- ELECTRIC LINES
- WIRE FENCE
- CHAIN LINK FENCE
- WOODEN FENCE

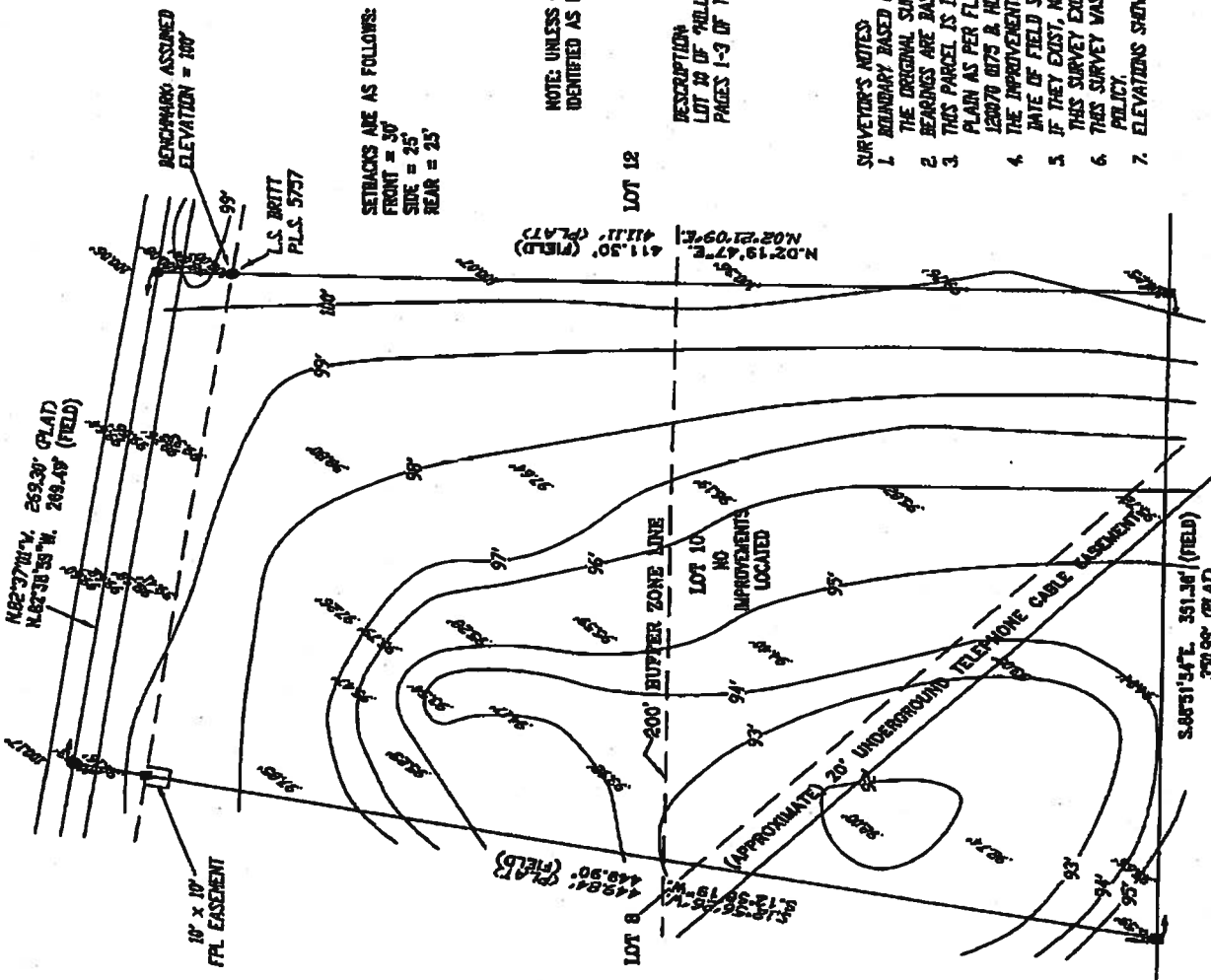


SCALE: 1" = 60'

NOTE: UNLESS OTHERWISE DENOTED ALL PROPERTY CORNERS LOCATED WERE IDENTIFIED AS BAILEY, BISHOP & LANE, L.B. 6885.

DESCRIPTION  
LOT 10 OF 'HILLS OF WINSTON' AS PER PLAT THEREOF RECORDED IN PFD BOOK 1, PAGES 1-3 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

- SURVEYOR'S NOTES
- BOUNDARY BASED ON INFORMATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF THE ORIGINAL SURVEY FOR SAID PLAT OF RECORD.
  - BEARINGS ARE BASED ON SAID PLAT OF RECORD.
  - THIS PARCEL IS IN ZONE 7\* AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 180070 0175 & HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREIN.
  - IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREIN.
  - THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.
  - ELEVATIONS SHOWN HEREIN ARE BASED ON AN ASSUMED ELEVATION OF 100.00 FEET.



**BRITT SURVEYING & ASSOCIATES, INC.**

LAND SURVEYORS AND MAPPERS

200 WEST BAYAL STREET, SUITE 101, COLUMBIA, FLORIDA 32205  
 (904) 725-7163 FAX (904) 725-5373

WORK ORDER # L-18369

WE HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER THE CLOSEST OF PERSONAL SUPERVISION AND THAT THE SURVEYOR HAS PERSONALLY EXAMINED THE ORIGINAL RECORDS OF THIS SURVEY AND THE ORIGINAL PLAT OF RECORD AND HAS FOUND THAT THE SURVEY IS IN ACCORDANCE WITH THE ORIGINAL RECORDS AND THE ORIGINAL PLAT OF RECORD.

DATE OF FIELD SURVEY: 04/22/07  
 DATE OF PLAT: 04/23/07  
 SURVEYOR: SCOTT W. BRITT  
 LICENSE NO.: 1253

CERTIFIED TO: SINGL. PATEL

FIELD NO. 297 PAGES 14



Lake City (386) 755-3611  
Gainesville (352) 494-5751  
Fax (386) 755-3885  
Toll Free 1-800-616-4707

**Notice of Intent for Preventative Treatment for Termites**  
(As required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.  
(386) 755-3611  
State License # - JB109476  
State Certification # - JF104376

(Patel) Hills Of Winsor 518 Winsor Dr. Lake City, Fl. 32024  
Address of Treatment or Lot/Block of Treatment

**Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate**  
Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

**Application onto Structural Wood**  
Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8.

Celia Dyer  
Authorized Signature

4/23/07  
Date



Commercial • Residential  
301 NW Cole Terrace / Lake City, Florida 32055



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

<b>Project Name:</b> S, Patel Residence <b>Address:</b> Lot: 10, Sub: Hills of Windso, Plat: <b>City, State:</b> Lake City, Fl <b>Owner:</b> Sunil Patel <b>Climate Zone:</b> North	<b>Builder:</b> Isaac Const <b>Permitting Office:</b> Columbia <b>Permit Number:</b> 25944 <b>Jurisdiction Number:</b> 221008
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<p>1. New construction or existing <span style="float: right;">New</span> <input type="checkbox"/></p> <p>2. Single family or multi-family <span style="float: right;">Single family</span> <input type="checkbox"/></p> <p>3. Number of units, if multi-family <span style="float: right;">1</span> <input type="checkbox"/></p> <p>4. Number of Bedrooms <span style="float: right;">5</span> <input type="checkbox"/></p> <p>5. Is this a worst case? <span style="float: right;">No</span> <input type="checkbox"/></p> <p>6. Conditioned floor area (ft<sup>2</sup>) <span style="float: right;">5714 ft<sup>2</sup></span> <input type="checkbox"/></p> <p>7. Glass type<sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">a. U-factor:</td> <td style="width: 30%; text-align: center;">Description</td> <td style="width: 40%; text-align: center;">Area</td> </tr> <tr> <td></td> <td>(or Single or Double DEFAULT) 7a. (Dble Default)</td> <td>526.6 ft<sup>2</sup></td> </tr> <tr> <td>b. SHGC:</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(or Clear or Tint DEFAULT) 7b. (Clear)</td> <td>526.6 ft<sup>2</sup></td> </tr> </table> <p>8. Floor types</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">a. Slab-On-Grade Edge Insulation</td> <td style="width: 30%; text-align: center;">R=0.0, 326.0(p) ft</td> <td style="width: 40%;"><input type="checkbox"/></td> </tr> <tr> <td>b. N/A</td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td>c. N/A</td> <td></td> <td><input type="checkbox"/></td> </tr> </table> <p>9. Wall types</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">a. Frame, Wood, Exterior</td> <td style="width: 30%; text-align: center;">R=13.0, 5260.0 ft<sup>2</sup></td> <td style="width: 40%;"><input type="checkbox"/></td> </tr> <tr> <td>b. Frame, Wood, Adjacent</td> <td style="text-align: center;">R=13.0, 520.0 ft<sup>2</sup></td> <td><input type="checkbox"/></td> </tr> <tr> <td>c. N/A</td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td>d. N/A</td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td>e. N/A</td> <td></td> <td><input type="checkbox"/></td> </tr> </table> <p>10. Ceiling types</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">a. Under Attic</td> <td style="width: 30%; text-align: center;">R=30.0, 3694.0 ft<sup>2</sup></td> <td style="width: 40%;"><input type="checkbox"/></td> </tr> <tr> <td>b. N/A</td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td>c. N/A</td> <td></td> <td><input type="checkbox"/></td> </tr> </table> <p>11. Ducts</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">a. Sup: Unc. Ret: Unc. AH: Interior</td> <td style="width: 30%; text-align: center;">Sup. R=6.0, 360.0 ft</td> <td style="width: 40%;"><input type="checkbox"/></td> </tr> <tr> <td>b. N/A</td> <td></td> <td><input type="checkbox"/></td> </tr> </table>	a. U-factor:	Description	Area		(or Single or Double DEFAULT) 7a. (Dble Default)	526.6 ft <sup>2</sup>	b. SHGC:				(or Clear or Tint DEFAULT) 7b. (Clear)	526.6 ft <sup>2</sup>	a. Slab-On-Grade Edge Insulation	R=0.0, 326.0(p) ft	<input type="checkbox"/>	b. N/A		<input type="checkbox"/>	c. N/A		<input type="checkbox"/>	a. Frame, Wood, Exterior	R=13.0, 5260.0 ft <sup>2</sup>	<input type="checkbox"/>	b. Frame, Wood, Adjacent	R=13.0, 520.0 ft <sup>2</sup>	<input type="checkbox"/>	c. N/A		<input type="checkbox"/>	d. N/A		<input type="checkbox"/>	e. N/A		<input type="checkbox"/>	a. Under Attic	R=30.0, 3694.0 ft <sup>2</sup>	<input type="checkbox"/>	b. N/A		<input type="checkbox"/>	c. N/A		<input type="checkbox"/>	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 360.0 ft	<input type="checkbox"/>	b. N/A		<input type="checkbox"/>	<p>12. Cooling systems</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">a. Central Unit</td> <td style="width: 50%; text-align: right;">Cap: 36.0 kBtu/hr</td> </tr> <tr> <td></td> <td style="text-align: right;">SEER: 13.00</td> </tr> <tr> <td>b. Central Unit</td> <td style="text-align: right;">Cap: 48.0 kBtu/hr</td> </tr> <tr> <td></td> <td style="text-align: right;">SEER: 13.00</td> </tr> <tr> <td>c. N/A</td> <td><input type="checkbox"/></td> </tr> </table> <p>13. Heating systems</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">a. Electric Heat Pump</td> <td style="width: 50%; text-align: right;">Cap: 36.0 kBtu/hr</td> </tr> <tr> <td></td> <td style="text-align: right;">HSPF: 7.20</td> </tr> <tr> <td>b. 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Central Unit	Cap: 36.0 kBtu/hr		SEER: 13.00	b. Central Unit	Cap: 48.0 kBtu/hr		SEER: 13.00	c. N/A	<input type="checkbox"/>	a. Electric Heat Pump	Cap: 36.0 kBtu/hr		HSPF: 7.20	b. Electric Heat Pump	Cap: 48.0 kBtu/hr		HSPF: 7.20	c. N/A	<input type="checkbox"/>	a. Electric Resistance	Cap: 50.0 gallons		EF: 0.92	b. Electric Resistance	Cap: 50.0 gallons		EF: 0.92	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	<input type="checkbox"/>
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Glass/Floor Area: 0.12	Total as-built points: 64977 Total base points: 79401	PASS
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I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

**PREPARED BY:**

**DATE:** 5-30-07

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:** \_\_\_\_\_



1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCSB v4.0)



# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Hills of Windso, Plat: , Lake City, Fl, PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points			
.18	5714.0	20.04	20611.5	Double, Clear	N	1.5	7.0	24.0	19.20	0.96	440.1
				Double, Clear	E	1.5	7.0	24.0	42.06	0.94	947.3
				Double, Clear	N	1.5	6.0	20.0	19.20	0.94	360.4
				Double, Clear	N	1.5	7.0	39.0	19.20	0.96	715.1
				Double, Clear	N	1.5	6.0	30.0	19.20	0.94	540.7
				Double, Clear	N	1.5	6.0	15.0	19.20	0.94	270.3
				Double, Clear	W	1.5	6.0	20.0	38.52	0.91	703.7
				Double, Clear	W	1.5	7.0	36.0	38.52	0.94	1302.2
				Double, Clear	S	1.5	7.0	36.0	35.87	0.89	1155.0
				Double, Clear	S	10.0	3.0	16.0	35.87	0.43	247.9
				Double, Clear	E	10.0	3.0	4.0	42.06	0.36	60.0
				Double, Clear	E	1.5	16.0	32.5	42.06	1.00	1360.3
				Double, Clear	E	1.5	6.0	66.0	42.06	0.91	2533.9
				Double, Clear	S	1.5	5.0	37.3	35.87	0.81	1080.5
				Double, Clear	S	1.5	7.0	39.0	35.87	0.89	1251.3
				Double, Clear	SE	10.0	9.0	104.0	42.75	0.47	2107.5
				Double, Clear	S	10.0	12.0	60.0	35.87	0.55	1173.0
				Double, Clear	S	10.0	3.0	12.0	35.87	0.43	185.9
				Double, Clear	N	1.5	7.0	12.0	19.20	0.96	220.0
				Double, Clear	S	1.5	6.0	33.0	35.87	0.86	1013.4
				Double, Clear	S	1.5	5.0	48.0	35.87	0.81	1389.2
				<b>As-Built Total:</b>				<b>707.8</b>			<b>19057.6</b>
<b>WALL TYPES</b>				<b>Type</b>		<b>R-Value</b>		<b>Area X SPM =</b>		<b>Points</b>	
Adjacent	520.0	0.70	364.0	Frame, Wood, Exterior		13.0		5260.0		1.50 7890.0	
Exterior	5260.0	1.70	8942.0	Frame, Wood, Adjacent		13.0		520.0		0.60 312.0	
<b>Base Total:</b>	<b>5780.0</b>		<b>9306.0</b>	<b>As-Built Total:</b>				<b>5780.0</b>		<b>8202.0</b>	
<b>DOOR TYPES</b>				<b>Type</b>				<b>Area X SPM =</b>		<b>Points</b>	
Adjacent	20.0	2.40	48.0	Exterior Insulated				70.0		4.10 287.0	
Exterior	462.0	6.10	2818.2	Exterior Insulated				80.0		4.10 328.0	
				Exterior Insulated				144.0		4.10 590.4	
				Exterior Insulated				72.0		4.10 295.2	
				Exterior Insulated				96.0		4.10 393.6	
				Adjacent Insulated				20.0		1.60 32.0	
<b>Base Total:</b>	<b>482.0</b>		<b>2866.2</b>	<b>As-Built Total:</b>				<b>482.0</b>		<b>1926.2</b>	

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Hills of Windso, Plat: , Lake City, Fl, PERMIT #:

BASE				AS-BUILT						
<b>CEILING TYPES</b> Area X BSPM = Points				Type	R-Value	Area X SPM X SCM =	Points			
Under Attic	3694.0	1.73	6390.6	Under Attic	30.0	3694.0 1.73 X 1.00	6390.6			
<b>Base Total:</b>	<b>3694.0</b>		<b>6390.6</b>	<b>As-Built Total:</b>		<b>3694.0</b>	<b>6390.6</b>			
<b>FLOOR TYPES</b> Area X BSPM = Points				Type	R-Value	Area X SPM =	Points			
Slab	326.0(p)	-37.0	-12062.0	Slab-On-Grade Edge Insulation	0.0	326.0(p) -41.20	-13431.2			
Raised	0.0	0.00	0.0							
<b>Base Total:</b>			<b>-12062.0</b>	<b>As-Built Total:</b>		<b>326.0</b>	<b>-13431.2</b>			
<b>INFILTRATION</b> Area X BSPM = Points				Area X SPM = Points						
	5714.0	10.21	58339.9			5714.0 10.21	58339.9			
<b>Summer Base Points: 85452.3</b>				<b>Summer As-Built Points: 80485.1</b>						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	=	Cooling Points
				(sys 1: Central Unit 36000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)						
				80485	0.43 (1.09 x 1.147 x 0.91)	0.263	1.000	1.000		10303.0
				(sys 2: Central Unit 48000 btuh ,SEER/EFF(13.0) Ducts: None						
				80485	0.57 (1.00 x 1.147 x 1.00)	0.263	1.000	1.000		13737.3
<b>85452.3</b>	<b>0.4266</b>		<b>36454.0</b>	<b>80485.1</b>	<b>1.00</b>	<b>1.138</b>	<b>0.263</b>	<b>1.000</b>		<b>24040.3</b>

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Hills of Windso, Plat: , Lake City, Fl, PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points			
.18	5714.0	12.74	13103.3	Double, Clear	N	1.5	7.0	24.0	24.58	1.00	590.8
				Double, Clear	E	1.5	7.0	24.0	18.79	1.03	463.0
				Double, Clear	N	1.5	6.0	20.0	24.58	1.00	492.7
				Double, Clear	N	1.5	7.0	39.0	24.58	1.00	960.0
				Double, Clear	N	1.5	6.0	30.0	24.58	1.00	739.1
				Double, Clear	N	1.5	6.0	15.0	24.58	1.00	369.5
				Double, Clear	W	1.5	6.0	20.0	20.73	1.02	424.3
				Double, Clear	W	1.5	7.0	36.0	20.73	1.02	758.5
				Double, Clear	S	1.5	7.0	36.0	13.30	1.07	514.1
				Double, Clear	S	10.0	3.0	16.0	13.30	3.66	778.7
				Double, Clear	E	10.0	3.0	4.0	18.79	1.51	113.3
				Double, Clear	E	1.5	16.0	32.5	18.79	1.01	614.3
				Double, Clear	E	1.5	6.0	66.0	18.79	1.04	1284.3
				Double, Clear	S	1.5	5.0	37.3	13.30	1.20	594.3
				Double, Clear	S	1.5	7.0	39.0	13.30	1.07	556.9
				Double, Clear	SE	10.0	9.0	104.0	14.71	2.04	3118.6
				Double, Clear	S	10.0	12.0	60.0	13.30	2.46	1959.2
				Double, Clear	S	10.0	3.0	12.0	13.30	3.66	584.0
				Double, Clear	N	1.5	7.0	12.0	24.58	1.00	295.4
				Double, Clear	S	1.5	6.0	33.0	13.30	1.12	490.4
				Double, Clear	S	1.5	5.0	48.0	13.30	1.20	764.2
				<b>As-Built Total:</b>			<b>707.8</b>	<b>16465.6</b>			
<b>WALL TYPES</b>				<b>Type</b>		<b>R-Value</b>		<b>Area X WPM = Points</b>			
Adjacent	520.0	3.60	1872.0	Frame, Wood, Exterior		13.0		5260.0 3.40 17884.0			
Exterior	5260.0	3.70	19462.0	Frame, Wood, Adjacent		13.0		520.0 3.30 1716.0			
<b>Base Total:</b>	<b>5780.0</b>		<b>21334.0</b>	<b>As-Built Total:</b>		<b>5780.0</b>		<b>19600.0</b>			
<b>DOOR TYPES</b>				<b>Type</b>				<b>Area X WPM = Points</b>			
Adjacent	20.0	11.50	230.0	Exterior Insulated		70.0		8.40 588.0			
Exterior	462.0	12.30	5682.6	Exterior Insulated		80.0		8.40 672.0			
				Exterior Insulated		144.0		8.40 1209.6			
				Exterior Insulated		72.0		8.40 604.8			
				Exterior Insulated		96.0		8.40 806.4			
				Adjacent Insulated		20.0		8.00 160.0			
<b>Base Total:</b>	<b>482.0</b>		<b>5912.6</b>	<b>As-Built Total:</b>		<b>482.0</b>		<b>4040.8</b>			

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Hills of Windso, Plat: , Lake City, FL, PERMIT #:

BASE				AS-BUILT						
<b>CEILING TYPES</b> Area X BWPM = Points				Type	R-Value	Area X WPM X WCM =	Points			
Under Attic	3694.0	2.05	7572.7	Under Attic	30.0	3694.0 2.05 X 1.00	7572.7			
<b>Base Total:</b>			<b>3694.0</b>	<b>7572.7</b>	<b>As-Built Total:</b>		<b>3694.0</b>			
							<b>7572.7</b>			
<b>FLOOR TYPES</b> Area X BWPM = Points				Type	R-Value	Area X WPM =	Points			
Slab	326.0(p)	8.9	2901.4	Slab-On-Grade Edge Insulation	0.0	326.0(p) 18.80	6128.8			
Raised	0.0	0.00	0.0							
<b>Base Total:</b>			<b>2901.4</b>	<b>As-Built Total:</b>		<b>326.0</b>	<b>6128.8</b>			
<b>INFILTRATION</b> Area X BWPM = Points				Area X WPM = Points						
	5714.0	-0.59	-3371.3		5714.0	-0.59	-3371.3			
<b>Winter Base Points:</b>			<b>47452.8</b>	<b>Winter As-Built Points:</b>			<b>50436.7</b>			
Total Winter X Points	System Multiplier	=	Heating Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	=	Heating Points
				(sys 1: Electric Heat Pump 36000 btuh ,EFF(7.2) Ducts:Unc(S),Unc(R),Int(AH),R6.0						
				50436.7	0.429 (1.069 x 1.169 x 0.93)	0.474	1.000	1.000		11897.8
				(sys 2: Electric Heat Pump 48000 btuh ,EFF(7.2) Ducts: None						
				50436.7	0.571(1.00 x 1.169 x 1.00)	0.474	1.000	1.000		15863.7
<b>47452.8</b>	<b>0.6274</b>		<b>29771.9</b>	<b>50436.7</b>	<b>1.00</b>	<b>1.162</b>	<b>0.474</b>	<b>1.000</b>		<b>27761.5</b>



# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Hills of Windso, Plat: , Lake City, FL, 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 X Credit	= Total Multiplier
5		2635.00	13175.0	50.0	0.92	5		0.50	2635.00	1.00
				50.0	0.92	5		0.50	2635.00	1.00
<b>As-Built Total:</b>										<b>13175.0</b>

CODE COMPLIANCE STATUS											
BASE					AS-BUILT						
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
<b>36454</b>		<b>29772</b>		<b>13175</b>	<b>79401</b>	<b>24040</b>		<b>27762</b>		<b>13175</b>	<b>64977</b>

PASS



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Hills of Windso, Plat: , Lake City, FL,

PERMIT #:

### 6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 85.4**

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

Sunil Patel, Lot: 10, Sub: Hills of Windso, Plat: , Lake City, FL

<p>1. New construction or existing <span style="float: right;">New</span> <input type="checkbox"/></p> <p>2. Single family or multi-family <span style="float: right;">Single family</span> <input type="checkbox"/></p> <p>3. Number of units, if multi-family <span style="float: right;">1</span> <input type="checkbox"/></p> <p>4. Number of Bedrooms <span style="float: right;">5</span> <input type="checkbox"/></p> <p>5. Is this a worst case? <span style="float: right;">No</span> <input type="checkbox"/></p> <p>6. Conditioned floor area (ft<sup>2</sup>) <span style="float: right;">5714 ft<sup>2</sup></span> <input type="checkbox"/></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) 526.6 ft<sup>2</sup> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. SHGC:</p> <p style="margin-left: 40px;">(or Clear or Tint DEFAULT) 7b. (Clear) 526.6 ft<sup>2</sup> <input type="checkbox"/></p> <p>8. Floor types</p> <p style="margin-left: 20px;">a. Slab-On-Grade Edge Insulation <span style="float: right;">R=0.0, 326.0(p) ft</span> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>9. Wall types</p> <p style="margin-left: 20px;">a. Frame, Wood, Exterior <span style="float: right;">R=13.0, 5260.0 ft<sup>2</sup></span> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. Frame, Wood, Adjacent <span style="float: right;">R=13.0, 520.0 ft<sup>2</sup></span> <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">d. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">e. N/A <input type="checkbox"/></p> <p>10. Ceiling types</p> <p style="margin-left: 20px;">a. Under Attic <span style="float: right;">R=30.0, 3694.0 ft<sup>2</sup></span> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>11. Ducts</p> <p style="margin-left: 20px;">a. Sup: Unc. Ret: Unc. AH: Interior <span style="float: right;">Sup. R=6.0, 360.0 ft</span> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p>	<p>12. Cooling systems</p> <p style="margin-left: 20px;">a. Central Unit <span style="float: right;">Cap: 36.0 kBtu/hr</span> <input type="checkbox"/></p> <p style="margin-left: 40px;"><span style="float: right;">SEER: 13.00</span> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. Central Unit <span style="float: right;">Cap: 48.0 kBtu/hr</span> <input type="checkbox"/></p> <p style="margin-left: 40px;"><span style="float: right;">SEER: 13.00</span> <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>13. Heating systems</p> <p style="margin-left: 20px;">a. Electric Heat Pump <span style="float: right;">Cap: 36.0 kBtu/hr</span> <input type="checkbox"/></p> <p style="margin-left: 40px;"><span style="float: right;">HSPF: 7.20</span> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. Electric Heat Pump <span style="float: right;">Cap: 48.0 kBtu/hr</span> <input type="checkbox"/></p> <p style="margin-left: 40px;"><span style="float: right;">HSPF: 7.20</span> <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>14. Hot water systems</p> <p style="margin-left: 20px;">a. Electric Resistance <span style="float: right;">Cap: 50.0 gallons</span> <input type="checkbox"/></p> <p style="margin-left: 40px;"><span style="float: right;">EF: 0.92</span> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. Electric Resistance <span style="float: right;">Cap: 50.0 gallons</span> <input type="checkbox"/></p> <p style="margin-left: 40px;"><span style="float: right;">EF: 0.92</span> <input type="checkbox"/></p> <p style="margin-left: 20px;">c. Conservation credits <input type="checkbox"/></p> <p style="margin-left: 40px;">(HR-Heat recovery, Solar DHP-Dedicated heat pump)</p> <p>15. HVAC credits <input type="checkbox"/></p> <p style="margin-left: 20px;">(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)</p>
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I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: \_\_\_\_\_

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

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

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



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

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCSB v4.0)

**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No.  
000001403**

DATE 06/21/2007 PARCEL ID # 31-3S-16-02411-110

APPLICANT ROXANNE NAPIER PHONE 719-7143

ADDRESS 2109 W US HIGHWAY 90 LAKE CITY FL 32055

OWNER SUNIL & PRAVINA PATEL PHONE 364-5730

ADDRESS 518 SW WINDSOR DRIVE LAKE CITY FL 32024

CONTRACTOR ISAAC CONSTRUCTION PHONE 719-7143

LOCATION OF PROPERTY 90W, TL ON WINDSOR DR, AROUND CURVE, ON RIGHT, THE LOT BEFORE

FIRST HOUSE

SUBDIVISION/LOT/BLOCK/PHASE/UNIT HILLS OF WINDSOR 10

SIGNATURE *Roxanne Napier*

**INSTALLATION REQUIREMENTS**

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

**INSTALLATION NOTE: Turnouts will be required as follows:**

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

Culvert installation shall conform to the approved site plan standards.

Department of Transportation Permit installation approved standards.

Other \_\_\_\_\_

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

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

**Amount Paid 25.00**





# GENERAL OCCUPANCY

## OCCUPANCY

COLUMBIA COUNTY, FLORIDA

### Department of Building and Zoning Inspection

*This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.*

Parcel Number 31-3S-16-02411-110

Building permit No. 000025944

Use Classification SFD, UTILITY

Fire: 44.94

Permit Holder ISAAC CONSTRUCTION

Waste: 117.25

Owner of Building SUNIL & PRAVINA PATEL

Total: 162.19

Location: 518 SW WINDSOR DRIVE., LAKE CITY, FL

Date: 03/27/2009



Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)



# New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

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

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

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

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

#25940

## Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.  
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32056  
Company Business License No. JF104376 Company Phone No. 386-755-9311  
FHA/VA Case No. (if any) \_\_\_\_\_

## Section 2: Builder Information

Company Name: Sunil Patel Company Phone No. \_\_\_\_\_

## Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 519 S.W. Windsor Dr. Lake City, FL

Type of Construction (More than one box may be checked)  Slab  Basement  Crawl  Other \_\_\_\_\_  
Approximate Depth of Footing: Outside 12 Inside 36 Type of Fill Rock

## Section 4: Treatment Information

Date(s) of Treatment(s) 7-19-07  
Brand Name of Product(s) Used Pro-Flo  
EPA Registration No. 53487-184  
Approximate Final Mix Solution % .06  
Approximate Size of Treatment Area: Sq. ft. 5424 Linear ft. 340 Linear ft. of Masonry Voids 340  
Approximate Total Gallons of Solution Applied 1157  
Was treatment completed on exterior?  Yes  No  
Service Agreement Available?  Yes  No

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

Attachments (List) \_\_\_\_\_

Comments Treated

Name of Applicator(s) Steve Brennan Certification No. (if required by State law) JF104376

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

Authorized Signature 7-19-07 Steve Brennan Date 7-19-07

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

Form NPCA-99-B may still be used

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

"BUILDING DREAM HOMES"



2109 W. US Hwy 90 | SUITE #170 PMB338  
LAKE CITY, FL 32055

CBC059323

March 26, 2009

Columbia County Building & Zoning Department  
Attn: Randy Jones  
135 NE Hernando Avenue  
Suite # B21  
Lake City, FL 32055

RE: Permit # 000025944  
Sunil & Pravina Patel  
518 SW Windsor Drive  
Lake City, FL 32024

It is agreed between Isaac Bratkovich, owner of Isaac Construction, LLC the Contractor on the above home and Sunil Patel the owner of the above home that Sunil Patel will provide and install a permanent hand railing for the front steps of the home.

Sunil Patel  
Home Owner

Isaac Bratkovich, Owner  
Isaac Construction, LLC

Sunil Patel

# COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787  
PHONE: (386) 758-1125 \* FAX: (386) 758-1365 \* Email: rtm\_croft@columbiacountyfla.com

## Addressing Maintenance

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

DATE REQUESTED: 4/23/2007      DATE ISSUED: 4/24/2007

### ENHANCED 9-1-1 ADDRESS:

518      SW WINDSOR      DR

LAKE CITY      FL      32024

### PROPERTY APPRAISER PARCEL NUMBER:

31-3S-16-02411-110

### Remarks:

LOT 10 HILLS OF WINDSOR S/D.

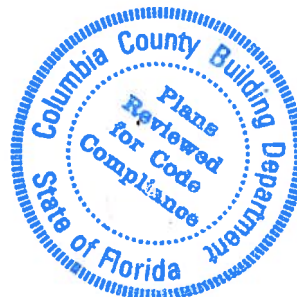
Address Issued By:   
Columbia County 9-1-1 Addressing / GIS Department

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

Approved Address

APR 24 2007

911Addressing/GIS Dept



728

Prepared by:  
Krisy B. Clayton  
Closing Time Title, Inc.  
101 Polo Park Boulevard, Suite 5B  
Davenport, Florida 33897

File Number: 06-1068

Inst:2006011936 Date:05/16/2006 Time:14:00

Doc Stamp-Deed : 1225.00

DC, P. DeWitt Cason, Columbia County B:1083 P:2494

### General Warranty Deed

Made this 5-2, 2006 A.D. By Ralph Fenimore, PO Box 405, Maticha, Florida 33993, hereinafter called the grantor, to Sanil Patel and Pravlon Patel, husband and wife, whose post office address is: 802 White Ave, Live Oak, Florida 32064, hereinafter called the grantees:

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, assigns, remises, releases, conveys and confirms unto the grantees, all that certain land situate in Columbia County, Florida, viz:

Lot 10, MILLS OF WINDSOR, according to the Plat thereof, as recorded in PFRD Book 1, Page(s) 1 through 3, inclusive, of the Public Records of Columbia County, Florida

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside therein.

Parcel ID Number: 313S

Together with all the easements, encumbrances and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said 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; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whatsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2004.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Laurel McClinton  
Witness Printed Name Laurel McClinton

Ralph Fenimore (Seal)  
Ralph Fenimore  
Address: PO Box 405, Maticha, Florida 33993

Liza Thomas  
Witness Printed Name Liza Thomas

\_\_\_\_\_  
Address

State of Florida  
County of Levy

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 2006, by Ralph Fenimore, who is/are personally known to me, or who has produced

Laurel McClinton  
Notary Public  
Print Name: Laurel McClinton  
My Commission Expires \_\_\_\_\_



Laurel McClinton  
MY COMMISSION # 150156675 EXPIRES  
October 19, 2006  
BONDED THROUGH NBI INSURANCE, INC

NOTED: Individual Warranty Deed With Non-Homestead-Legal on Face  
Closing/Creation



NOTICE OF COMMENCEMENT FORM  
COLUMBIA COUNTY, FLORIDA

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.

Tax Parcel ID Number 31-35-16-02411-110

1. Description of property: (legal description of the property and street address or 911 address)  
Hills of Windsor Lot #10 (518 SW Windsor Dr.)  
S/D WD 1027-841, WD 1083-2494  
First left in subdivision. Round curve +  
lot #10 is right side. Lot before first house.

2. General description of improvement: single family dwelling

3. Owner Name & Address Sunil + Prayina Patel 802 White Ave.  
Live Oak, FL 32064 Interest in Property \_\_\_\_\_

4. Name & Address of Fee Simple Owner (if other than owner): \_\_\_\_\_

5. Contractor Name Isaac Construction Phone Number 719-7143  
Address 2109 W US Hwy 90 Suite 170 PMB #338 L C FL 32055

6. Surety Holders Name n/a Phone Number \_\_\_\_\_  
Address \_\_\_\_\_  
Amount of Bond n/a

7. Lender Name cash Phone Number \_\_\_\_\_  
Address \_\_\_\_\_

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name n/a Inst: 2007011561 Date: 05/23/2007 Time: 13:26  
Address \_\_\_\_\_ DC, P. DeWitt Cason, Columbia County B: 1120 P: 145

9. In addition to himself/herself the owner design \_\_\_\_\_ of \_\_\_\_\_  
\_\_\_\_\_ to receive a copy of the \_\_\_\_\_ as provided in Section 713.13 (1) -  
(a) 7. Phone Number of the designee \_\_\_\_\_

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) \_\_\_\_\_

**NOTICE AS PER CHAPTER 713, Florida Statutes:**

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

[Signature]  
Signature of Owner



Sworn to (or affirmed) and subscribed before 23  
day of May, 2007

NOTARY STAMP/SEAL

[Signature]  
Signature of Notary

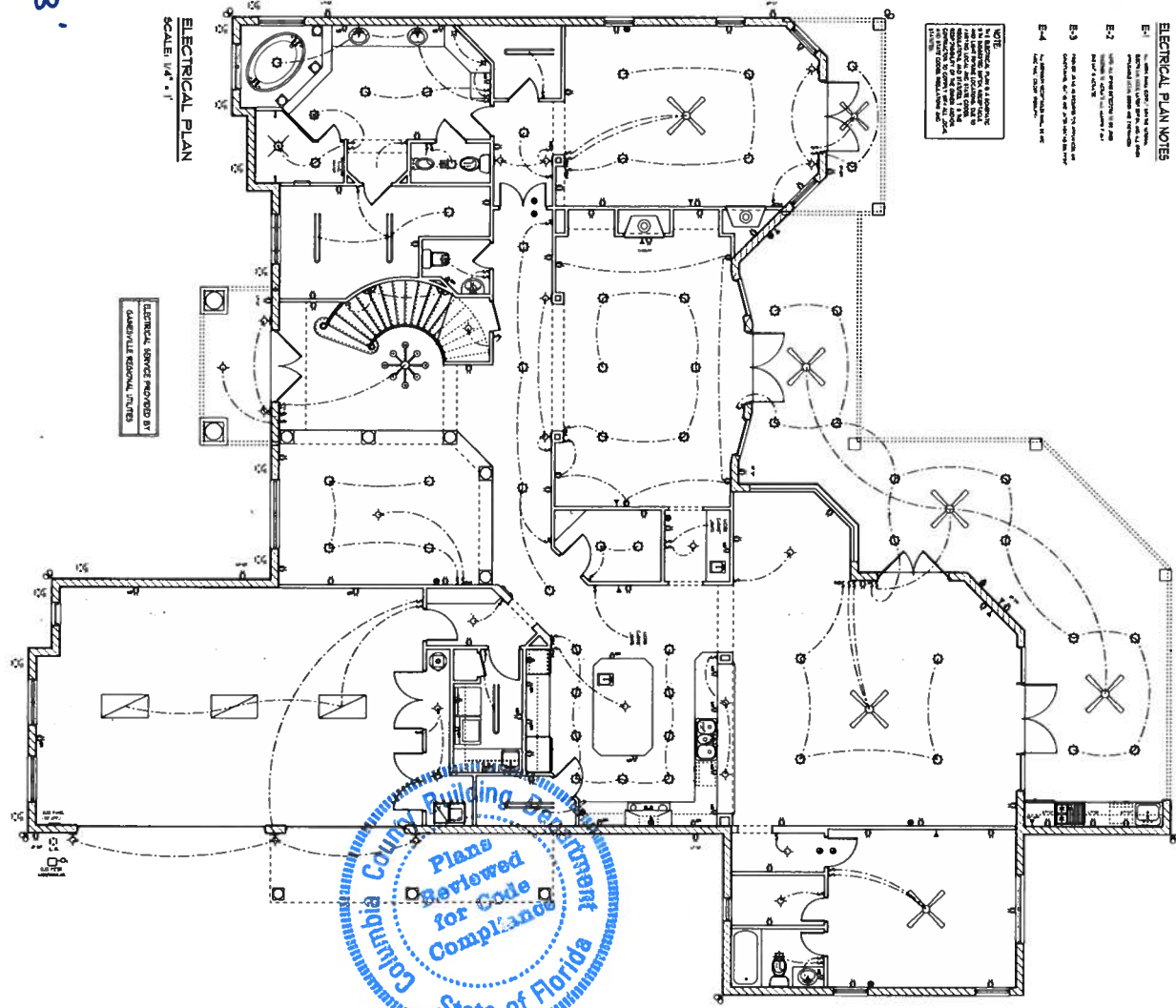
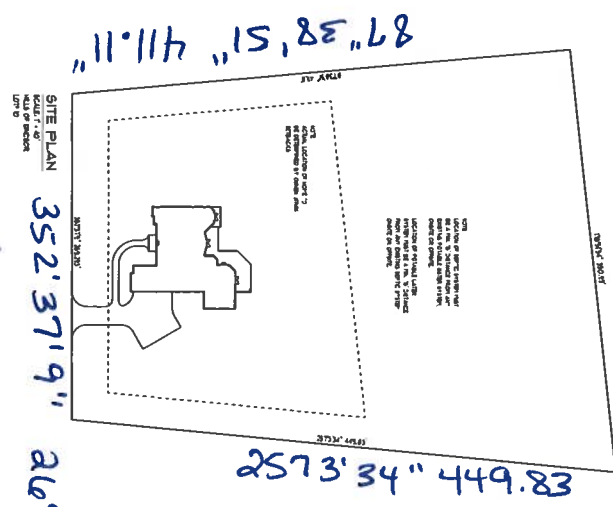
**ELECTRICAL LEGEND**

- 1. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
- 2. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
- 3. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
- 4. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
- 5. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
- 6. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
- 7. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
- 8. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
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- 11. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
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- 13. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
- 14. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
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- 99. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE
- 100. 2" x 4" x 8" SUBMERGED LIGHT FIXTURE

**ELECTRICAL PLAN NOTES**

- E-1. ALL LIGHT FIXTURES TO BE 2" x 4" x 8" SUBMERGED LIGHT FIXTURES UNLESS OTHERWISE NOTED.
- E-2. ALL SWITCHES TO BE 15 AMP 120V SINGLE POLE SWITCHES UNLESS OTHERWISE NOTED.
- E-3. ALL DIMMER SWITCHES TO BE 15 AMP 120V DIMMER SWITCHES UNLESS OTHERWISE NOTED.
- E-4. ALL TELEPHONE OUTLETS TO BE 120V TELEPHONE OUTLETS UNLESS OTHERWISE NOTED.

Site Plan  
 178'5" x 4" 350.09'  
 2573'34" 449.83



ALL DIMENSIONS NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

<p>DATE: 01/11/06</p> <p>BY: [Signature]</p> <p>SCALE: 1/4" = 1'</p>	<p><b>ELECTRICAL PLAN</b></p>	<p>CUSTOM HOME DESIGNED FOR:</p> <p><b>SUNIL &amp; PRAVINA PATEL</b></p> <p>COPYRIGHT 2006, DDS STUDIOS</p>	<p>ISSUED BY: [Signature]</p> <p>DATE: 01/11/06</p>	<p>PROJECT NO. [Number]</p>
	<p><b>SITE PLAN</b></p>			

BOUNDARY SURVEY IN SECTION 31, TOWNSHIP 3 SOUTH, COLUMBIA COUNTY, FLORIDA, RANGE 16 EAST.

SYMBOL LEGEND

- 4"x4" CONCRETE MONUMENT FOUND
- 4"x4" CONCRETE MONUMENT SET
- IRON PIPE FOUND
- IRON PIN AND CAP SET
- POWER POLE
- WATER METER
- CENTERLINE
- WELL
- SATELLITE DISH
- TELEPHONE BOX
- ELECTRIC LINES
- WIRE FENCE
- CHAIN LINK FENCE
- WOODEN FENCE

SCALE: 1" = 60'



NOTE: UNLESS OTHERWISE DENOTED ALL PROPERTY CORNERS LOCATED WERE IDENTIFIED AS BAILEY, BISHOP & LAKE, L.B. 6685.

DESCRIPTION LOT 10 OF "HILLS OF WINDSOR" AS PER PLAT THEREOF RECORDED IN PROB BOOK 1, PAGES 1-3 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

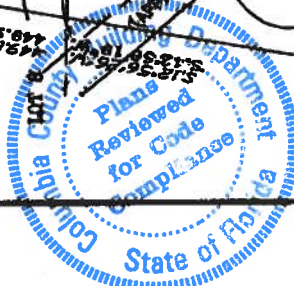
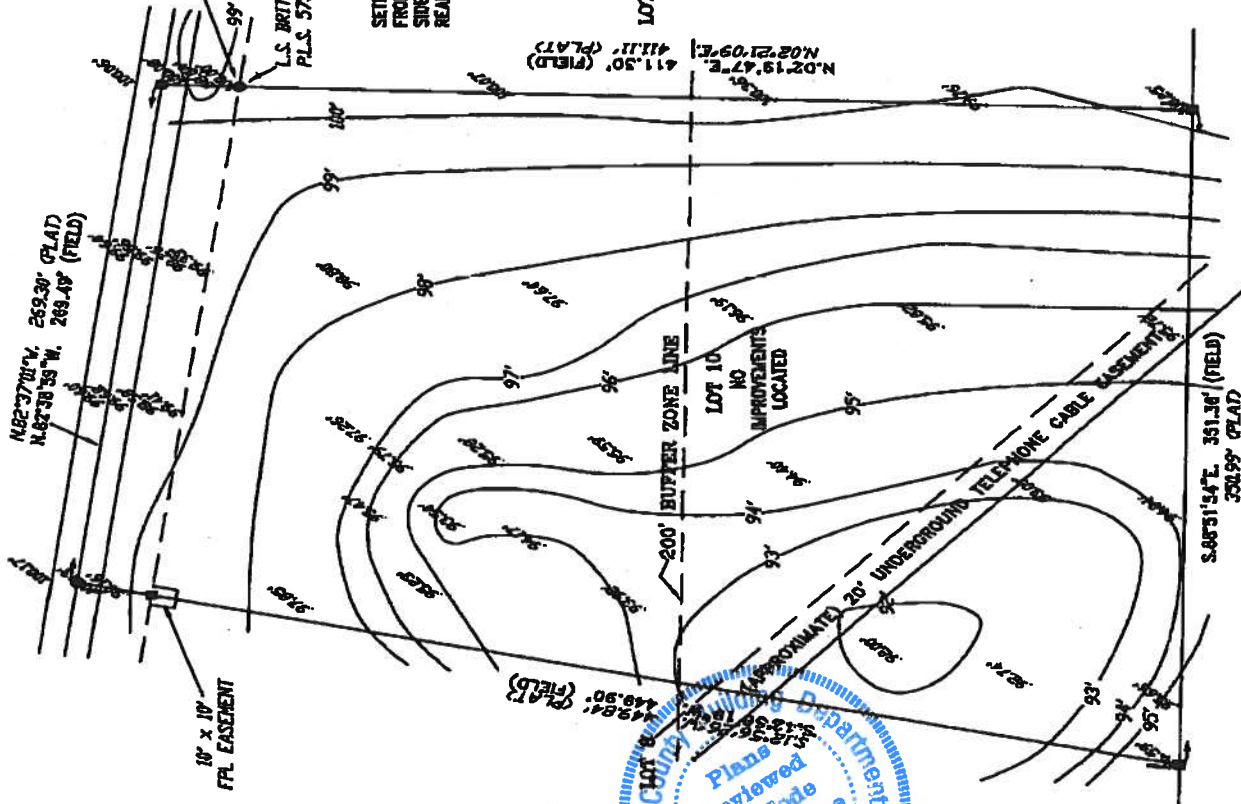
- SURVEYOR'S NOTES**
1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF THE ORIGINAL SURVEY FOR SAID PLAT OF RECORD.
  2. BEARINGS ARE BASED ON SAID PLAT OF RECORD.
  3. THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 120070 0175 & HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
  4. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
  5. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE FELICY.
  6. ELEVATIONS SHOWN HEREON ARE BASED ON AN ASSUMED ELEVATION OF 100.00 FEET.

SETBACKS ARE AS FOLLOWS:  
FRONT = 30'  
SIDE = 25'  
REAR = 25'

BENCHMARK ASSUMED ELEVATION = 100'

L.S. BRITT P.L.S. 5757

LOT 12



**BRITT SURVEYING & ASSOCIATES, INC.**

LAND SURVEYORS AND MAPPERS

500 WEST BAYVIEW STREET LAKE CITY, FLORIDA 32805  
 (813) 526-7163 FAX (813) 526-5573  
 WORK ORDER # L-18369

**RECORDS INFORMATION**

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY PERSONAL SUPERVISION AND THAT THE NUMBER OF ACRES SHOWN IS CORRECT AS SET FORTH IN THE PLAT. I AM A LICENSED SURVEYOR AND MAPPING ENGINEER IN ACCORDANCE WITH THE FLORIDA STATUTES, CHAPTER 463, PART 1, AND THE FLORIDA PROFESSIONAL ENGINEERING AND SURVEYING BOARD.

DATE SURVEYED: 04/27/07  
 DATE OF THIS PLAT: 04/30/07  
 FIELD SURVEYOR: L.S. BRITT, P.L.S. 5757  
 CHECKED BY: [Signature]

CERTIFIED TRUE

SUNIL PATEL

FIELD BOOK: 297 PAGES: 14





Lake City (386) 755-3611  
Gainesville (352) 494-5751  
Fax (386) 755-3885  
Toll Free 1-800-616-4707

**Notice of Intent for Preventative Treatment for Termites**  
(As required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.  
(386) 755-3611  
State License # - JB109476  
State Certification # - JF104376

(Patel) Hills Of Winsor 518 Winsor Dr. Lake City, Fl. 32024  
Address of Treatment or Lot/Block of Treatment

**Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate**

Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

**Application onto Structural Wood**

Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8.

Celia Dwyer  
Authorized Signature

4/23/07  
Date



Commercial • Residential  
301 NW Cole Terrace / Lake City, Florida 32055



# Columbia County Property Appraiser

## 2007 Proposed Values

DB Last Updated: 4/11/2007

Parcel: 31-3S-16-02411-110

### Owner & Property Info

Search Result: 1 of 1

<b>Owner's Name</b>	PATEL SUNIL & PRAVINA		
<b>Site Address</b>			
<b>Mailing Address</b>	802 WHITE AVE LIVE OAK, FL 32064		
<b>Use Desc. (code)</b>	VACANT (000000)		
<b>Neighborhood</b>	30316.00	<b>Tax District</b>	3
<b>UD Codes</b>	MKTA01	<b>Market Area</b>	01
<b>Total Land Area</b>	3.040 ACRES		
<b>Description</b>	LOT 10 HILLS OF WINDSOR S/D. WD 1027-841. WD 1083-2494		

### GIS Aerial



### Property & Assessment Values

<b>Mkt Land Value</b>	cnt: (1)	\$125,000.00
<b>Ag Land Value</b>	cnt: (0)	\$0.00
<b>Building Value</b>	cnt: (0)	\$0.00
<b>XFOB Value</b>	cnt: (0)	\$0.00
<b>Total Appraised Value</b>		\$125,000.00

<b>Just Value</b>	\$125,000.00
<b>Class Value</b>	\$0.00
<b>Assessed Value</b>	\$125,000.00
<b>Exempt Value</b>	\$0.00
<b>Total Taxable Value</b>	\$125,000.00

### Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
5/2/2006	1083/2494	WD	V	Q		\$175,000.00
9/15/2004	1027/841	WD	V	Q		\$65,000.00

### Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

### Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

### Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	1.000 LT - (3.040AC)	1.00/1.00/1.00/1.00	\$125,000.00	\$125,000.00

Columbia County Property Appraiser

DB Last Updated: 4/11/2007



# PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products.

Category/Subcategory	Manufacturer	Product Description	Approval Number
<b>1. EXTERIOR DOORS</b>			
A. SWINGING	PlastPRO INC	3068 x 6068 Fiberglass	4760.1 & 2
B. SLIDING	CAPITAL	8065	7055.1
C. SECTIONAL	Raynor	Classic Sectional Garage Door	FL-3070
D. ROLL UP	Janus	Model 3100 - Rolling Sheet Door	FL-2274
E. AUTOMATIC			
F. OTHER			
<b>2. WINDOWS</b>			
A. SINGLE HUNG	CAPITAL	48 x 84	6029.7
B. HORIZONTAL SLIDER	CAPITAL	126 x 59	6024.4
C. CASEMENT			
D. DOUBLE HUNG	Darrid	Single Hung windows	FL1369
E. FIXED	CAPITAL	96 x 72	6028.20
F. AWNING			
G. PASS THROUGH			
H. PROJECTED			
I. MULLION			
J. WIND BREAKER			
K. DUAL ACTION			
L. OTHER			
<b>3. PANEL WALL</b>			
A. SIDING	Alcoa	vinyl siding	FL1621
B. SOFFITS	ASI Building Pro.	Aluminum & vinyl soffit	FL5546 1 & 2
C. EIFS			
D. STOREFRONTS			
E. CURTAIN WALLS			
F. WALL LOUVER			
G. GLASS BLOCK			
H. MEMBRANE			
I. GREENHOUSE			
J. OTHER			
<b>4. ROOFING PRODUCTS</b>			
A. ASPHALT SHINGLES	TAMKO	30-YEAR shingles asphalt	FL673
B. UNDERLAYMENTS			
C. ROOFING FASTENERS			
D. NON-STRUCTURAL METAL ROOFING			
E. WOOD SHINGLES AND SHAKES			
F. ROOFING TILES			
G. ROOFING INSULATION			
H. WATERPROOFING			

I. BUILT UP ROOFING ROOF SYSTEMS			
J. MODIFIED BITUMEN			
K. SINGLE PLY ROOF SYSTEMS			
L. ROOFING SLATE			
M. CEMENTS-ADHESIVES COATINGS			

Category/Subcategory	Manufacturer	Product Description	Approval Number
N. LIQUID APPLIED ROOF SYSTEMS			
O. ROOF TILE ADHESIVE			
P. SPRAY APPLIED POLYURETHANE ROOF			
Q. OTHER			
<b>5. SHUTTERS</b>			
A. ACCORDION			
B. BAHAMA			
C. STORM PANELS			
D. COLONIAL			
E. ROLL-UP			
F. EQUIPMENT			
G. OTHERS			
<b>6. SKYLIGHTS</b>			
A. SKYLIGHT			
B. OTHER			
<b>7. STRUCTURAL COMPONENTS</b>			
A. WOOD CONNECTORS/ ANCHORS	<i>Simpson Strong</i>	<i>Wood connectors/anchors</i>	<i>FL1474</i>
B. TRUSS PLATES	<i>Alpine Engineered</i>	<i>Product - Alpine Truss Plates</i>	<i>FL999</i>
C. ENGINEERED LUMBER	<i>LPEWP</i>	<i>Laminated beams, I Joist</i>	<i>FL 1511</i>
D. RAILING			
E. COOLERS-FREEZERS			
F. CONCRETE ADMIXTURES			
G. MATERIAL			
H. INSULATION FORMS			
I. PLASTICS			
J. DECK-ROOF			
K. WALL			
L. SHEDS			
M. OTHER			
<b>8. NEW EXTERIOR ENVELOPE PRODUCTS</b>			
A.			
B.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of the products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

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\_\_\_\_\_  
APPLICANT SIGNATURE

\_\_\_\_\_  
DATE

L:/GENERAL/STATEPROD.XLS

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

<b>Project Name:</b> S, Patel Residence <b>Address:</b> Lot: 10, Sub: Hills of Windso, Plat: <b>City, State:</b> Lake City, FL <b>Owner:</b> Sunil Patel <b>Climate Zone:</b> North	<b>Builder:</b> Isaac Const <b>Permitting Office:</b> <b>Permit Number:</b> <b>Jurisdiction Number:</b>
---	--

<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">1. New construction or existing</td> <td style="width: 30%; text-align: right;">New</td> <td style="width: 10%; text-align: center;">___</td> </tr> <tr> <td>2. Single family or multi-family</td> <td style="text-align: right;">Single family</td> <td style="text-align: center;">___</td> </tr> <tr> <td>3. Number of units, if multi-family</td> <td style="text-align: right;">1</td> <td style="text-align: center;">___</td> </tr> <tr> <td>4. Number of Bedrooms</td> <td style="text-align: right;">5</td> <td style="text-align: center;">___</td> </tr> <tr> <td>5. Is this a worst case?</td> <td style="text-align: right;">No</td> <td style="text-align: center;">___</td> </tr> <tr> <td>6. Conditioned floor area (ft²)</td> <td style="text-align: right;">5714 ft²</td> <td style="text-align: center;">___</td> </tr> <tr> <td colspan="3">7. Glass type<sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)</td> </tr> <tr> <td style="padding-left: 20px;">a. U-factor:</td> <td style="padding-left: 20px;">Description Area</td> <td></td> </tr> <tr> <td style="padding-left: 40px;">(or Single or Double DEFAULT)</td> <td style="padding-left: 40px;">7a. (Dble Default) 526.6 ft²</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">b. SHGC:</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 40px;">(or Clear or Tint DEFAULT)</td> <td style="padding-left: 40px;">7b. (Clear) 526.6 ft²</td> <td style="text-align: center;">___</td> </tr> <tr> <td colspan="3">8. Floor types</td> </tr> <tr> <td style="padding-left: 20px;">a. Slab-On-Grade Edge Insulation</td> <td style="padding-left: 20px;">R=0.0, 326.0(p) ft</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">b. N/A</td> <td></td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">c. N/A</td> <td></td> <td style="text-align: center;">___</td> </tr> <tr> <td colspan="3">9. Wall types</td> </tr> <tr> <td style="padding-left: 20px;">a. Frame, Wood, Exterior</td> <td style="padding-left: 20px;">R=13.0, 5260.0 ft²</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">b. Frame, Wood, Adjacent</td> <td style="padding-left: 20px;">R=13.0, 520.0 ft²</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">c. N/A</td> <td></td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">d. N/A</td> <td></td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">e. N/A</td> <td></td> <td style="text-align: center;">___</td> </tr> <tr> <td colspan="3">10. Ceiling types</td> </tr> <tr> <td style="padding-left: 20px;">a. Under Attic</td> <td style="padding-left: 20px;">R=30.0, 3694.0 ft²</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">b. N/A</td> <td></td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">c. N/A</td> <td></td> <td style="text-align: center;">___</td> </tr> <tr> <td colspan="3">11. Ducts</td> </tr> <tr> <td style="padding-left: 20px;">a. Sup: Unc. Ret: Unc. AH: Interior</td> <td style="padding-left: 20px;">Sup. R=6.0, 360.0 ft</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">b. N/A</td> <td></td> <td style="text-align: center;">___</td> </tr> </table>	1. New construction or existing	New	___	2. Single family or multi-family	Single family	___	3. Number of units, if multi-family	1	___	4. Number of Bedrooms	5	___	5. Is this a worst case?	No	___	6. Conditioned floor area (ft²)	5714 ft²	___	7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)			a. U-factor:	Description Area		(or Single or Double DEFAULT)	7a. (Dble Default) 526.6 ft²	___	b. SHGC:			(or Clear or Tint DEFAULT)	7b. (Clear) 526.6 ft²	___	8. Floor types			a. Slab-On-Grade Edge Insulation	R=0.0, 326.0(p) ft	___	b. N/A		___	c. N/A		___	9. Wall types			a. Frame, Wood, Exterior	R=13.0, 5260.0 ft²	___	b. Frame, Wood, Adjacent	R=13.0, 520.0 ft²	___	c. N/A		___	d. N/A		___	e. N/A		___	10. Ceiling types			a. Under Attic	R=30.0, 3694.0 ft²	___	b. N/A		___	c. N/A		___	11. Ducts			a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 360.0 ft	___	b. N/A		___	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">12. Cooling systems</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">a. Central Unit</td> <td style="padding-left: 20px;">Cap: 36.0 kBtu/hr</td> <td style="text-align: center;">___</td> </tr> <tr> <td></td> <td style="padding-left: 40px;">SEER: 13.00</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">b. Central Unit</td> <td style="padding-left: 20px;">Cap: 48.0 kBtu/hr</td> <td style="text-align: center;">___</td> </tr> <tr> <td></td> <td style="padding-left: 40px;">SEER: 13.00</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">c. N/A</td> <td></td> <td style="text-align: center;">___</td> </tr> <tr> <td colspan="3">13. Heating systems</td> </tr> <tr> <td style="padding-left: 20px;">a. Electric Heat Pump</td> <td style="padding-left: 20px;">Cap: 36.0 kBtu/hr</td> <td style="text-align: center;">___</td> </tr> <tr> <td></td> <td style="padding-left: 40px;">HSPF: 7.20</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">b. Electric Heat Pump</td> <td style="padding-left: 20px;">Cap: 48.0 kBtu/hr</td> <td style="text-align: center;">___</td> </tr> <tr> <td></td> <td style="padding-left: 40px;">HSPF: 7.20</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">c. N/A</td> <td></td> <td style="text-align: center;">___</td> </tr> <tr> <td colspan="3">14. Hot water systems</td> </tr> <tr> <td style="padding-left: 20px;">a. Electric Resistance</td> <td style="padding-left: 20px;">Cap: 50.0 gallons</td> <td style="text-align: center;">___</td> </tr> <tr> <td></td> <td style="padding-left: 40px;">EF: 0.92</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">b. Electric Resistance</td> <td style="padding-left: 20px;">Cap: 50.0 gallons</td> <td style="text-align: center;">___</td> </tr> <tr> <td></td> <td style="padding-left: 40px;">EF: 0.92</td> <td style="text-align: center;">___</td> </tr> <tr> <td style="padding-left: 20px;">c. Conservation credits</td> <td></td> <td style="text-align: center;">___</td> </tr> <tr> <td></td> <td style="padding-left: 40px;">(HR-Heat recovery, Solar</td> <td></td> </tr> <tr> <td></td> <td style="padding-left: 40px;">DHP-Dedicated heat pump)</td> <td></td> </tr> <tr> <td colspan="3">15. HVAC credits</td> </tr> <tr> <td></td> <td style="padding-left: 40px;">(CF-Ceiling fan, CV-Cross ventilation,</td> <td></td> </tr> <tr> <td></td> <td style="padding-left: 40px;">HF-Whole house fan,</td> <td></td> </tr> <tr> <td></td> <td style="padding-left: 40px;">PT-Programmable Thermostat,</td> <td></td> </tr> <tr> <td></td> <td style="padding-left: 40px;">MZ-C-Multizone cooling,</td> <td></td> </tr> <tr> <td></td> <td style="padding-left: 40px;">MZ-H-Multizone heating)</td> <td></td> </tr> </table>	12. Cooling systems			a. Central Unit	Cap: 36.0 kBtu/hr	___		SEER: 13.00	___	b. Central Unit	Cap: 48.0 kBtu/hr	___		SEER: 13.00	___	c. N/A		___	13. Heating systems			a. Electric Heat Pump	Cap: 36.0 kBtu/hr	___		HSPF: 7.20	___	b. Electric Heat Pump	Cap: 48.0 kBtu/hr	___		HSPF: 7.20	___	c. N/A		___	14. Hot water systems			a. Electric Resistance	Cap: 50.0 gallons	___		EF: 0.92	___	b. Electric Resistance	Cap: 50.0 gallons	___		EF: 0.92	___	c. Conservation credits		___		(HR-Heat recovery, Solar			DHP-Dedicated heat pump)		15. HVAC credits				(CF-Ceiling fan, CV-Cross ventilation,			HF-Whole house fan,			PT-Programmable Thermostat,			MZ-C-Multizone cooling,			MZ-H-Multizone heating)	
1. New construction or existing	New	___																																																																																																																																																																	
2. Single family or multi-family	Single family	___																																																																																																																																																																	
3. Number of units, if multi-family	1	___																																																																																																																																																																	
4. Number of Bedrooms	5	___																																																																																																																																																																	
5. Is this a worst case?	No	___																																																																																																																																																																	
6. Conditioned floor area (ft²)	5714 ft²	___																																																																																																																																																																	
7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)																																																																																																																																																																			
a. U-factor:	Description Area																																																																																																																																																																		
(or Single or Double DEFAULT)	7a. (Dble Default) 526.6 ft²	___																																																																																																																																																																	
b. SHGC:																																																																																																																																																																			
(or Clear or Tint DEFAULT)	7b. (Clear) 526.6 ft²	___																																																																																																																																																																	
8. Floor types																																																																																																																																																																			
a. Slab-On-Grade Edge Insulation	R=0.0, 326.0(p) ft	___																																																																																																																																																																	
b. N/A		___																																																																																																																																																																	
c. N/A		___																																																																																																																																																																	
9. Wall types																																																																																																																																																																			
a. Frame, Wood, Exterior	R=13.0, 5260.0 ft²	___																																																																																																																																																																	
b. Frame, Wood, Adjacent	R=13.0, 520.0 ft²	___																																																																																																																																																																	
c. N/A		___																																																																																																																																																																	
d. N/A		___																																																																																																																																																																	
e. N/A		___																																																																																																																																																																	
10. Ceiling types																																																																																																																																																																			
a. Under Attic	R=30.0, 3694.0 ft²	___																																																																																																																																																																	
b. N/A		___																																																																																																																																																																	
c. N/A		___																																																																																																																																																																	
11. Ducts																																																																																																																																																																			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 360.0 ft	___																																																																																																																																																																	
b. N/A		___																																																																																																																																																																	
12. Cooling systems																																																																																																																																																																			
a. Central Unit	Cap: 36.0 kBtu/hr	___																																																																																																																																																																	
	SEER: 13.00	___																																																																																																																																																																	
b. Central Unit	Cap: 48.0 kBtu/hr	___																																																																																																																																																																	
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Glass/Floor Area: 0.12	Total as-built points: 64977 Total base points: 79401	PASS
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I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

**PREPARED BY:**

**DATE:** 5-30-07

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:** \_\_\_\_\_

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCSB v4.0)

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Hills of Windso, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points			
.18	5714.0	20.04	20611.5	Double, Clear	N	1.5	7.0	24.0	19.20	0.96	440.1
				Double, Clear	E	1.5	7.0	24.0	42.06	0.94	947.3
				Double, Clear	N	1.5	6.0	20.0	19.20	0.94	360.4
				Double, Clear	N	1.5	7.0	39.0	19.20	0.96	715.1
				Double, Clear	N	1.5	6.0	30.0	19.20	0.94	540.7
				Double, Clear	N	1.5	6.0	15.0	19.20	0.94	270.3
				Double, Clear	W	1.5	6.0	20.0	38.52	0.91	703.7
				Double, Clear	W	1.5	7.0	36.0	38.52	0.94	1302.2
				Double, Clear	S	1.5	7.0	36.0	35.87	0.89	1155.0
				Double, Clear	S	10.0	3.0	16.0	35.87	0.43	247.9
				Double, Clear	E	10.0	3.0	4.0	42.06	0.36	60.0
				Double, Clear	E	1.5	16.0	32.5	42.06	1.00	1360.3
				Double, Clear	E	1.5	6.0	66.0	42.06	0.91	2533.9
				Double, Clear	S	1.5	5.0	37.3	35.87	0.81	1080.5
				Double, Clear	S	1.5	7.0	39.0	35.87	0.89	1251.3
				Double, Clear	SE	10.0	9.0	104.0	42.75	0.47	2107.5
				Double, Clear	S	10.0	12.0	60.0	35.87	0.55	1173.0
				Double, Clear	S	10.0	3.0	12.0	35.87	0.43	185.9
				Double, Clear	N	1.5	7.0	12.0	19.20	0.96	220.0
				Double, Clear	S	1.5	6.0	33.0	35.87	0.86	1013.4
				Double, Clear	S	1.5	5.0	48.0	35.87	0.81	1389.2
				<b>As-Built Total:</b>			707.8		19057.6		
<b>WALL TYPES</b>				Area X BSPM = Points		Type	R-Value	Area X SPM = Points			
Adjacent	520.0	0.70	364.0	Frame, Wood, Exterior		13.0	5260.0	1.50		7890.0	
Exterior	5260.0	1.70	8942.0	Frame, Wood, Adjacent		13.0	520.0	0.60		312.0	
<b>Base Total:</b>	<b>5780.0</b>		<b>9306.0</b>	<b>As-Built Total:</b>			<b>5780.0</b>			<b>8202.0</b>	
<b>DOOR TYPES</b>				Area X BSPM = Points		Type	Area X SPM = Points				
Adjacent	20.0	2.40	48.0	Exterior Insulated			70.0	4.10		287.0	
Exterior	462.0	6.10	2818.2	Exterior Insulated			80.0	4.10		328.0	
				Exterior Insulated			144.0	4.10		590.4	
				Exterior Insulated			72.0	4.10		295.2	
				Exterior Insulated			96.0	4.10		393.6	
				Adjacent Insulated			20.0	1.60		32.0	
<b>Base Total:</b>	<b>482.0</b>		<b>2866.2</b>	<b>As-Built Total:</b>			<b>482.0</b>			<b>1926.2</b>	



# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Hills of Windso, Plat: , Lake City, FL, PERMIT #:

BASE	AS-BUILT
<b>CEILING TYPES</b> Area X BSPM = Points	Type R-Value Area X SPM X SCM = Points
Under Attic 3694.0 1.73 6390.6	Under Attic 30.0 3694.0 1.73 X 1.00 6390.6
<b>Base Total: 3694.0 6390.6</b>	<b>As-Built Total: 3694.0 6390.6</b>
<b>FLOOR TYPES</b> Area X BSPM = Points	Type R-Value Area X SPM = Points
Slab 326.0(p) -37.0 -12062.0	Slab-On-Grade Edge Insulation 0.0 326.0(p) -41.20 -13431.2
Raised 0.0 0.00 0.0	
<b>Base Total: -12062.0</b>	<b>As-Built Total: 326.0 -13431.2</b>
<b>INFILTRATION</b> Area X BSPM = Points	Area X SPM = Points
5714.0 10.21 58339.9	5714.0 10.21 58339.9
<b>Summer Base Points: 85452.3</b>	<b>Summer As-Built Points: 80485.1</b>
Total Summer X System = Cooling Points Multiplier Points	Total X Cap X Duct X System X Credit = Cooling Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)
<b>85452.3 0.4266 36454.0</b>	(sys 1: Central Unit 36000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 80485 0.43 (1.09 x 1.147 x 0.91) 0.263 1.000 10303.0 (sys 2: Central Unit 48000 btuh ,SEER/EFF(13.0) Ducts: None 80485 0.57 (1.00 x 1.147 x 1.00) 0.263 1.000 13737.3 <b>80485.1 1.00 1.138 0.263 1.000 24040.3</b>

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Hills of Windso, Plat: , Lake City, FL,	PERMIT #:
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BASE				AS-BUILT								
<b>GLASS TYPES</b>												
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points				
.18	5714.0	12.74	13103.3	Double, Clear	N	1.5	7.0	24.0	24.58	1.00	590.8	
				Double, Clear	E	1.5	7.0	24.0	18.79	1.03	463.0	
				Double, Clear	N	1.5	6.0	20.0	24.58	1.00	492.7	
				Double, Clear	N	1.5	7.0	39.0	24.58	1.00	960.0	
				Double, Clear	N	1.5	6.0	30.0	24.58	1.00	739.1	
				Double, Clear	N	1.5	6.0	15.0	24.58	1.00	369.5	
				Double, Clear	W	1.5	6.0	20.0	20.73	1.02	424.3	
				Double, Clear	W	1.5	7.0	36.0	20.73	1.02	758.5	
				Double, Clear	S	1.5	7.0	36.0	13.30	1.07	514.1	
				Double, Clear	S	10.0	3.0	16.0	13.30	3.66	778.7	
				Double, Clear	E	10.0	3.0	4.0	18.79	1.51	113.3	
				Double, Clear	E	1.5	16.0	32.5	18.79	1.01	614.3	
				Double, Clear	E	1.5	6.0	66.0	18.79	1.04	1284.3	
				Double, Clear	S	1.5	5.0	37.3	13.30	1.20	594.3	
				Double, Clear	S	1.5	7.0	39.0	13.30	1.07	556.9	
				Double, Clear	SE	10.0	9.0	104.0	14.71	2.04	3118.6	
				Double, Clear	S	10.0	12.0	60.0	13.30	2.46	1959.2	
				Double, Clear	S	10.0	3.0	12.0	13.30	3.66	584.0	
				Double, Clear	N	1.5	7.0	12.0	24.58	1.00	295.4	
				Double, Clear	S	1.5	6.0	33.0	13.30	1.12	490.4	
				Double, Clear	S	1.5	5.0	48.0	13.30	1.20	764.2	
				<b>As-Built Total:</b>			<b>707.8</b>			<b>16465.6</b>		
<b>WALL TYPES</b>				Area X BWPM = Points		Type		R-Value		Area X WPM = Points		
Adjacent				520.0	3.60	1872.0	Frame, Wood, Exterior		13.0	5260.0	3.40	17884.0
Exterior				5260.0	3.70	19462.0	Frame, Wood, Adjacent		13.0	520.0	3.30	1716.0
<b>Base Total:</b>				<b>5780.0</b>	<b>21334.0</b>		<b>As-Built Total:</b>		<b>5780.0</b>		<b>19600.0</b>	
<b>DOOR TYPES</b>				Area X BWPM = Points		Type		Area X WPM = Points				
Adjacent				20.0	11.50	230.0	Exterior Insulated		70.0	8.40	588.0	
Exterior				462.0	12.30	5682.6	Exterior Insulated		80.0	8.40	672.0	
							Exterior Insulated		144.0	8.40	1209.6	
							Exterior Insulated		72.0	8.40	604.8	
							Exterior Insulated		96.0	8.40	806.4	
							Adjacent Insulated		20.0	8.00	160.0	
<b>Base Total:</b>				<b>482.0</b>	<b>5912.6</b>		<b>As-Built Total:</b>		<b>482.0</b>		<b>4040.8</b>	

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Hills of Windso, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT					
<b>CEILING TYPES</b> Area X BWPM = Points				Type	R-Value	Area X WPM X WCM = Points			
Under Attic	3694.0	2.05	7572.7	Under Attic	30.0	3694.0	2.05 X 1.00 = 7572.7		
<b>Base Total:</b>			<b>7572.7</b>	<b>As-Built Total:</b>		<b>3694.0</b>	<b>7572.7</b>		
<b>FLOOR TYPES</b> Area X BWPM = Points				Type	R-Value	Area X WPM = Points			
Slab	326.0(p)	8.9	2901.4	Slab-On-Grade Edge Insulation	0.0	326.0(p)	18.80 = 6128.8		
Raised	0.0	0.00	0.0						
<b>Base Total:</b>			<b>2901.4</b>	<b>As-Built Total:</b>		<b>326.0</b>	<b>6128.8</b>		
<b>INFILTRATION</b> Area X BWPM = Points				Area X WPM = Points					
			5714.0			5714.0	-0.59 = -3371.3		
<b>Winter Base Points:</b>			<b>47452.8</b>	<b>Winter As-Built Points:</b>			<b>50436.7</b>		
Total Winter X Points	System Multiplier	=	Heating Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Heating Points
				(sys 1: Electric Heat Pump 36000 btuh ,EFF(7.2) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
				50436.7	0.429 (1.069 x 1.169 x 0.93)	0.474	1.000		11897.8
				(sys 2: Electric Heat Pump 48000 btuh ,EFF(7.2) Ducts: None					
				50436.7	0.571(1.00 x 1.169 x 1.00)	0.474	1.000		15863.7
<b>47452.8</b>	<b>0.6274</b>		<b>29771.9</b>	<b>50436.7</b>	<b>1.00</b>	<b>1.162</b>	<b>0.474</b>	<b>1.000</b>	<b>27761.5</b>



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Hills of Windso, Plat: , Lake City, FL,

PERMIT #:

### 6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 85.4**

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

Sunil Patel, Lot: 10, Sub: Hills of Windso, Plat: , Lake City, FL

<p>1. New construction or existing <span style="float: right;">New <input type="checkbox"/></span></p> <p>2. Single family or multi-family <span style="float: right;">Single family <input type="checkbox"/></span></p> <p>3. Number of units, if multi-family <span style="float: right;">1 <input type="checkbox"/></span></p> <p>4. Number of Bedrooms <span style="float: right;">5 <input type="checkbox"/></span></p> <p>5. Is this a worst case? <span style="float: right;">No <input type="checkbox"/></span></p> <p>6. Conditioned floor area (ft<sup>2</sup>) <span style="float: right;">5714 ft<sup>2</sup> <input type="checkbox"/></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) 526.6 ft<sup>2</sup> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. SHGC:</p> <p style="margin-left: 40px;">(or Clear or Tint DEFAULT) 7b. (Clear) 526.6 ft<sup>2</sup> <input type="checkbox"/></p> <p>8. Floor types</p> <p style="margin-left: 20px;">a. Slab-On-Grade Edge Insulation <span style="float: right;">R=0.0, 326.0(p) ft <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>9. Wall types</p> <p style="margin-left: 20px;">a. Frame, Wood, Exterior <span style="float: right;">R=13.0, 5260.0 ft<sup>2</sup> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. Frame, Wood, Adjacent <span style="float: right;">R=13.0, 520.0 ft<sup>2</sup> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">d. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">e. N/A <input type="checkbox"/></p> <p>10. Ceiling types</p> <p style="margin-left: 20px;">a. Under Attic <span style="float: right;">R=30.0, 3694.0 ft<sup>2</sup> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>11. Ducts</p> <p style="margin-left: 20px;">a. Sup: Unc. Ret: Unc. AH: Interior <span style="float: right;">Sup. R=6.0, 360.0 ft <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p>	<p>12. Cooling systems</p> <p style="margin-left: 20px;">a. Central Unit <span style="float: right;">Cap: 36.0 kBtu/hr <input type="checkbox"/></span></p> <p style="margin-left: 40px;">SEER: 13.00 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. Central Unit <span style="float: right;">Cap: 48.0 kBtu/hr <input type="checkbox"/></span></p> <p style="margin-left: 40px;">SEER: 13.00 <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>13. Heating systems</p> <p style="margin-left: 20px;">a. Electric Heat Pump <span style="float: right;">Cap: 36.0 kBtu/hr <input type="checkbox"/></span></p> <p style="margin-left: 40px;">HSPF: 7.20 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. Electric Heat Pump <span style="float: right;">Cap: 48.0 kBtu/hr <input type="checkbox"/></span></p> <p style="margin-left: 40px;">HSPF: 7.20 <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>14. Hot water systems</p> <p style="margin-left: 20px;">a. Electric Resistance <span style="float: right;">Cap: 50.0 gallons <input type="checkbox"/></span></p> <p style="margin-left: 40px;">EF: 0.92 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. Electric Resistance <span style="float: right;">Cap: 50.0 gallons <input type="checkbox"/></span></p> <p style="margin-left: 40px;">EF: 0.92 <input type="checkbox"/></p> <p style="margin-left: 20px;">c. Conservation credits <input type="checkbox"/></p> <p style="margin-left: 40px;">(HR-Heat recovery, Solar DHP-Dedicated heat pump)</p> <p>15. HVAC credits <input type="checkbox"/></p> <p style="margin-left: 20px;">(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)</p>
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I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



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

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCSB v4.0)

# Residential System Sizing Calculation

## Summary

Sunil Patel  
Lake City, Fl

Project Title:  
S, Patel Residence

Code Only  
Professional Version  
Climate: North

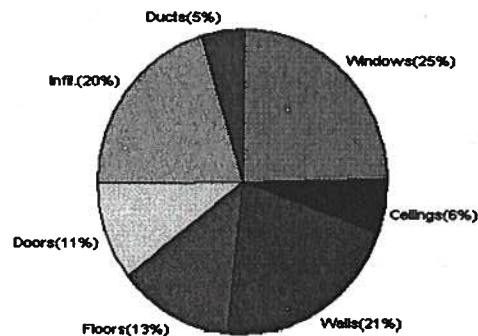
5/30/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
<b>Total heating load calculation</b>	<b>81170 Btuh</b>	<b>Total cooling load calculation</b>	<b>77999 Btuh</b>
Submitted heating capacity	84000 Btuh	Submitted cooling capacity	84000 Btuh
Submitted as % of calculated	103.5 %	Submitted as % of calculated	107.7 %

## WINTER CALCULATIONS

Winter Heating Load (for 5714 sqft)

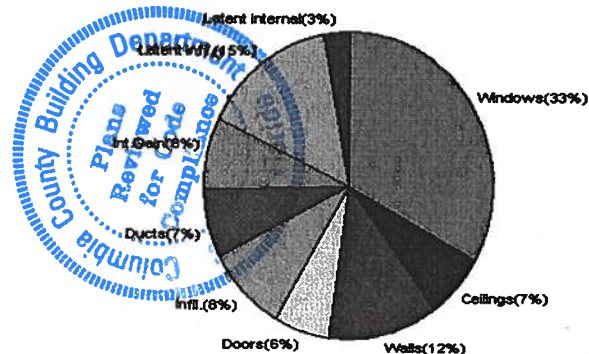
Load component		Load	
Window total	708 sqft	20032	Btuh
Wall total	5780 sqft	17138	Btuh
Door total	482 sqft	8656	Btuh
Ceiling total	3694 sqft	4802	Btuh
Floor total	326 ft	10302	Btuh
Infiltration	382 cfm	16375	Btuh
<b>Subtotal</b>		<b>77305</b>	<b>Btuh</b>
Duct loss		3865	Btuh
<b>TOTAL HEAT LOSS</b>		<b>81170</b>	<b>Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 5714 sqft)

Load component		Load	
Window total	708 sqft	25849	Btuh
Wall total	5780 sqft	9693	Btuh
Door total	482 sqft	4887	Btuh
Ceiling total	3694 sqft	5245	Btuh
Floor total		0	Btuh
Infiltration	334 cfm	6613	Btuh
Internal gain		6000	Btuh
<b>Subtotal(sensible)</b>		<b>58288</b>	<b>Btuh</b>
Duct gain		5829	Btuh
<b>Total sensible gain</b>		<b>64117</b>	<b>Btuh</b>
Latent gain(infiltration)		11583	Btuh
Latent gain(internal)		2300	Btuh
<b>Total latent gain</b>		<b>13883</b>	<b>Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>77999</b>	<b>Btuh</b>



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY:

DATE: 5-30-07

# System Sizing Calculations - Winter

## Residential Load - Component Details

Sunil Patel

Project Title:  
S, Patel Residence

Code Only  
Professional Version  
Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

5/30/2007

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	24.0	28.3	679 Btuh
2	2, Clear, Metal, DEF	E	24.0	28.3	679 Btuh
3	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
4	2, Clear, Metal, DEF	N	39.0	28.3	1104 Btuh
5	2, Clear, Metal, DEF	N	30.0	28.3	849 Btuh
6	2, Clear, Metal, DEF	N	15.0	28.3	424 Btuh
7	2, Clear, Metal, DEF	W	20.0	28.3	566 Btuh
8	2, Clear, Metal, DEF	W	36.0	28.3	1019 Btuh
9	2, Clear, Metal, DEF	S	36.0	28.3	1019 Btuh
10	2, Clear, Metal, DEF	S	16.0	28.3	453 Btuh
11	2, Clear, Metal, DEF	E	4.0	28.3	113 Btuh
12	2, Clear, Metal, DEF	E	32.5	28.3	920 Btuh
13	2, Clear, Metal, DEF	E	66.0	28.3	1868 Btuh
14	2, Clear, Metal, DEF	S	37.3	28.3	1057 Btuh
15	2, Clear, Metal, DEF	S	39.0	28.3	1104 Btuh
16	2, Clear, Metal, DEF	SE	104.0	28.3	2943 Btuh
17	2, Clear, Metal, DEF	S	60.0	28.3	1698 Btuh
18	2, Clear, Metal, DEF	S	12.0	28.3	340 Btuh
19	2, Clear, Metal, DEF	N	12.0	28.3	340 Btuh
20	2, Clear, Metal, DEF	S	33.0	28.3	934 Btuh
21	2, Clear, Metal, DEF	S	48.0	28.3	1358 Btuh
<b>Window Total</b>			<b>708</b>		<b>20032 Btuh</b>
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	5260	3.1	16306 Btuh
2	Frame - Adjacent	13.0	520	1.6	832 Btuh
<b>Wall Total</b>			<b>5780</b>		<b>17138 Btuh</b>
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		70	18.3	1283 Btuh
2	Insulated - Exter		80	18.3	1466 Btuh
3	Insulated - Exter		144	18.3	2640 Btuh
4	Insulated - Exter		72	18.3	1320 Btuh
5	Insulated - Exter		96	18.3	1760 Btuh
6	Insulated - Adjac		20	9.4	188 Btuh
<b>Door Total</b>			<b>482</b>		<b>8656Btuh</b>
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	3694	1.3	4802 Btuh
<b>Ceiling Total</b>			<b>3694</b>		<b>4802Btuh</b>
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	326.0 ft(p)	31.6	10302 Btuh
<b>Floor Total</b>			<b>326</b>		<b>10302 Btuh</b>



# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Sunil Patel  
Lake City, FL

Project Title:  
S, Patel Residence

Code Only  
Professional Version  
Climate: North

5/30/2007

Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	57140(sqft)	382	16375 Btuh
	Mechanical			0	0 Btuh
	<b>Infiltration Total</b>			<b>382</b>	<b>16375 Btuh</b>

<b>Totals for Heating</b>	<b>Subtotal</b>	<b>77305 Btuh</b>
	<b>Duct Loss(using duct multiplier of 0.05)</b>	<b>3865 Btuh</b>
	<b>Total Btuh Loss</b>	<b>81170 Btuh</b>

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

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

# System Sizing Calculations - Summer

## Residential Load - Component Details

Sunil Patel

Project Title:  
S, Patel Residence

Code Only  
Professional Version  
Climate: North

Lake City, FL

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

5/30/2007

Window	Type	Overhang	Window Area(sqft)			HTM		Load		
	Panes/SHGC/U/InSh/ExShOrnt		Len	Hgt	Gross	Shaded	Unshaded		Shaded	Unshaded
1	2, Clear, DEF, N, N	N	1.5	7	24.0	0.0	24.0	22	22	528 Btuh
2	2, Clear, DEF, N, N	E	1.5	7	24.0	1.0	23.0	22	72	1679 Btuh
3	2, Clear, DEF, N, N	N	1.5	6	20.0	0.0	20.0	22	22	440 Btuh
4	2, Clear, DEF, N, N	N	1.5	7	39.0	0.0	39.0	22	22	858 Btuh
5	2, Clear, DEF, N, N	N	1.5	6	30.0	0.0	30.0	22	22	660 Btuh
6	2, Clear, DEF, N, N	N	1.5	6	15.0	0.0	15.0	22	22	330 Btuh
7	2, Clear, DEF, N, N	W	1.5	6	20.0	1.0	19.0	22	72	1391 Btuh
8	2, Clear, DEF, N, N	W	1.5	7	36.0	0.7	35.3	22	72	2555 Btuh
9	2, Clear, DEF, N, N	S	1.5	7	36.0	36.0	0.0	22	37	792 Btuh
10	2, Clear, DEF, N, N	S	10	3	16.0	4.0	12.0	22	37	532 Btuh
11	2, Clear, DEF, N, N	E	10	3	4.0	4.0	0.0	22	72	88 Btuh
12	2, Clear, DEF, N, N	E	1.5	16	32.5	0.0	32.5	22	72	2340 Btuh
13	2, Clear, DEF, N, N	E	1.5	6	66.0	4.5	61.5	22	72	4528 Btuh
14	2, Clear, DEF, N, N	S	1.5	5	37.3	37.3	0.0	22	37	821 Btuh
15	2, Clear, DEF, N, N	S	1.5	7	39.0	19.5	19.5	22	37	1150 Btuh
16	2, Clear, DEF, N, N	SE	10	9	104.0	104.0	0.0	22	62	2288 Btuh
17	2, Clear, DEF, N, N	S	10	12	60.0	30.0	30.0	22	37	1770 Btuh
18	2, Clear, DEF, N, N	S	10	3	12.0	12.0	0.0	22	37	264 Btuh
19	2, Clear, DEF, N, N	N	1.5	7	12.0	0.0	12.0	22	22	264 Btuh
20	2, Clear, DEF, N, N	S	1.5	6	33.0	16.5	16.5	22	37	974 Btuh
21	2, Clear, DEF, N, N	S	1.5	5	48.0	12.0	36.0	22	37	1596 Btuh
<b>Window Total</b>					708					<b>25849 Btuh</b>
<b>Walls</b>	Type	R-Value		Area		HTM		Load		
1	Frame - Exterior	13.0		5260.0		1.7		9152 Btuh		
2	Frame - Adjacent	13.0		520.0		1.0		541 Btuh		
<b>Wall Total</b>				5780.0				<b>9693 Btuh</b>		
<b>Doors</b>	Type	R-Value		Area		HTM		Load		
1	Insulated - Exter			70.0		10.1		710 Btuh		
2	Insulated - Exter			80.0		10.1		811 Btuh		
3	Insulated - Exter			144.0		10.1		1460 Btuh		
4	Insulated - Exter			72.0		10.1		730 Btuh		
5	Insulated - Exter			96.0		10.1		973 Btuh		
6	Insulated - Adjac			20.0		10.1		203 Btuh		
<b>Door Total</b>				482.0				<b>4887 Btuh</b>		
<b>Ceilings</b>	Type/Color	R-Value		Area		HTM		Load		
1	Under Attic/Dark	30.0		3694.0		1.4		5245 Btuh		
<b>Ceiling Total</b>				3694.0				<b>5245 Btuh</b>		
<b>Floors</b>	Type	R-Value		Size		HTM		Load		
1	Slab-On-Grade Edge Insulation	0.0		326.0 ft(p)		0.0		0 Btuh		
<b>Floor Total</b>				326.0				<b>0 Btuh</b>		

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Sunil Patel  
Lake City, FL

Project Title:  
S, Patel Residence

Code Only  
Professional Version  
Climate: North

5/30/2007

Infiltration	Type	ACH	Volume	CFM=	Load
	Natural	0.35	57140	334.0	6613 Btuh
	Mechanical			0	0 Btuh
	<b>Infiltration Total</b>			<b>334</b>	<b>6613 Btuh</b>

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	10	X 300 +	3000	6000 Btuh

<b>Totals for Cooling</b>	<b>Subtotal</b>	<b>58288 Btuh</b>
	<b>Duct gain(using duct multiplier of 0.10)</b>	<b>5829 Btuh</b>
	<b>Total sensible gain</b>	<b>64117 Btuh</b>
	<b>Latent infiltration gain (for 51 gr. humidity difference)</b>	<b>11583 Btuh</b>
	<b>Latent occupant gain (10 people @ 230 Btuh per person)</b>	<b>2300 Btuh</b>
	<b>Latent other gain</b>	<b>0 Btuh</b>
	<b>TOTAL GAIN</b>	<b>77999 Btuh</b>

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)  
 (U - Window U-Factor or 'DEF' for default)  
 (InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))  
 (ExSh - Exterior shading device: none(N) or numerical value)  
 (Ornt - compass orientation)

# 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:1T7J8228Z0221160307

**Truss Fabricator:** Anderson Truss Company  
**Job Identification:** 7-101R--Isaac Construction SUNIL PATEL RES. -- , \*\*  
**Truss Count:** 111  
**Model Code:** Florida Building Code 2004 and 2006 Supplement  
**Truss Criteria:** ANSI/TPI-2002(STD)/FBC  
**Engineering Software:** Alpine Software, Versions 7.36, 7.31, 7.24.  
**Structural Engineer of Record:** The identity of the structural EOR did not exist as of the seal date per section 61G15-31.003(5a) of the FAC  
**Address:**  
**Minimum Design Loads:** Roof - 55.0 PSF @ 1.25 Duration  
 Floor - N/A  
 Wind - 110 MPH ASCE 7-02 -Closed



Seal Date: 05/21/2007

**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-

Arthur R. Fisher

Florida License Number: 59687

1950 Marley Drive

Haines City, FL 33844

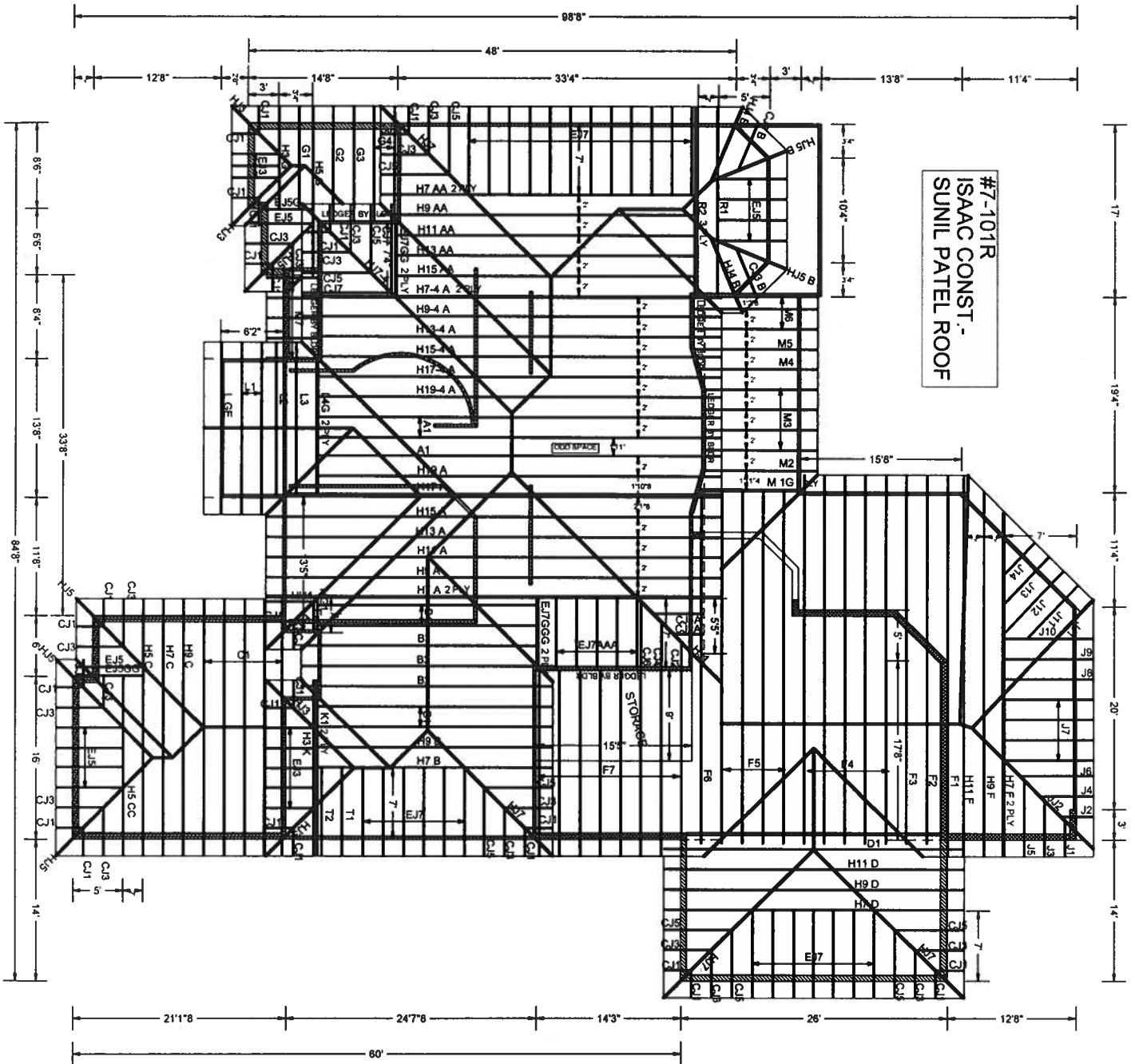
Details: BRCLBSUB-A11030EE-GBLLETIN-CNBRGBLK-

#	Ref	Description	Drawing#	Date
1	40035--H9-4 A		07141093	05/21/07
2	40036--H13-4 A		07141094	05/21/07
3	40037--H15-4 A		07141095	05/21/07
4	40038--H17-4 A		07141096	05/21/07
5	40039--H19-4 A		07141106	05/21/07
6	40040--A1		07141098	05/21/07
7	40041--H19 A		07141103	05/21/07
8	40042--H9 AA		07141007	05/21/07
9	40043--H11 AA		07141008	05/21/07
10	40044--H13 AA		07141009	05/21/07
11	40045--H15 AA		07141010	05/21/07
12	40046--H7 AA		07141006	05/21/07
13	40047--H7-4 A		07141097	05/21/07
14	40048--CJ4A		07141019	05/21/07
15	40049--H17 A		07141020	05/21/07
16	40050--H15 A		07141053	05/21/07
17	40051--H13 A		07141061	05/21/07
18	40052--H11 A		07141090	05/21/07
19	40053--H9 A		07141088	05/21/07
20	40055--H9 B		07141075	05/21/07
21	40056--B1		07141077	05/21/07
22	40057--B2		07141105	05/21/07
23	40058--B3		07141078	05/21/07
24	40059--B4		07141102	05/21/07
25	40060--H7 B		07141074	05/21/07
26	40061--H7 C		07141027	05/21/07
27	40062--H9 C		07141038	05/21/07
28	40063--C1		07141048	05/21/07
29	40064--H5 C		07141001	05/21/07
30	40065--H5 CC		07141002	05/21/07
31	40066--H9 D		07141012	05/21/07
32	40067--H11 D		07141021	05/21/07
33	40068--D1		07141022	05/21/07
34	40069--H7 D		07141059	05/21/07
35	40070--H9 F		07141028	05/21/07
36	40071--H11 F		07141029	05/21/07
37	40072--F1		07141030	05/21/07
38	40073--F2		07141047	05/21/07

#	Ref	Description	Drawing#	Date
39	40074--F3		07141037	05/21/07
40	40075--F4		07141039	05/21/07
41	40076--F5		07141043	05/21/07
42	40077--F6		07141045	05/21/07
43	40078--H7 F		07141044	05/21/07
44	40079--F7		07141081	05/21/07
45	40080--G1		07141066	05/21/07
46	40081--G2		07141062	05/21/07
47	40082--G3		07141063	05/21/07
48	40083--G4		07141064	05/21/07
49	40084--H5 G		07141056	05/21/07
50	40085--H3 G		07141065	05/21/07
51	40086--EJ5G		07141067	05/21/07
52	40087--EJ7GG		07141092	05/21/07
53	40088--EJ7GG		07141004	05/21/07
54	40089--EJ5		07141020	05/21/07
55	40090--HJ5 B		07141014	05/21/07
56	40091--HJ4 B		07141013	05/21/07
57	40092--CJ3 B		07141018	05/21/07
58	40093--EJ7		07141084	05/21/07
59	40094--CJ5		07141082	05/21/07
60	40095--HJ7		07141080	05/21/07
61	40096--HJ7-4		07141001	05/21/07
62	40097--CJ3		07141083	05/21/07
63	40098--CJ1		07141069	05/21/07
64	40099--HJ3		07141068	05/21/07
65	40100--CJ7		07141003	05/21/07
66	40101--EJ3		07141071	05/21/07
67	40102--HJ5		07141070	05/21/07
68	40103--EJ5GG		07141101	05/21/07
69	40104--CJ2		07141017	05/21/07
70	40105--CJ4		07141016	05/21/07
71	40106--CJ6		07141015	05/21/07
72	40107--CJ2A		07141011	05/21/07
73	40108--EJ7AAA		07141079	05/21/07
74	40109--T1		07141086	05/21/07
75	40110--T2		07141085	05/21/07
76	40111--J7		07141042	05/21/07

#	Ref	Description	Drawing#	Date
77	40112--J8		07141040	05/21/07
78	40113--J9		07141041	05/21/07
79	40114--JJ1		07141002	05/21/07
80	40115--J10		07141046	05/21/07
81	40116--J11		07141049	05/21/07
82	40117--J12		07141050	05/21/07
83	40118--J13		07141051	05/21/07
84	40119--J14		07141052	05/21/07
85	40120--J5		07141032	05/21/07
86	40121--JJ2		07141031	05/21/07
87	40122--J3		07141033	05/21/07
88	40123--J1		07141034	05/21/07
89	40124--J2		07141026	05/21/07
90	40125--J4		07141036	05/21/07
91	40126--J6		07141035	05/21/07
92	40127--EJ3A		07141104	05/21/07
93	40128--HJ1		07141099	05/21/07
94	40129--K1		07141073	05/21/07
95	40130--H3 K		07141072	05/21/07
96	40131--L1		07141087	05/21/07
97	40132--L2		07141089	05/21/07
98	40133--L GE		07141076	05/21/07
99	40134--L3		07141023	05/21/07
100	40135--L4G		07141003	05/21/07
101	40136--M 1G		07141025	05/21/07
102	40137--M2		07141055	05/21/07
103	40138--M3		07141060	05/21/07
104	40139--M4		07141057	05/21/07
105	40140--M5		07141054	05/21/07
106	40141--M6		07141058	05/21/07
107	40142--M7		07141091	05/21/07
108	40143--HH1		07141024	05/21/07
109	40144--MG1		07141100	05/21/07
110	40145--R2		07141005	05/21/07
111	40146--R1		07141107	05/21/07





#7-101R  
 ISAAC CONST.  
 SUNIL PATEL ROOF

JOB DESCRIPTION: Isaac Construction  
 /: SUNIL PATEL RES.

JOB NO:

7-101R

PAGE NO:

1 OF 1

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

Wind reactions based on MWFRS pressures.

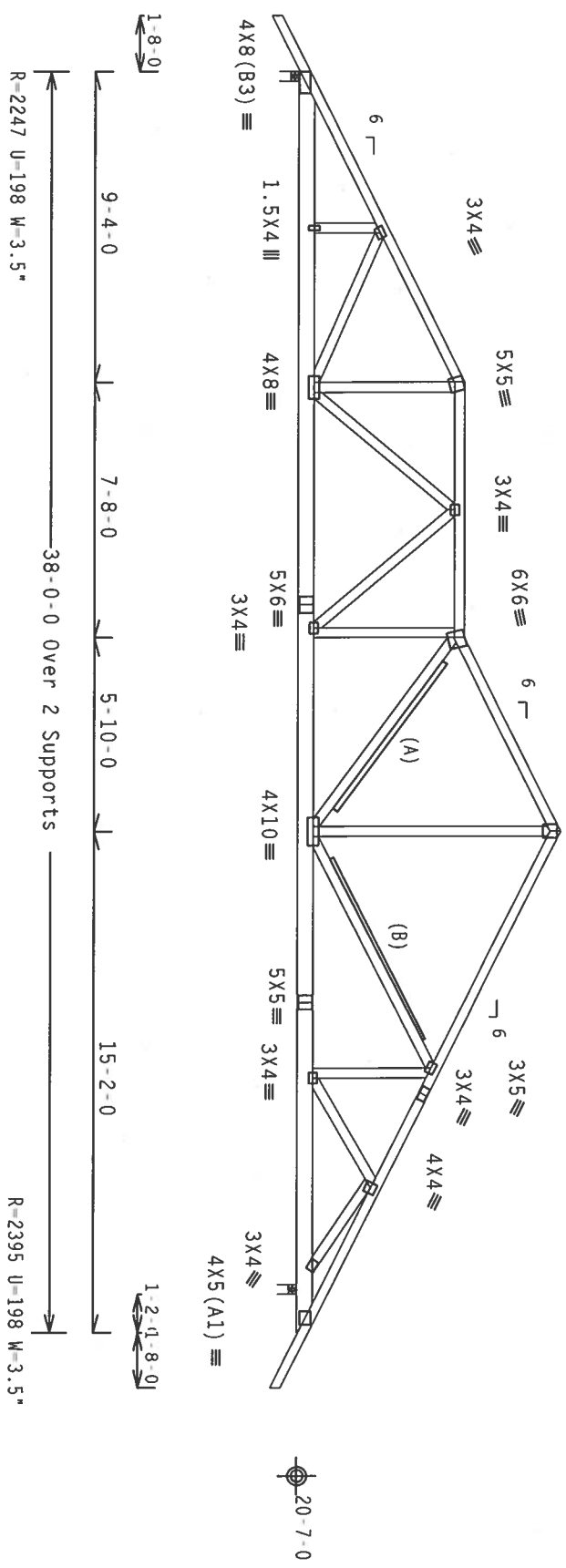
(A) 2x6 #3 or better "T" brace, 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

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

110 mph wind, 24.31 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. IW=1.00 Gcp1(+/-)=0.18

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

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



PLT TYP. Wave

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

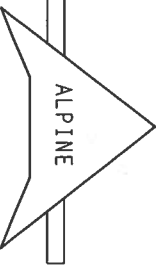
7.36

FL/-/4/-/R/-

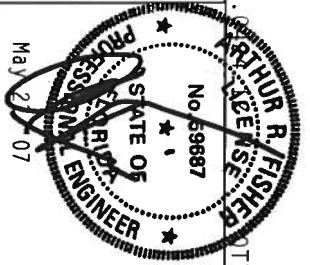
Scale = .1875"/ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (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. BY AFRPA AND TPI. DESIGN COMMENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFRPA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/S) ASTM A653 GRADE 40/80 (W, K/H/SS) GALV. STEEL. APPLY GALVANNEALING TO ALL EXPOSED SURFACES. LOCATED ON THIS DESIGN, POSITION PER DRAWINGS OF 60A-Z. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE SPECIFIED. THIS DESIGN IS THE PROPERTY OF ITW BCG. NO PART OF THIS DESIGN, DRAWING OR SPECIFICATION IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ITW BCG. 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  
File Certificate of Registration # 527



TC LL	30.0 PSF	REF	R8228- 40035
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141093
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24792
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T738228202

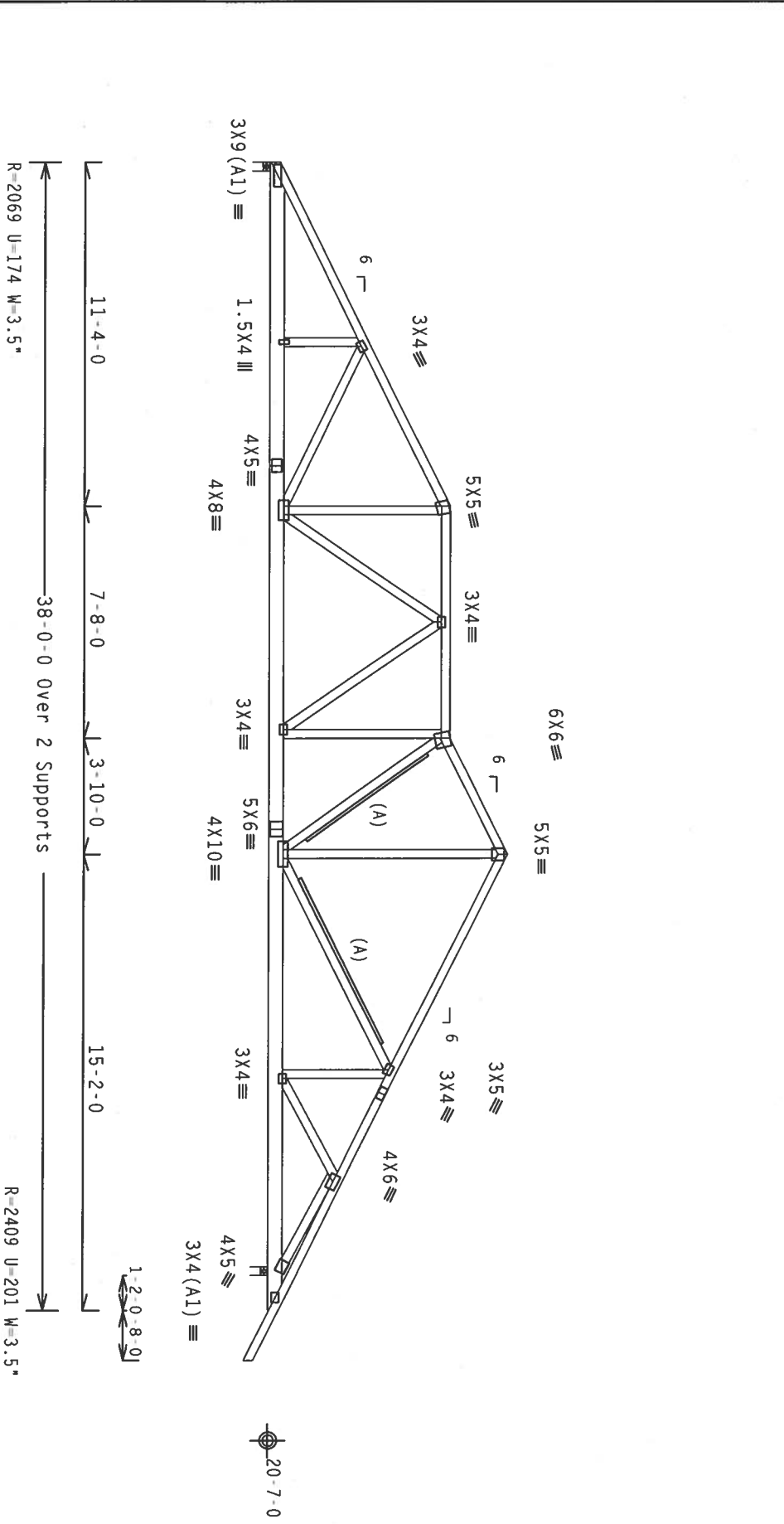


Top chord 2x4 SP #2 Dense  
 Bot chord 2x6 SP #2  
 Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

110 mph wind, 24.31 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT I, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. IW=1.00 GCFI(+/-)=0.18  
 (A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD) /FBC

Cq/RT=1.00 (1.25)/10(0) 7.36-0

FL/-/4/-/R/-

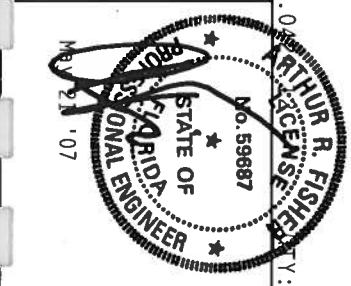
Scale = .1875" /ft.

**ALPINE**

**TW Building Components Group, Inc.**  
 Gaines City, FL 33844  
 Phone: 813-333-3333  
 Fax: 813-333-3333  
 Website: www.alpinebuilding.com

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY AND INSTALLATION GUIDELINES PUBLISHED BY THE MANUFACTURER. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND WICK ROAD, TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48219 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITR BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE OF TRUSS IN COMPLIANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITR BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEA) AND TPI. ITR BCG CONNECTION PLATES ARE MADE OF 20/18/15GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W. R/H. SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED BY (1) SHALL BE PERMANENT AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



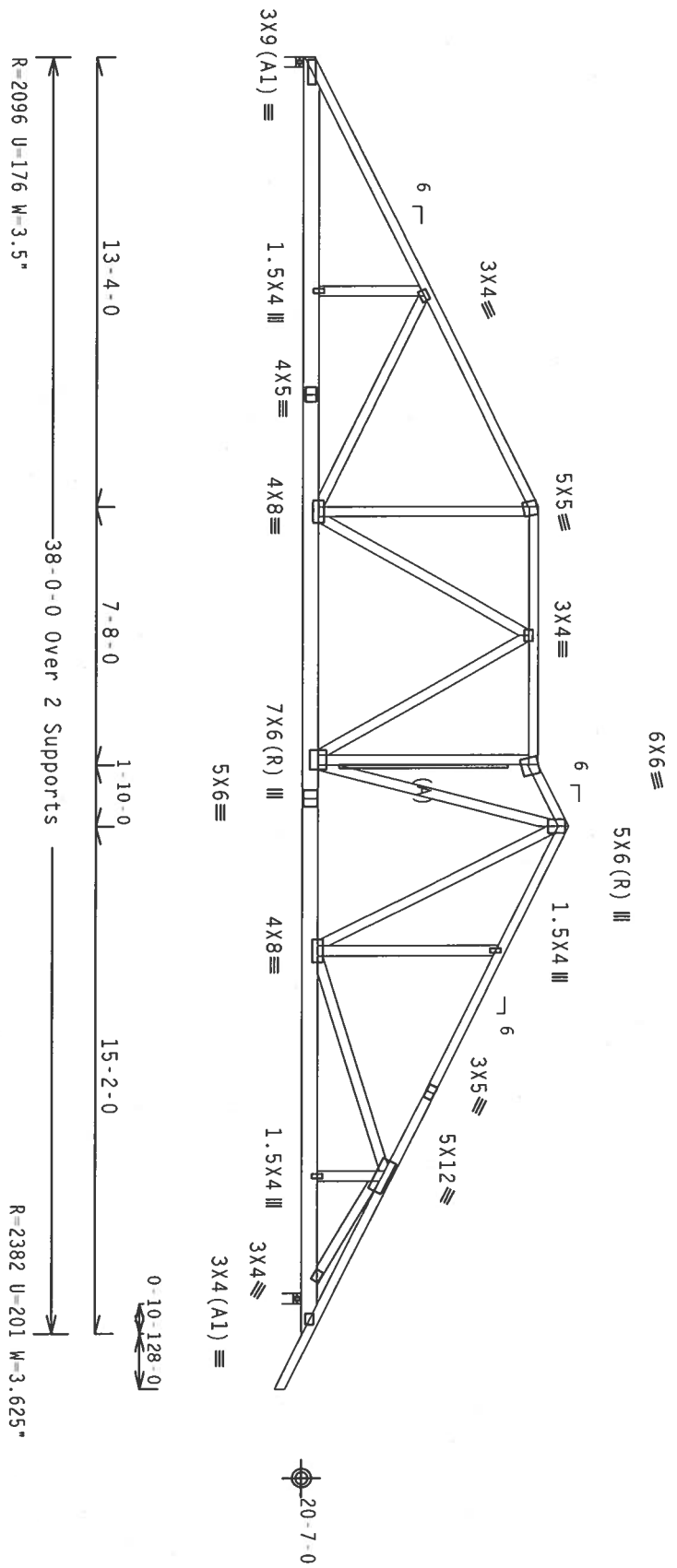
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BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	24796
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	177J8228Z02

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 24.31 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCFI (+/-)=0.18  
 (A) 1x4 #3 or better "T" brace, 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

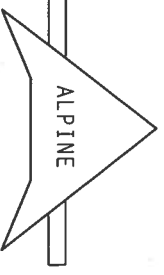
7.36.0

FL/-/4/-/1/R/-

Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCCA (WOOD TRUSS COUNCIL OF AMERICA, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY A/R/P/A AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF BCS (NATIONAL DESIGN SPEC. BY A/R/P/A AND TPI. ITW BCG TRUSSES AND 2018/1605 (4/15/18) ASH ASS GRAD 40/60 (4/15/18) G40, STEEL, APPLY TO EACH FACE OF TRUSS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEA 43 OF TPI-2002 SEC.1. DRAWING OR WHAT 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.  
 Gainesville, FL 33844  
 PL Certificate of Authorization # 527



TC LL	30.0 PSF	REF	R8228-40037
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141095
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	24807
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T7J8228Z02

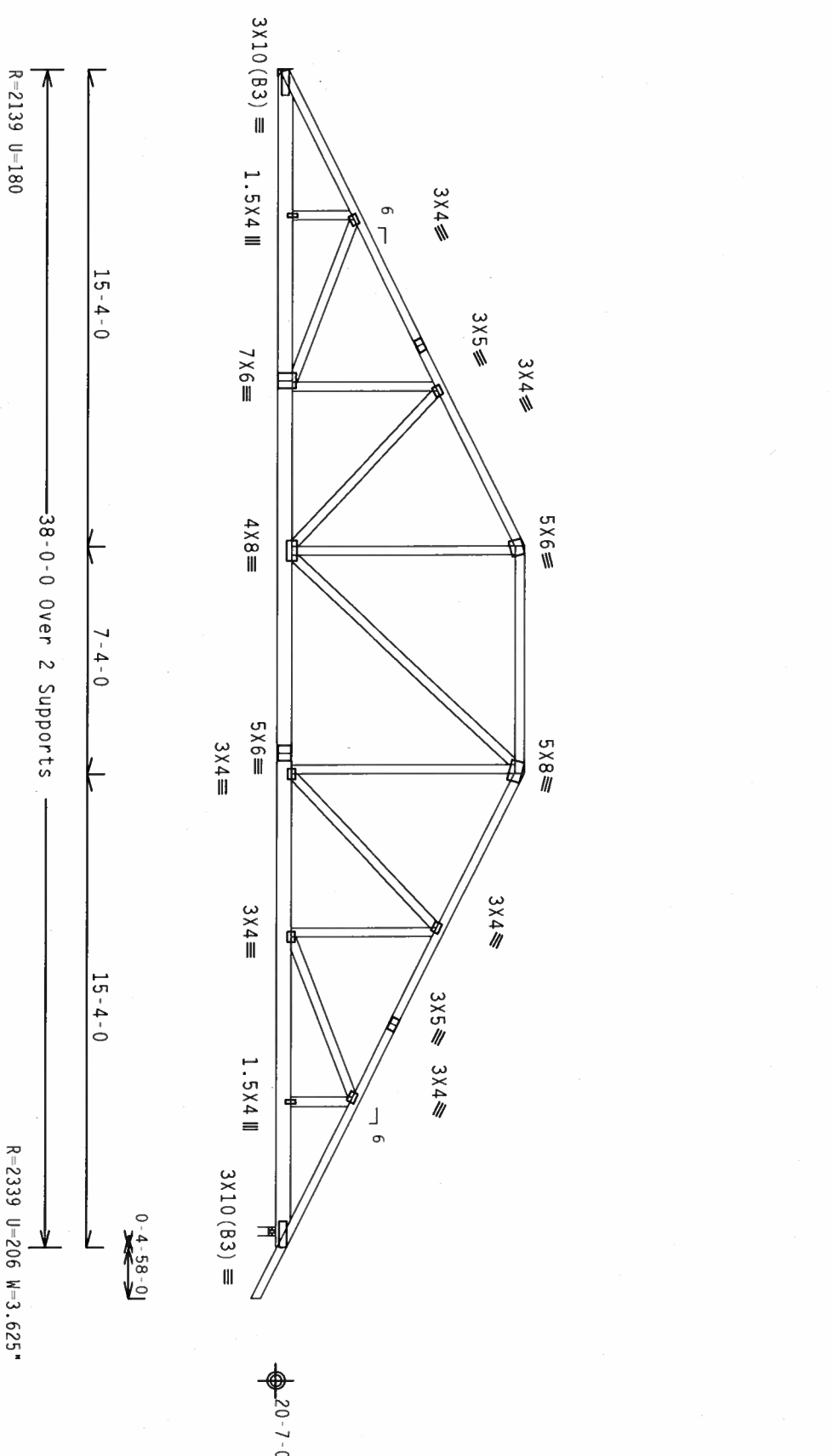


Top chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #2  
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

110 mph wind, 24.35 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. IW=1.00 GCPI(+/-)=0.18  
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



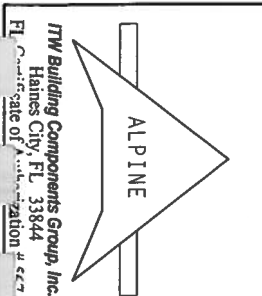
PLT TYP. Wave

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

QUANTITY: 1

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

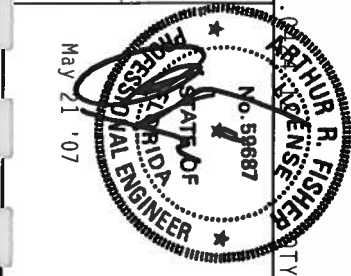
Scale = .1875"/ft.



**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 427

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSEI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND NCA (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. BY AFRPA) AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFRPA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/A) ASTM A653 GRADE 40/50 (W/ K/M/SS) GALV. STEEL. ITW BCG PLATES EACH OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. 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.



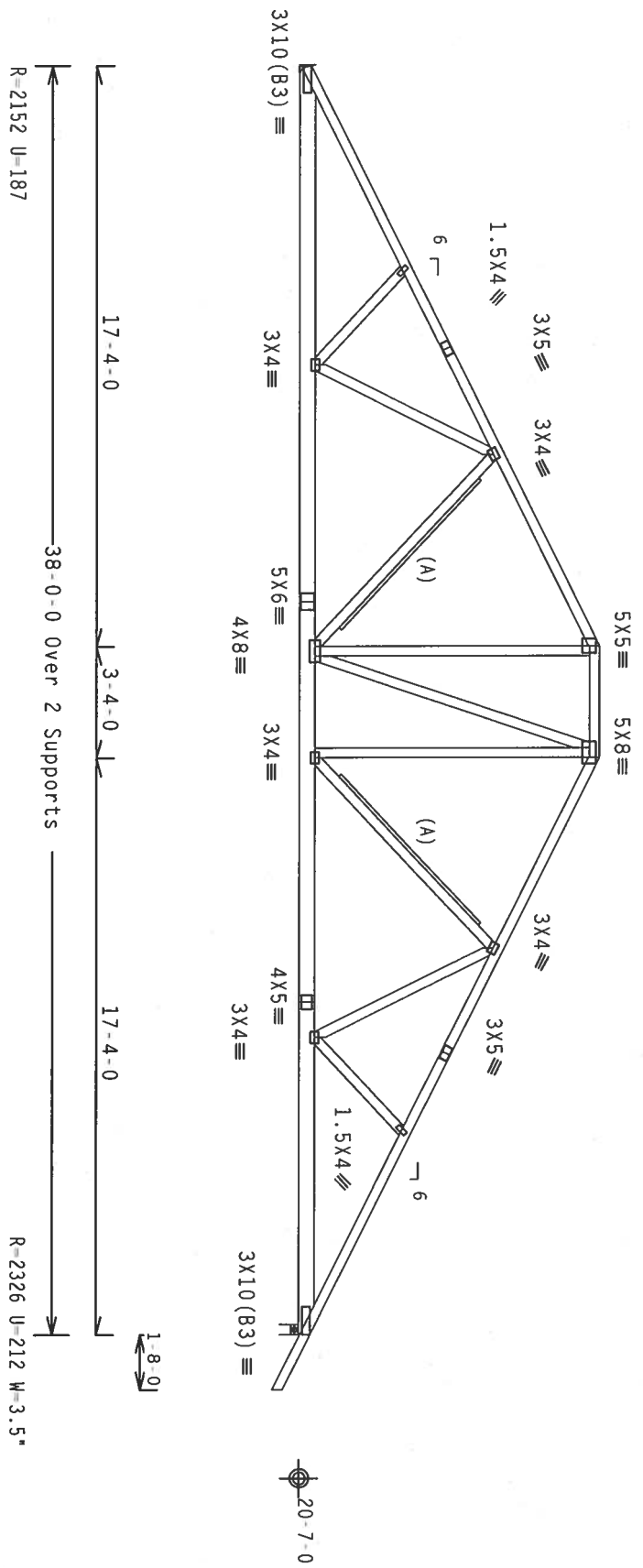
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TOT. LD.	55.0 PSF	SEQN-	24813
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T7J8228Z02

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 24.85 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{CPI}(+/-)=0.18$   
 (A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

7.36.04

FL/-/4/-/1/R/-

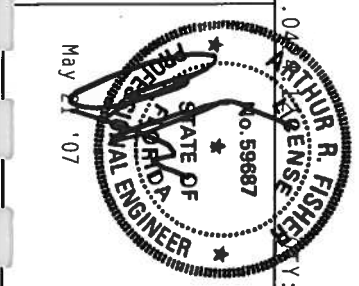
Scale = .1875"/ft.

**ALPINE**

**TW Building Components Group, Inc.**  
 Haines City, FL 33844  
 FL State of Authorization # 4527

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSD (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (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. TWP BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S) ASTM A653 GRADE 40/50 (W. K/R, SSI GALV. STEEL. APPLY PLATES TO EACH SIDE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z, AND 160B. EACH OF THESE TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z, AND 160B. THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



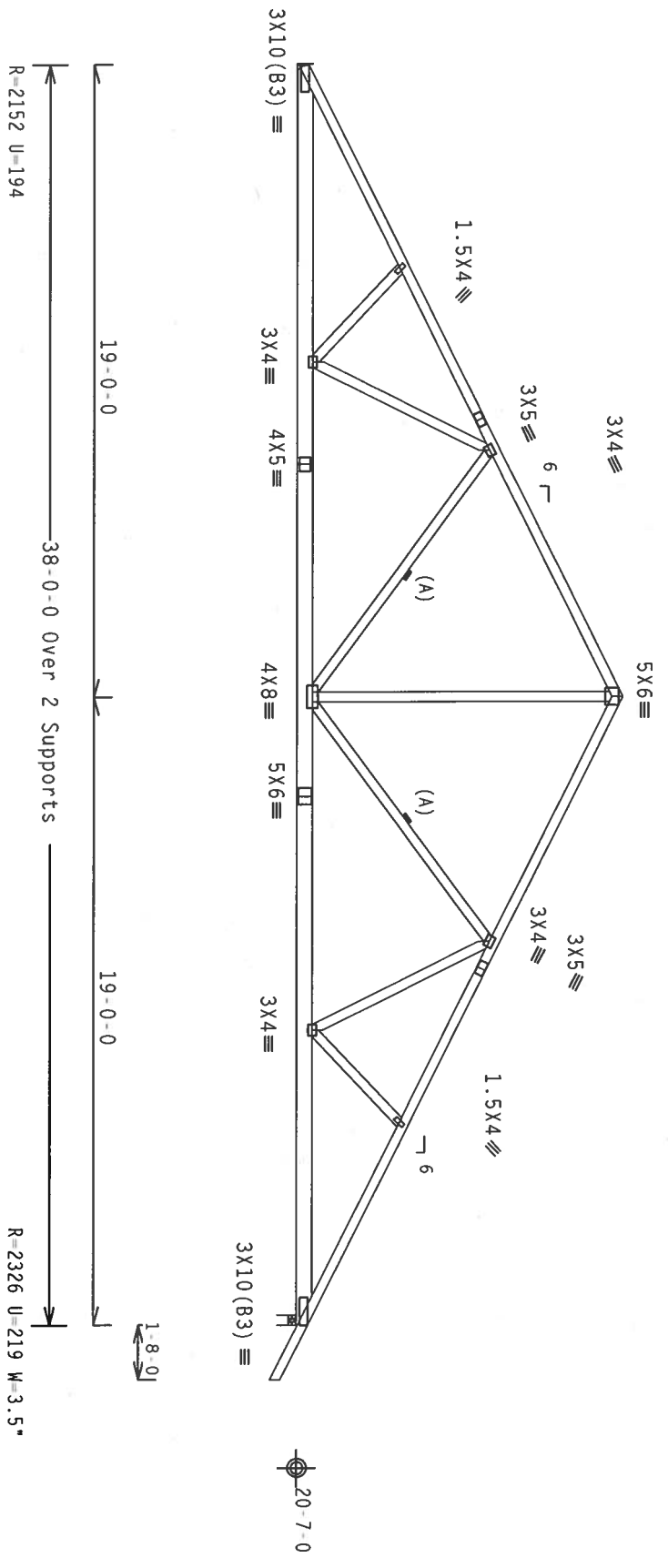
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BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	24820
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T7J8228Z02

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

Wind reactions based on MWFRS pressures.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 25.26 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18

(A) Continuous lateral bracing equally spaced on member.



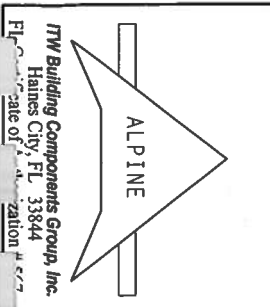
PLT TYP. Wave

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

7.36.0

FL/-/4/-/R/-

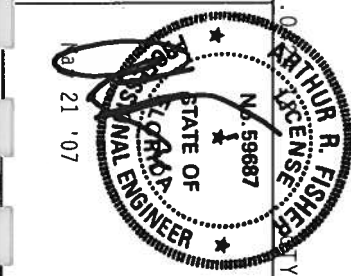
Scale = .1875"/ft.



**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCCA (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 AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/S) ASTM A653 GRAD. 40/50 (W. K/M/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002, SEC. 3. FOR THE TRUSS COMPONENT DRAWING. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS1/TPI 1 SEC. 2.



TC LL	30.0 PSF	REF	R8228- 40040
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUR8228 07141098
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24829
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T738228Z02

TW Building Components Group, Inc.  
 Haines City, FL 33844  
 Phone: 888-333-3333  
 Fax: 888-333-3333

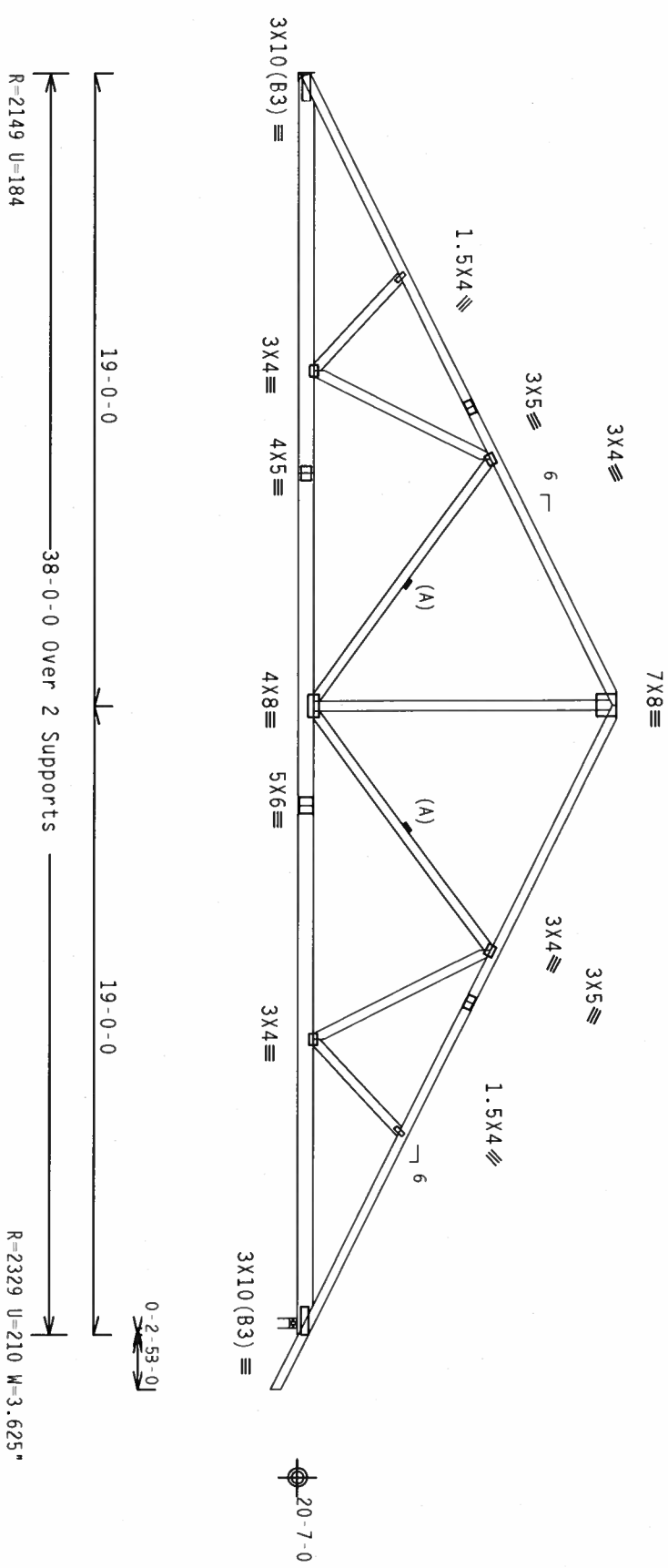
Top Chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #2  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

110 mph wind, 25.16 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18

(A) Continuous lateral bracing equally spaced on member.



PLT TYP. Wave

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

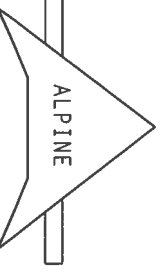
QTY: 1

FL/-/4/-/R/-

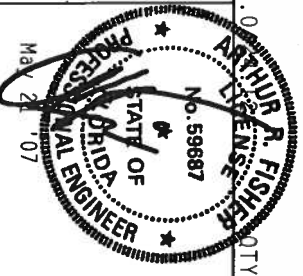
Scale = .1875"/ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 212, ALEXANDRIA, VA, 22304) AND NCA (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. TWP BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/TS) ASTM A653 GRADE 40/50 (W, K/M, SS) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERMITTED AS OF TPI 11, 2002 SEC. 3. A SEAL ON THIS DESIGN SHOWS THAT THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TWP Building Components Group, Inc.  
Haines City, FL 33844  
FL State of Registration # 557



TC LL	30.0 PSF	REF	R8228-40041
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCU8R8228 07141103
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24837
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T738228202

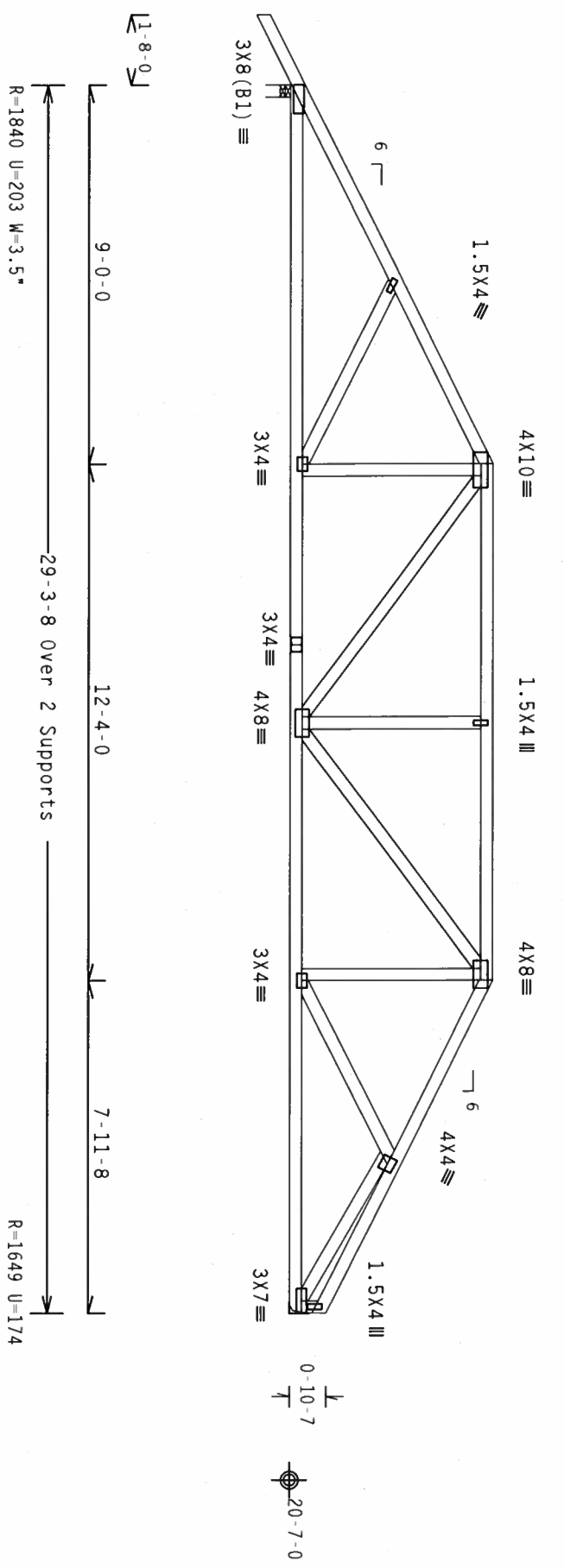
Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

110 mph wind, 22.76 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cp}(+/-)=0.18$

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



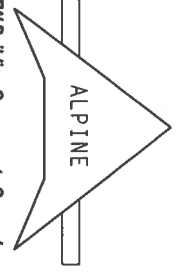
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.36-04

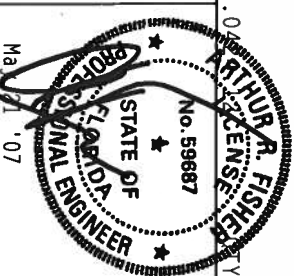
Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSD (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND NCA (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. TITW 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 CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASA AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/R) ASTM A653 GRADE 40/60 (N. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PERFORMED AS OBSERVATION FOR THE TRUSS COMPONENT. MAKE REVISIONS TO THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TW Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Authorization # 527



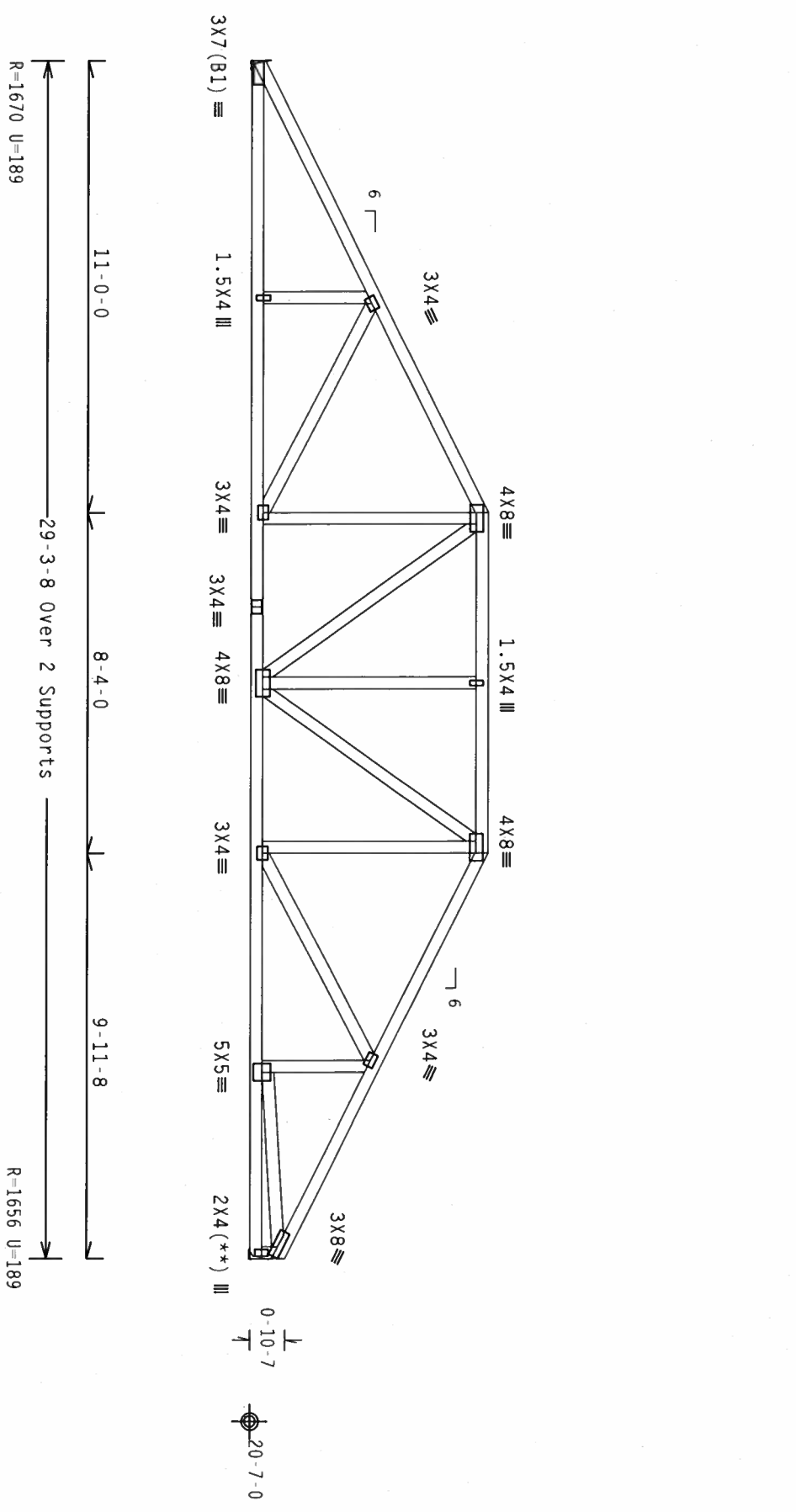
FL	/-/-/	/R/-	FL	/-/-/	/R/-
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TC DL	15.0	PSF	DATE	05/21/07	
BC DL	10.0	PSF	DRW	HCSUR8228	07141007
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT. LD.	55.0	PSF	SEQN-	24889	
DUR. FAC.	1.25		FROM	JFB	
SPACING	24.0"		UREF-	1T7J8228Z02	

( 7 101R Isaac Construction SUNIL PATEL RES. , \*\* H11 AA )  
 Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

(\*\*) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.  
 110 mph wind, 23.68 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{CPI}(+/-)=0.18$   
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

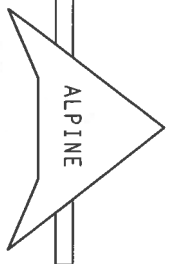
QTY: 1

FL/-/4/-/18/-

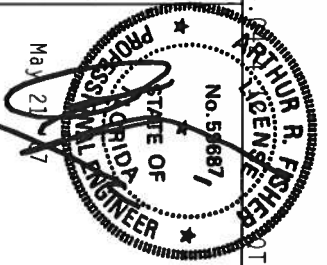
Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSD (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. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY A/R/P/A AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY A/R/P/A AND TPI. CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/S/S/V) ASTM A653 GRADE 40/50 (W. K/M, SSI GALV. STEEL. APPLY ANY INCREASED OR REDUCED DESIGN STRESS AS NOTED ON THIS DESIGN. POSITION PER DRAWINGS 160A, Z. ANY INSPECTION OF PLATES FOR GUNDS BY THE SHIPPER BE FORWARDED TO TPI. TPI SHALL CONDUCT THIS DRAWING. INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITM Building Components Group, Inc.  
 Gaines City, FL 33844  
 Phone: 813-381-1111  
 Fax: 813-381-1112



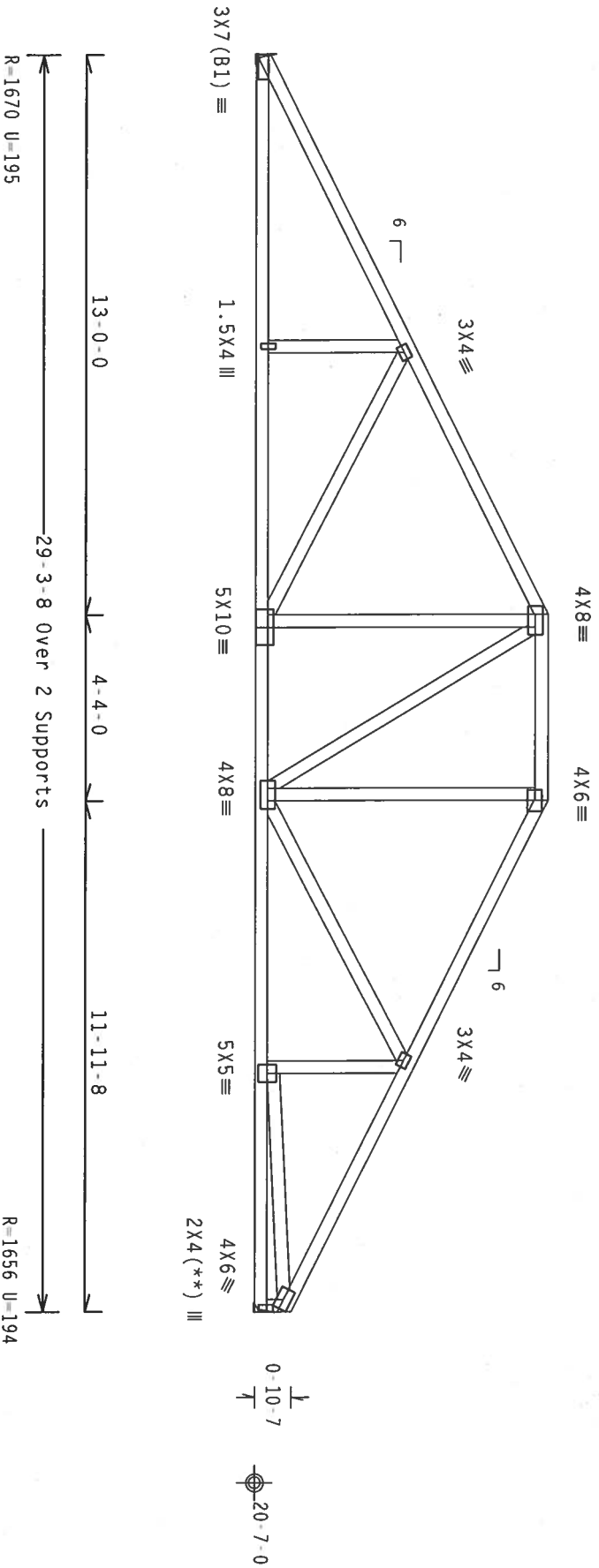
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141008
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24910
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

110 mph wind, 24.18 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCP(+/-)=0.18$

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



PLT TYP. Wave

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

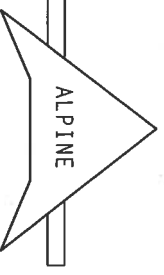
7.36.0

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

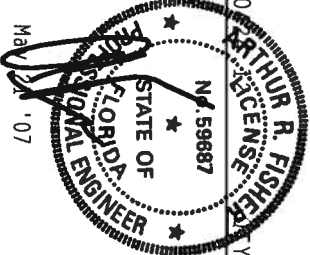
Scale = .25"/ft.

**\*\*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, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (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 TO THE 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. DESIGNATION PLATES MADE FOR 20/18/1604 (W/HS/AS) ASH/ASS GRADE 40/60 (W/ KPI, SS GALV, STEEL, APPLY TO THE TRUSS DESIGNATION PER DRAWING 1604/2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY A PROFESSIONAL SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 527



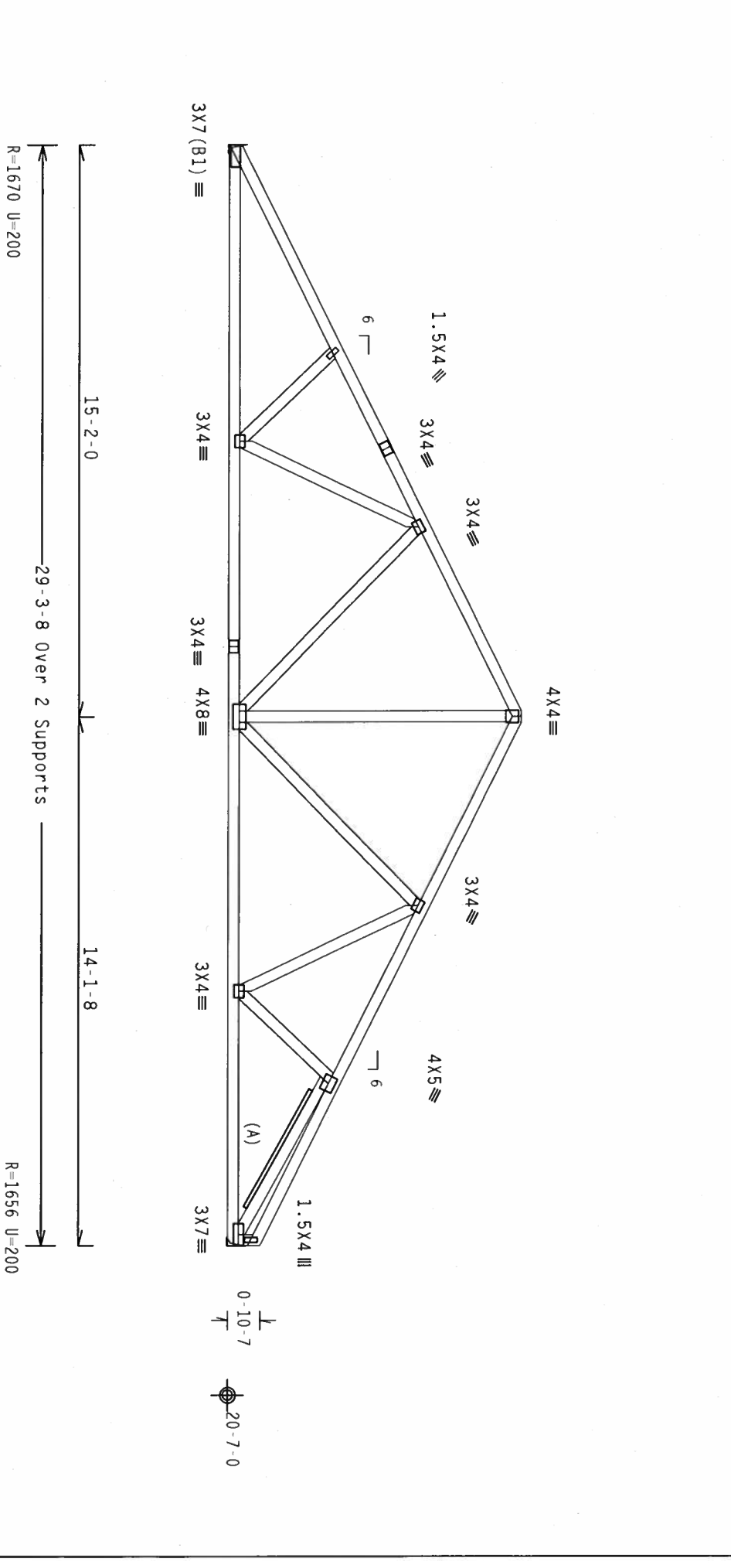
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141009
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	24920
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T7J8228Z02

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

Wind reactions based on MWFRS pressures.

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

110 mph wind, 24.68 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. IW=1.00 GCPI(+/-)=0.18  
 (A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.



PLT TYP. Wave

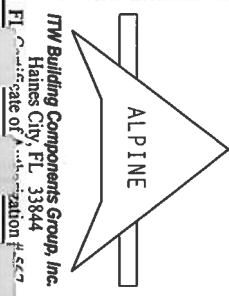
Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0)

ARTHUR R. FISHER  
 No. 59887  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 MARCH 21 2007

FL/-/4/-/18/-

Scale = .25"/ft.

TC LL	30.0 PSF	REF	R8228-40045
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCSUR8228 07141010
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	24935
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228202



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

**\*\*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, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WCA (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 COR PLATES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ARBP) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/R) ASTM A653 GRADE 40/50 (W. K/M, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. PLATES SHALL BE PER ANNEAL 29 OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Top Chord 2x6 SP #2 : TI 2x4 SP #2 Dense:  
 Bot Chord 2x8 SP #1 Dense  
 Webs 2x4 SP #3

110 mph wind, 22.26 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCFI(+/-)=0.18$

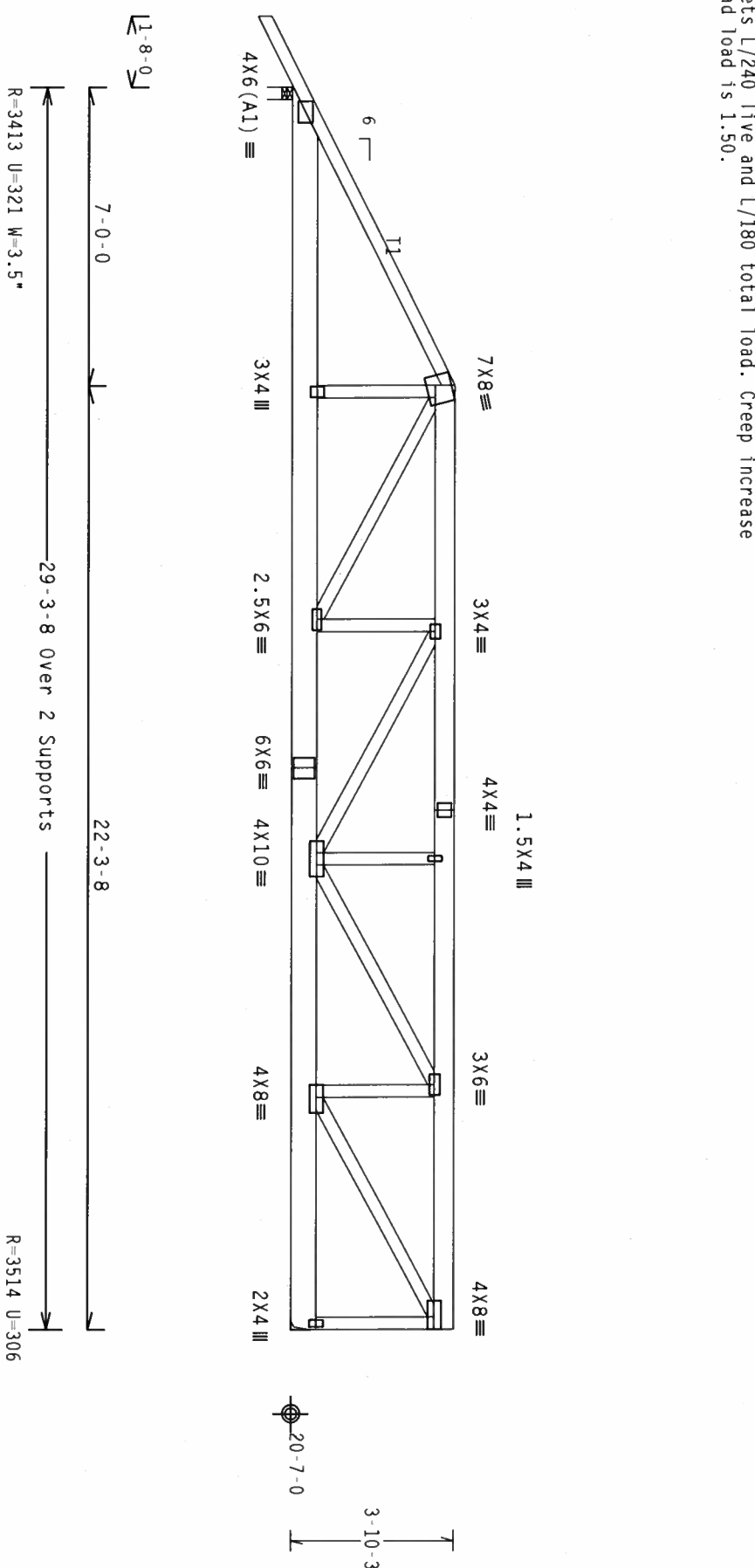
Wind reactions based on MMFRS pressures.  
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

## 2 COMPLETE TRUSSES REQUIRED

Nailling Schedule: (12d Common @ 0.148"x3.25", min.)\_naills)  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 1 Row @12.00" o.c.  
 Webs : 1 Row @ 4" o.c.  
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Right end vertical not exposed to wind pressure.  
 #1 hip supports 7-0-0 jacks with no webs.

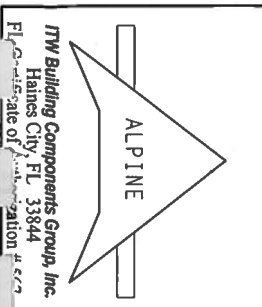


PLT TYP. Wave

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

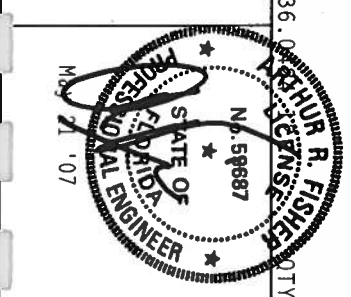
FL/-/4/-/1/-/R/-

Scale = .25"/ft.



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE MANUFACTURER'S INSTRUCTIONS FOR THE TRUSSES. THE TRUSSES ARE TO BE USED IN CONJUNCTION WITH THE ROOFING SYSTEM AND BRASS OR STEEL COLLARS OF AMERICA, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND WICK HOPKINS BRASS COMPANY OF AMERICA, ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO REFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TIV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING THE TRUSSES, BY AFAPA AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA AND TPI. TIV BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/S) ASTM A653 GRADE 40/60 (W, K/H, SSI GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF 7/11/2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	30.0 PSF	REF	R8228-40046
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HGUSR8228 07141006
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24976
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

Top Chord 2x4 SP #2 Dense : T2 2x6 SP #2:  
 Bot Chord 2x8 SP #1 Dense  
 Webs 2x4 SP #3

**2 COMPLETE TRUSSES REQUIRED**

Nailing Schedule: (12d Common (0.148"x3.25", min.)\_nails)  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 1 Row @12.00" o.c.  
 Webs : 1 Row @ 4" o.c.  
 Use equal spacing between rows and stagger nails  
 in each row to avoid splitting.

110 mph wind, 24.31 ft mean hgt, ASCE 7-02, CLOSED bldg, not located  
 within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind  
 BC DL=5.0 psf.

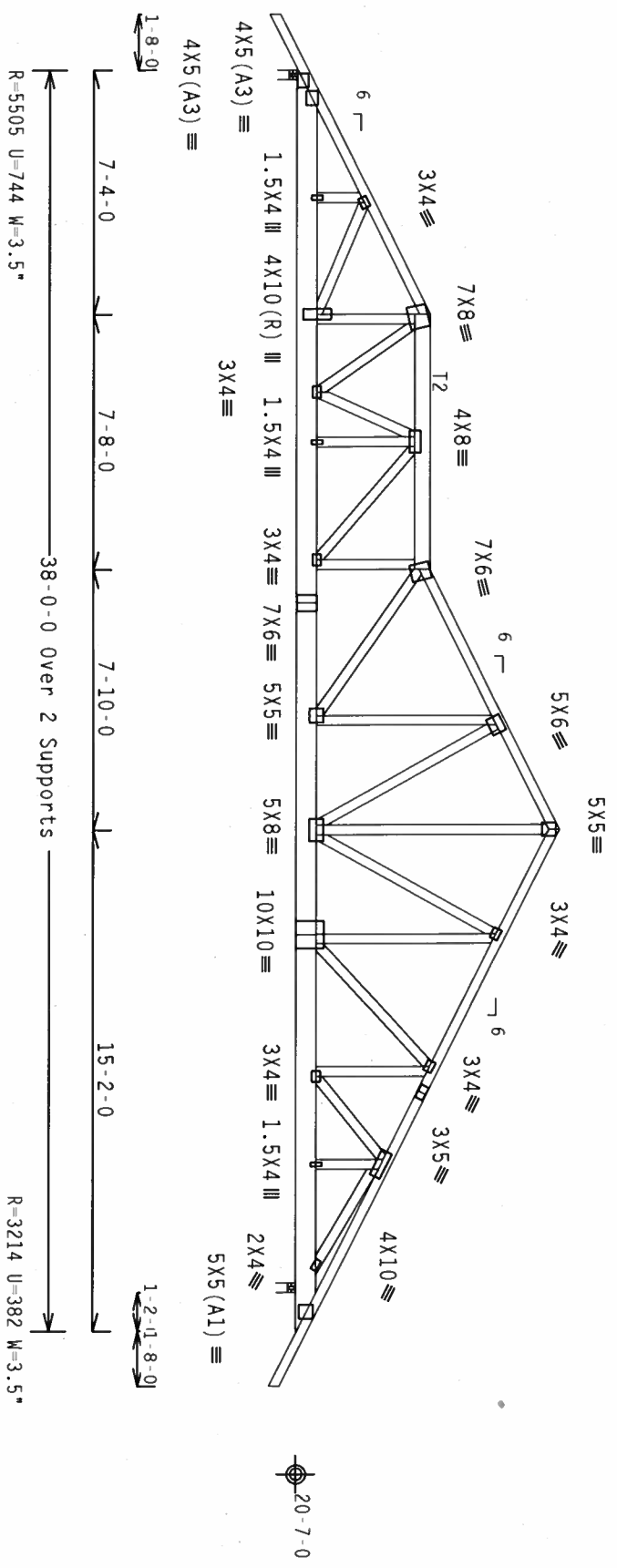
Wind reactions based on MMFRS pressures.

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

**SPECIAL LOADS**

TC - From	94 PLF at -1.67 to	94 PLF at 7.33
TC - From	94 PLF at 7.33 to	94 PLF at 15.00
TC - From	94 PLF at 15.00 to	94 PLF at 22.83
TC - From	94 PLF at 22.83 to	94 PLF at 39.67
BC - From	4 PLF at -1.67 to	4 PLF at 0.00
BC - From	20 PLF at 0.00 to	20 PLF at 38.00
BC - From	4 PLF at 38.00 to	4 PLF at 39.67
TC -	361 LB Conc. Load at	7.54
BC -	1043 LB Conc. Load at	7.33
BC -	2673 LB Conc. Load at	7.54

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



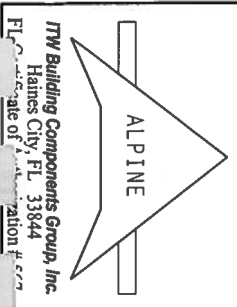
PLT TYP. Wave

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

7.31.1

FL/-/4/-/R/-

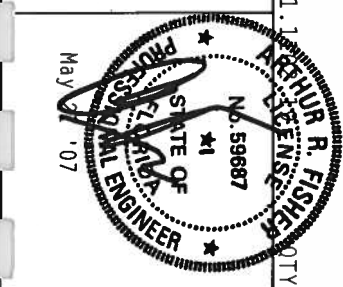
Scale = .1875"/ft.



**ALPINE**

\*\*\*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, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) 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. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITM BCG DESIGN COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. CONNECTION PLATES ARE MADE OF 20/18/16GA (O/H/SS/AS) ASTM A653 GRADE 40/60 (G. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE SIGNATURE AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



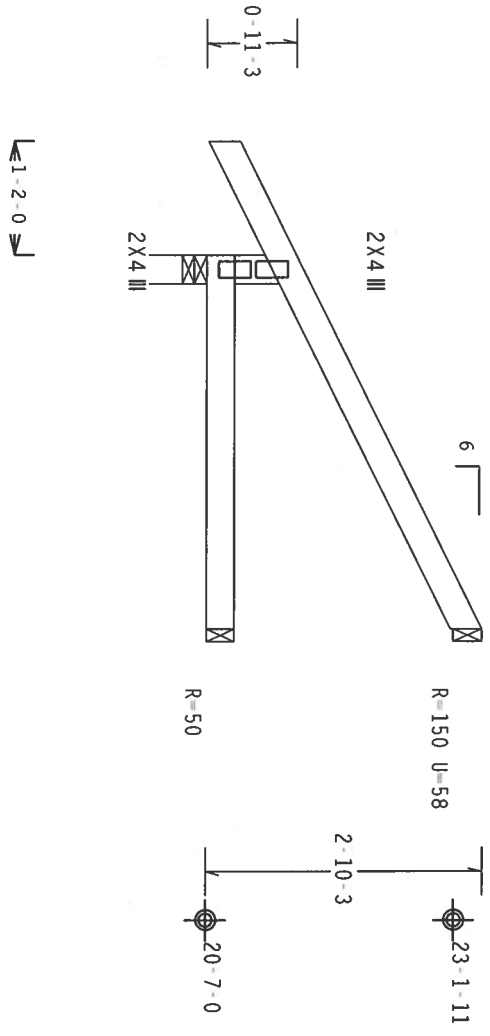
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141097
BC LL	0.0 PSF	HC-ENG	RA/AF
TOT. LD.	55.0 PSF	SEON-	6324 REV
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T738228202

ITW Building Components Group, Inc.  
 Gaines City, FL 33844  
 Phone: 813-384-1111  
 Fax: 813-384-1112

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

Wind reactions based on MWFRS pressures.

110 mph wind, 22.18 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$   
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

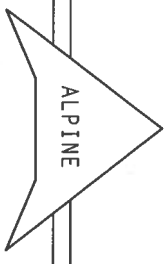
7.36.04

FL/-/4/-/1/R/-

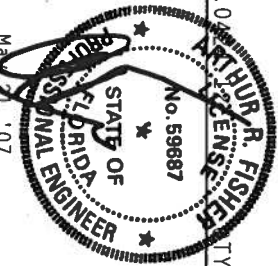
Scale =.5"/ft.

**\*\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENTS SAFETY INFORMATION, PUBLISHED BY THE NATIONAL TRUSS MANUFACTURERS ASSOCIATION, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICK WOOD 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. TIT BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. REFER TO THE TIT BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA AND TPI. TIT BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/V) ASTM A653 GRADE 40/60 (W, K/H, S5) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TP11-2002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE SUITABILITY AND 2% OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TW Building Components Group, Inc.  
 Haines City, FL 33844  
 State of Florida Registration # 227



TC LL	30.0 PSF	REF	R8228-40048
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141019
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	25035
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02



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

Wind reactions based on MWFRS pressures.

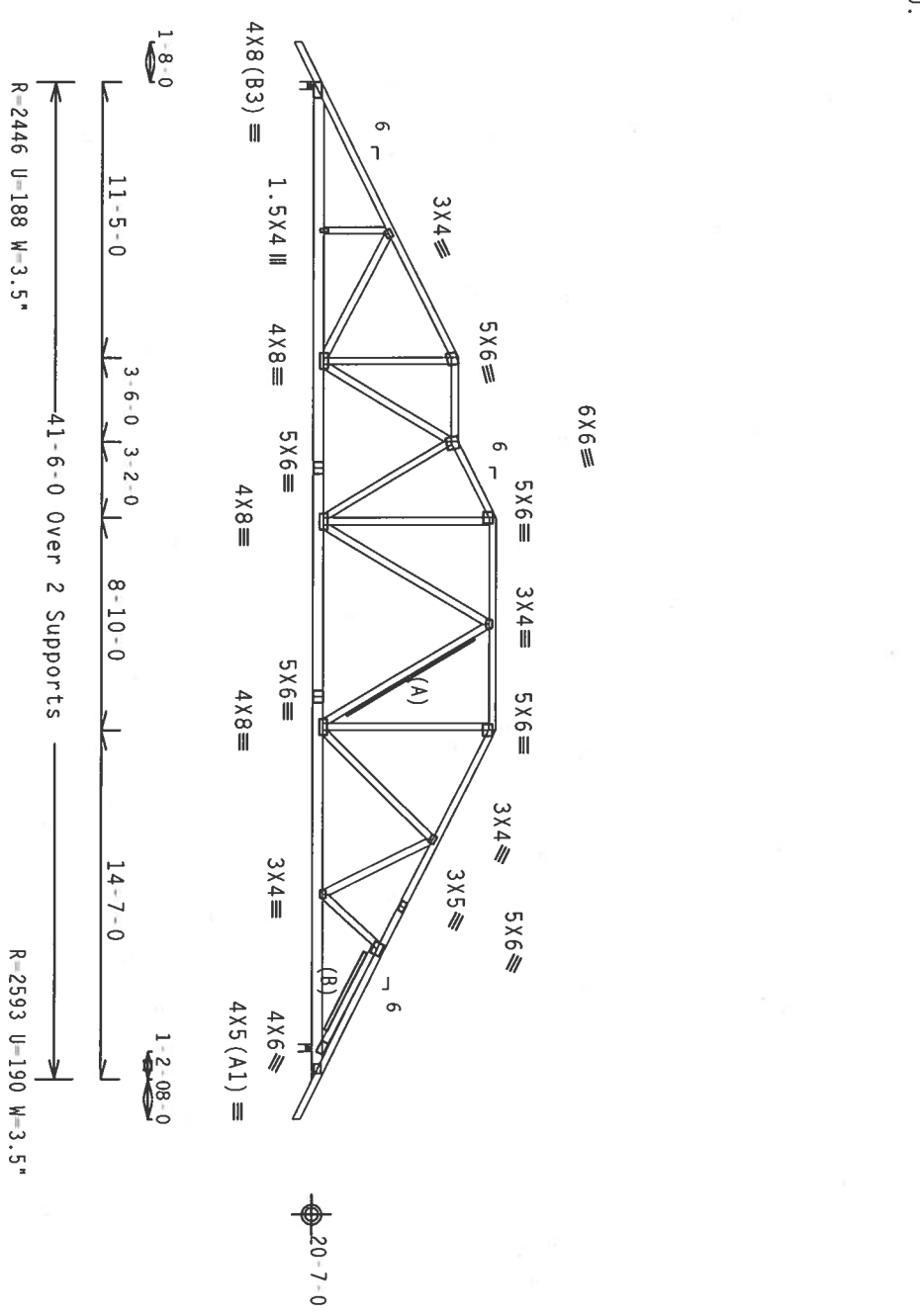
(B) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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

110 mph wind, 24.16 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

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

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



PLT TYP. Wave

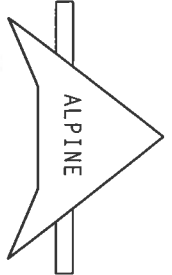
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

FL/-/4/-/R/-

Scale = .125"/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, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NICKI (GOOD TRUSS COUNCIL OF AMERICA, 6000 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. BY A/R/P/A AND TPI. DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY A/R/P/A) AND TPI. DESIGNER PLATES ARE MADE OF 20/18/16GA (E/W/SS/S) ASH A663 GRADE 40/80 (V, K/FH/SS) GALV. STEEL. APPLY ANY REVISIONS TO THIS DESIGN, POSITION PER DRAWINGS 160A-2, 160B-2, 160C-2, 160D-2, 160E-2, 160F-2, 160G-2, 160H-2, 160I-2, 160J-2, 160K-2, 160L-2, 160M-2, 160N-2, 160O-2, 160P-2, 160Q-2, 160R-2, 160S-2, 160T-2, 160U-2, 160V-2, 160W-2, 160X-2, 160Y-2, 160Z-2. ANY DEVIATION FROM THIS DESIGN, POSITION PER DRAWINGS 160A-2, 160B-2, 160C-2, 160D-2, 160E-2, 160F-2, 160G-2, 160H-2, 160I-2, 160J-2, 160K-2, 160L-2, 160M-2, 160N-2, 160O-2, 160P-2, 160Q-2, 160R-2, 160S-2, 160T-2, 160U-2, 160V-2, 160W-2, 160X-2, 160Y-2, 160Z-2. 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  
PL Certificate of Authorization # 547



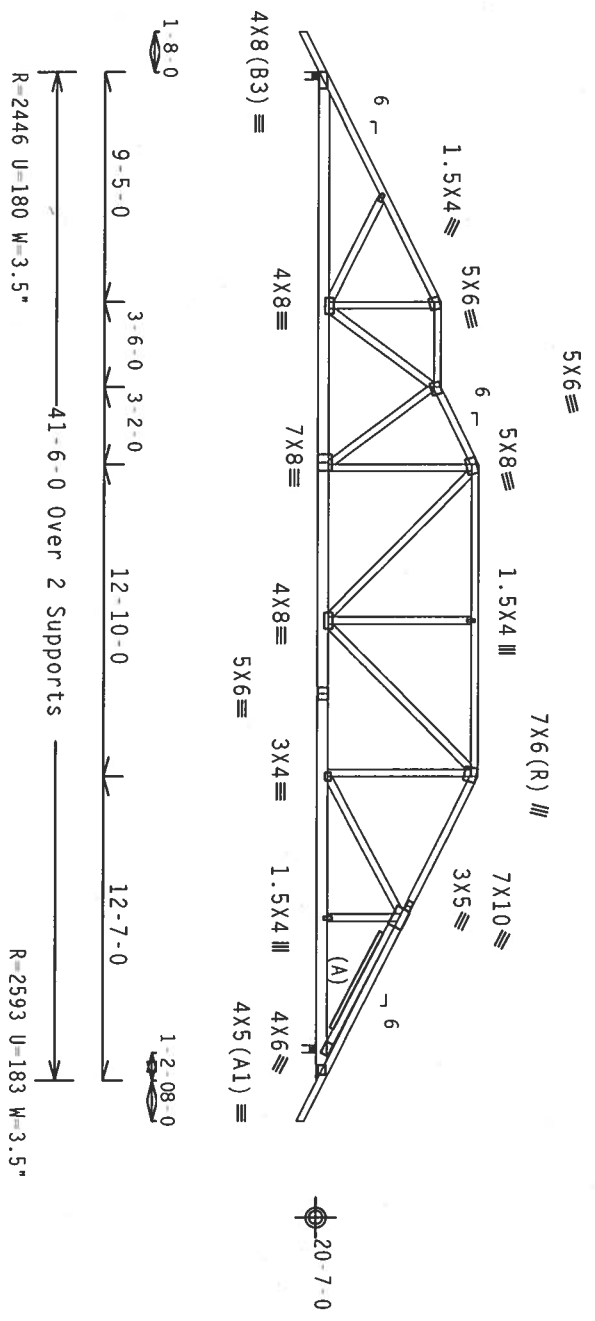
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141053
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	25317
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JDEF-	1T738228202

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

Wind reactions based on MWFRS pressures.

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

110 mph wind, 23.66 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$   
 (A) 2x6 #3 or better "T" brace, 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

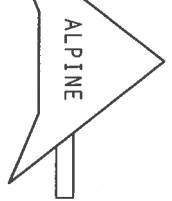
Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0)

FL/-/4/-/R/-

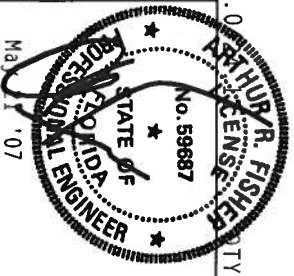
Scale = .125"/ft.

**\*\*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 WICK (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. THE 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. DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE TRUSS. 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  
 PL Certificate of Authorization # 557



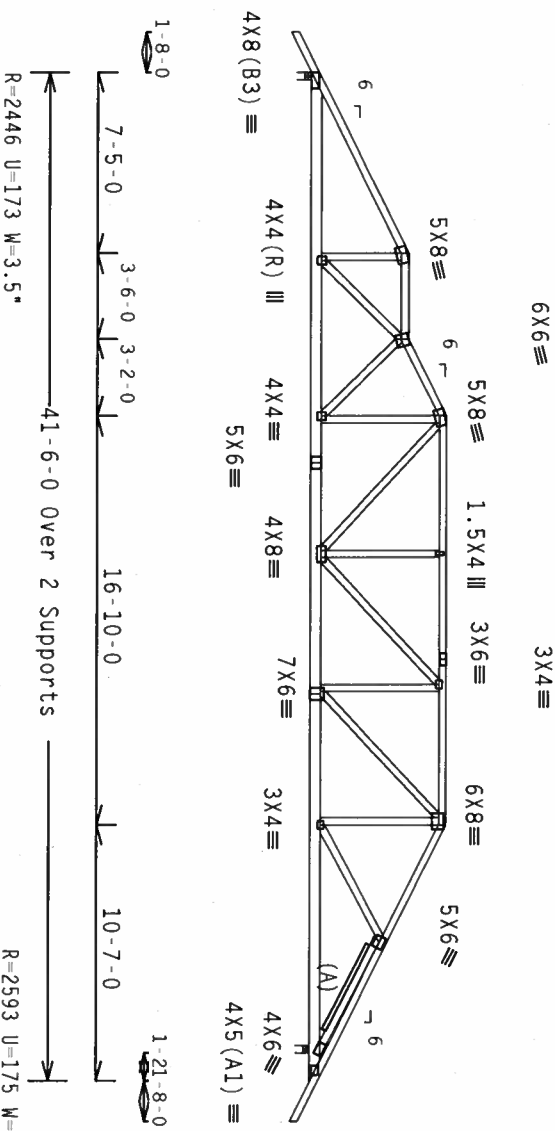
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141061
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	25325
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JREF	1T7J8228Z02

( 7 101R Isaac Construction SUNIL PATEL RES. , \*\* H11 A )  
 Top chord 2x4 SP #2 Dense  
 Bot chord 2x6 SP #2  
 Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

110 mph wind, 23.16 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cp1}(+/-)=0.18$   
 (A) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d box or gun (0.135"x3.5".min.) nails @ 6" OC.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



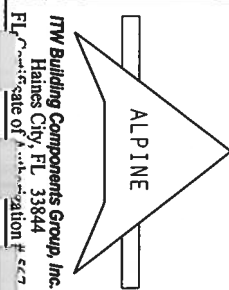
PLT TYP. Wave

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

ARTHUR R. FISHER  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 59687  
 STATE OF FLORIDA  
 EXP. 11/07

Scale = .125" / Ft.

FL / - / 4 / - / - / R / -	FL / - / 4 / - / - / R / -	REF R8228- 40052
TC LL	30.0 PSF	DATE 05/21/07
TC DL	15.0 PSF	DRW HCUSR8228 07141090
BC DL	10.0 PSF	HC-ENG JB/AF
BC LL	0.0 PSF	SEON- 25334
TOT. LD.	55.0 PSF	FROM AH
DUR. FAC.	1.25	JREF- 1T7J8228Z02
SPACING	24.0"	



**ITW Building Components Group, Inc.**  
 Haines City, FL 33844  
 Florida State of Registration # 477

**\*\*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, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6000 EMERSON LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

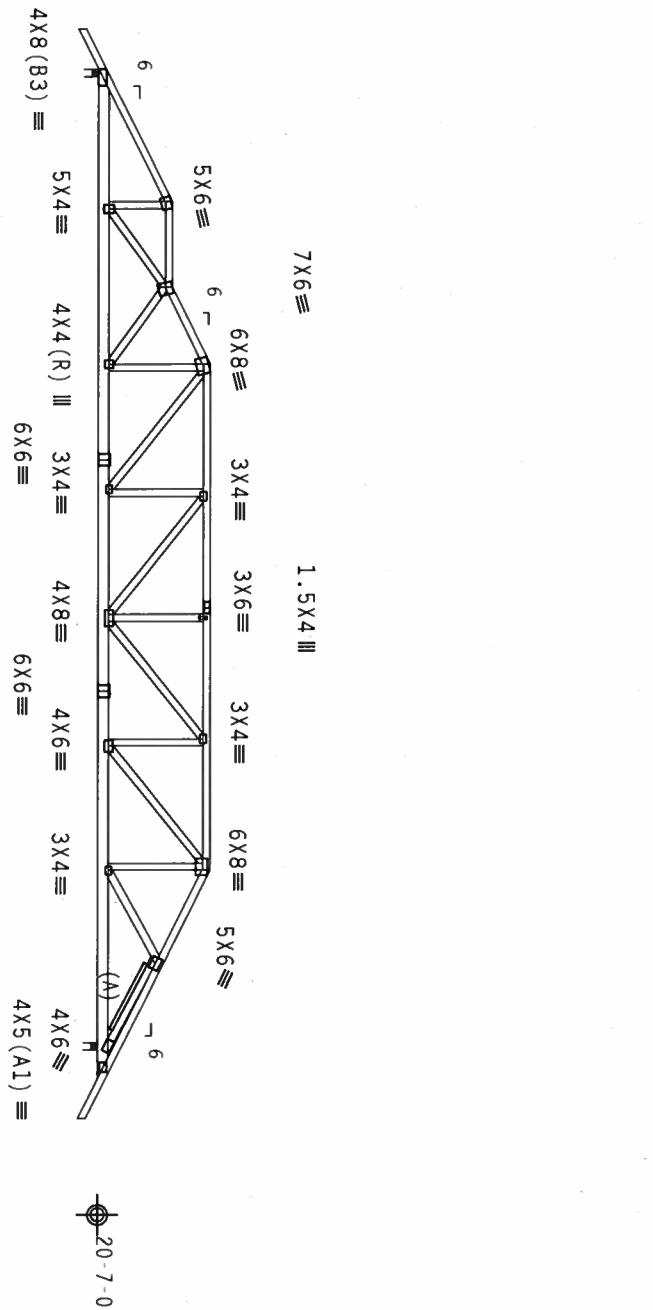
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. ITW BCG DESIGNS COMPONENTS WITH APPLICABLE PROVISIONS OF ROS (NATIONAL DESIGN SPEC. BY ASBPA) AND TPI. ITW BCG DESIGNS COMPONENTS WITH APPLICABLE PROVISIONS OF ASCE 7-02 (W. 47th ST GALEY, STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND 18" JOISTS W/ 5/8" X 3/8" ASB GRAD 40/50 (W. 47th ST GALEY, STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND 18" JOISTS W/ 5/8" X 3/8" ASB GRAD 40/50 PER DRAWINGS AND 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA UNDER THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 22.66 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
(A) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RI=1.00(1.25)/10(0) 7.36.0

FL/-/4/-/R/-

Scale = .125"/ft.

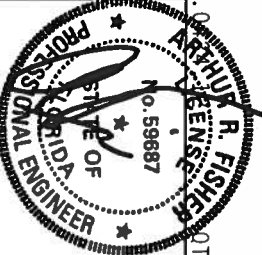
**ALPINE**

**TW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Registration # 547

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC&I (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. TWC, 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 COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACP&A) AND TPI. THE BCG OFFICES ARE: 200/191/1000 N. W. 117TH ST. STE. 1000, MIAMI, FL 33157. TEL: 305-443-9999. FAX: 305-443-9997. ANY INSPECTION OF PLATES FOLLOWED BY (1) TPI 2002 SECTION 11.1 PER DR. SEASONS CONSULTING ENGINEERS, INC. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



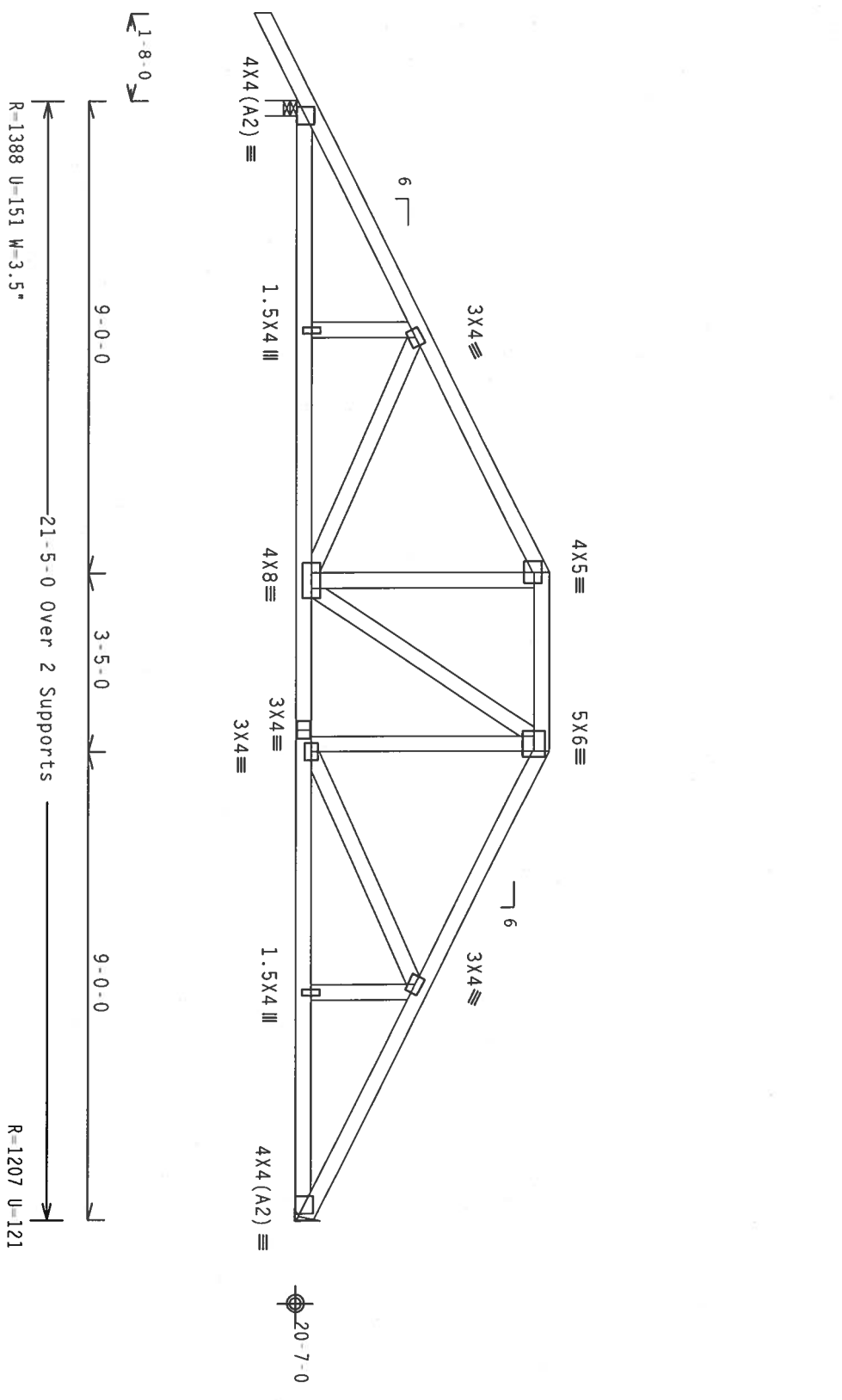
TC LL	30.0 PSF	REF. R8228-40053
TC DL	15.0 PSF	DATE 05/21/07
BC DL	10.0 PSF	DRW HCUSR8228 07141088
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	55.0 PSF	SEQN- 25341
DUR. FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 17J8228Z02



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

110 mph wind, 22.76 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=-0.18$   
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



PLT TYP. Wave

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

7.36:0

FL/-/4/-/R/-

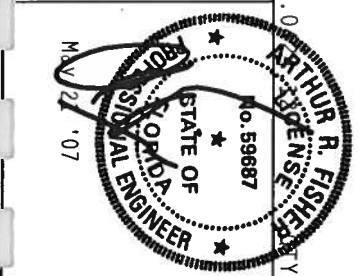
Scale = .3125"/ft.

**ALPINE**

TW Building Components Group, Inc.  
 Haines City, FL 33844  
 Florida State of Registration # 647

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS SOCIETY OF AMERICA, 6200 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCCA (WOOD TRUSS COUNCIL OF AMERICA, 53719 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. TIT 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 ACPRA) AND TPI. TIT BCG PLATES ON EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 160B, 2, 160C, 2, 160D, 2, 160E, 2, 160F, 2, 160G, 2, 160H, 2, 160I, 2, 160J, 2, 160K, 2, 160L, 2, 160M, 2, 160N, 2, 160O, 2, 160P, 2, 160Q, 2, 160R, 2, 160S, 2, 160T, 2, 160U, 2, 160V, 2, 160W, 2, 160X, 2, 160Y, 2, 160Z, 2. DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

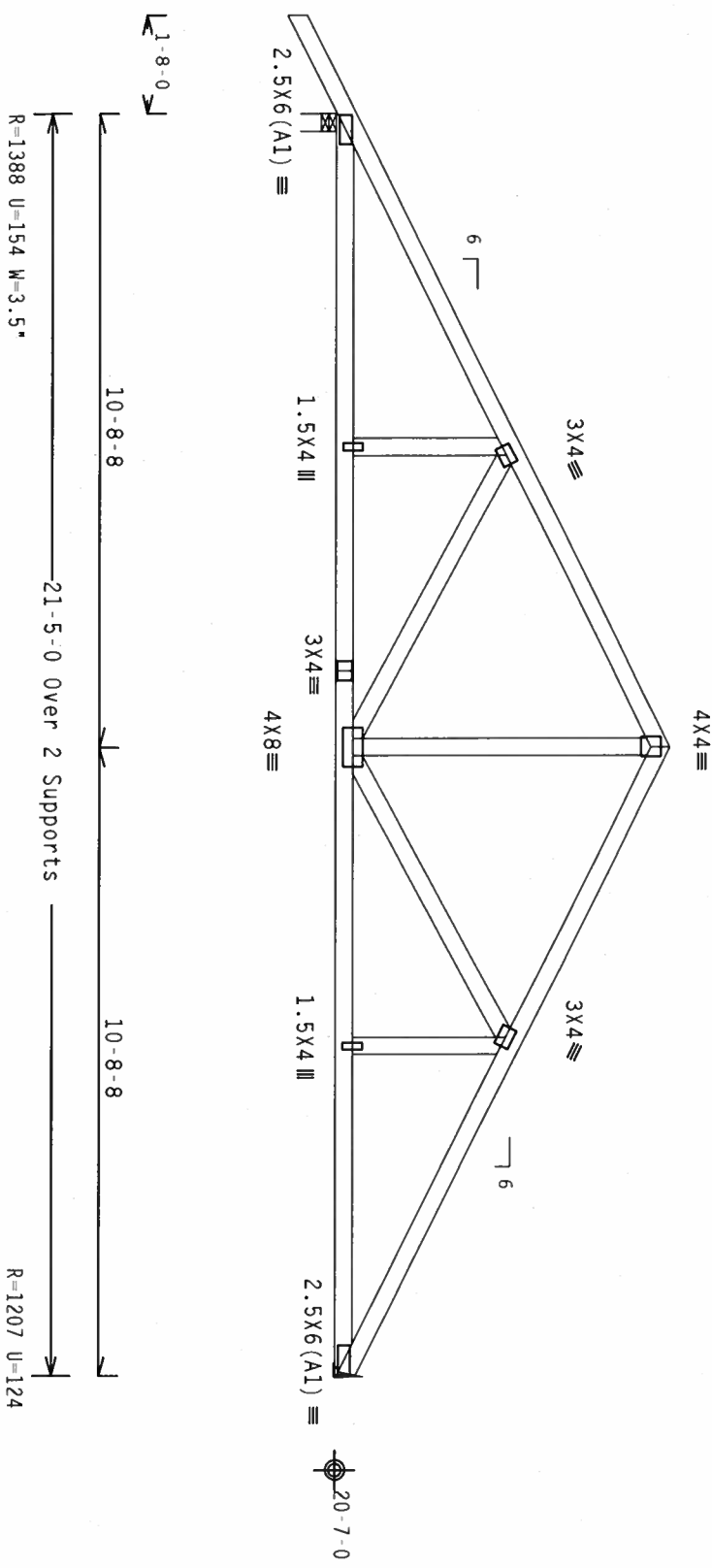


TC LL	30.0 PSF	REF	R8228- 40055
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCSUR8228 07141075
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	24726
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

Wind reactions based on MMFRS pressures.

110 mph wind, 23.19 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf. IW=1.00 Gcpl(+/-)=0.18  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

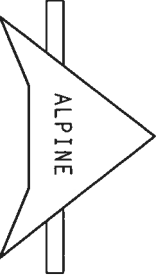
7.36.04

FL/-/4/-/R/-

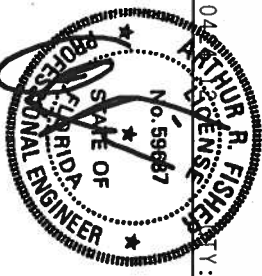
Scale = .3125"/ft.

**\*\*WARNINGS\*\*** 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, 22319) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LANE, WAUWATON, WI 53119) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TIV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. BY A/R/P/A) AND TPI. DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY A/R/P/A) AND TPI. TIV BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/S/S/S) ASTM A653 GRADE 40/80 (W. K/M/SS) GALV. STEEL. APPLY PLATE TO EACH CHORD END. UNLESS OTHERWISE SPECIFIED, 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.



TIV Building Components Group, Inc.  
 Haines City, FL 33844  
 Florida Certificate of Authorization # 627

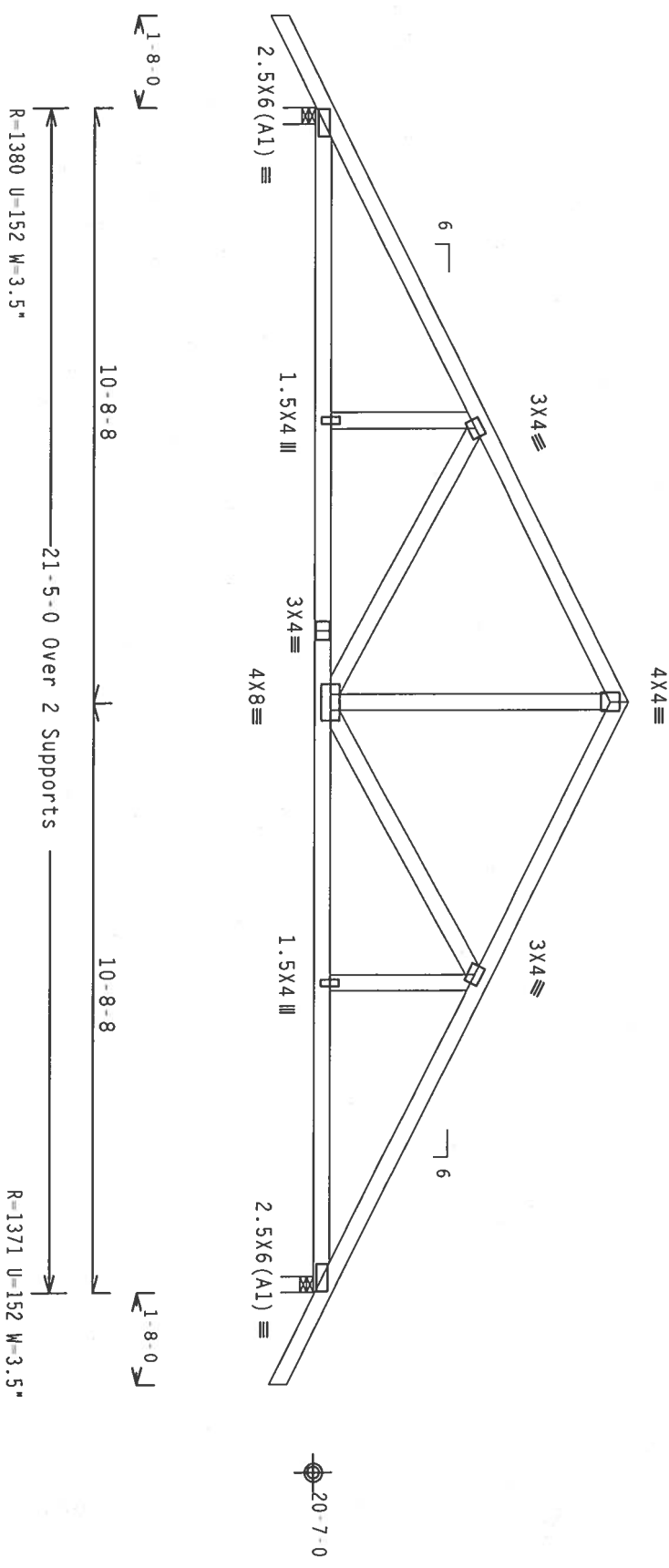


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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141077
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24744
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

Wind reactions based on MWFRS pressures.

110 mph wind, 23.19 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. IW=1.00 Gcpi(+/-)=0.18 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

7.36.04

TY:1

FL-/4/-/R/-

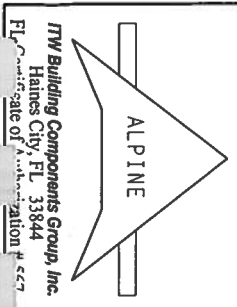
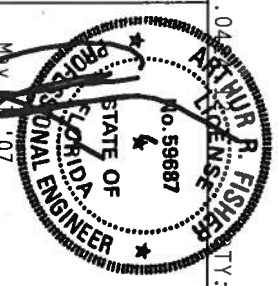
Scale = .3125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY, 400 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NICK (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 TO THE PERFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/50 (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.

PLATES SHALL BE PERMANENTLY IDENTIFIED WITH TPI-2002, SEC. 3. FOR THE TRUSS DESIGNER'S DESIGN INDICATIONS THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS/TP1 1 SEC. 2.



ITW Building Components Group, Inc.  
 Haines City, FL 33844  
 File # 17738228202

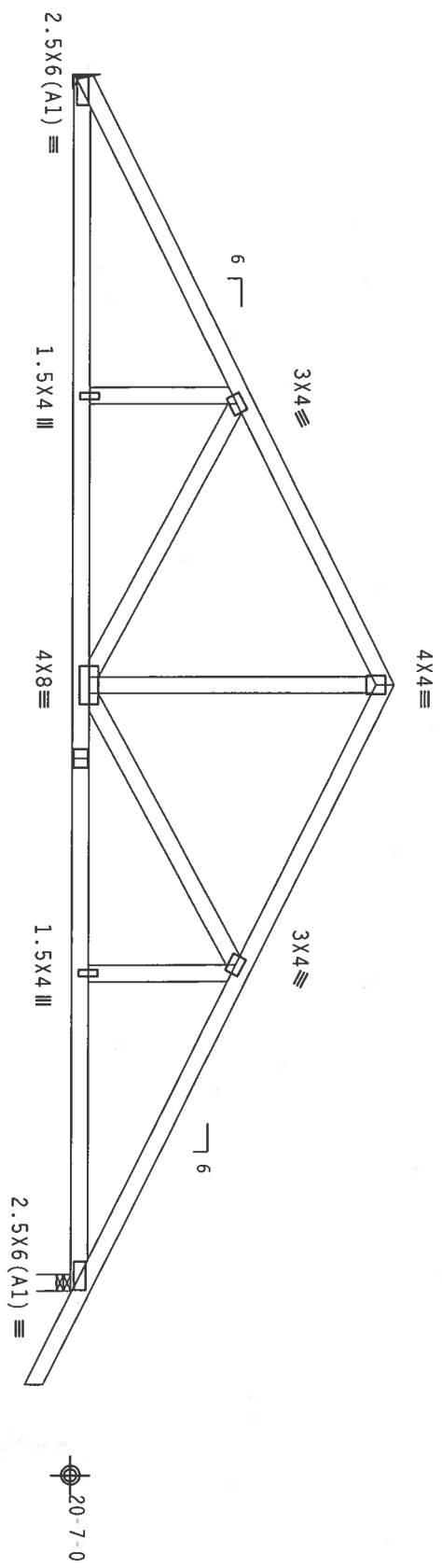
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCURS8228 07141105
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24/63
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	17738228202

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

Wind reactions based on MMFRS pressures.

110 mph wind, 23.19 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
 located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC  
 DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCF(+/-)=0.18$

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



PLT TYP. Wave

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

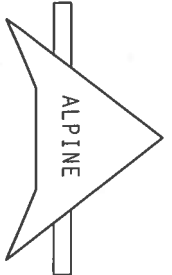
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QTY: 1 FL/-/4/-/R/-

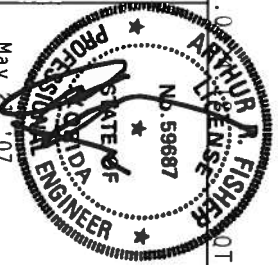
Scale = .3125"/ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 530 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22319 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-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI-2002. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/TS) ASTM A653 GRADE 40/50 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ALL INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEC AS OR TPI-2002 SEC. 3. FOR THE TRUSS COMPONENT 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.  
 Gaines City, FL 33844  
 Date of Revision

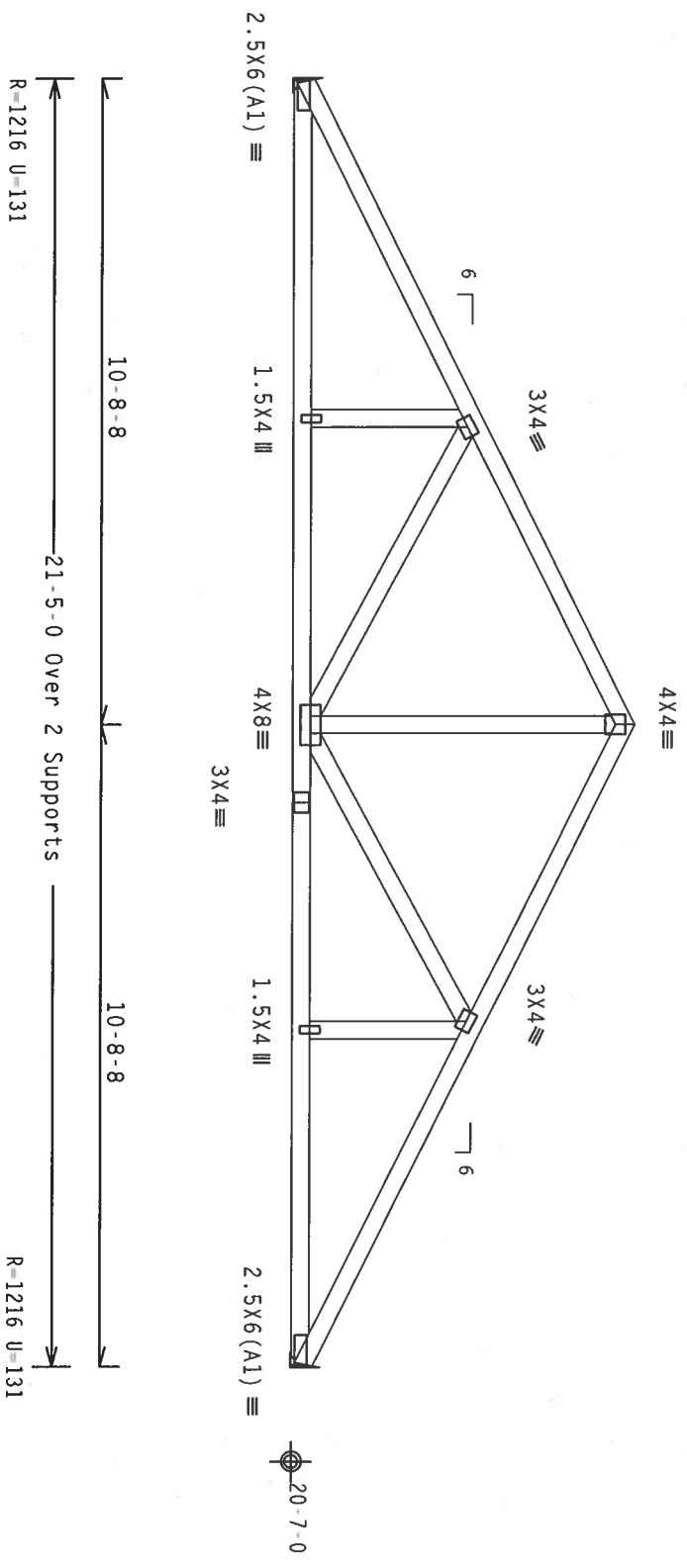


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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141078
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24767
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T7J8228Z02

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

Wind reactions based on MWFRS pressures.

110 mph wind, 23.61 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCP1(+/-)=0.18$   
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

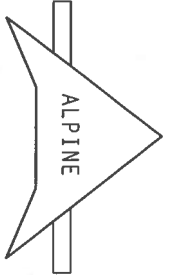
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 Cq/RT=1.00(1.25)/10(0)

Scale = .3125"/ft.

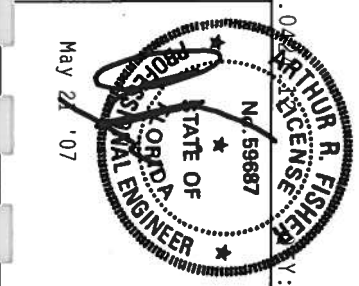
Scale = .3125"/ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY (BCS) MANUALS, PARTS 1 AND 2, AND THE CODES OF AMERICA, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, AND THE CODES OF AMERICA, 537191 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE 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. BY AFRPA AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC. BY AFRPA) AND TPI. CONNECTION PLATES ARE MADE OF 20/18/16GA (M/N/SS/VS) ASIM A653 GRADE 40/60 (M. K/H.55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Building Components Group, Inc.  
 Haines City, FL 33844  
 Phone: 888-333-3333



TC LL	30.0 PSF	REF	R8228-40059
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUR8228 07141102
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24777
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

Top Chord 2x4 SP #2 Dense : T2 2x6 SP #2:  
Bot Chord 2x6 SP #2  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

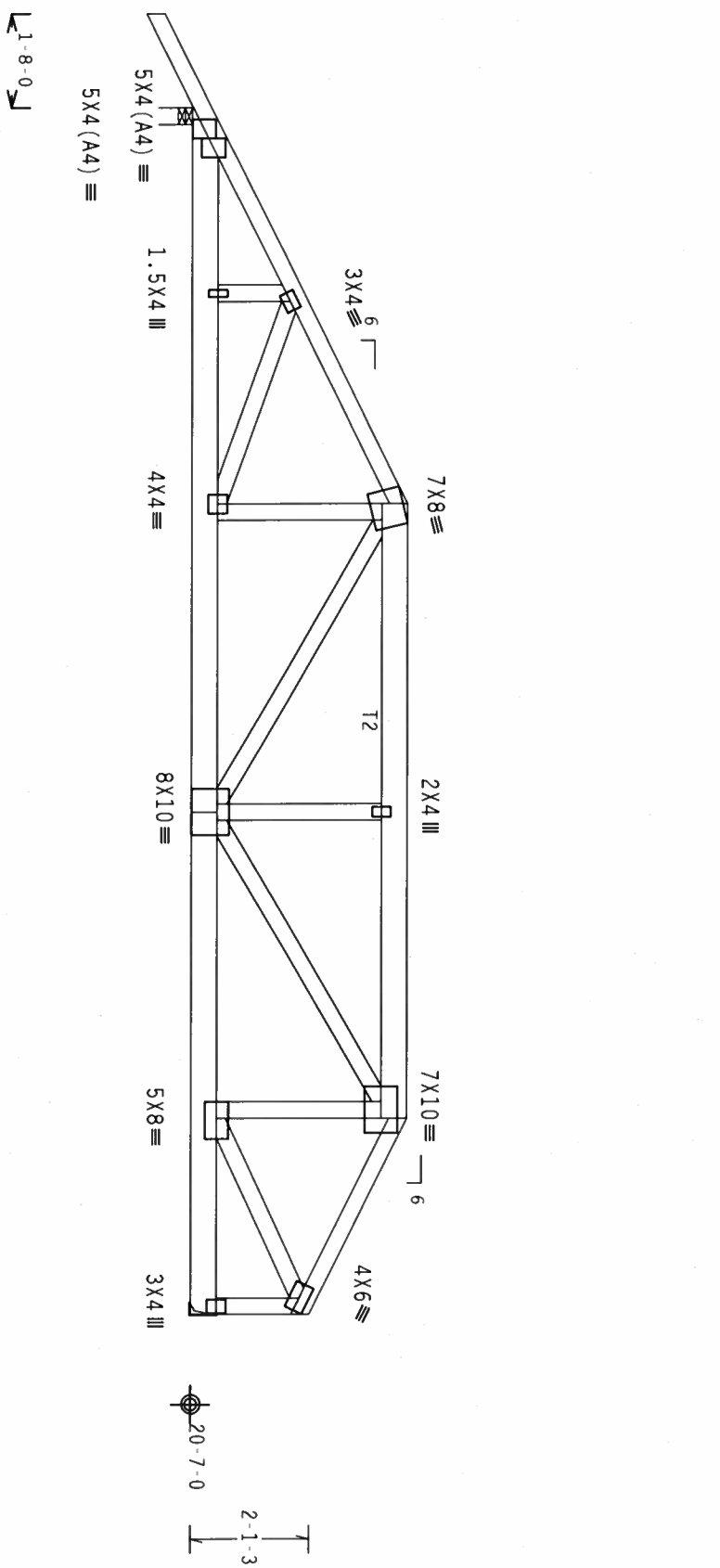
Left side jacks have 7-0-0 setback with 0-0-0 cant and 1-8-0 overhang.  
End jacks have 7-0-0 setback with 0-0-0 cant and 1-8-0 overhang. Right side jacks have 0-0-0 setback with 0-0-0 cant and 0-0-0 overhang.

110 mph wind, 22.26 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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

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



R=2458 U=247 W=3.5"  
R=2599 U=235

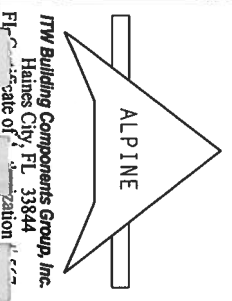
PLT TYP. Wave

Design Crit: TPI-2002(STD) / FBC

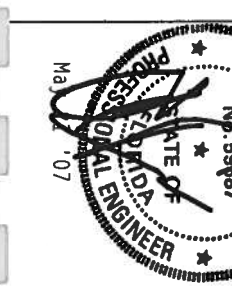
Cq/RT=1.00 (1.25) / 10 (0) 7.31.1

QTY: 1

Scale = .3125" / ft.



ALPINE  
TW Building Components Group, Inc.  
Haines City, FL 33844  
State of Florida  
Professional Engineer  
No. 59887  
Ma 07

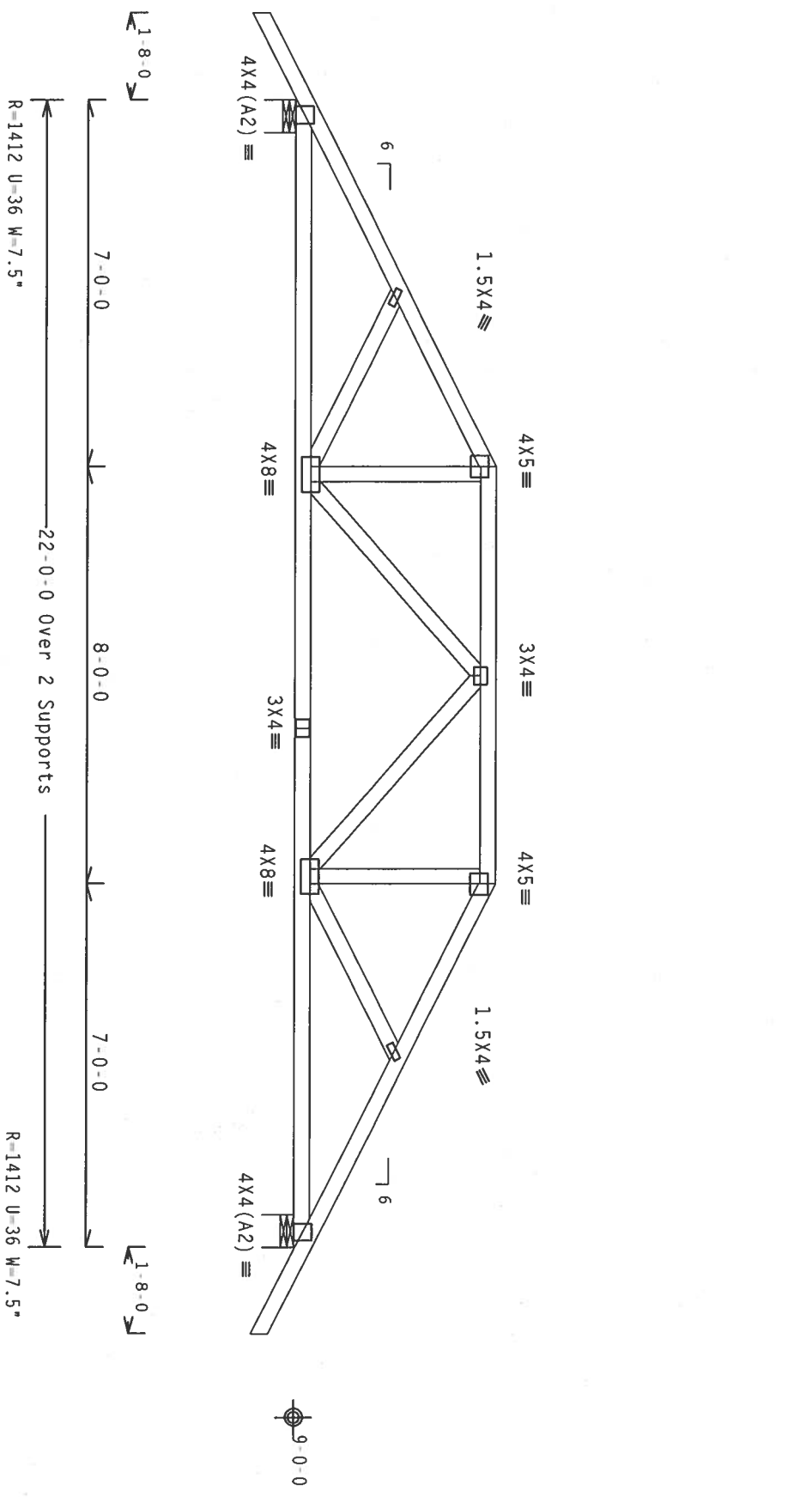


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BC DL	10.0 PSF	DRW	HCSR8228 07141074
BC LL	0.0 PSF	HC-ENG	RA/AF
TOT.LD.	55.0 PSF	SECN-	6328 REV
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

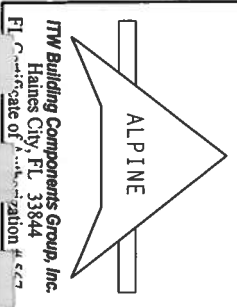
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpi}(+/-)=0.18$   
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



PLT TYP. Wave

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

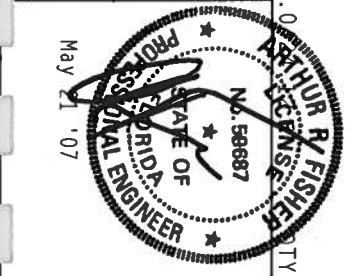
Scale = .3125" / Ft.



**ALPINE**  
 TW Building Components Group, Inc.  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 677

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE COMPONENTS MANUFACTURER'S INSTRUCTIONS FOR THE PROPER USE OF THE TRUSS. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND NICK GOOD TRUSS COUNCIL OF AMERICA, ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TIT BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILING OF TRUSS IN CONFORMANCE WITH TPI 1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI 1: TIT BCG CONNECTOR PLATES ARE MADE OF 20/18/18GA (K/H/SS) ASH A683 GRADE 40/60 (K/ H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 150N, 2, 150S, 150E, 150W, 150D, 150U, 150V, 150X, 150Y, 150Z, 150AA, 150AB, 150AC, 150AD, 150AE, 150AF, 150AG, 150AH, 150AI, 150AJ, 150AK, 150AL, 150AM, 150AN, 150AO, 150AP, 150AQ, 150AR, 150AS, 150AT, 150AU, 150AV, 150AW, 150AX, 150AY, 150AZ, 150BA, 150BB, 150BC, 150BD, 150BE, 150BF, 150BG, 150BH, 150BI, 150BJ, 150BK, 150BL, 150BM, 150BN, 150BO, 150BP, 150BQ, 150BR, 150BS, 150BT, 150BU, 150BV, 150BW, 150BX, 150BY, 150BZ, 150CA, 150CB, 150CC, 150CD, 150CE, 150CF, 150CG, 150CH, 150CI, 150CJ, 150CK, 150CL, 150CM, 150CN, 150CO, 150CP, 150CQ, 150CR, 150CS, 150CT, 150CU, 150CV, 150CW, 150CX, 150CY, 150CZ, 150DA, 150DB, 150DC, 150DD, 150DE, 150DF, 150DG, 150DH, 150DI, 150DJ, 150DK, 150DL, 150DM, 150DN, 150DO, 150DP, 150DQ, 150DR, 150DS, 150DT, 150DU, 150DV, 150DW, 150DX, 150DY, 150DZ, 150EA, 150EB, 150EC, 150ED, 150EE, 150EF, 150EG, 150EH, 150EI, 150EJ, 150EK, 150EL, 150EM, 150EN, 150EO, 150EP, 150EQ, 150ER, 150ES, 150ET, 150EU, 150EV, 150EW, 150EX, 150EY, 150EZ, 150FA, 150FB, 150FC, 150FD, 150FE, 150FF, 150FG, 150FH, 150FI, 150FJ, 150FK, 150FL, 150FM, 150FN, 150FO, 150FP, 150FQ, 150FR, 150FS, 150FT, 150FU, 150FV, 150FW, 150FX, 150FY, 150FZ, 150GA, 150GB, 150GC, 150GD, 150GE, 150GF, 150GG, 150GH, 150GI, 150GJ, 150GK, 150GL, 150GM, 150GN, 150GO, 150GP, 150GQ, 150GR, 150GS, 150GT, 150GU, 150GV, 150GW, 150GX, 150GY, 150GZ, 150HA, 150HB, 150HC, 150HD, 150HE, 150HF, 150HG, 150HH, 150HI, 150HJ, 150HK, 150HL, 150HM, 150HN, 150HO, 150HP, 150HQ, 150HR, 150HS, 150HT, 150HU, 150HV, 150HW, 150HX, 150HY, 150HZ, 150IA, 150IB, 150IC, 150ID, 150IE, 150IF, 150IG, 150IH, 150II, 150IJ, 150IK, 150IL, 150IM, 150IN, 150IO, 150IP, 150IQ, 150IR, 150IS, 150IT, 150IU, 150IV, 150IW, 150IX, 150IY, 150IZ, 150JA, 150JB, 150JC, 150JD, 150JE, 150JF, 150JG, 150JH, 150JI, 150JJ, 150JK, 150JL, 150JM, 150JN, 150JO, 150JP, 150JQ, 150JR, 150JS, 150JT, 150JU, 150JV, 150JW, 150JX, 150JY, 150JZ, 150KA, 150KB, 150KC, 150KD, 150KE, 150KF, 150KG, 150KH, 150KI, 150KJ, 150KK, 150KL, 150KM, 150KN, 150KO, 150KP, 150KQ, 150KR, 150KS, 150KT, 150KU, 150KV, 150KW, 150KX, 150KY, 150KZ, 150LA, 150LB, 150LC, 150LD, 150LE, 150LF, 150LG, 150LH, 150LI, 150LJ, 150LK, 150LL, 150LM, 150LN, 150LO, 150LP, 150LQ, 150LR, 150LS, 150LT, 150LU, 150LV, 150LW, 150LX, 150LY, 150LZ, 150MA, 150MB, 150MC, 150MD, 150ME, 150MF, 150MG, 150MH, 150MI, 150MJ, 150MK, 150ML, 150MN, 150MO, 150MP, 150MQ, 150MR, 150MS, 150MT, 150MU, 150MV, 150MW, 150MX, 150MY, 150MZ, 150NA, 150NB, 150NC, 150ND, 150NE, 150NF, 150NG, 150NH, 150NI, 150NJ, 150NK, 150NL, 150NM, 150NO, 150NP, 150NQ, 150NR, 150NS, 150NT, 150NU, 150NV, 150NW, 150NX, 150NY, 150NZ, 150OA, 150OB, 150OC, 150OD, 150OE, 150OF, 150OG, 150OH, 150OI, 150OJ, 150OK, 150OL, 150OM, 150ON, 150OO, 150OP, 150OQ, 150OR, 150OS, 150OT, 150OU, 150OV, 150OW, 150OX, 150OY, 150OZ, 150PA, 150PB, 150PC, 150PD, 150PE, 150PF, 150PG, 150PH, 150PI, 150PJ, 150PK, 150PL, 150PM, 150PN, 150PO, 150PP, 150PQ, 150PR, 150PS, 150PT, 150PU, 150PV, 150PW, 150PX, 150PY, 150PZ, 150QA, 150QB, 150QC, 150QD, 150QE, 150QF, 150QG, 150QH, 150QI, 150QJ, 150QK, 150QL, 150QM, 150QN, 150QO, 150QP, 150QQ, 150QR, 150QS, 150QT, 150QU, 150QV, 150QW, 150QX, 150QY, 150QZ, 150RA, 150RB, 150RC, 150RD, 150RE, 150RF, 150RG, 150RH, 150RI, 150RJ, 150RK, 150RL, 150RM, 150RN, 150RO, 150RP, 150RQ, 150RR, 150RS, 150RT, 150RU, 150RV, 150RW, 150RX, 150RY, 150RZ, 150SA, 150SB, 150SC, 150SD, 150SE, 150SF, 150SG, 150SH, 150SI, 150SJ, 150SK, 150SL, 150SM, 150SN, 150SO, 150SP, 150SQ, 150SR, 150SS, 150ST, 150SU, 150SV, 150SW, 150SX, 150SY, 150SZ, 150TA, 150TB, 150TC, 150TD, 150TE, 150TF, 150TG, 150TH, 150TI, 150TJ, 150TK, 150TL, 150TM, 150TN, 150TO, 150TP, 150TQ, 150TR, 150TS, 150TT, 150TU, 150TV, 150TW, 150TX, 150TY, 150TZ, 150UA, 150UB, 150UC, 150UD, 150UE, 150UF, 150UG, 150UH, 150UI, 150UJ, 150UK, 150UL, 150UM, 150UN, 150UO, 150UP, 150UQ, 150UR, 150US, 150UT, 150UU, 150UV, 150UW, 150UX, 150UY, 150UZ, 150VA, 150VB, 150VC, 150VD, 150VE, 150VF, 150VG, 150VH, 150VI, 150VJ, 150VK, 150VL, 150VM, 150VN, 150VO, 150VP, 150VQ, 150VR, 150VS, 150VT, 150VU, 150VV, 150VW, 150VX, 150VY, 150VZ, 150WA, 150WB, 150WC, 150WD, 150WE, 150WF, 150WG, 150WH, 150WI, 150WJ, 150WK, 150WL, 150WM, 150WN, 150WO, 150WP, 150WQ, 150WR, 150WS, 150WT, 150WU, 150WV, 150WW, 150WX, 150WY, 150WZ, 150XA, 150XB, 150XC, 150XD, 150XE, 150XF, 150XG, 150XH, 150XI, 150XJ, 150XK, 150XL, 150XM, 150XN, 150XO, 150XP, 150XQ, 150XR, 150XS, 150XT, 150XU, 150XV, 150XW, 150XX, 150XY, 150XZ, 150YA, 150YB, 150YC, 150YD, 150YE, 150YF, 150YG, 150YH, 150YI, 150YJ, 150YK, 150YL, 150YM, 150YN, 150YO, 150YP, 150YQ, 150YR, 150YS, 150YT, 150YU, 150YV, 150YW, 150YX, 150YY, 150YZ, 150ZA, 150ZB, 150ZC, 150ZD, 150ZE, 150ZF, 150ZG, 150ZH, 150ZI, 150ZJ, 150ZK, 150ZL, 150ZM, 150ZN, 150ZO, 150ZP, 150ZQ, 150ZR, 150ZS, 150ZT, 150ZU, 150ZV, 150ZW, 150ZX, 150ZY, 150ZZ

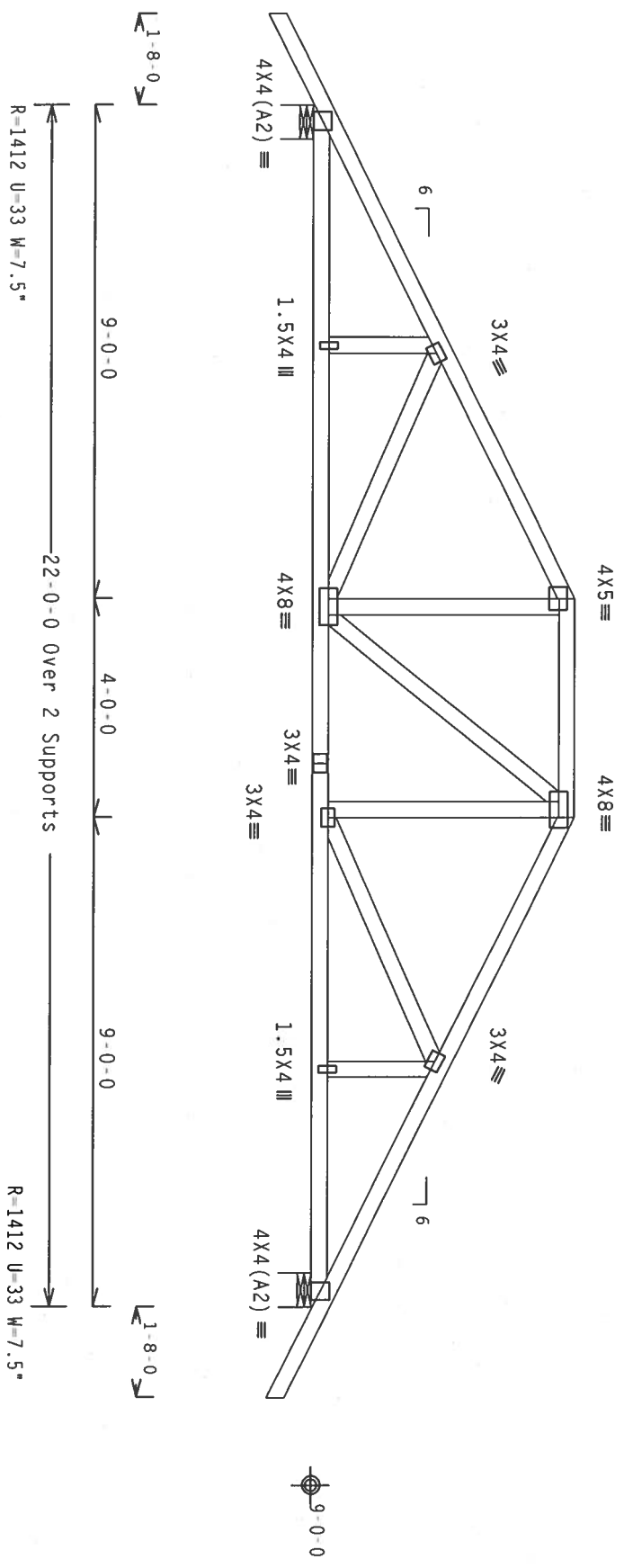


TC LL	30.0 PSF	REF	R8228- 40061
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUR8228 07141027
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	24534
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228202

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$   
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



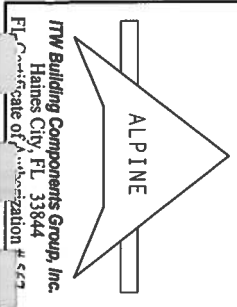
PLT TYP. Wave

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

QTY: 1

FL/-/4/-/R/-

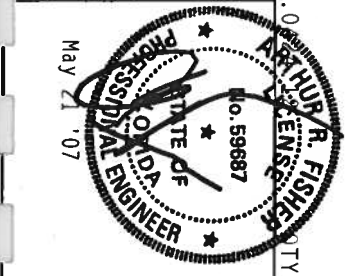
Scale = .3125"/ft.



**ITW Building Components Group, Inc.**  
 Haines City, FL 33844  
 Florida Registration # 547

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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY ACPA) AND TPI. DESIGN COMPONRS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. ITW BCG CONNECTIONS ARE MADE OF 20/19/180A (S/A/SSA) ASTM A563 GRADE 40/80 (Q, S/A/SS) GALV. STEEL. APPLY TO ALL CONNECTIONS. CONNECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONNECTION PER DRAWINGS OR NDS. ANY INSPECTION OF PLATES FOLLOWED BY IT SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY 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	30.0 PSF	REF	R8228- 40062
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141038
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24538
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02





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

**SPECIAL LOADS**

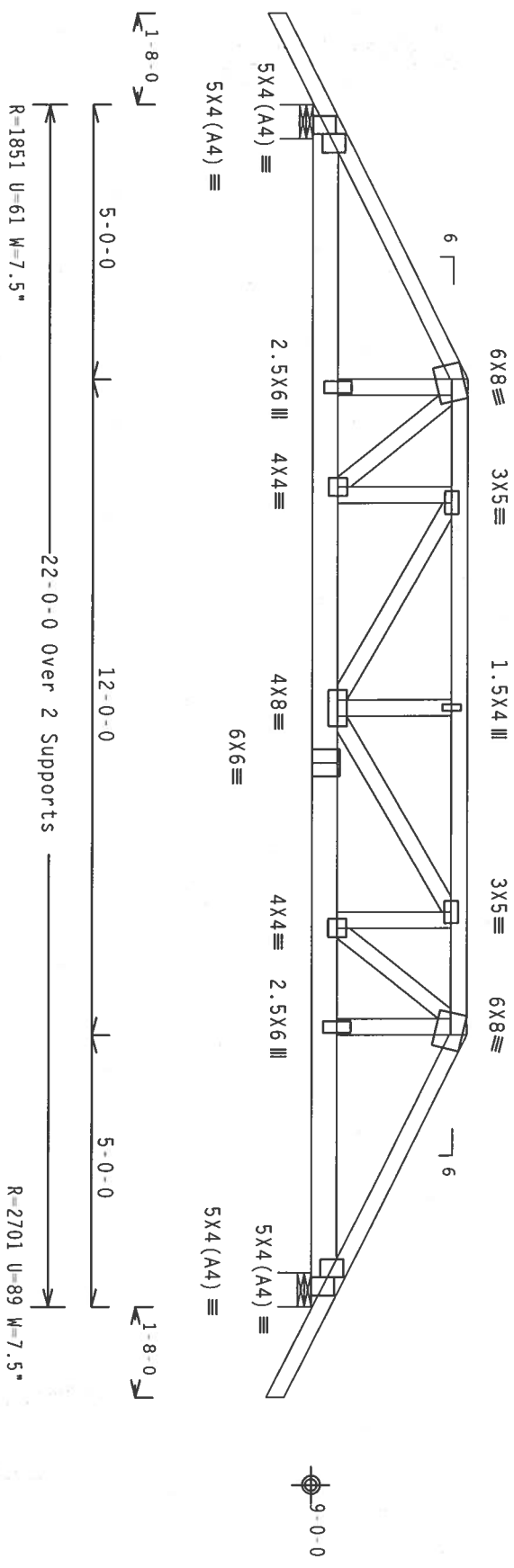
TC - From	94 PLF at -1.67 to	94 PLF at 5.00
TC - From	94 PLF at 5.00 to	94 PLF at 17.00
TC - From	94 PLF at 17.00 to	94 PLF at 23.67
BC - From	4 PLF at -1.67 to	4 PLF at 0.00
BC - From	20 PLF at 0.00 to	20 PLF at 22.00
BC - From	4 PLF at 22.00 to	4 PLF at 23.67
TC -	367 LB Conc. Load at 17.00	
BC -	1221 LB Conc. Load at 16.06	
BC -	140 LB Conc. Load at 17.00	

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $Gcpl(+/-)=0.18$

Wind reactions based on MWFRS pressures.

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

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



PLT TYP. Wave

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

7.36.04

Scale = .3125" / Ft.

**ALPINE**

**TW Building Components Group, Inc.**  
 Haines City, FL 33844  
 Phone: 888-244-7477

**\*\*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, 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.

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DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI.

CONNECTOR PLATES ARE MADE OF 2018/1818GA (M/H/SS) ASTM A653 GRADE 40/80 (Q. K/H/SS) GALV. STEEL. ITW BCG PLATES SPECIFIC TO THIS TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160N, 2, 160S, 160T, 160U, 160V, 160W, 160X, 160Y, 160Z, 160AA, 160AB, 160AC, 160AD, 160AE, 160AF, 160AG, 160AH, 160AI, 160AJ, 160AK, 160AL, 160AM, 160AN, 160AO, 160AP, 160AQ, 160AR, 160AS, 160AT, 160AU, 160AV, 160AW, 160AX, 160AY, 160AZ, 160BA, 160BB, 160BC, 160BD, 160BE, 160BF, 160BG, 160BH, 160BI, 160BJ, 160BK, 160BL, 160BM, 160BN, 160BO, 160BP, 160BQ, 160BR, 160BS, 160BT, 160BU, 160BV, 160BW, 160BX, 160BY, 160BZ, 160CA, 160CB, 160CC, 160CD, 160CE, 160CF, 160CG, 160CH, 160CI, 160CJ, 160CK, 160CL, 160CM, 160CN, 160CO, 160CP, 160CQ, 160CR, 160CS, 160CT, 160CU, 160CV, 160CW, 160CX, 160CY, 160CZ, 160DA, 160DB, 160DC, 160DD, 160DE, 160DF, 160DG, 160DH, 160DI, 160DJ, 160DK, 160DL, 160DM, 160DN, 160DO, 160DP, 160DQ, 160DR, 160DS, 160DT, 160DU, 160DV, 160DW, 160DX, 160DY, 160DZ, 160EA, 160EB, 160EC, 160ED, 160EE, 160EF, 160EG, 160EH, 160EI, 160EJ, 160EK, 160EL, 160EM, 160EN, 160EO, 160EP, 160EQ, 160ER, 160ES, 160ET, 160EU, 160EV, 160EW, 160EX, 160EY, 160EZ, 160FA, 160FB, 160FC, 160FD, 160FE, 160FF, 160FG, 160FH, 160FI, 160FJ, 160FK, 160FL, 160FM, 160FN, 160FO, 160FP, 160FQ, 160FR, 160FS, 160FT, 160FU, 160FV, 160FW, 160FX, 160FY, 160FZ, 160GA, 160GB, 160GC, 160GD, 160GE, 160GF, 160GG, 160GH, 160GI, 160GJ, 160GK, 160GL, 160GM, 160GN, 160GO, 160GP, 160GQ, 160GR, 160GS, 160GT, 160GU, 160GV, 160GW, 160GX, 160GY, 160GZ, 160HA, 160HB, 160HC, 160HD, 160HE, 160HF, 160HG, 160HH, 160HI, 160HJ, 160HK, 160HL, 160HM, 160HN, 160HO, 160HP, 160HQ, 160HR, 160HS, 160HT, 160HU, 160HV, 160HW, 160HX, 160HY, 160HZ, 160IA, 160IB, 160IC, 160ID, 160IE, 160IF, 160IG, 160IH, 160II, 160IJ, 160IK, 160IL, 160IM, 160IN, 160IO, 160IP, 160IQ, 160IR, 160IS, 160IT, 160IU, 160IV, 160IW, 160IX, 160IY, 160IZ, 160JA, 160JB, 160JC, 160JD, 160JE, 160JF, 160JG, 160JH, 160JI, 160JJ, 160JK, 160JL, 160JM, 160JN, 160JO, 160JP, 160JQ, 160JR, 160JS, 160JT, 160JU, 160JV, 160JW, 160JX, 160JY, 160JZ, 160KA, 160KB, 160KC, 160KD, 160KE, 160KF, 160KG, 160KH, 160KI, 160KJ, 160KK, 160KL, 160KM, 160KN, 160KO, 160KP, 160KQ, 160KR, 160KS, 160KT, 160KU, 160KV, 160KW, 160KX, 160KY, 160KZ, 160LA, 160LB, 160LC, 160LD, 160LE, 160LF, 160LG, 160LH, 160LI, 160LJ, 160LK, 160LL, 160LM, 160LN, 160LO, 160LP, 160LQ, 160LR, 160LS, 160LT, 160LU, 160LV, 160LW, 160LX, 160LY, 160LZ, 160MA, 160MB, 160MC, 160MD, 160ME, 160MF, 160MG, 160MH, 160MI, 160MJ, 160MK, 160ML, 160MN, 160MO, 160MP, 160MQ, 160MR, 160MS, 160MT, 160MU, 160MV, 160MW, 160MX, 160MY, 160MZ, 160NA, 160NB, 160NC, 160ND, 160NE, 160NF, 160NG, 160NH, 160NI, 160NJ, 160NK, 160NL, 160NM, 160NO, 160NP, 160NQ, 160NR, 160NS, 160NT, 160NU, 160NV, 160NW, 160NX, 160NY, 160NZ, 160OA, 160OB, 160OC, 160OD, 160OE, 160OF, 160OG, 160OH, 160OI, 160OJ, 160OK, 160OL, 160OM, 160ON, 160OO, 160OP, 160OQ, 160OR, 160OS, 160OT, 160OU, 160OV, 160OW, 160OX, 160OY, 160OZ, 160PA, 160PB, 160PC, 160PD, 160PE, 160PF, 160PG, 160PH, 160PI, 160PJ, 160PK, 160PL, 160PM, 160PN, 160PO, 160PP, 160PQ, 160PR, 160PS, 160PT, 160PU, 160PV, 160PW, 160PX, 160PY, 160PZ, 160QA, 160QB, 160QC, 160QD, 160QE, 160QF, 160QG, 160QH, 160QI, 160QJ, 160QK, 160QL, 160QM, 160QN, 160QO, 160QP, 160QQ, 160QR, 160QS, 160QT, 160QU, 160QV, 160QW, 160QX, 160QY, 160QZ, 160RA, 160RB, 160RC, 160RD, 160RE, 160RF, 160RG, 160RH, 160RI, 160RJ, 160RK, 160RL, 160RM, 160RN, 160RO, 160RP, 160RQ, 160RR, 160RS, 160RT, 160RU, 160RV, 160RW, 160RX, 160RY, 160RZ, 160SA, 160SB, 160SC, 160SD, 160SE, 160SF, 160SG, 160SH, 160SI, 160SJ, 160SK, 160SL, 160SM, 160SN, 160SO, 160SP, 160SQ, 160SR, 160SS, 160ST, 160SU, 160SV, 160SW, 160SX, 160SY, 160SZ, 160TA, 160TB, 160TC, 160TD, 160TE, 160TF, 160TG, 160TH, 160TI, 160TJ, 160TK, 160TL, 160TM, 160TN, 160TO, 160TP, 160TQ, 160TR, 160TS, 160TT, 160TU, 160TV, 160TW, 160TX, 160TY, 160TZ, 160UA, 160UB, 160UC, 160UD, 160UE, 160UF, 160UG, 160UH, 160UI, 160UJ, 160UK, 160UL, 160UM, 160UN, 160UO, 160UP, 160UQ, 160UR, 160US, 160UT, 160UU, 160UV, 160UW, 160UX, 160UY, 160UZ, 160VA, 160VB, 160VC, 160VD, 160VE, 160VF, 160VG, 160VH, 160VI, 160VJ, 160VK, 160VL, 160VM, 160VN, 160VO, 160VP, 160VQ, 160VR, 160VS, 160VT, 160VU, 160VV, 160VW, 160VX, 160VY, 160VZ, 160WA, 160WB, 160WC, 160WD, 160WE, 160WF, 160WG, 160WH, 160WI, 160WJ, 160WK, 160WL, 160WM, 160WN, 160WO, 160WP, 160WQ, 160WR, 160WS, 160WT, 160WU, 160WV, 160WW, 160WX, 160WY, 160WZ, 160XA, 160XB, 160XC, 160XD, 160XE, 160XF, 160XG, 160XH, 160XI, 160XJ, 160XK, 160XL, 160XM, 160XN, 160XO, 160XP, 160XQ, 160XR, 160XS, 160XT, 160XU, 160XV, 160XW, 160XX, 160XY, 160XZ, 160YA, 160YB, 160YC, 160YD, 160YE, 160YF, 160YG, 160YH, 160YI, 160YJ, 160YK, 160YL, 160YM, 160YN, 160YO, 160YP, 160YQ, 160YR, 160YS, 160YT, 160YU, 160YV, 160YW, 160YX, 160YY, 160YZ, 160ZA, 160ZB, 160ZC, 160ZD, 160ZE, 160ZF, 160ZG, 160ZH, 160ZI, 160ZJ, 160ZK, 160ZL, 160ZM, 160ZN, 160ZO, 160ZP, 160ZQ, 160ZR, 160ZS, 160ZT, 160ZU, 160ZV, 160ZW, 160ZX, 160ZY, 160ZZ

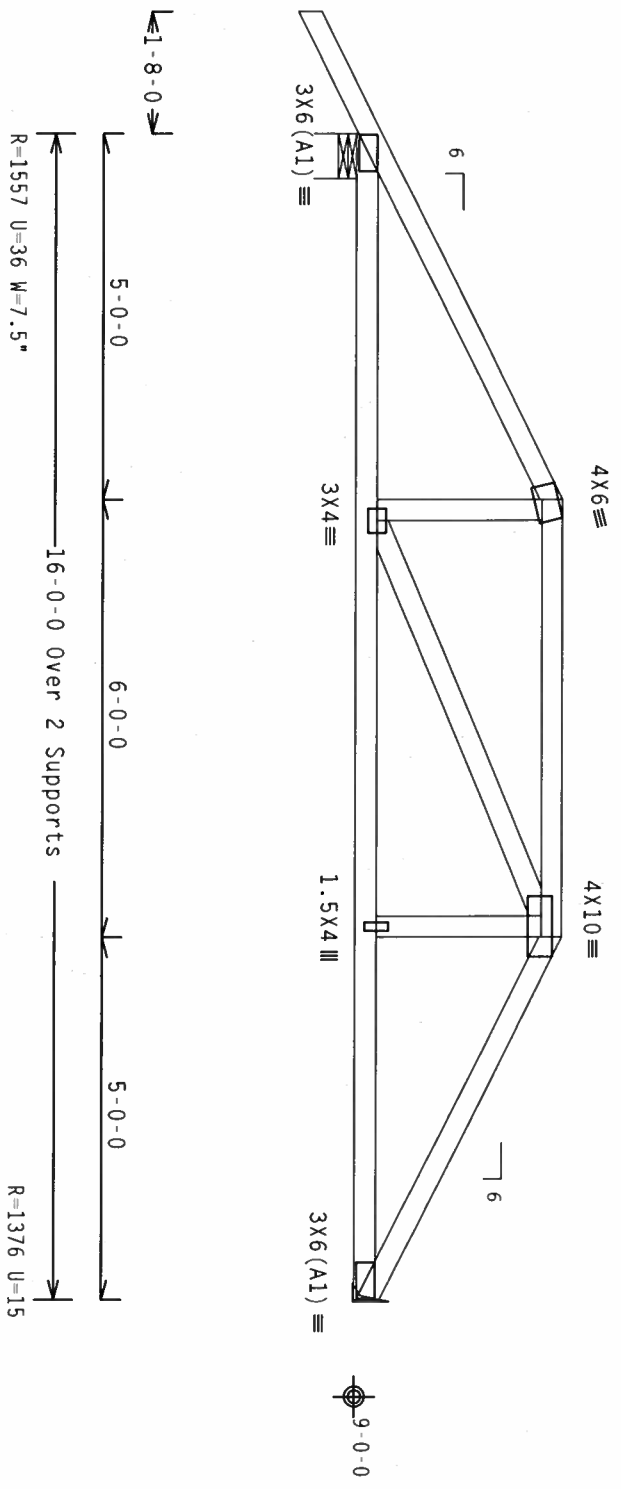
**ARTHUR R. FISHER**  
 No. 59687  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 MA 12/07

TC LL	30.0 PSF	REF	R8228- 40064
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141001
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24941
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

Wind reactions based on MWFRS pressures.  
 #1 hip supports 5-0-0 jacks with no webs.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf, W=1.00 Gcpl(+/-)=0.18  
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

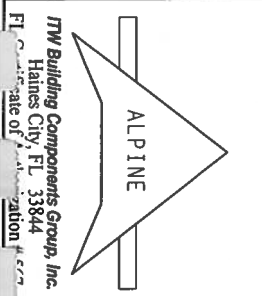


PLT TYP. Wave

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

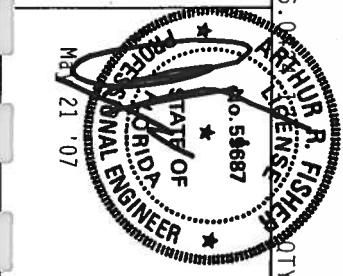
QTY: 1

Scale = .375"/ft.



**IMPORTANT** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING PRACTICES FOR SAFE LIFTING AND BRACING. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND IBCA (WOOD TRUSS COUNCIL OF AMERICA) ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE 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 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 AF&PA) AND TPI. MATERIALS TO BE USED SHALL BE AS SPECIFIED. UNLESS OTHERWISE INDICATED, ALL TRUSS MEMBERS SHALL BE MADE OF 20/18/16GA (Q/H/SS) ASTM A653 GRADE 40/60 (Q, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 160B AND 160C. ALL TRUSSES SHALL BE PROTECTED BY AN APPROVED FIRE RESISTANT MATERIAL. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	30.0 PSF	REF	R8228-40065
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141002
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24944
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

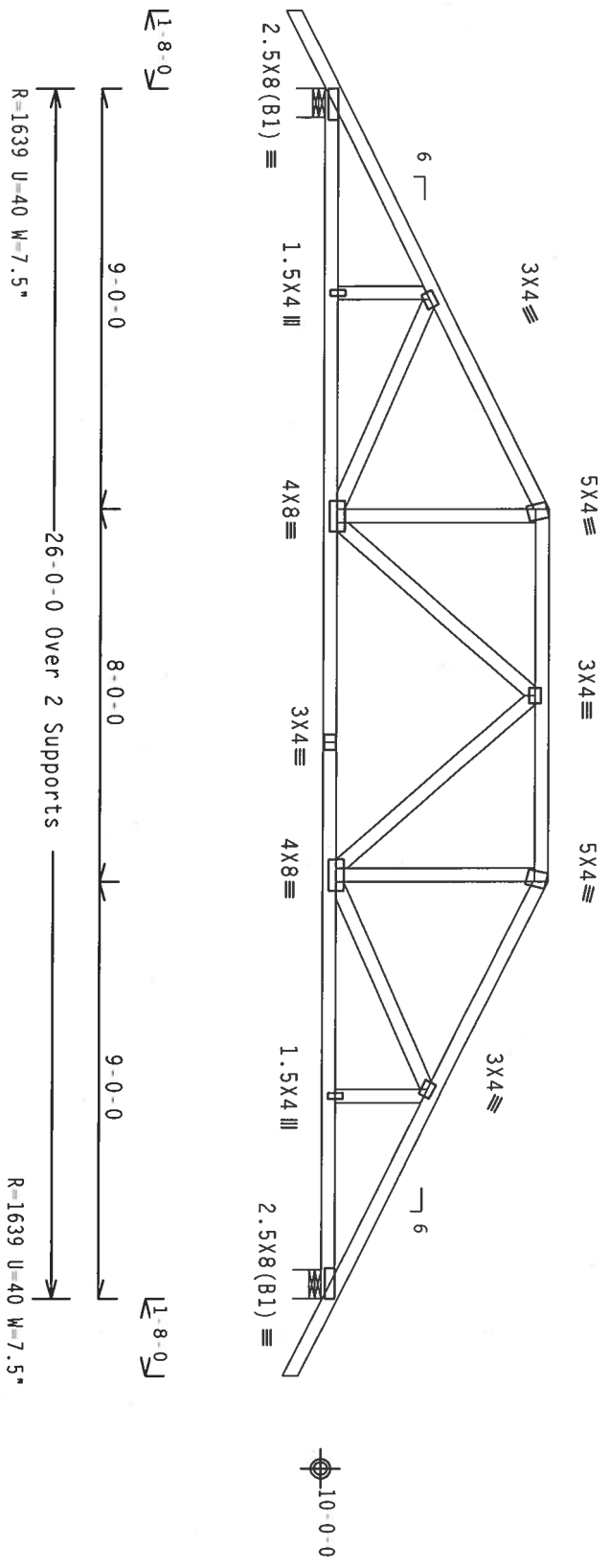
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$

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



PLT TYP. Wave

Design Cr1t: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10.0)

7.36

QTY: 1

Scale = .25" / Ft.

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (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 TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

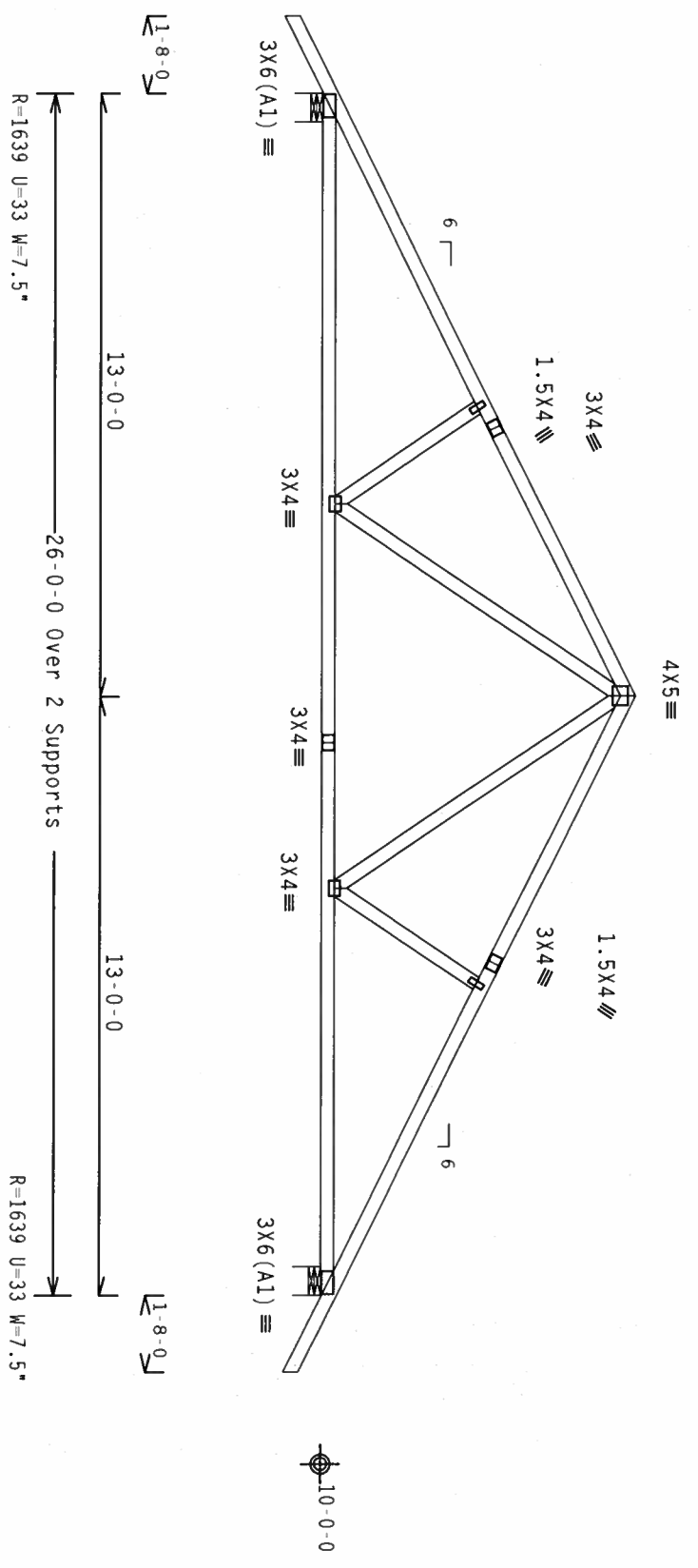
DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG PROMOTES THE USE OF 2018/180A (K1/55K) ASH 4053 GRADE 40760 (K1/55) GALV. STEEL. APPLY PROTECTIVE COATING TO EACH FACE OF ALL TRUSS MEMBERS. ALL TRUSS MEMBERS SHALL BE PERMANENTLY IDENTIFIED BY MARKING OR 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	30.0 PSF	REF	R8228-40066
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141012
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	24544
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02



Wind reactions based on MWFRS pressures.

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=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$   
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

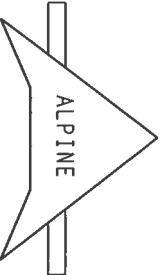
7.36.04

FL/-/4/-/R/-

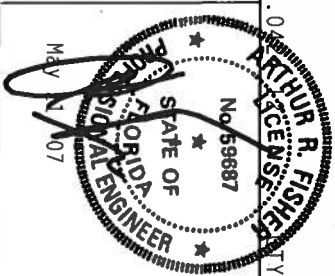
Scale = .25"/ft.

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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, BY AERPA) AND TPI. DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. DESIGN FOR PLATES MADE OF 20/18/1600 (E/W/S/S/A) ASH A853 GRADE 40/80 (W, K/P/151) GALV. STEEL. APPLY DESIGNER'S PLATES MADE OF 20/18/1600 (E/W/S/S/A) ASH A853 GRADE 40/80 (W, K/P/151) GALV. STEEL. APPLY DESIGNER'S PLATES MADE OF 20/18/1600 (E/W/S/S/A) ASH A853 GRADE 40/80 (W, K/P/151) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT DESIGNER. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT 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  
 PLT TYP. Wave of a truss



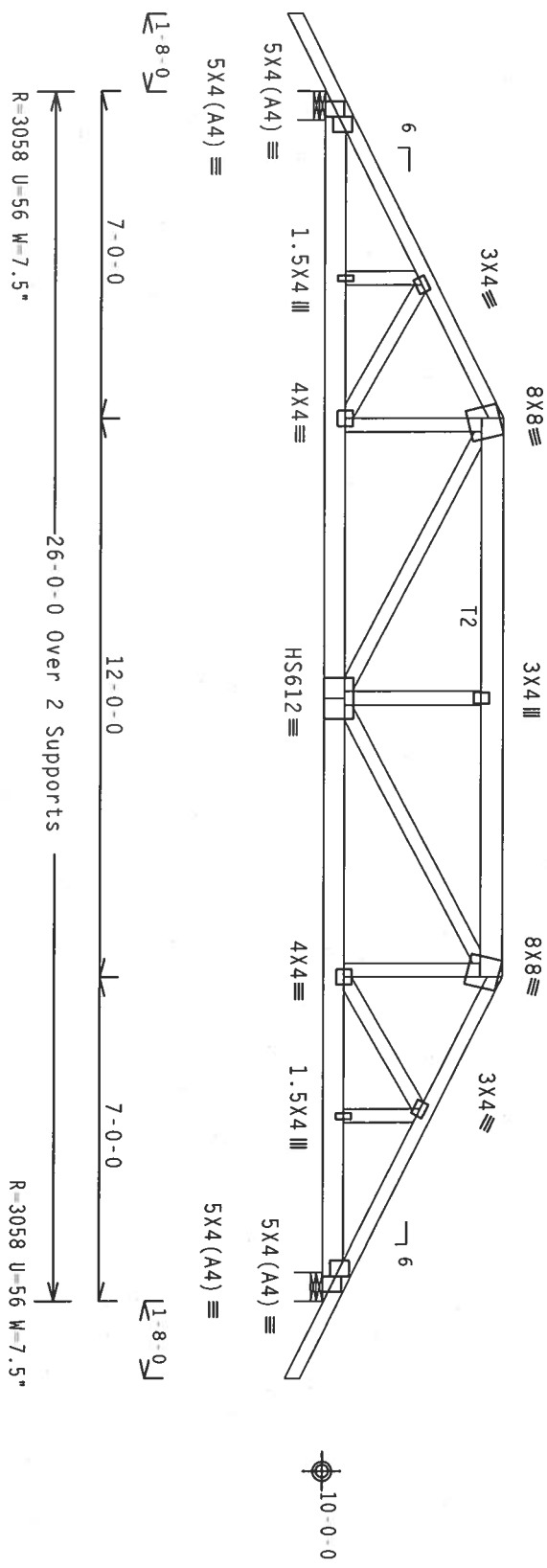
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUR8228 07141022
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	24565
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	DREF-	1T738228202

Top chord 2x4 SP #2 Dense : T2 2x6 SP #2:  
 Bot chord 2x6 SP #2  
 Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.  
 #1 hip supports 7-0-0 jacks with no webs.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$

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



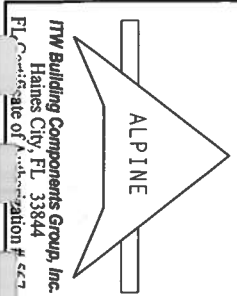
PLT TYP. 20 Gauge HS,Wave

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

7.36.04

FL/-/4/-/R/-

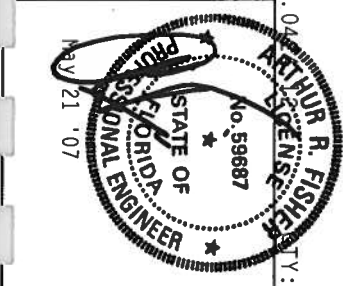
Scale = .25"/ft.



**TTW Building Components Group, Inc.**  
 Haines City, FL 33844  
 PL-2002-04-11-07-07

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI TRUSS COUNCIL OF AMERICA, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6300 EMERPISE 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. THE 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. DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF MOST NATIONAL DESIGN SPEC. BY ACPA) AND TPI. THE BCG DESIGNER'S NAME AND ADDRESS: 20/19/1806 N.W. 31/5534) ASTH A663 GRADE 40/80 (W. A/R/SS) GALV. STEEL. APPLY TO E-COLTS AND ANCHORS. 20/19/1806 N.W. 31/5534) ASTH A663 GRADE 40/80 (W. A/R/SS) GALV. STEEL. APPLY TO E-COLTS AND ANCHORS. ANY INSPECTION OF PLATES FOLLOWS BY TPI SHALL BE RECALLED ON THIS DESIGN, POSITION PER DRAWINGS 160N.2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY 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	30.0 PSF	REF	R8228- 40069
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUR8228 07141059
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	25069
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

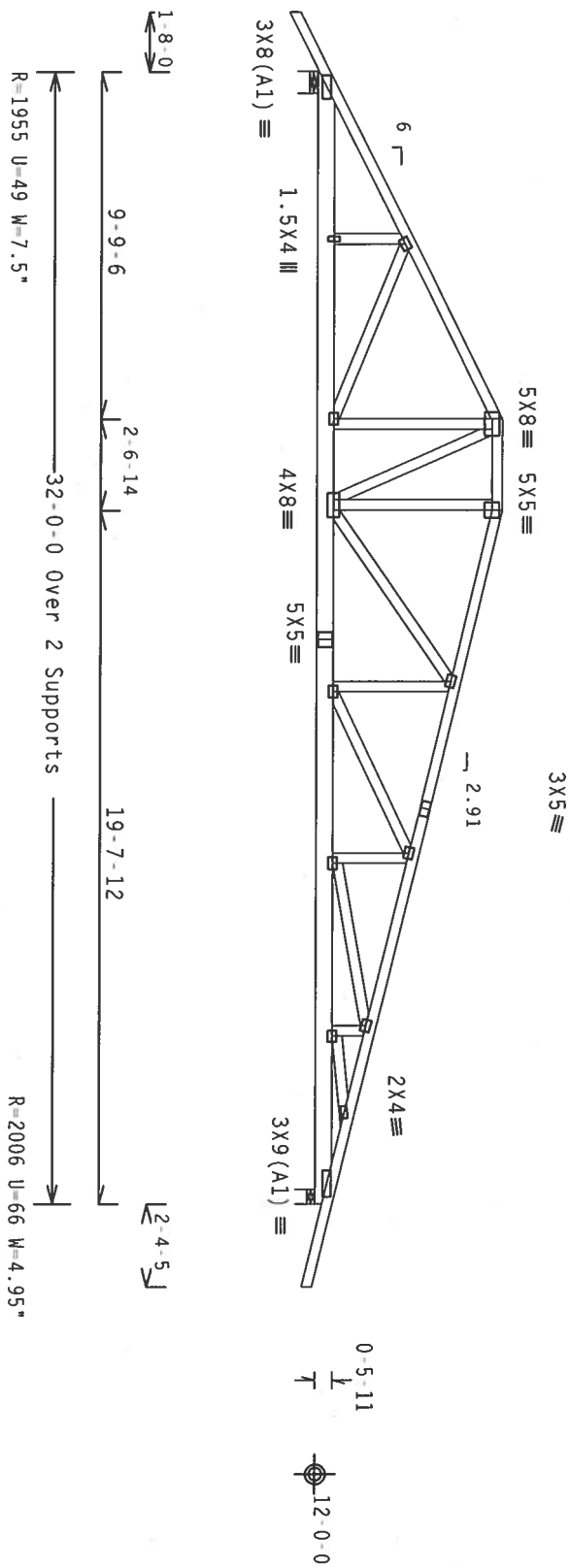
Top Chord 2x4 SP #2 Dense  
 Bot chord 2x6 SP #2  
 Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. IW=1.00 Gcpl(+/-)=0.18

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



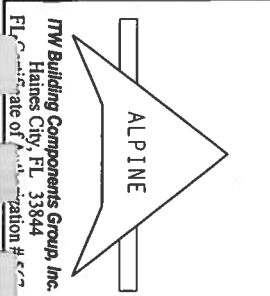
Note: All Plates Are 3X4 Except As Shown.  
 Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

ARTHUR R. FISHER  
 No. 58687  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

FL/-/4/-/R/-

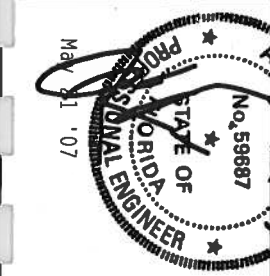
Scale = .1875" / Ft.



**ITW Building Components Group, Inc.**  
 Haines City, FL 33894  
 Registration # 577

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI. ALL TRUSS FABRICATORS MUST BE 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND NCA (WOOD TRUSS COUNCIL OF AMERICA), 53719 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 COMPLIANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. CONNECTION PLATES ARE MADE OF 20/18/18GA (W/A/SS/K) ASTM A653 GRADE 40/60 (W/ K/H/SS) GALV. STEEL. APPLY PLATES SPECIFIC TO THIS DESIGN. ALL TRUSSES AND CONNECTIONS SHALL BE PERMANENTLY IDENTIFIED WITH A SEAL OR THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	30.0 PSF	REF	R8228-40070
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141028
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	24571
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	REF-	177J8228202



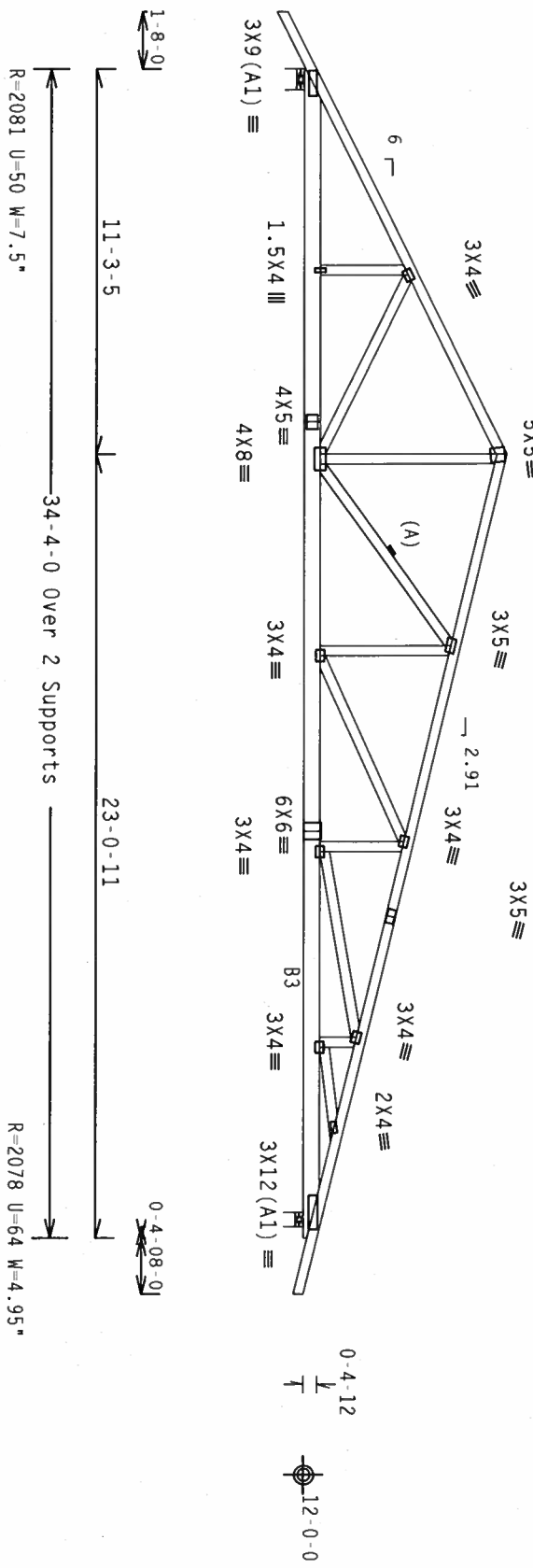
Top Chord 2x4 SP #2 Dense  
 Bot Chord 2x6 SP #2 :B3 2x6 SP #1 Dense:  
 Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, Wind BC DL=5.0 psf. Iw=1.00 Gcpl (+/-)=0.18

(A) Continuous lateral bracing equally spaced on member.



PLT TYP. Wave

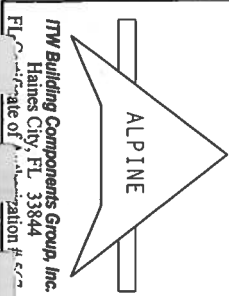
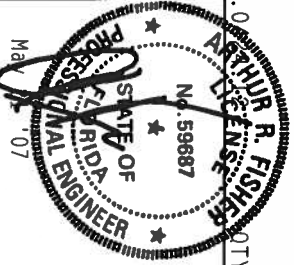
Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.36.0

FL/-/4/-/R/-

Scale = .1875" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI GUIDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI. (TRUSS PLATE INSTITUTE, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 600 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (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 LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 10GA 2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER. AS OF TP11-2002 SEC.3. A SEAL ON THIS PLATE IS THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN. THIS SEAL INDICATES THE DESIGN OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
 Haines City, FL 33844  
 FL State of Registration # 577

TC LL	30.0 PSF	REF	R8228-40071
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141029
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	24591
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	REF-	17J8228202

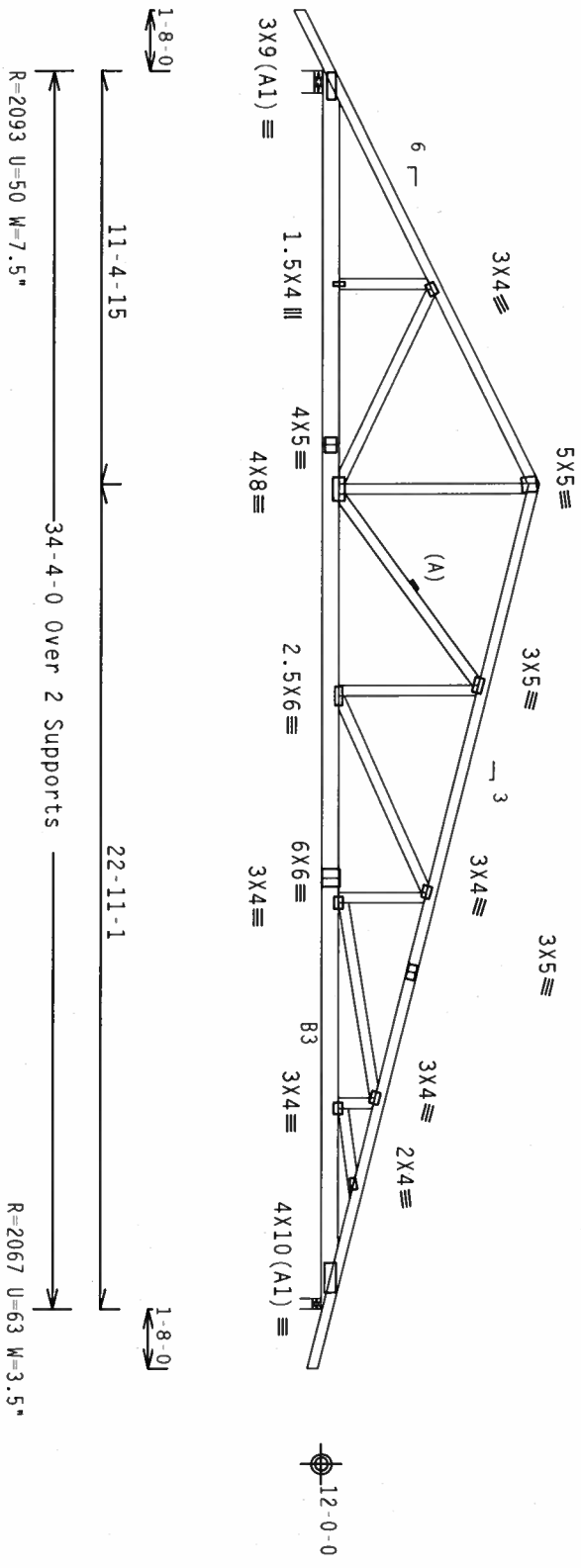
Top chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #2 :B3 2x6 SP #1 Dense:  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$  Gcpl(+/-)=0.18

(A) Continuous lateral bracing equally spaced on member.



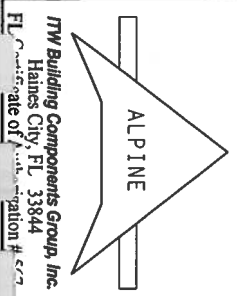
PLT TYP. Wave

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

7.36.04

FL/-/4/-/R/-

Scale = .1875"/ft.

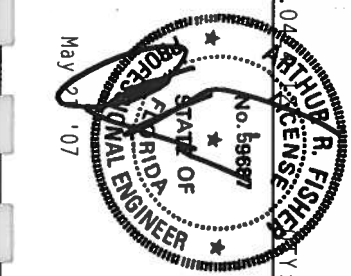


**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL State of Registration # 577

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DC31 BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 219 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6900 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 20/19/18GA (4.8/4.5/3.8) ASTM A653 GRADE 40/60 (M, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 180A-Z. ALL CONNECTIONS SHALL BE PER ANNEA 33 OF TPI 2002 SEC.3.3. DRAMAING ENGINEER SHALL BE RESPONSIBLE FOR THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141030
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24602
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

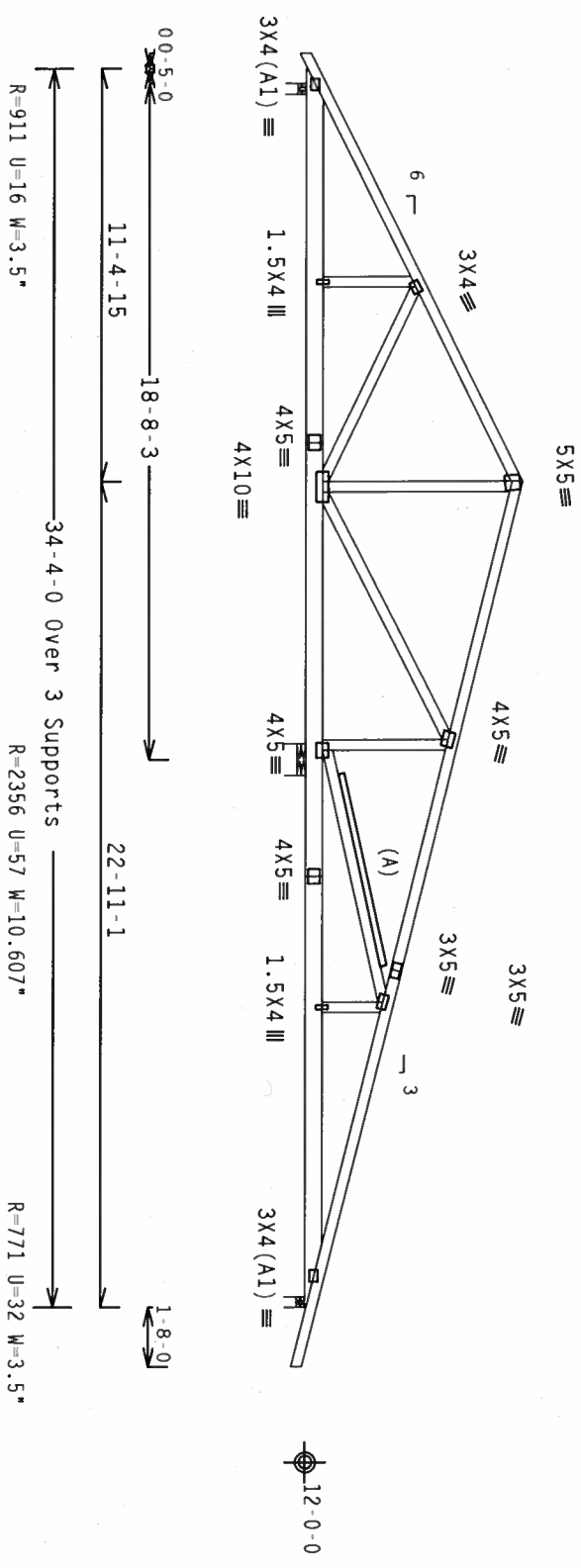
Top chord 2x4 SP #2 Dense  
 Bot chord 2x6 SP #2  
 Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, Wind TC DL=7.5 psf, Wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18

(A) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.



PLT TYP. Wave

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

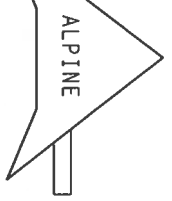
7.36.00

FL/-/4/-/R/-

Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. TYP. BCG CONNECTION PLATES ARE MADE OF 20/18/18GA (W/H/SS) ASTM A653 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF ROSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16DA, 2, 16DB, 2, 16DC, 2, 16DD, 2, 16DE, 2, 16DF, 2, 16DG, 2, 16DH, 2, 16DI, 2, 16DJ, 2, 16DK, 2, 16DL, 2, 16DM, 2, 16DN, 2, 16DO, 2, 16DP, 2, 16DQ, 2, 16DR, 2, 16DS, 2, 16DT, 2, 16DU, 2, 16DV, 2, 16DW, 2, 16DX, 2, 16DY, 2, 16DZ, 2. UNLESS OTHERWISE INDICATED THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Registration # 577

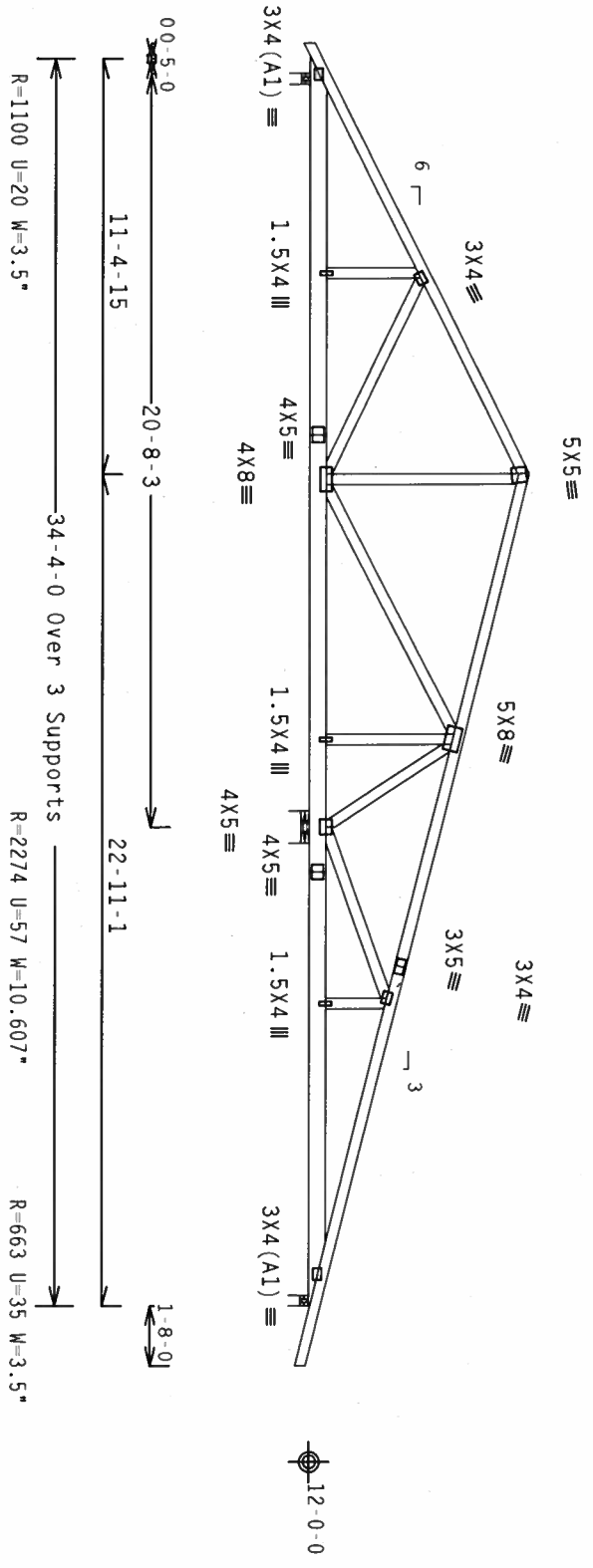


TC LL	30.0 PSF	REF R8228-40073
TC DL	15.0 PSF	DATE 05/21/07
BC DL	10.0 PSF	DRW HCUR8228 07141047
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	55.0 PSF	SEON- 24613
DUR. FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 117J8228Z02

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

Wind reactions based on MMFRS pressures.

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=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

FL/-/4/-/R/-

Scale = .1875"/Ft.

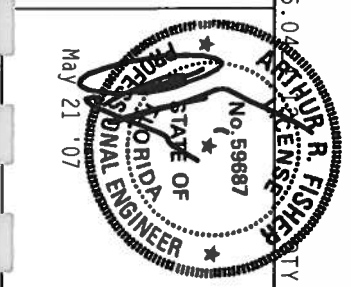
**ALPINE**

**ITW Building Components Group, Inc.**  
 Haines City, FL 33844  
 Florida State of Authorization # 577

**\*\*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 (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. REFER TO BCSTI (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.

CONNECTION PLATES ARE MADE OF 20/10/18GA (W/35X1) ASTM A653 GRADE 40/60 (W, R/H, S5) GALV. STEEL. APPLY TO ALL TRUSS MEMBERS PER CHORD OR PER SECTION, SECTION PER DRAWINGS. IOWA 2010. ANY INSPECTION OF PLATES REQUIRED BY THE INSPECTOR SHALL BE PERFORMED BY THE TRUSS COMPONENT DESIGNER. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY 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	30.0 PSF	REF	R8228- 40074
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141037
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24649
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	REF-	177J8228Z02

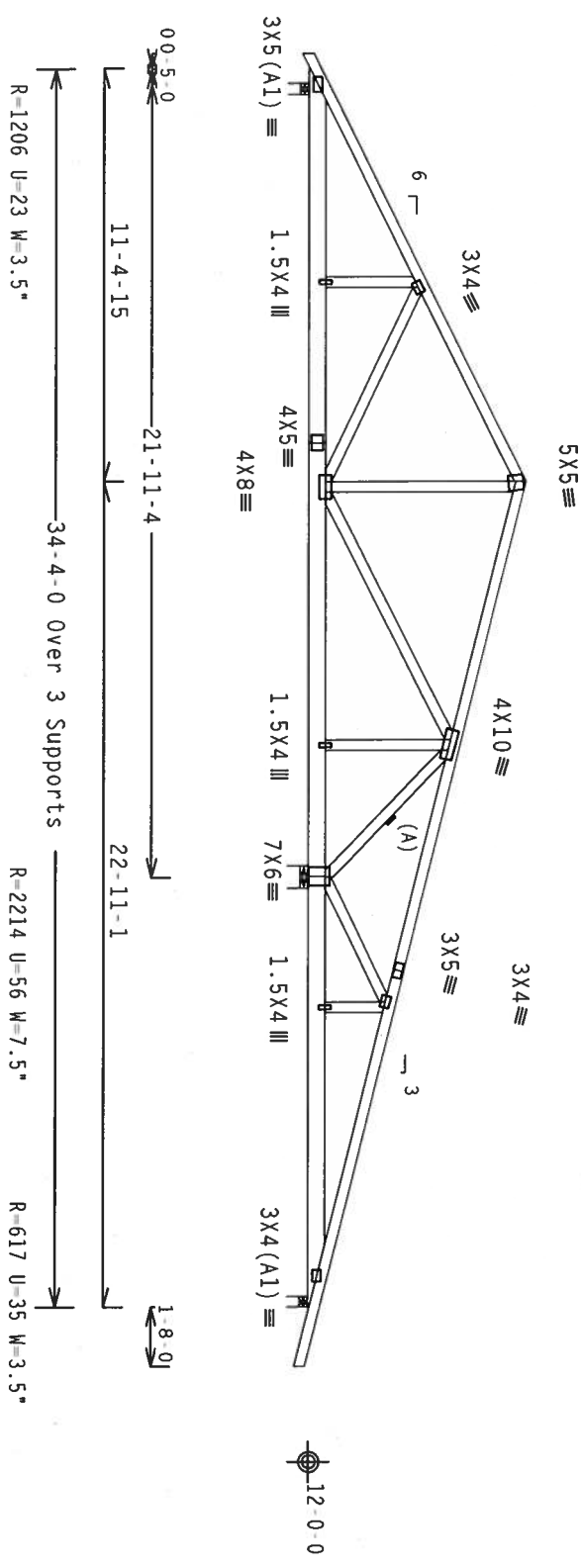
Top chord 2x4 SP #2 Dense  
 Bot chord 2x6 SP #2  
 Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

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=7.5 psf, Wind BC DL=5.0 psf.  $I_w=1.00$  Gcpl (+/-)=0.18

(A) Continuous lateral bracing equally spaced on member.



PLT TYP. Wave

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

7-36

FL/-/4/-/R/-

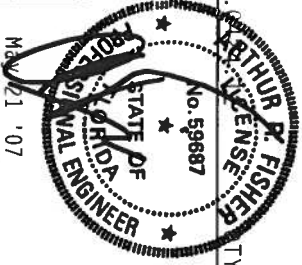
Scale = .1875"/Ft.

**ALPINE**

**ITW Building Components Group, Inc.**  
 Haines City, FL 33844  
 Florida State Registration # 647

**\*\*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 NCA (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. BY AFBA) AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFBA) AND TPI. CONNECTION PLATES ARE MADE OF 20/210/180A (W/ASST) ASTM A663 GRADE 40/60 (W/ R/HS) GALV. STEEL. TYP. BCG CONSTRUCTION AND SAFETY PRACTICES SHOULD BE OBSERVED ON THIS DESIGN. SECTION PER DRAWINGS JOHN Z. ANY INSPECTION AND ACCEPTANCE SHOULD BE OBTAINED FROM THE DESIGNER PRIOR TO THE TRUSS COMPONENTS 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.



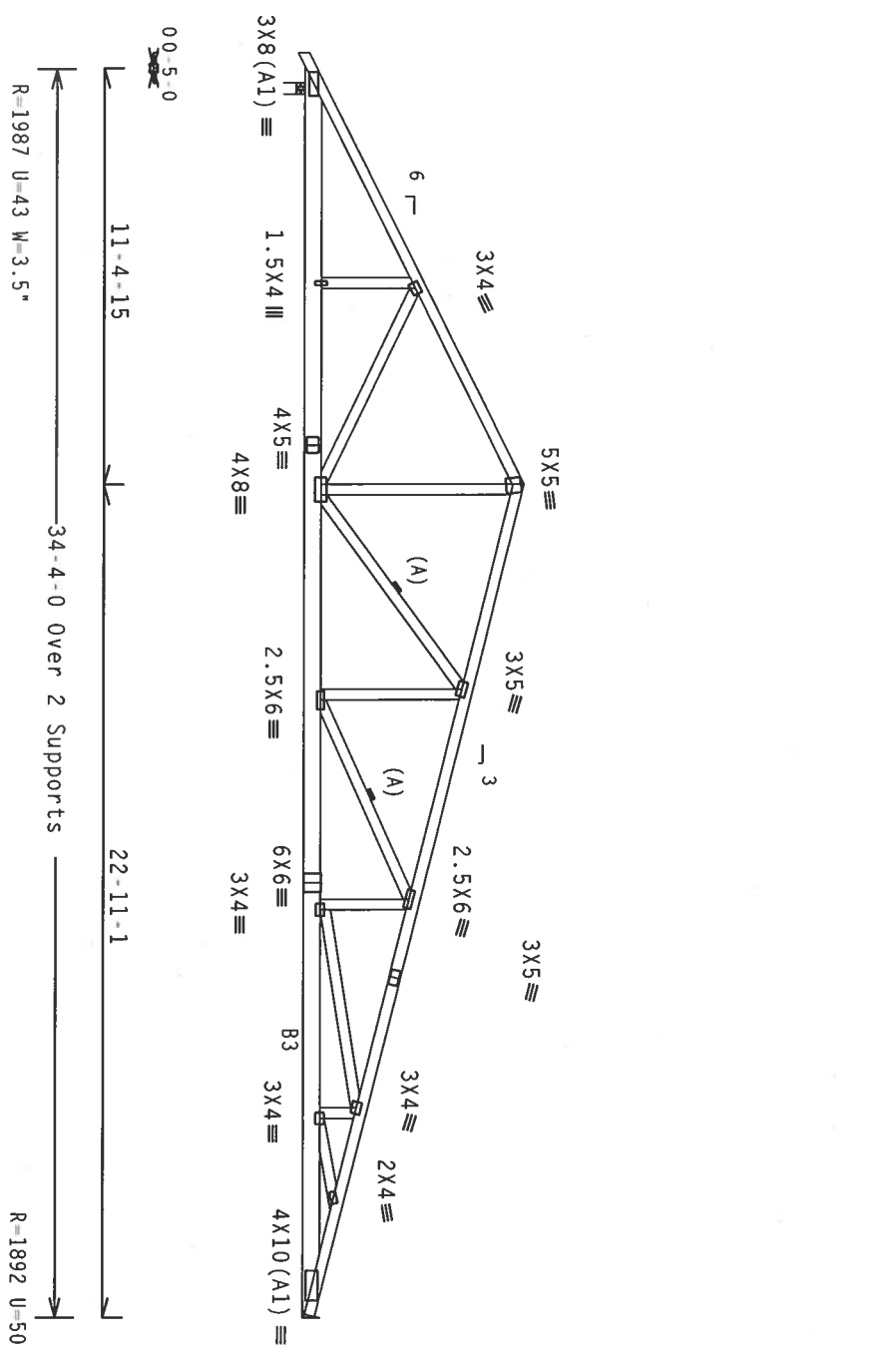
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141039
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24645
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	REF-	117J8228Z02

Top chord 2x4 SP #2 Dense  
 Bot chord 2x6 SP #2 : B3 2x6 SP #1 Dense:  
 Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

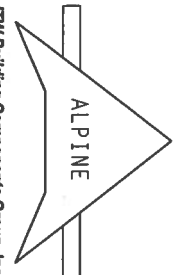
110 mph wind, 15.10 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf. 1w=1.00 Gcpl(+/-)=0.18  
 (A) Continuous lateral bracing equally spaced on member.



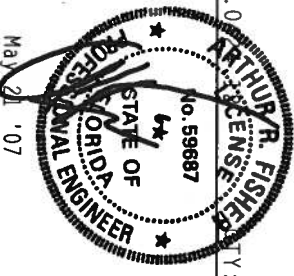
PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.36.0  
 Scale = .1875"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC'S BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS SYSTEMS, INC., 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6100 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. TTM BCG CONNECTION PLATES ARE MADE OF 2018/180A (U/H/SS/K) ASTM A653 GRADE 40/60 (Q, K/H/SS) GALV. STEEL. APPLY FLANGES SPECIFIC TO EACH FACE OF MASS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 180A-2. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. THE DESIGNER'S RESPONSIBILITY IS TO VERIFY THE TRUSS COMPONENTS 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.



TTM Building Components Group, Inc.  
 Haines City, FL 33844  
 FL State of Registration # 577



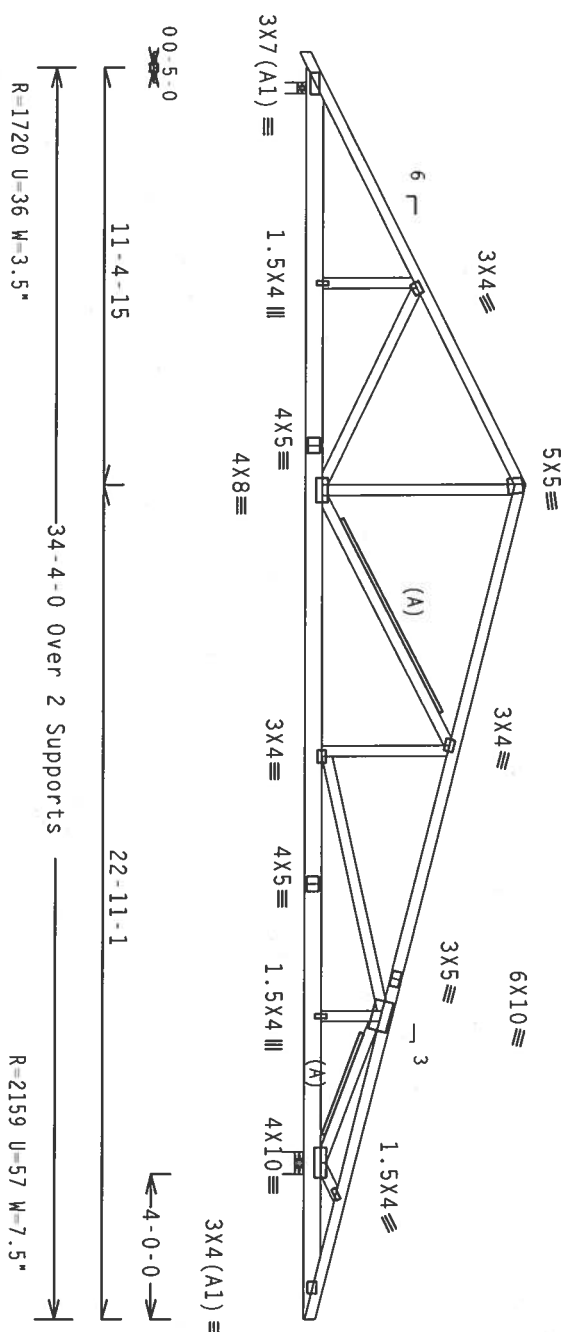
FL/4/-/R/-	Scale = .1875"/Ft.		
TC LL	30.0 PSF	REF	R8228 - 40076
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141043
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24641
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	REF-	177J8228Z02

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

Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.10 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$  Gcpl(+/-)=0.18  
(A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.



PLT TYP. Wave

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

7.36

PLTY: 1

Scale = .1875"/ft.

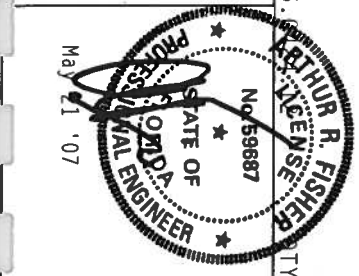
**ALPINE**

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL State Registration # 567

**\*\*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, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND NCA (NOD 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 AIAA) AND TPI. ITW BCG CONDUCTOR PLATES ARE MADE OF 20/19/18GA (0.0153/0.0153/0.0153) ASH 6053 GRADE 40/60 (K, K/H/SS) GALV. STEEL. APPLY PROTECTIVE PAINT TO ALL EXPOSED SURFACES. THE DESIGNER SHALL BE RESPONSIBLE FOR THE TRUSS COMPANY'S DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPANY'S DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	30.0 PSF	REF	R8228 - 40077
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141045
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24637
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	177J8228Z02

Top chord 2x4 SP #2 Dense :T2 2x6 SP #2:  
 Bot chord 2x8 SP #1 Dense  
 Webs 2x4 SP #3

SPECIAL LOADS  
 -----(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	94 PLF at -1.67 to	94 PLF at 7.78
TC - From	91 PLF at 7.78 to	91 PLF at 14.48
TC - From	91 PLF at 14.48 to	91 PLF at 32.36
BC - From	4 PLF at -1.67 to	4 PLF at 0.00
BC - From	20 PLF at 0.00 to	20 PLF at 30.00
BC - From	4 PLF at 30.00 to	4 PLF at 32.36
TC -	406 LB Conc. Load at	7.85
TC -	288 LB Conc. Load at	9.85, 11.85, 13.85
TC -	65 LB Conc. Load at	15.85
TC -	125 LB Conc. Load at	17.85
TC -	207 LB Conc. Load at	19.85
BC -	542 LB Conc. Load at	7.78
BC -	90 LB Conc. Load at	9.85, 11.85, 13.85
BC -	439 LB Conc. Load at	15.85
BC -	247 LB Conc. Load at	17.85
BC -	360 LB Conc. Load at	19.85
BC -	343 LB Conc. Load at	20.41
BC -	217 LB Conc. Load at	23.33
BC -	72 LB Conc. Load at	26.24

## 2 COMPLETE TRUSSES REQUIRED

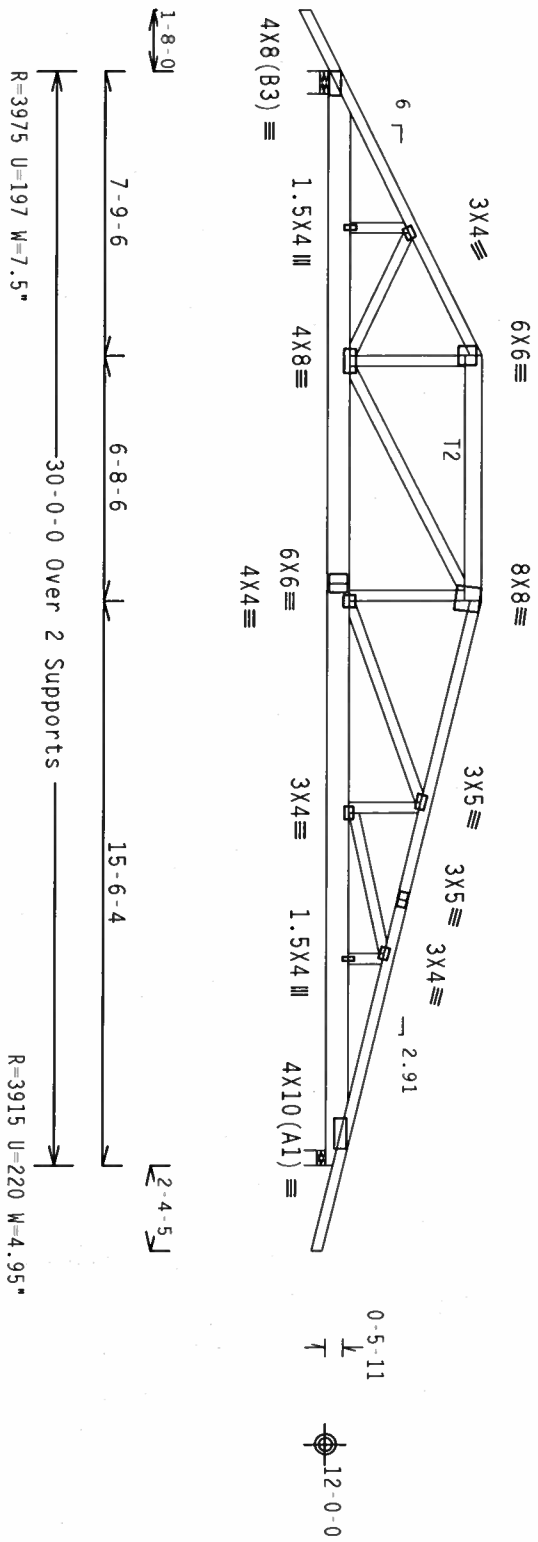
Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 1 Row @12.00" o.c.  
 Webs : 1 Row @ 4" o.c.  
 Use equal spacing between rows and stagger nails  
 in each row to avoid splitting.

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=7.5 psf, wind  
 BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

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

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



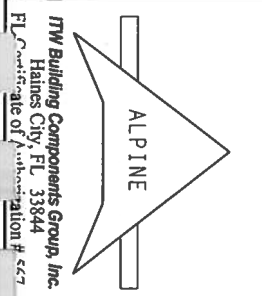
PLT TYP. Wave

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

7.31.10

FL/-/4/-/R/-

Scale = .1875"/ft.

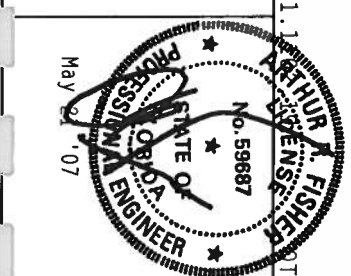


**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 20/10/18GA (W/H/SS/RS) ASH 40260 (W, R/H/SS) GALV. STEEL. APPLY PROVISIONS OF AISC 360-10 (W/H/SS/RS) ASH 40260 (W, R/H/SS) GALV. STEEL. APPLY PROVISIONS OF AISC 360-10 (W/H/SS/RS) ASH 40260 (W, R/H/SS) GALV. STEEL.

ANY INSPECTION OF PLATES PER AISC 360-10 (W/H/SS/RS) ASH 40260 (W, R/H/SS) GALV. STEEL. THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	30.0 PSF	REF	R8228 - 40078
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141044
BC LL	0.0 PSF	HC-ENG	RA/AF
TOT.LD.	55.0 PSF	SEON-	6335 REV
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02



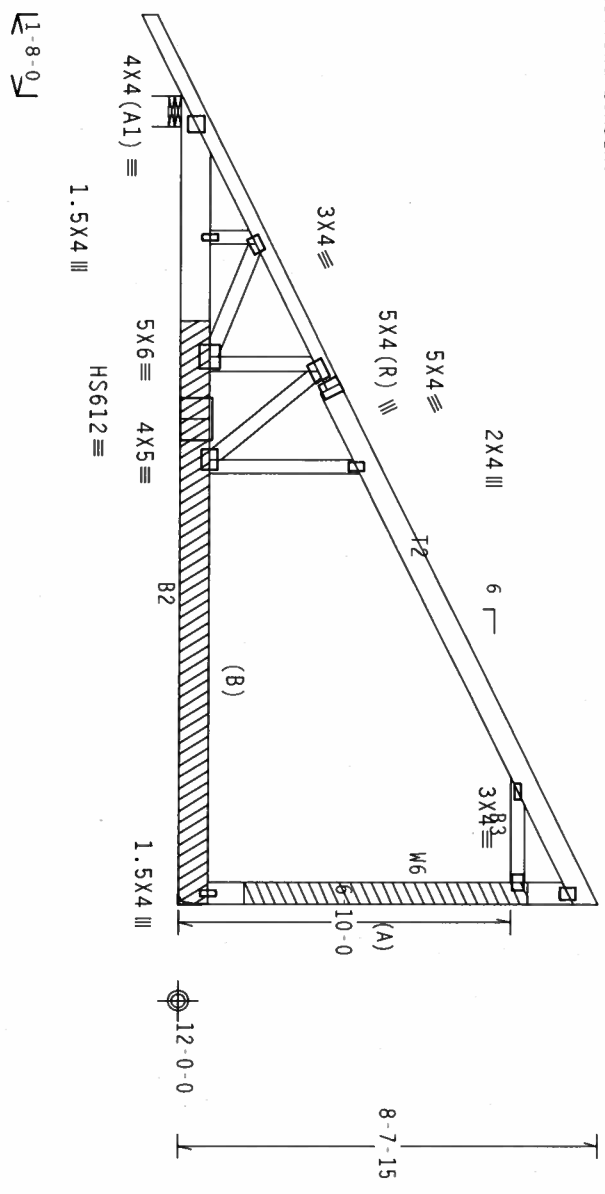
Top chord 2x4 SP #2 Dense : T2 2x6 SP #1 Dense:  
 Bot chord 2x8 SP #1 Dense : B2 2x8 SP SS:  
 B3 2x4 SP #2 Dense:  
 Webs 2x4 SP #3 : W6 2x6 SP #2:

**SPECIAL LOADS**  
 (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
 TC - From 94 PLF at -1.67 to 94 PLF at 5.89  
 TC - From 94 PLF at 5.89 to 94 PLF at 16.63  
 BC - From 4 PLF at -1.67 to 4 PLF at 0.00  
 BC - From 20 PLF at 0.00 to 20 PLF at 6.63  
 BC - From 20 PLF at 6.63 to 20 PLF at 7.75  
 BC - From 70 PLF at 7.75 to 70 PLF at 16.17  
 BC - From 20 PLF at 16.17 to 20 PLF at 16.63

(B) (1) 2X8X 12-0-0 SP#1 DENSE SCAB: ATTACH TO ONE FACE OF TRUSS WITH (2) 10d COMMON(0.148"x3.0") NAILS IN EACH MEMBER COVERED WITHOUT SPLITTING LUMBER.

\*\* The maximum horizontal reaction is 378# \*\*  
 110 mph wind, 16.09 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, Wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
 Wind reactions based on MMFRS pressures.  
 Right end reactions not exposed to wind pressure.  
 Calculated horizontal deflection is 0.23" due to live load and 0.44" due to dead load.

(A) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" OC.



PLT TYP. 20 Gauge HS,Wave

Design Cmt: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.36

Scale = .25"/ft.

REF R8228- 40079

**ALPINE**

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENTS GROUP, INC. 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND WICK HOOK TRUSS COMPANY, 100 ENTERPRISE LANE, MADISON, WI, 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

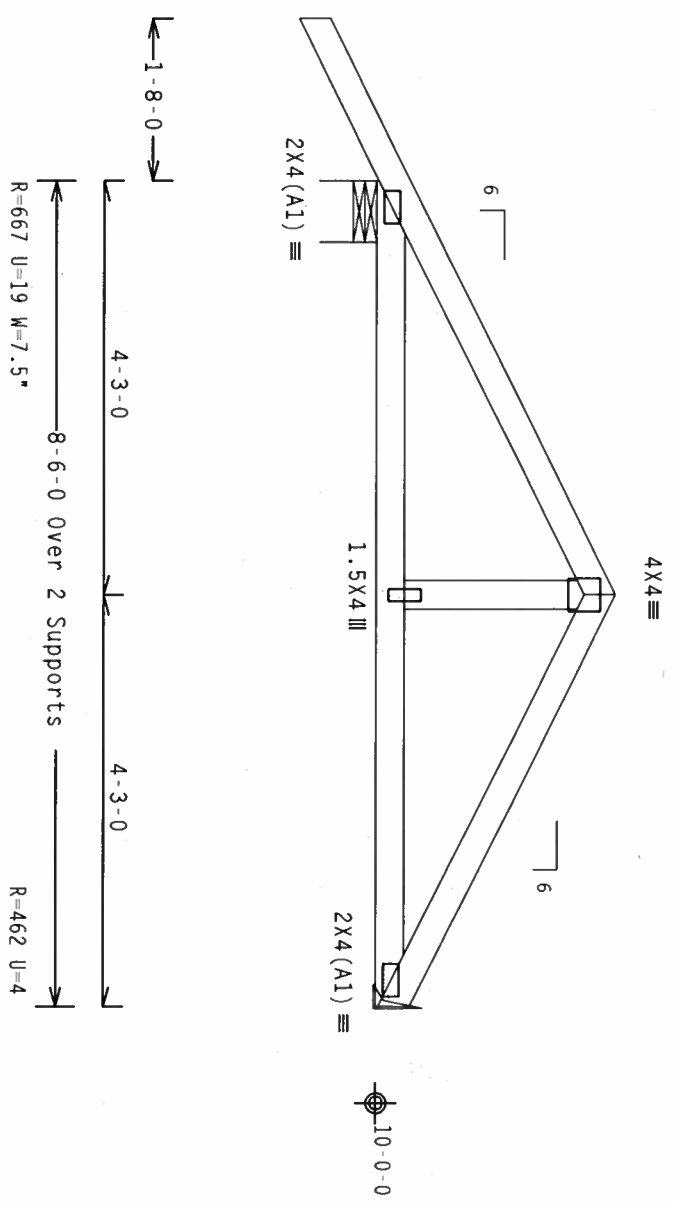
**KATHUR R. FISHER**  
 No. 59687  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 May 21 07

TC LL	30.0 PSF	REF	R8228- 40079
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141081
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24527
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7JR228Z02

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

Wind reactions based on MMFRS pressures.

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=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$   
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

7.36.0

TY:1 FL/-/4/-/R/-

Scale = .5"/ft.

**ALPINE**

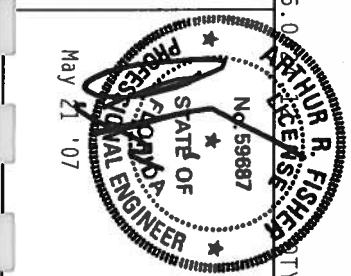
TTW Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Authorization # 647

**\*\*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. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI.

CONNECTION PLATES ARE MADE OF 20/18/18GA (W/H/SS)K1 ASH 4853 GRADE 40/60 (W, R/H/SS) GALV. STEEL. TITW BCG SHALL BE RESPONSIBLE FOR THE PROPER CONNECTIONS TO BE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 180A 2. ANY INSPECTION NOTES AND REVISEMENTS SHALL BE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 180A 2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. FOR THE TRUSS DESIGNER OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



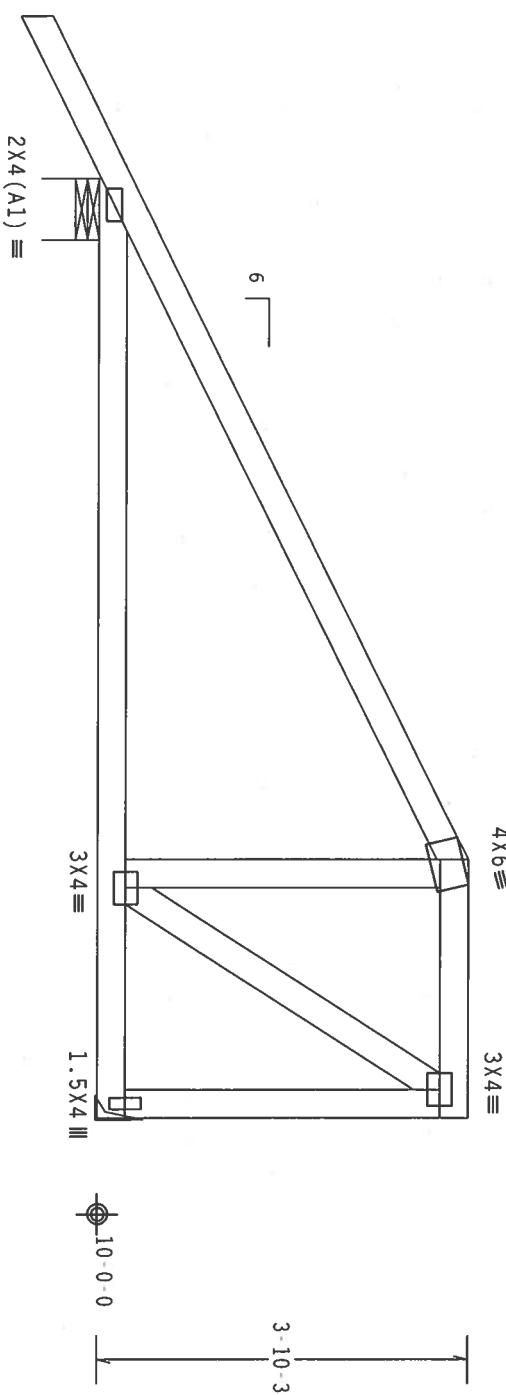
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141066
BC LL	0.0 PSF	HC-ENG	JB/JAF
TOT.LD.	55.0 PSF	SEQN-	24698
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	17J8228Z02

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

Wind reactions based on MWFRS pressures.

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

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=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi (+/-)=0.18  
 Right end vertical not exposed to wind pressure.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

QTY: 1

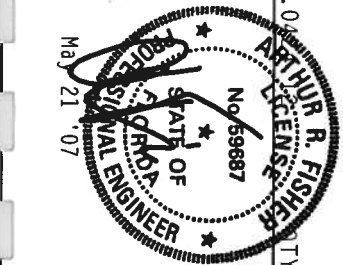
Scale = .5" / Ft.

**ALPINE**

**ITW Building Components Group, Inc.**  
 Haines City, FL 33844  
 FL Certificate of Authorization # 527

**\*\*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 (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 THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO THE TRUSS MANUFACTURING INSTRUCTIONS FOR THE TRUSS TYPE AND GRADE. UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION PER DRAWING 180A, 2. ANY INSPECTION OF THE TRUSS AND BRACING SHALL BE CONDUCTED BY A QUALIFIED ENGINEER. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE SEAL ON THIS DRAWING 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.



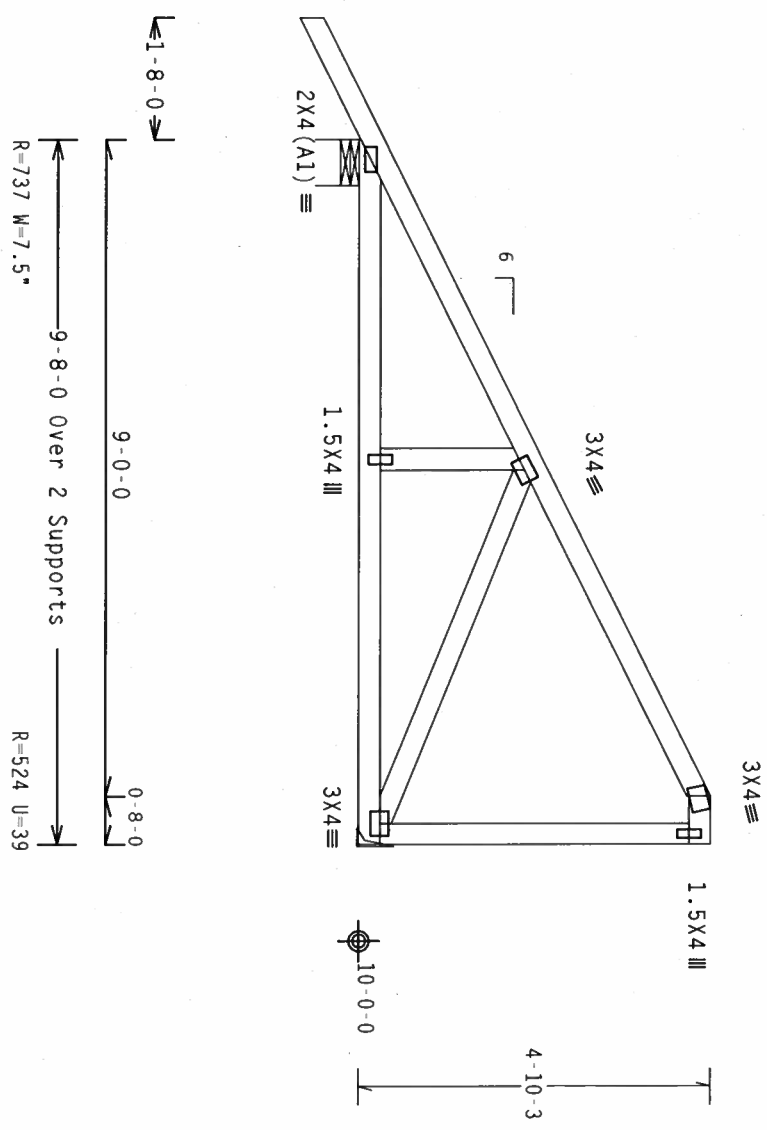
TC LL	30.0 PSF	REF	R8228 - 40081
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141062
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24706
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

Wind reactions based on MMFRS pressures.

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

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=7.5 psf, Wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
 Right end vertical not exposed to wind pressure.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

7.36.0

QTY: 1

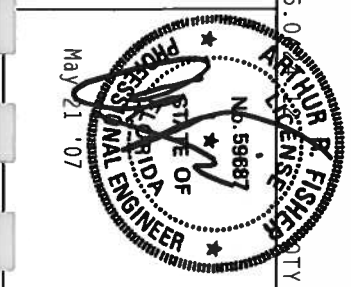
Scale = .375" / ft.

ALPINE

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY IMPROVEMENT), 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 TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI1, STEEL, STEEL DESIGN AND CONNECTIONS WITH APPLICABLE PROVISIONS OF AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. 500 N. MICHIGAN, CHICAGO, IL 60611) SHALL BE USED UNLESS OTHERWISE INDICATED ON THIS DESIGN. PER A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	30.0 PSF	REF	R8228-40082
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141063
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24714
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228202

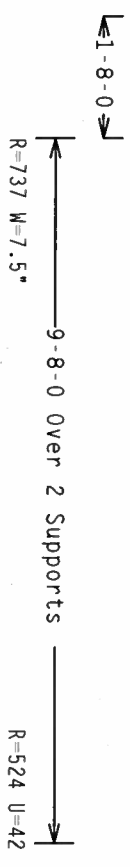
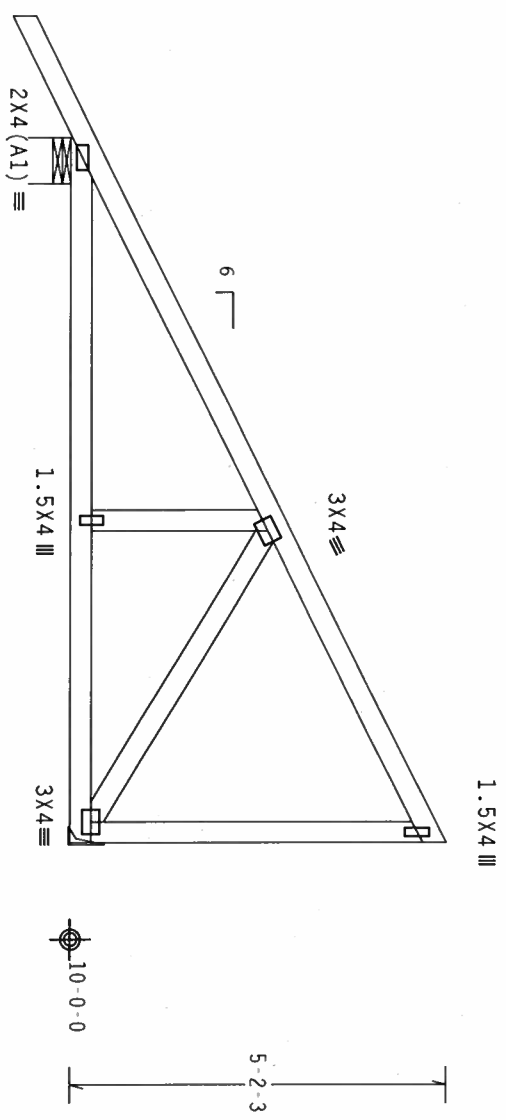
Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18

Right end vertical not exposed to wind pressure.

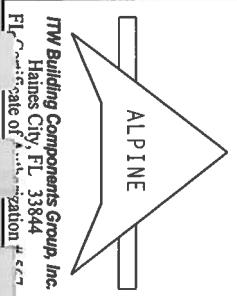


PLT TYP. Wave

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

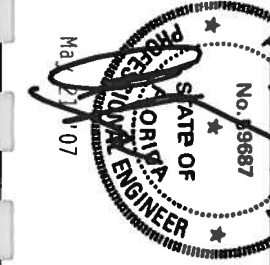
ARTHUR R. FISHER  
 No. 39887  
 STATE OF  
 ENGINEER

Scale = .375"/ft.



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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTION PLATES ARE MADE OF 20/18/18GA (W/H/SS) ASTM A653 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z. DIMENSIONS OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEA AS OF 1971 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY OF AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	30.0 PSF	REF	R8228 - 40083
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141064
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24720
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	177J8228202

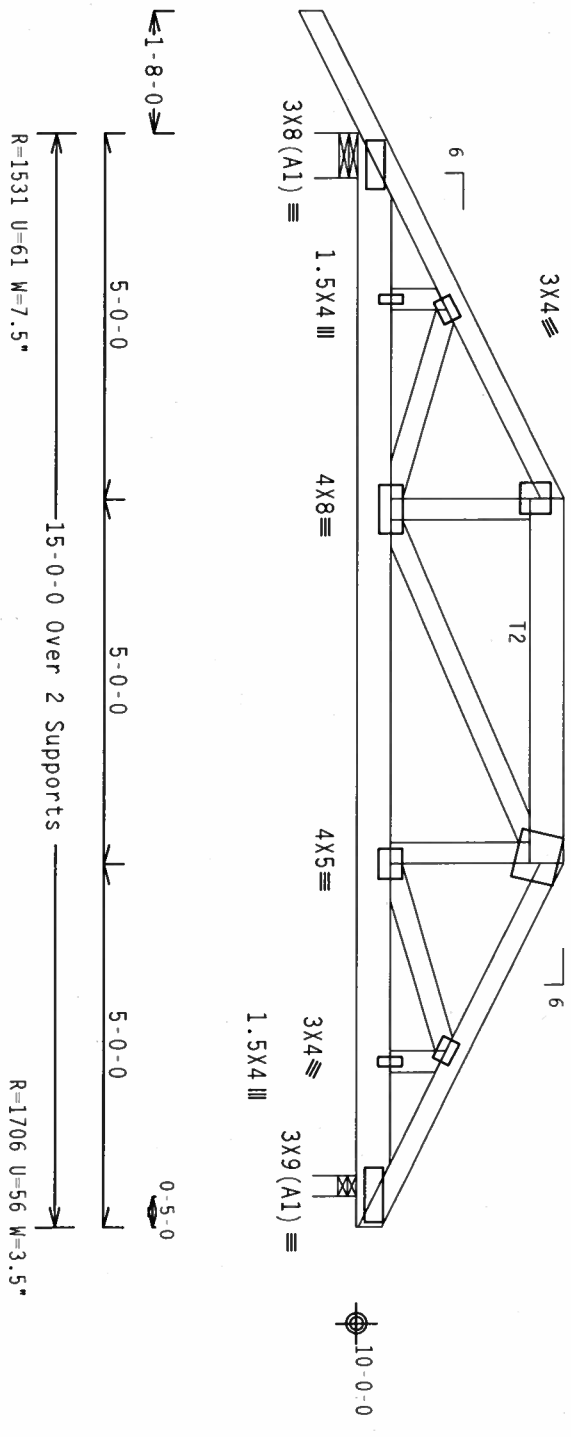
(7 101R Isaac Construction SUNIL PATEL RES. H5 G)  
 Top chord 2x4 SP #2 Dense : T2 2x6 SP #1 Dense:  
 Bot chord 2x6 SP #1 Dense  
 Webs 2x4 SP #3

**SPECIAL LOADS**

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	94 PLF at -1.67 to	94 PLF at 5.00
TC - From	94 PLF at 5.00 to	94 PLF at 10.00
TC - From	94 PLF at 10.00 to	94 PLF at 15.00
BC - From	4 PLF at -1.67 to	4 PLF at 0.00
BC - From	20 PLF at 0.00 to	20 PLF at 15.00
TC -	367 LB Conc. Load at	10.00
BC -	864 LB Conc. Load at	8.56
BC -	140 LB Conc. Load at	10.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  
 Wind reactions based on MWFRS pressures.  
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

7.31.1

FL/-/4/-/R/-

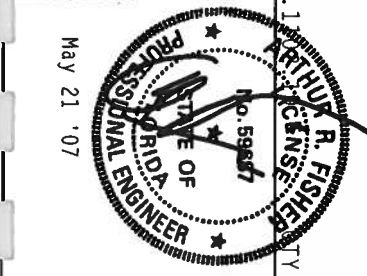
Scale = .375" / Ft.

**ALPINE**

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

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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/AS) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 20/18/18GA (GALV/SS/TK) ASTM A653 GRADE 40/60 (G, K/H/SS) GALV. STEEL. APPLY TO ALL CONNECTIONS UNLESS OTHERWISE INDICATED ON THIS DESIGN. POSITION PER DRAWINGS JOHN Z. ANY INSPECTION OF ACCEPTANCE BY PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY 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.



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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141056
BC LL	0.0 PSF	HC-ENG	RA/AF
TOT.LD.	55.0 PSF	SEON-	6320 REV
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	REF	177J8228202

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCp1(+/-)=0.18

Wind reactions based on MWFRS pressures.

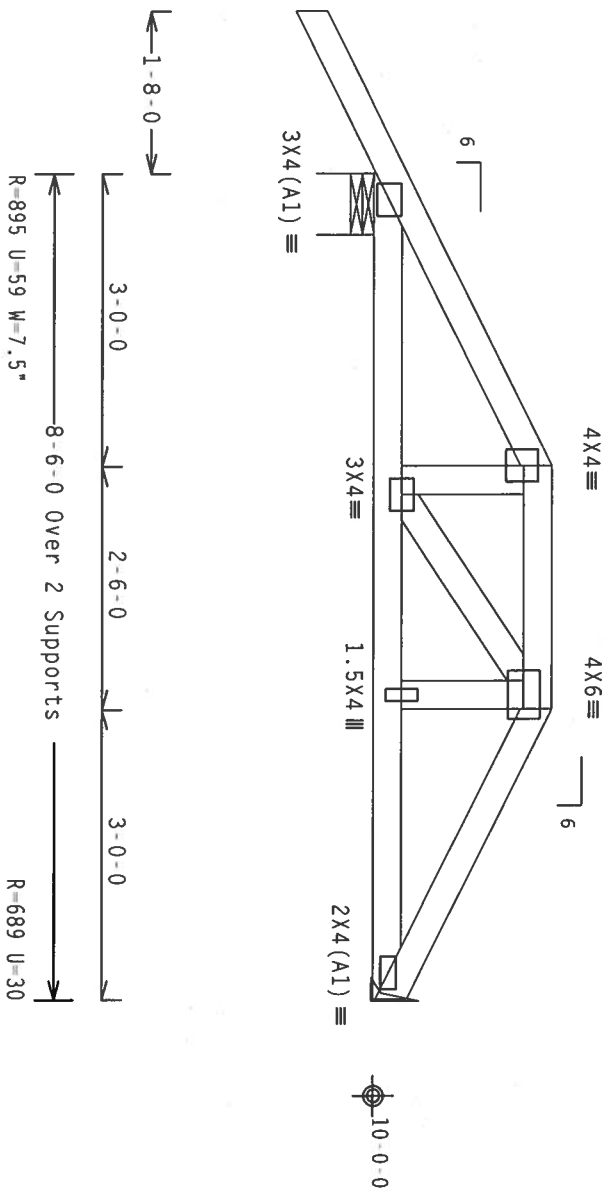
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

**SPECIAL LOADS**

----- (LUMBER DUR.FAC. = 1.25 / PLATE DUR.FAC. = 1.25)

TC - From	94 PLF at -1.67 to 3.00	94 PLF at 3.00 to 5.50
TC - From	94 PLF at 3.00 to 5.50	94 PLF at 5.50 to 8.50
TC - From	94 PLF at 5.50 to 8.50	4 PLF at 0.00 to 8.50
BC - From	20 PLF at 0.00 to 8.50	
TC - 157 LB Conc. Load at	3.06, 5.44	
TC - 86 LB Conc. Load at	4.25, 5.50	
BC - 2 LB Conc. Load at	3.00, 4.25, 5.44	
BC - 19 LB Conc. Load at	3.06, 4.25, 5.44	

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



PLT TYP. Wave

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

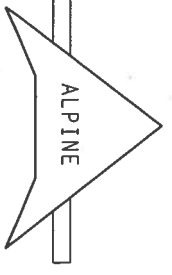
7.36

TY:1 FL-/4-/R/-

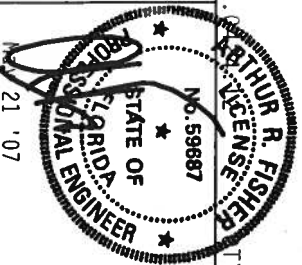
Scale = .5"/ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 530 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND AISC (WOOD TRUSS COUNCIL OF AMERICA), 600 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY AFRPA) AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFRPA) AND TPI. CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/AS) WITH A563 GRADE 40/50 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC.3. FOR THE TRUSS COMPONENT DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Registration # 5727



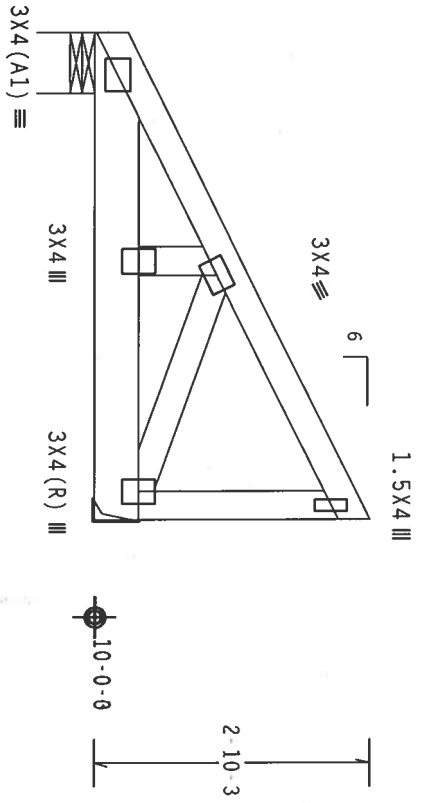
TC LL	30.0 PSF	REF	R8228- 40085
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141065
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24998
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	17738228202

Top chord 2x4 Sp #2 Dense  
Bot chord 2x6 Sp #2  
Webs 2x4 Sp #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, Wind TC DL=7.5 psf, Wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

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

**SPECIAL LOADS**  
 (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
 TC - From 94 PLF at 0.00 to 94 PLF at 5.00  
 BC - From 20 PLF at 0.00 to 20 PLF at 5.00  
 BC - 689 LB Conc. Load at 1.73  
 BC - 462 LB Conc. Load at 3.73  
 Wind reactions based on MWFRS pressures.  
 Right end vertical not exposed to wind pressure.



5-0-0 Over 2 Supports  
 R=854 U=30 W=7.5"  
 R=864 U=22

PLT TYP. Wave

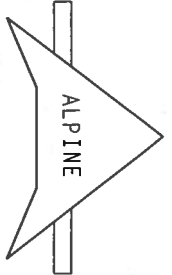
Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0)



Scale = .5" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6800 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI 1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. 11M BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. 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.  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 547

TC LL	30.0 PSF	REF R8228- 40086
TC DL	15.0 PSF	DATE 05/21/07
BC DL	10.0 PSF	DRW HCUR8228 07141067
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	55.0 PSF	SEON- 24703
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T738228202



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

SPECIAL LOADS  
 LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	94 PLF at 0.00 to 94 PLF at 7.00
BC - From	110 PLF at 0.00 to 110 PLF at 0.31
BC - From	20 PLF at 0.31 to 20 PLF at 7.00
BC - 1207	LB Conc. Load at 2.31
BC - 1216	LB Conc. Load at 4.31, 6.31

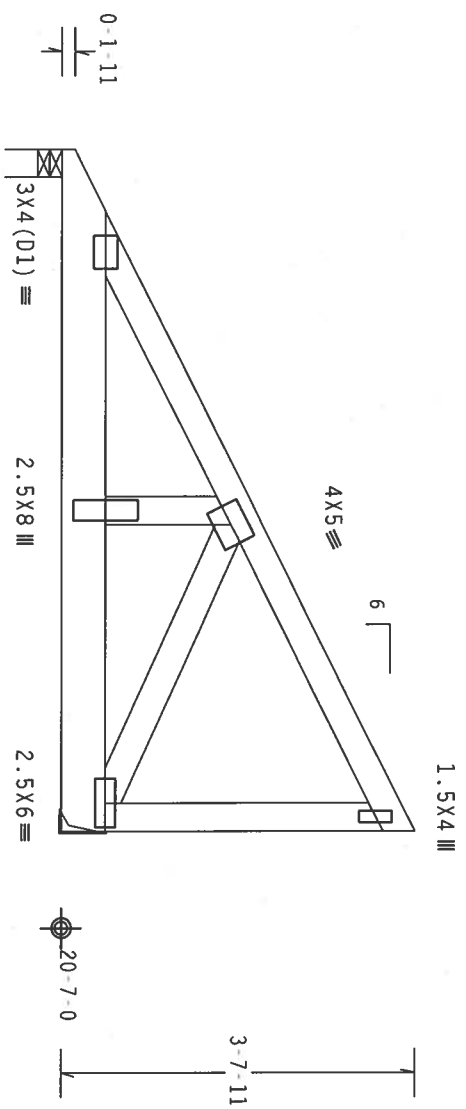
Wind reactions based on MWFRS pressures.

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

**2 COMPLETE TRUSSES REQUIRED**

Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 1 Row @3.25" 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, 22.56 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
 Right end vertical not exposed to wind pressure.



7'-0-0 Over 2 Supports  
 R-1897 U-185 W-3.5"  
 R-2563 U-276

PLT TYP. Wave

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

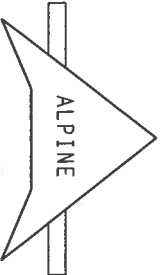
7.36.04

FL/-/4/-/1/R/-

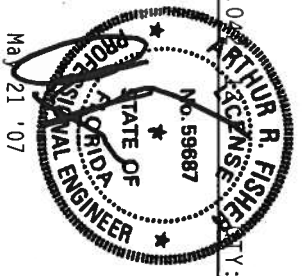
Scale = .5"/ft.

**\*\*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 NCCA (WOOD TRUSS COUNCIL OF AMERICA, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TIV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY ACP&A AND TPI. THE BCG DESIGN COMBINES WITH APPLICABLE PROVISIONS OF BOB (NATIONAL DESIGN SPEC. BY ACP&A AND TPI. THE BCG DESIGN SHALL BE USED AS A GUIDE ONLY. THE BCG DESIGN IS NOT A SUBSTITUTE FOR THE DESIGNER'S RESPONSIBILITY TO INSPECT AND VERIFY THE TRUSS IN CONFORMANCE WITH THE DRAWING INDICATES. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY IS THE RESPONSIBILITY OF THE DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TIV Building Components Group, Inc.  
 Gaines City, FL 32644  
 FL Certificate of Authorization # 547



TC LL	30.0 PSF	REF	R8228-40087
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUR8228 07141092
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	24773
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

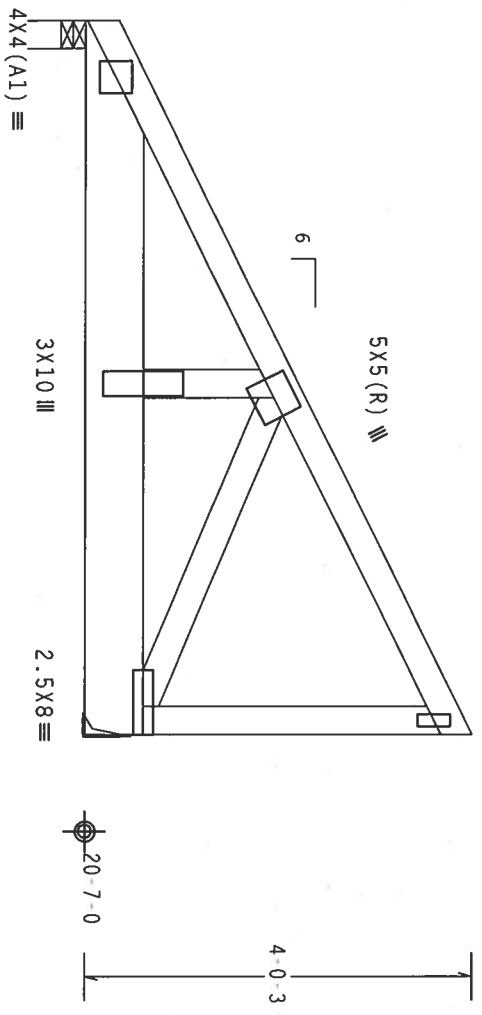
**SPECIAL LOADS**  
 (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
 TC - From 94 PLF at 0.00 to 94 PLF at 7.33  
 BC - From 20 PLF at 0.00 to 20 PLF at 7.33  
 BC - 1670 LB Conc. Load at 1.40, 3.40, 5.40

Wind reactions based on MMFRS pressures.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

**2 COMPLETE TRUSSES REQUIRED**

Nailing Schedule: (12d Common (0.148"x3.25", min.)\_nails)  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 2 Rows @5.50" o.c. (Each Row)  
 Webs : 1 Row @ 4" o.c.  
 Use equal spacing between rows and stagger nails in each row to avoid splitting.  
 110 mph wind, 22.76 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18

Right end vertical not exposed to wind pressure.



R=3169 U-366 W=3.5"  
 R=2673 U-313

PLT TYP. Wave

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

ARTHUR R. FISHER  
 PROFESSIONAL ENGINEER  
 No. 59887  
 STATE OF FLORIDA

Scale = .5"/ft.

**ALPINE**

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCCA (WOOD TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE LANE, MAOISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

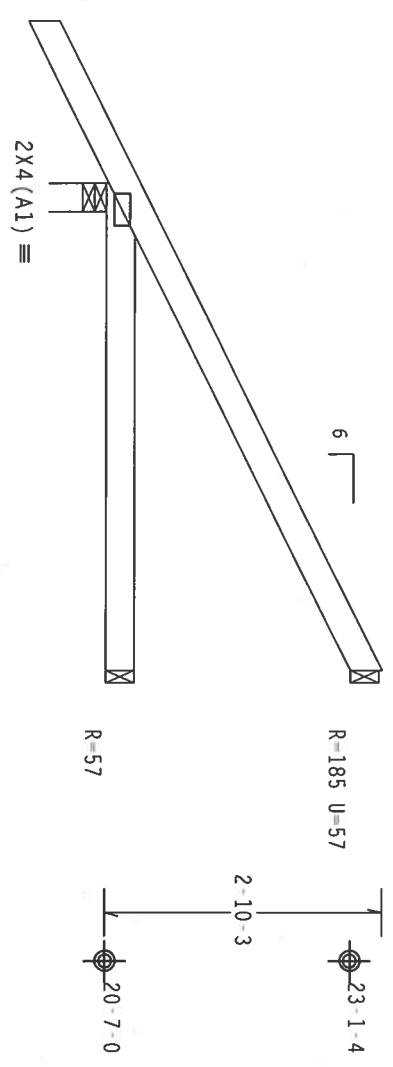
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE OF TRUSS IN COMPLIANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS) ASTM A653 GRADE 40/80 (W. R/H. SS) GALV. STEEL. APPLY PLATES TO EACH OF THE TRUSS CHORDS, UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS TABO. 2. MAKE SURE EACH OF THE TRUSS CHORDS IS PROPERLY BRACED TO THE BUILDING PERMANENTLY. THE BUILDING DESIGNER INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ARTHUR R. FISHER  
 PROFESSIONAL ENGINEER  
 No. 59887  
 STATE OF FLORIDA  
 May 21 '07

FL	/4	/1	/R	/-	Scale = .5"/ft.
TC LL	30.0	PSF	REF	R8228-40088	
TC DL	15.0	PSF	DATE	05/21/07	
BC DL	10.0	PSF	DRW	HCUSR8228 07141004	
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT. LD.	55.0	PSF	SEON-	24913	
DUR. FAC.	1.25		FROM	JFB	
SPACING	24.0"		JREF-	17738228202	

Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Wind reactions based on MWFRS pressures.

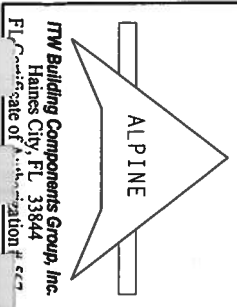
110 mph wind, 21.76 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpi}(+/-)=0.18$   
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

ARTHUR R. FISHER  
 LICENSED PROFESSIONAL ENGINEER  
 No. 69687  
 STATE OF FLORIDA  
 May 9 2007  
 QTY: 1  
 FL/-/4/-/R/-  
 Scale = .5"/ft.



**ALPINE**  
 TW Building Components Group, Inc.  
 Haines City, FL 33844  
 Florida State of Authorization # 677

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI AT 1100 W. WASHINGTON ST., SUITE 600, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICKA (WOOD TRUSS COUNCIL OF AMERICA, ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE 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 AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACP&A) AND TPI. CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W. E/W/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER 3A OF TPI-2002, SEC. 3. FOR THE TRUSS COMPONENT DRAWING SHALL BE 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	30.0 PSF	REF	R8228- 40089
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141020
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	24938
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T70822RZ02

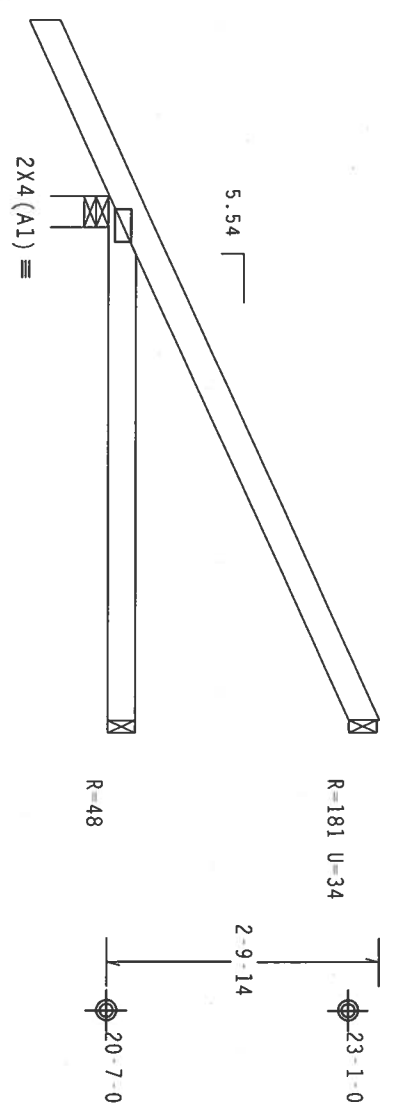
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

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

110 mph wind, 21.75 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)=0.18

HiDjack supports 3-9-11 setback jacks with no webs.



←1-9-10→  
R=264 U=29 W=3.788\*

PLT TYP. Wave

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

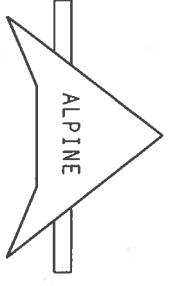
7.36.0

FL/-/4/-/R/-

Scale = .5" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI. TRUSS MANUFACTURER'S INSTRUCTIONS, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NICK (WOOD) TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53791 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TIV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. TIV BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP) AND TPI. TIV BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS) ASTM A653 GRADE 40/60 (W. R/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 THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TIV Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 677



TC LL	30.0 PSF	REF	R8228- 40090
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUR8228 07141014
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SECON-	24956
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

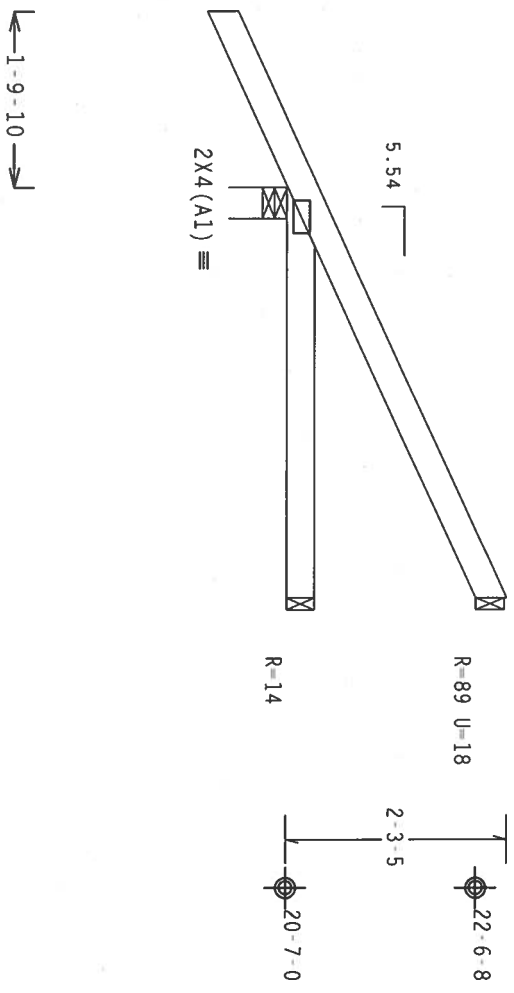
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

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

110 mph wind, 21.47 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-) = -0.18$

HiDjack supports 2-11-11 setback jacks with no webs.



PLT TYP. Wave

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

7.36.0

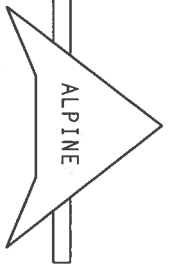
TY:1 FL/-/4/-/R/-

Scale = .5"/ft.

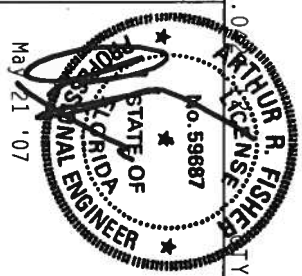
**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI, INC., 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22310 AND NICK (WOOD TRUSS COUNCIL OF AMERICA, 600 ENTERPRISE LANE, 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 COMPLIANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. TPI BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/KS ASTM A653 GRADE 40/50 (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.

INSTALLATION PLATES FOLLOWED BY (1) SHALL BE PER AME & AS OF TPI-11-2002 SEC. 3. FOR THE TRUSS COMPONENT 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.



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

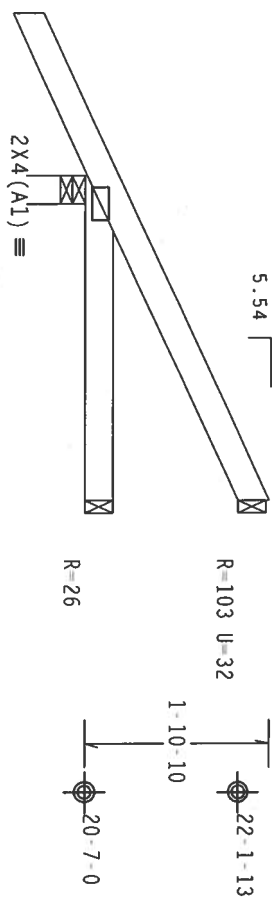


TC LL	30.0 PSF	REF	R8228- 40091
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141013
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24959
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

Wind reactions based on MMFRS pressures.

110 mph wind, 21.32 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



← 1-8-0 →

3-4-0 Over 3 Supports  
R=409 U=34 W=3.5"

PLT TYP. Wave

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

7.36.0

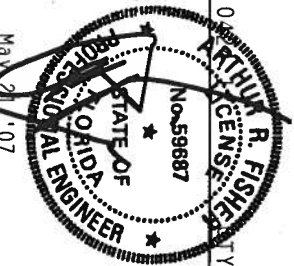
FL/-/4/-/-/R/-

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, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (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. 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 & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACP&PA) AND TPI. CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/S/S/S) ASH/ASA GRADE 40/50 (W. K/H/SS) GALV. STEEL. APPLY ALL REVISIONS TO THIS DRAWING PER THE REVISION PER DRAWING 160A, 160B, 160C, 160D, 160E, 160F, 160G, 160H, 160I, 160J, 160K, 160L, 160M, 160N, 160O, 160P, 160Q, 160R, 160S, 160T, 160U, 160V, 160W, 160X, 160Y, 160Z. ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BEER OWNER AS OF TPI-2002 SECTION FOR THE TRUSS COMPONENT 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.



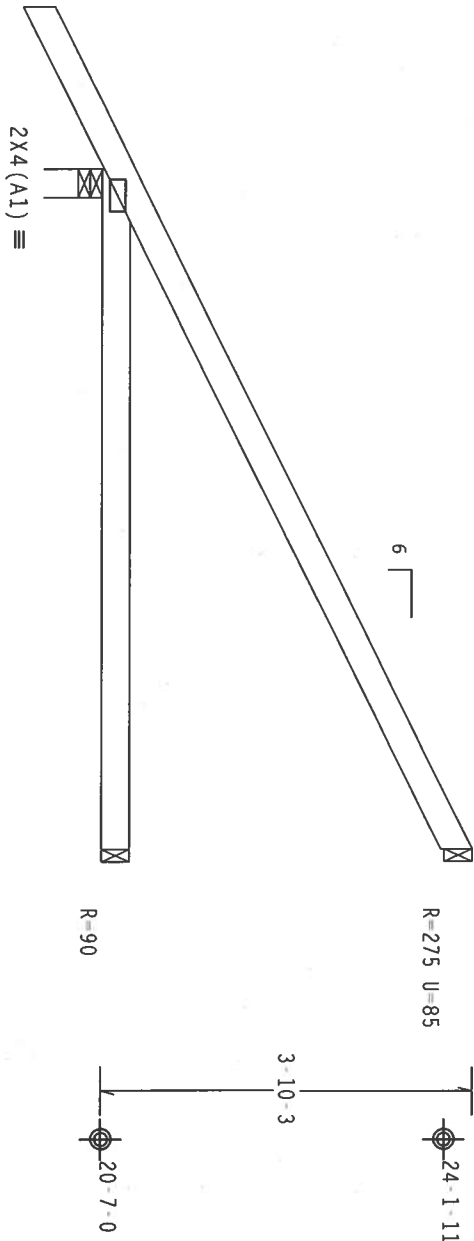
TTM Building Components Group, Inc.  
Haines City, FL 33844  
File Certificate of Authorization # 567

TC LL	30.0 PSF	REF	R8228- 40092
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCU8R8228 07141018
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	24962
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

Wind reactions based on MMFRS pressures.

110 mph wind, 22.26 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cp}(+/-)=0.18$   
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



7'-0'-0 Over 3 Supports  
R=593 U=32 W=3.5"

PLT TYP. Wave

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

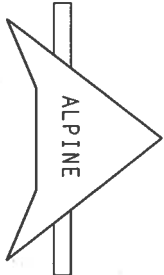
7.36.0

FL-/4-/R/-

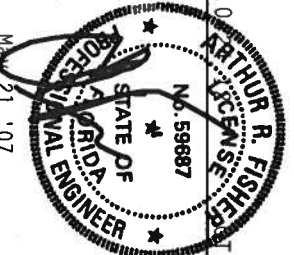
Scale =.5"/ft.

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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE OF TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/RS) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DRAMAING DETAILING SHALL BE PER AMERICAN INSTITUTE OF ARCHITECTS (AIA) AND PER THE TRUSS COMPONENT 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  
FL Certificate of Authorization # 557

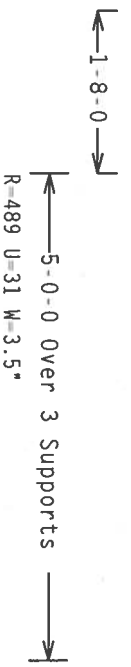
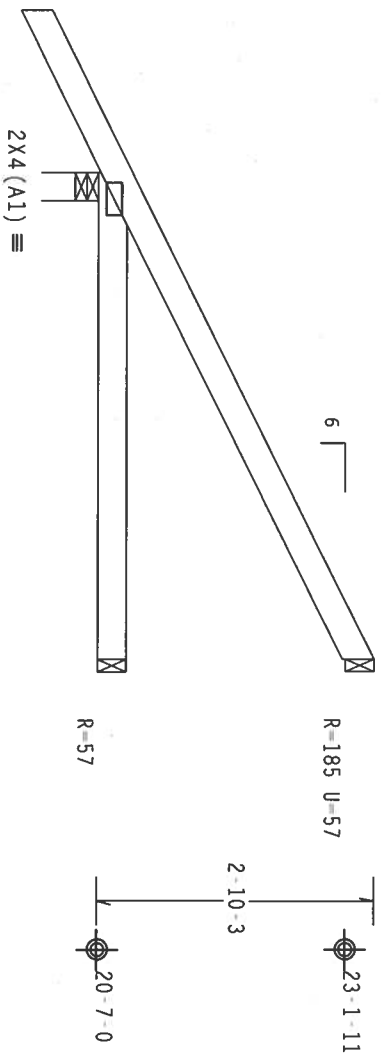


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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCU8R8228 07141084
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24965
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

Top Chord 2x4 SP #2 Dense  
Bot Chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

110 mph wind, 21.76 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=-0.18$   
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

7.36.04

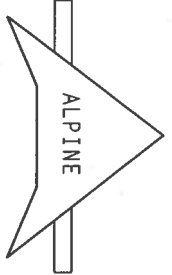
FL/-/4/-/R/-

Scale = .5"/ft.

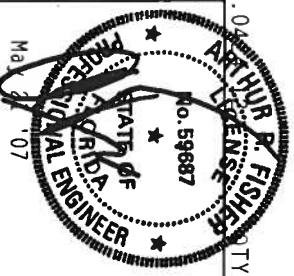
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 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. TIV 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 AND BRACING OF TRUSSES.

DESIGN CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP) AND TPI. TIV BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (M/N/SS/S) ASTM A859 GRADE 40/60 (W. R/H. SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. TIV BCG CONNECTION PLATES SHALL BE PER ANCHOR AS OF TPI-2002 SEC. 3. FOR THE A TRUSS COMPONENT 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.



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



TC LL	30.0 PSF	REF	R8228- 40094
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141082
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	24982
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	117J8228202



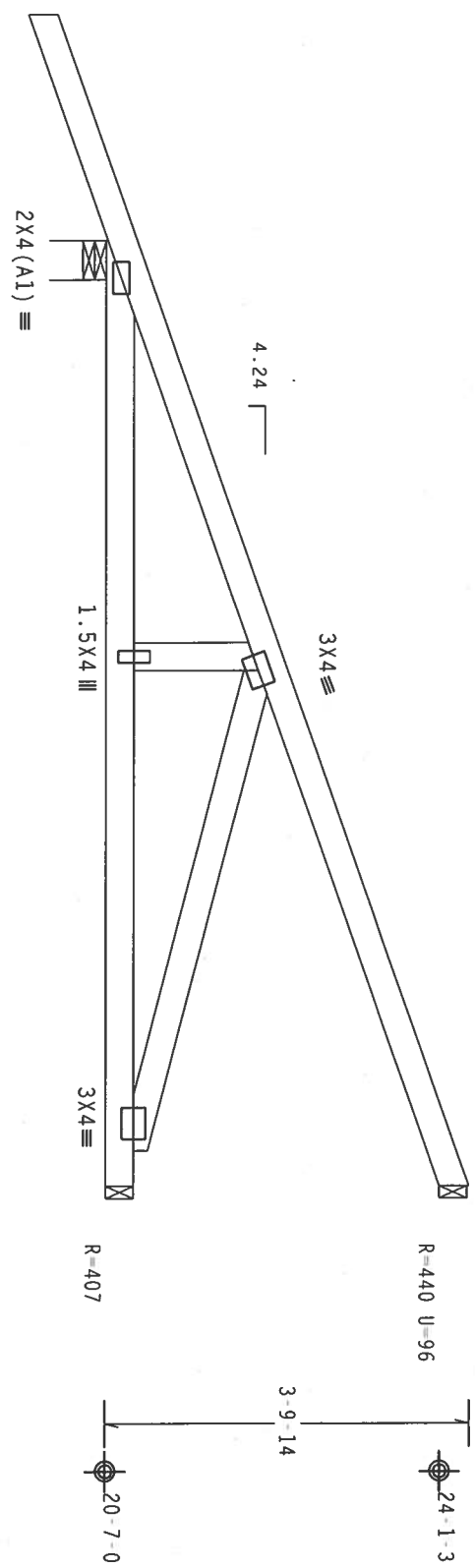
Top chord 2x4 Sp #2 Dense  
 Bot chord 2x4 Sp #2 Dense  
 Webs 2x4 Sp #3

Wind reactions based on MWFRS pressures.

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

110 mph wind, 22.24 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

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



PLT TYP. Wave

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

7.36.0

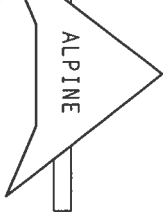
FL/-/4/-/R/-

Scale = .5"/ft.

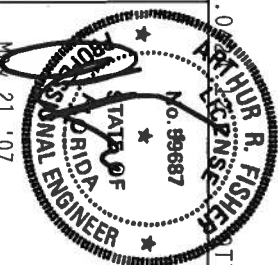
**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 EMERLISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEA) AND TPI. ITM BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/RS ASTM A653 GRADE 40/80 (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.

INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PERFORMED AS OF THIS DESIGN. A SEAL ON THIS DRAWING SHALL BE OBTAINED FROM TPI. TPI SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENT DESIGN SHOWN. CHECK 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.  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 627

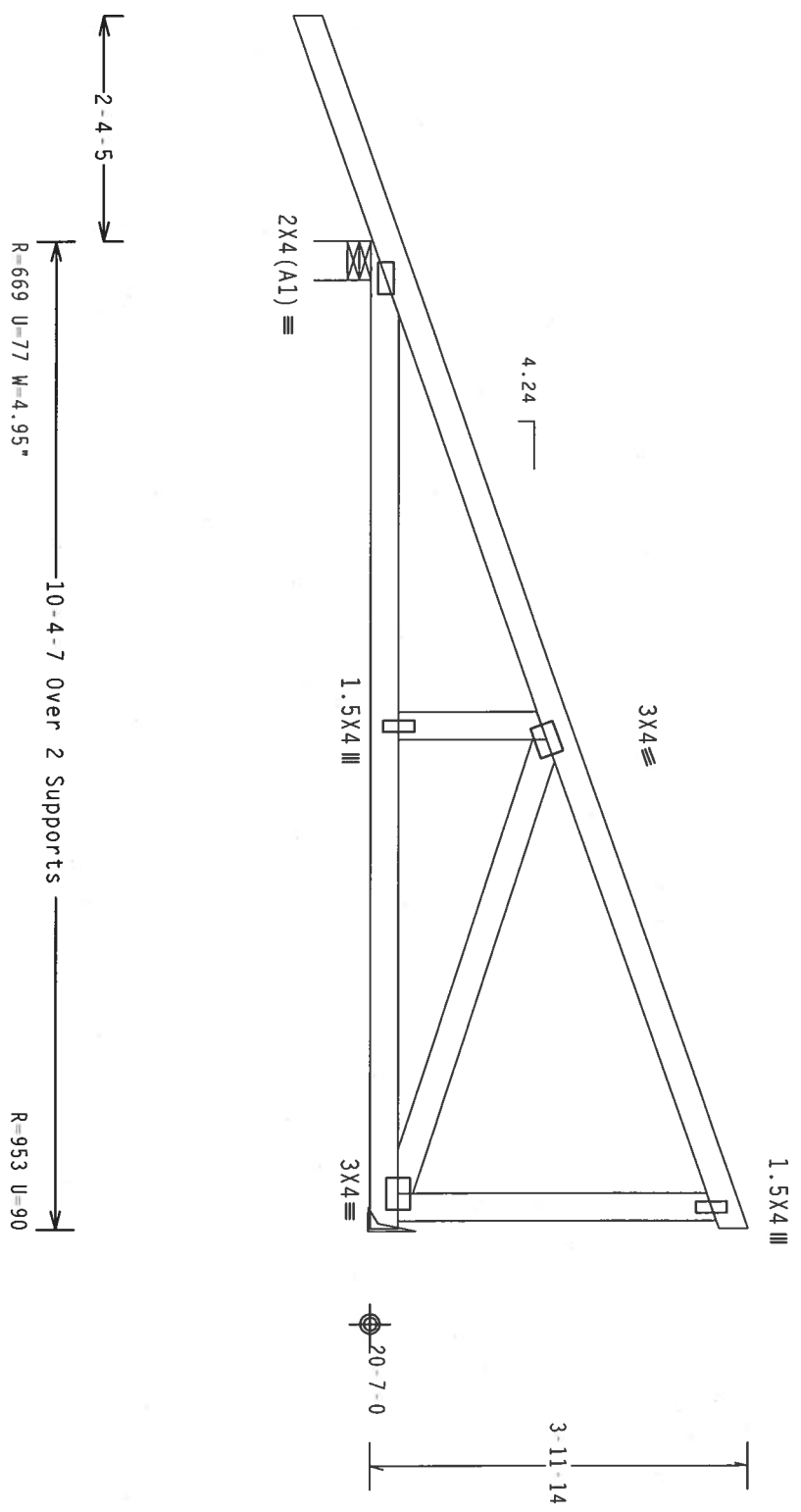


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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141080
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24985
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T738228Z02

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

Wind reactions based on MMFRS pressures.  
 Hipjack supports 7'-4" setback jacks. Jacks up to 7' have no webs.  
 Longer jacks supported to BC.

110 mph wind, 22.32 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCP(+/-)=0.18$   
 Right end vertical not exposed to wind pressure.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

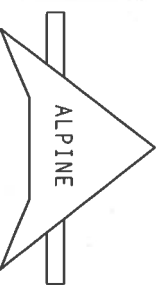
7.36.04

TY:1 FL/-/4/-/R/-

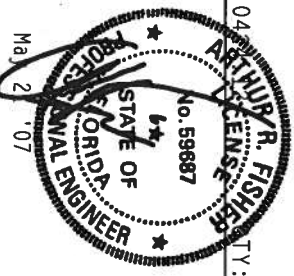
Scale = .5" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22319) 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. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN COMMENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. DESIGN COMMENTS ARE MADE OF 20/18/16GA (EM/SS/RS) ASTM A653 GRADE 40/80 (K, K/M, SS) GALV. STEEL. APPLY ALL APPLICABLE CODES AND REGULATIONS. ALL CONNECTIONS SHALL BE MADE ON THE BASIS OF THE DRAWINGS AND ALL DIMENSIONS SHALL BE AS SHOWN. THE 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.  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 547



TC LL	30.0 PSF	REF	R8228-40096
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141001
BC LL	0.0 PSF	HC-ENG	RA/AF
TOT. LD.	55.0 PSF	SEON-	25779
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T738228202

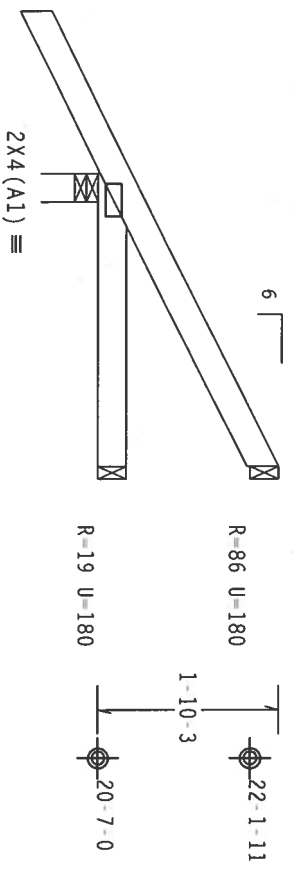
Top chord 2x4 Sp #2 Dense  
Bot chord 2x4 Sp #2 Dense

Wind reactions based on MMFRS pressures.

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

110 mph wind, 21.26 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 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.



3-0-0 Over 3 Supports  
R=398 U=180 W=3.5\*

PLT TYP. Wave

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

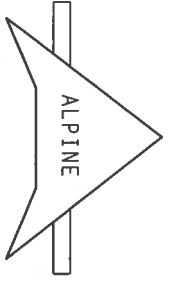
ARTHUR R. FISHER  
PROFESSIONAL ENGINEER  
No. 59687  
STATE OF FLORIDA

FL/-/4/-/R/-

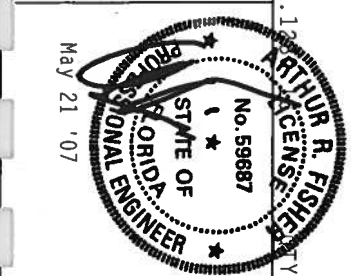
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**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICK (WOOD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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS ASTH A653 GRADE 40/60 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEAS OR TPI-1-2002 SEC. 3. FOR THE TRUSS COMPONENT DESIGN SHOWS THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/1/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Registration # 577



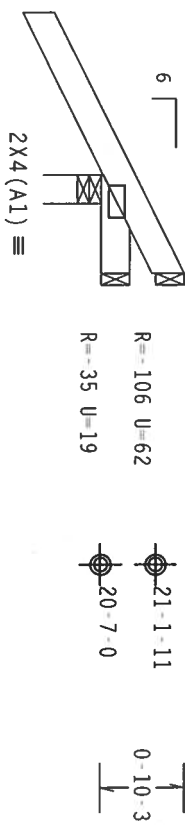
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCU8R8228 07141083
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	154369
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T708228202

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

Wind reactions based on MMFRS pressures.

110 mph wind, 20.76 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 GCPI (+/-)=0.18

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



1-8-0  
1-0-0 Over 3 Supports  
R=417 U=54 W=3.5"

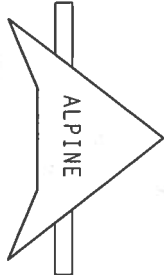
PLT TYP. Wave

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

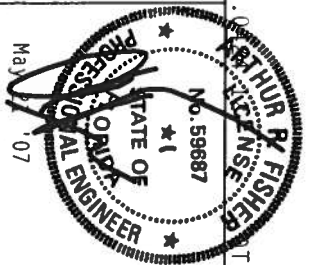
**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 212, ALEXANDRIA, VA, 22304) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. 11W BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/A) ASTM A653 GRADE 40/50 (W, K/M, SSI) GALV. STEEL. APPLY LAMES EACH SIDE OF TRUSS CHORD. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, AND 3. EACH CONNECTION SHALL BE DESIGNED AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER. THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR AM BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
Florida State of Authorization # 477



TY: 1

FL/-/4/-/1-/R/-

Scale = .5"/ft.

TC LL	30.0 PSF	REF	R8228- 40098
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141069
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	25268
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T738228202

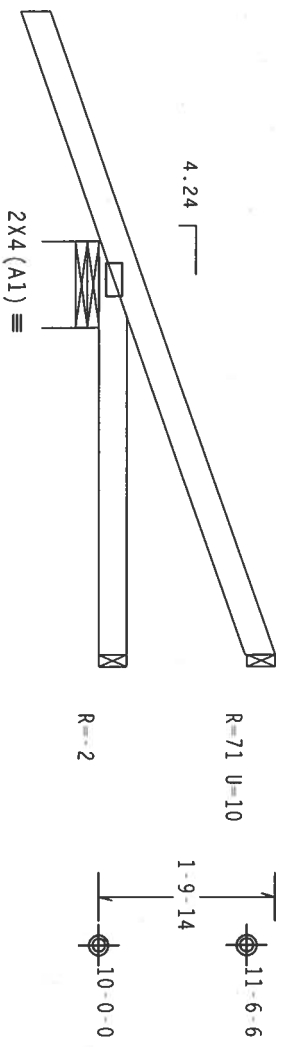
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18

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



←4-2-15 Over 3 Supports →  
R=359 U=23 W=10.607\*

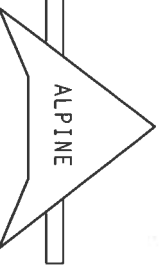
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.36

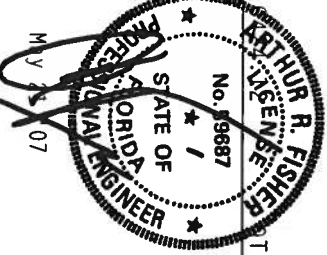
Scale = .5" / Ft.

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

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ITW Building Components Group, Inc.  
Haines City, FL 33844  
Phone: 888-333-3333

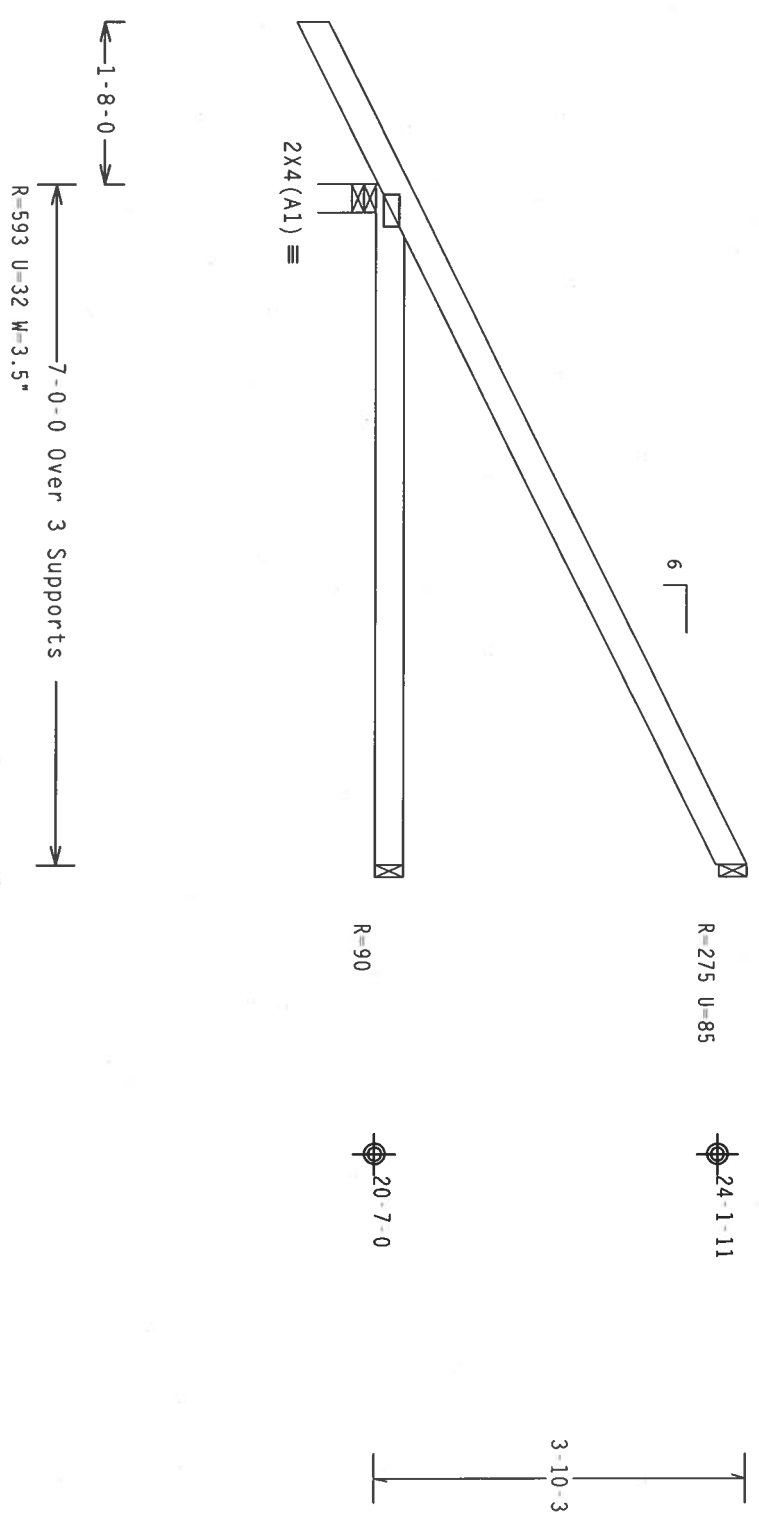


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BC DL	10.0 PSF	DRW	HCUSR8228 07141068
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	25272
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	DEFF-	1T738228Z02

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

Wind reactions based on MMFRS pressures.

110 mph wind, 22.26 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cp}(+/-)=-0.18$   
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

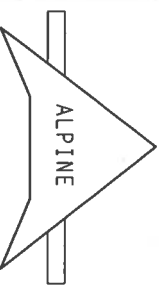
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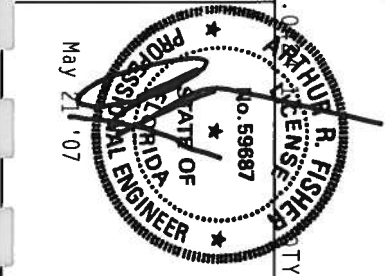
Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (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 & BRACING OF TRUSSES. DESIGN CORRECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PDA) AND TPI. DESIGNER OR FABRICATOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. ALL CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/S/S) ASTM A653 GRADE 40/80 (W, K/M, SSI) GALV. STEEL. APPLY TO ALL CONNECTIONS. ALL TRUSSES SHALL BE ASSEMBLED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S 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.



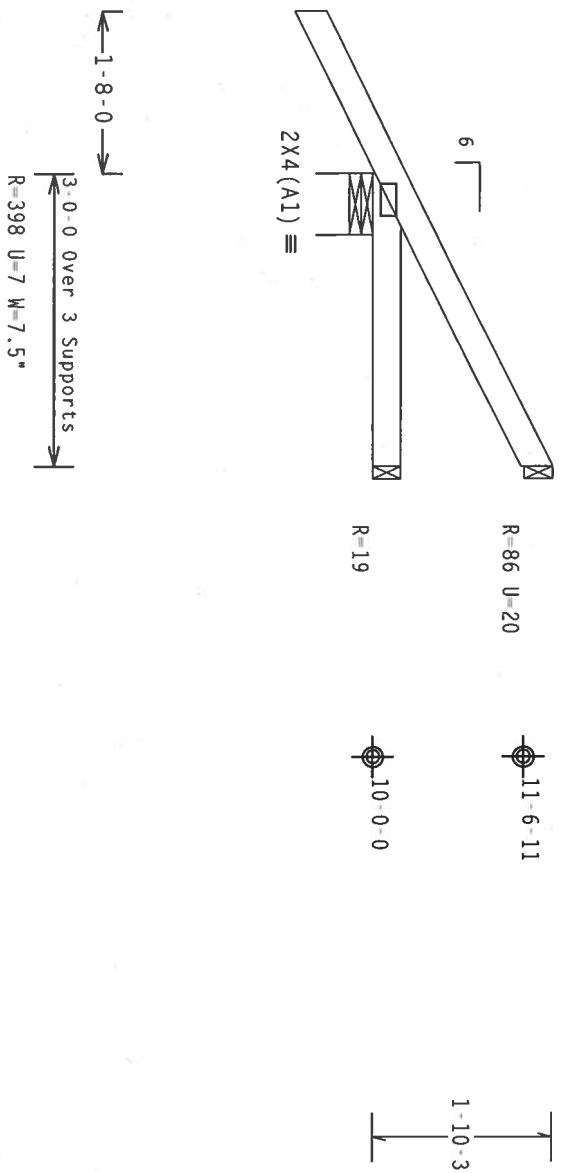
ITW Building Components Group, Inc.  
Haines City, FL 33844  
Phone: 888-333-3333  
Fax: 888-333-3333



TC LL	30.0 PSF	REF	R8228- 40100
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141003
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SECON-	24991
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

Top chord 2x4 Sp #2 Dense  
 Bot chord 2x4 Sp #2 Dense  
 Wind reactions based on MMFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, Wind TC DL=7.5 psf, Wind BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)=0.18  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

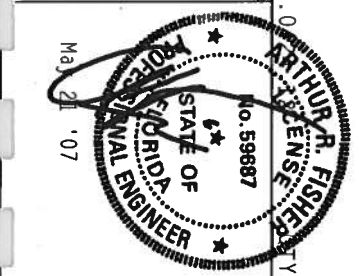
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FL/-/4/-/R/-

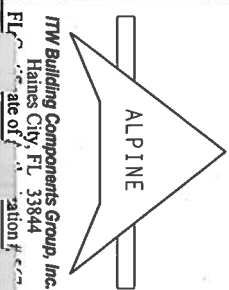
Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REPAIRS TO TRUSSES SHOULD BE MADE BY THE MANUFACTURER OR A QUALIFIED TRUSS DESIGNER. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND WICK LOND TRUSS COUNCIL OF AMERICA. OTHERSISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W. K/M/SS) GALV. STEEL. APPLY. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI1-2002 SEC.3. FOR THE TRUSS COMPONENT DESIGNER AND (2) SHALL BE PER AMEX AS OF TPI1-2002 SEC.3. FOR THE TRUSS COMPONENT DESIGNER. THIS DESIGN INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	30.0 PSF	REF	R8228- 40101
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141071
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	25207
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1T7J8228Z02



ITW Building Components Group, Inc.  
 Haines City, FL 33844  
 State of Florida License # 10000

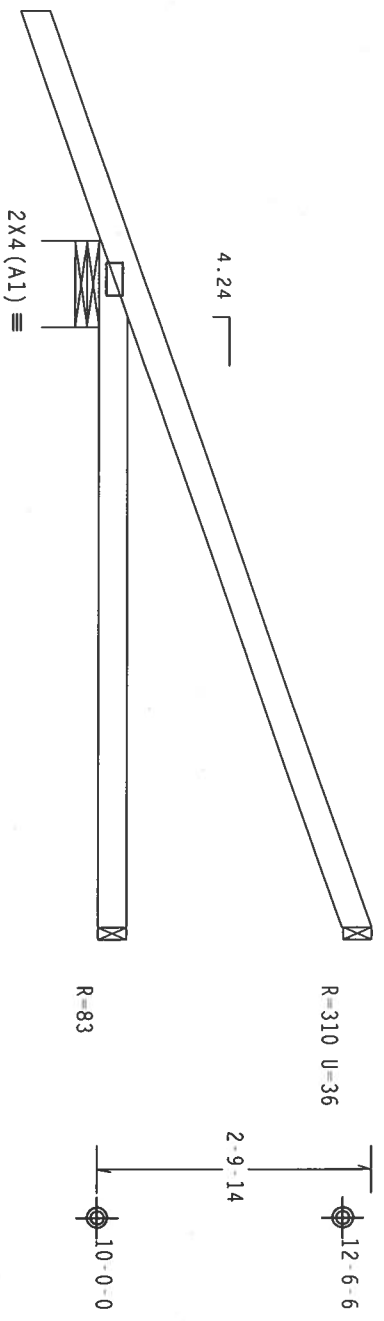
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$

Hip/jack supports 5-0-0 setback jacks with no webs.



2-4-5  
7-0-14 Over 3 Supports  
R=474 U=22 W=10.607\*

PLT TYP. Wave

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

ARTHUR R. FISHER  
No. 59867  
STATE OF FLORIDA  
Professional Engineer

FL/-/4/-/R/-

Scale = .5" / Ft.

**ALPINE**

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 600 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 COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. CONNECTIONS SHALL BE MADE OF 20/18/16GA (N/A/H/SS/RS ASTM A653 GRADE 40/60 (N/A/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES AS OF TPI-2002 SEC. 3. FOR THE TRUSS COMPONENT 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.

**ARTHUR R. FISHER**  
No. 59867  
STATE OF FLORIDA  
Professional Engineer

TC LL	30.0 PSF	REF	R8228- 40102
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141070
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	25013
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

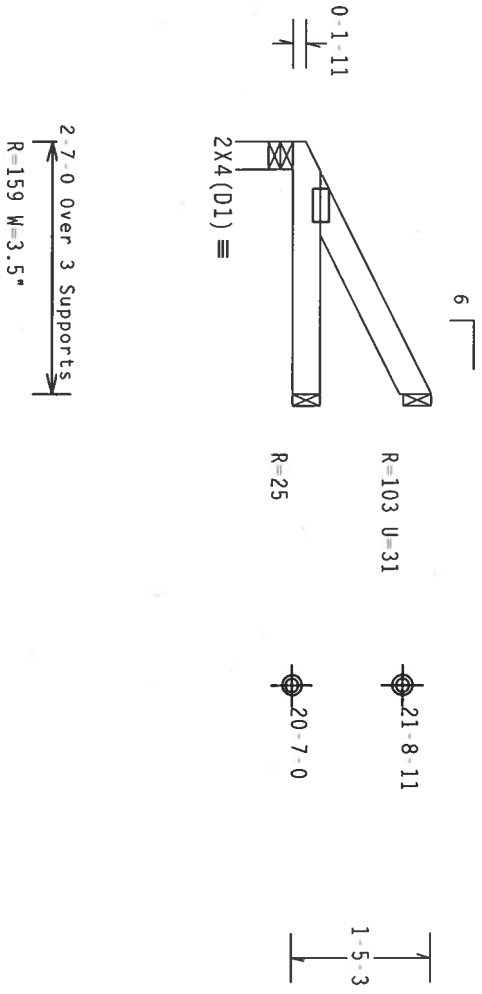




Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Wind reactions based on MWFRS pressures.

110 mph wind, 21.45 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 GCPI(+/-)=-0.18  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

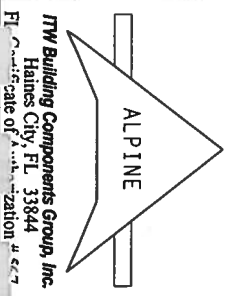
7.36.0

FL/-/4/-/1-/R/-

Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 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 THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY A/R/P/A AND TPI. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL State of Authorization # 677

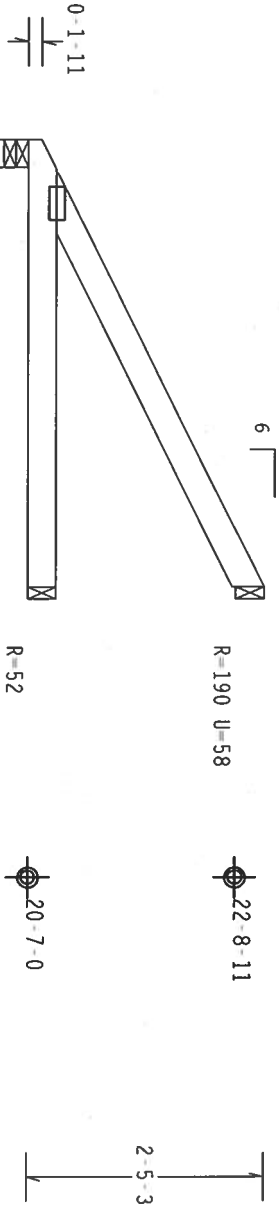


TC LL	30.0 PSF	REF	R8228-40104
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141017
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	25023
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

Wind reactions based on MMFRS pressures.

110 mph wind, 21.95 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCP1(+/-)=0.18$   
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



4-7-0 Over 3 Supports  
R=272 W=3.5"

PLT TYP. Wave

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

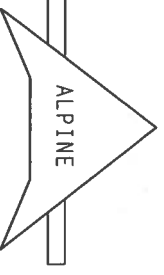
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FL/-/4/-/R/-

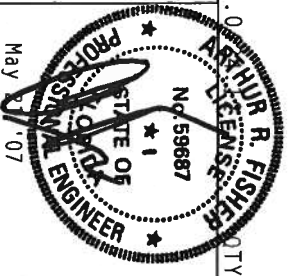
Scale = .5" / Ft.

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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP) AND TPI. DESIGNER'S COMMENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S) ASH A653 GRADE 40/80 (W, K/M, SSI) GALV. STEEL. APPLY TO ALL TRUSSES. TRUSSES SHALL BE CONFORMED TO THIS DESIGN. POSITION PER DRAWING. A604.2. ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT DRAWING. INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS 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  
FL Certificate of Authorization # 527

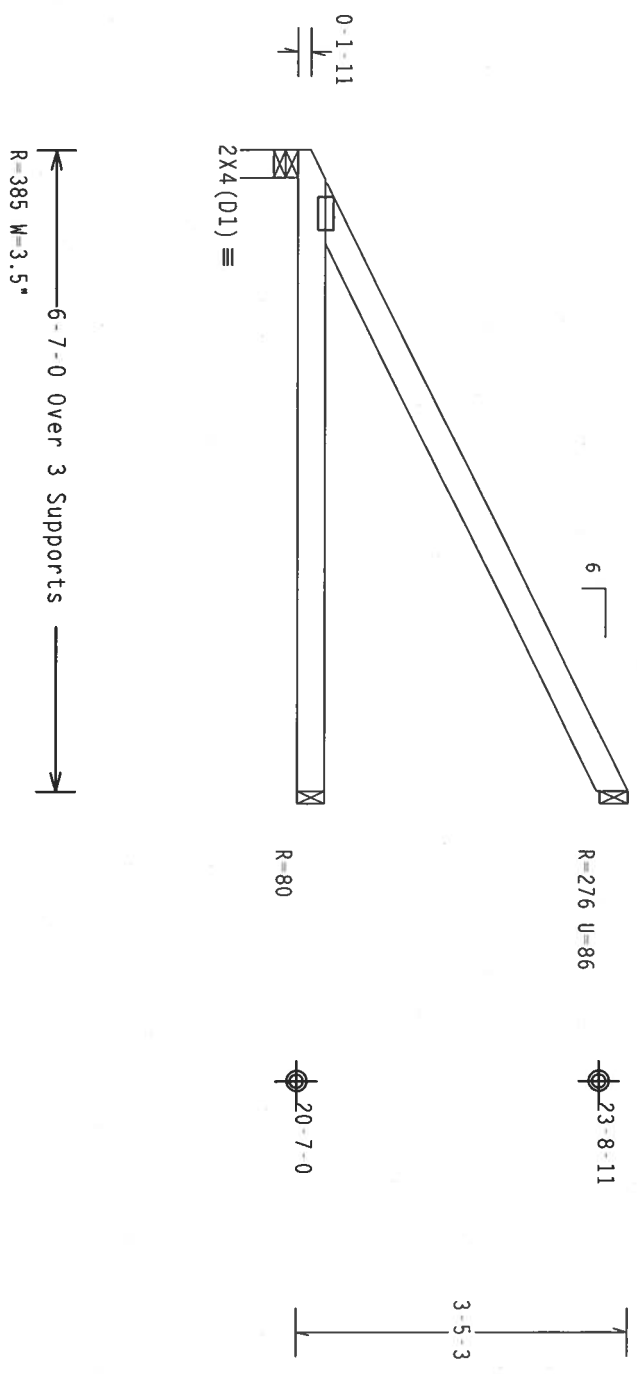


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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141016
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	25026
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T7J8228202

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

Wind reactions based on MMFRS pressures.

110 mph wind, 22.45 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCP(+/-)=0.18$   
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

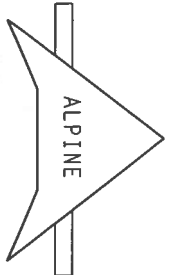
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FL/-/4/-/R/-

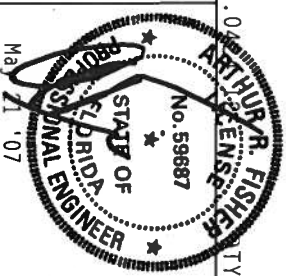
Scale = .5"/ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (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 EMERISSE 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 COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/A) ASTM A653 GRADE 40/50 (W, K/H, S) GALV. STEEL. APPLY PLATES SPECIFIC TO EACH TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 150A-Z. THIS SPECIFIC DESIGN IS THE PROPERTY OF TPI. ITW BCG SHALL BE RESPONSIBLE AS OF 11-11-2002, SEC. 3 FOR THE DESIGN OF THIS DRAWING. INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

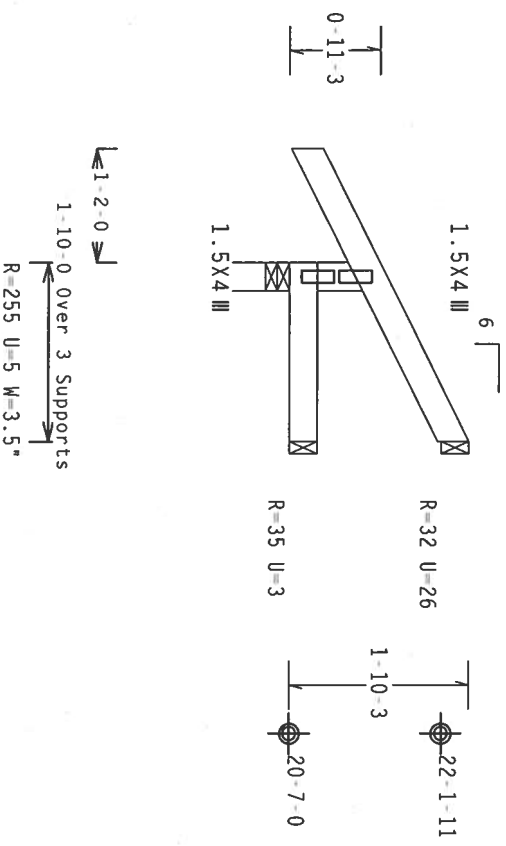


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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUR8228 07141015
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	25029
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

Wind reactions based on MMFRS pressures.

110 mph wind, 21.68 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

7.36.0

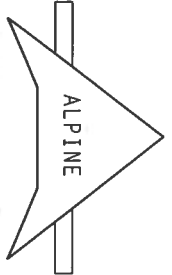
TY:1 FL/-/4/-/R/-

Scale = .5"/ft.

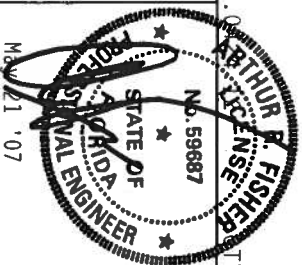
**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 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 CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/RA) AND TPI. ITW BCG CONNECTIONS ARE MADE OF 20/18/16GA (W/H/SS) ASTM A653 GRADE 40/80 (K/PL/SS) GALV. STEEL. APPLY AN ANTI-RUST COATING TO ALL TRUSS AND MEMBER SURFACES. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS T60A-2. ALL SPECS. EACH OF PACKAGING OR PROFESSIONAL ENGINEER SHALL BE REPRODUCED AS SHOWN. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
 Gaines City, FL 33844  
 FL Certificate of Registration # 547

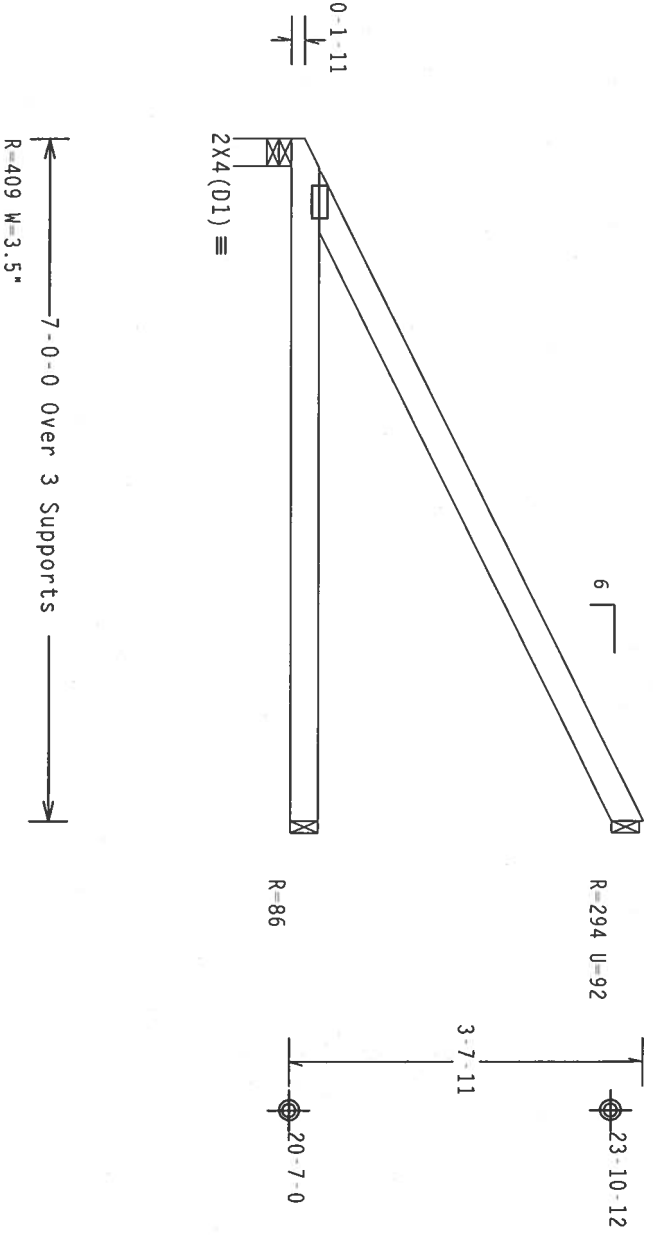


TC LL	30.0 PSF	REF	R8228- 40107
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141011
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	25032
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T738228202

Top Chord 2x4 Sp #2 Dense  
Bot chord 2x4 Sp #2 Dense

Wind reactions based on MMFRS pressures.

110 mph wind, 22.56 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=-0.18$   
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

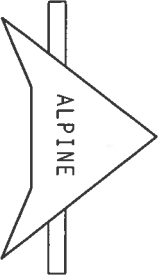


Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

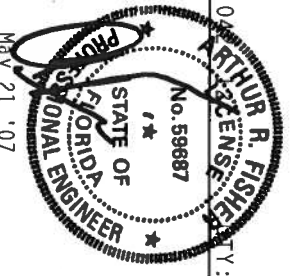
PLT TYP: Wave

**\*\*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, 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. BY AERPA) AND TPI. DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. ITW BCG SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE DESIGN OF THE CONNECTIONS TO THE WALLS AND PLATES TO EACH FACE OF THE TRUSS AND TO THE WALLS AND PLATES TO EACH FACE OF THE TRUSS. PER DRAWINGS ON 2-DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENTS 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  
FL Certificate of Authorization # 567



ARTHUR R. FISHER  
Professional Engineer  
No. 58887  
STATE OF FLORIDA  
May 21 '07

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

Scale = .5"/Ft.

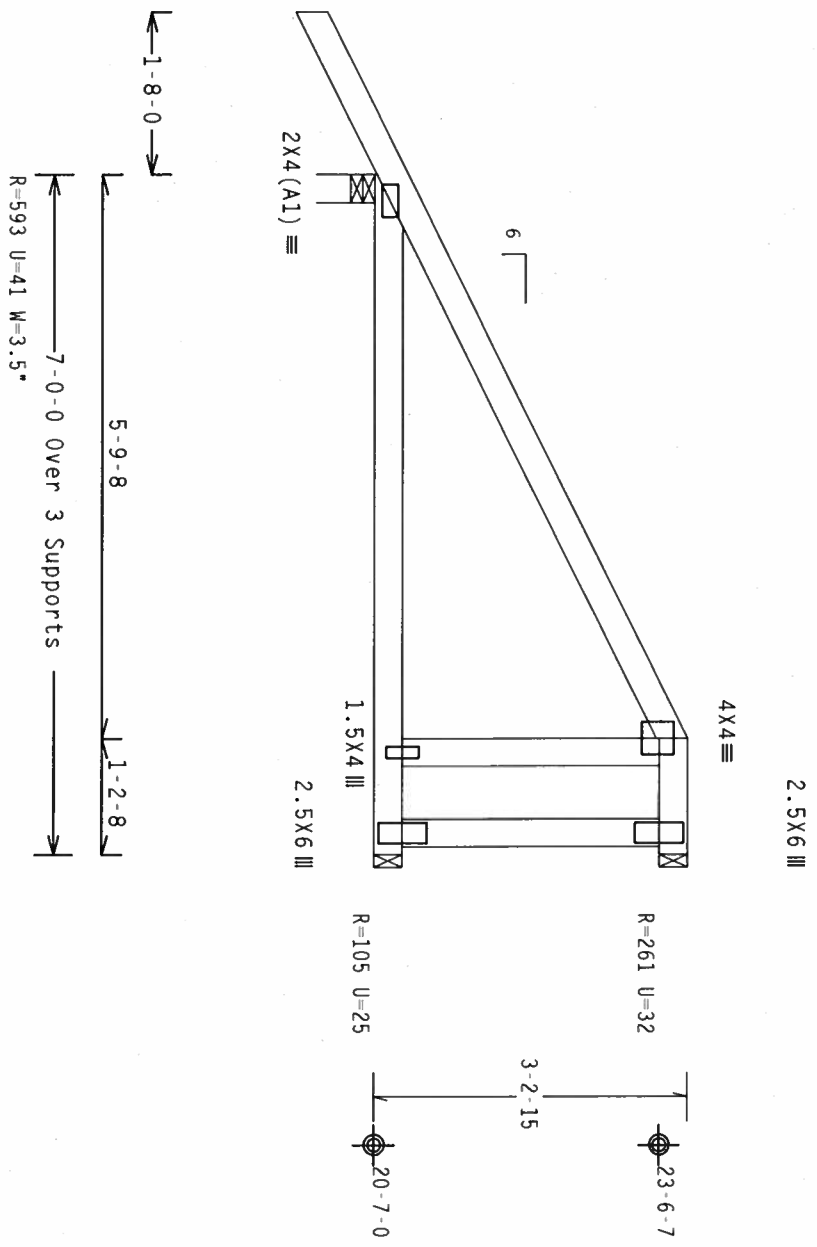
TC LL	30.0 PSF	REF R8228- 40108
TC DL	15.0 PSF	DATE 05/21/07
BC DL	10.0 PSF	DRW HCUSR8228 07141079
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	55.0 PSF	SEON- 25371
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1T738228Z02

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

110 mph wind, 21.96 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $Gcpl(+/-)=0.18$   
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



PLT TYP. Wave

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

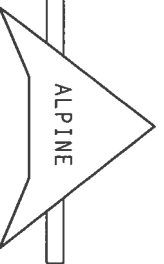
7.36

FL/-/4/-/R/-

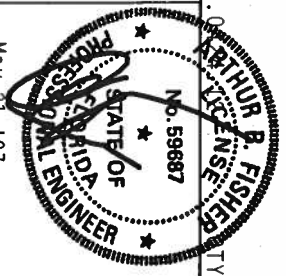
Scale = .5"/ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (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, 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 COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTIONS ARE MADE OF 20/18/16GA (W/H/SS/RS) ASTM A653 GRADE 40/80 (W, K/H/SS) GALV. STEEL. APPLY GALV. PROTECTION TO ALL EXPOSED SURFACES. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2. THIS SPECIFICATION OF MATERIALS AND BY THESE MEANS SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



TC LL	30.0 PSF	REF	R8228- 40109
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141086
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	25064
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T738228Z02

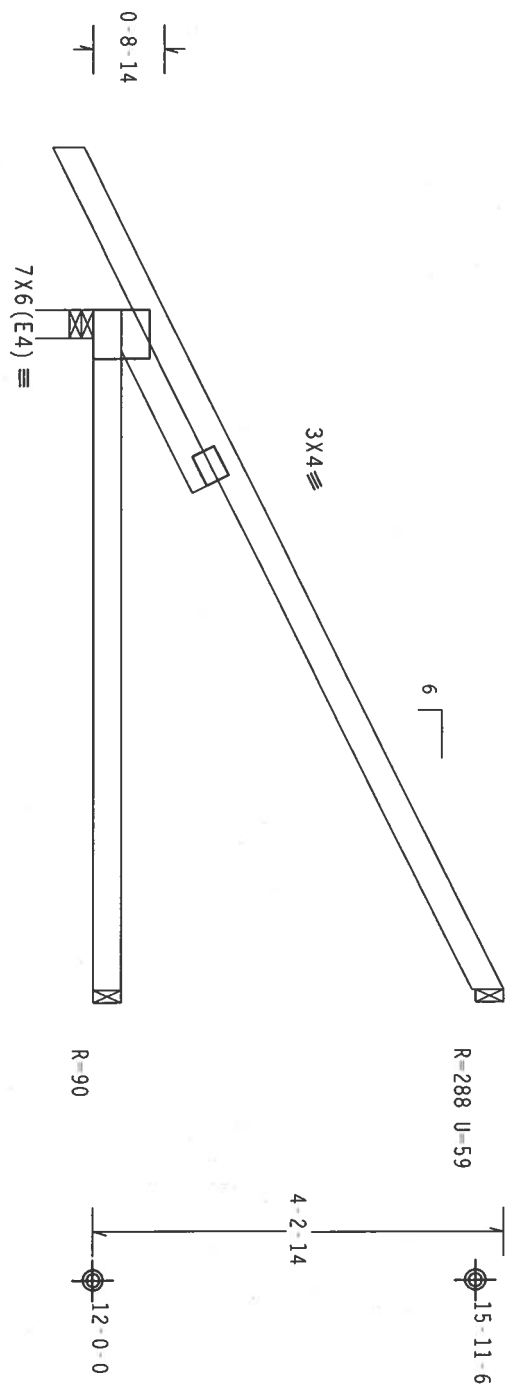




Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Lt Slider 2x4 SP #3: BLOCK LENGTH = 2.011'

Wind reactions based on MMFRS pressures.

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=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$   
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

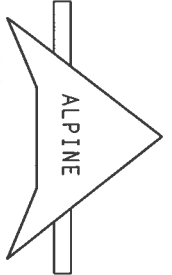
Design Crit: TPI-2002(STD) /FBC  
 Cq/RT=1.00(1.25)/10(0)

TY:1 FL/-/4/-/R/-

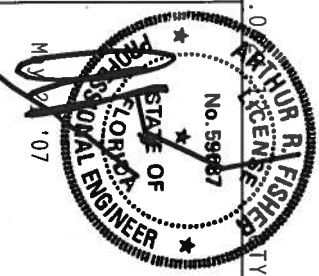
Scale =.5"/ft.

**\*\*WARNINGS\*\* 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 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. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. BY A/R/P/A) AND TPI. DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY A/R/P/A) AND TPI. ITM BCG CONNECTION PLATES ARE MADE OF 20218/16GA (W/H/S/S) ASH A653 GRADE 40/80 (W. 6/16/15) GALV. STEEL. APPLY TAPES SPECIFIC TO EACH TRUSS AND, UNLESS OTHERWISE SPECIFIED, POSITION PER DRAWINGS. ITM BCG SHALL BE RESPONSIBLE FOR THE DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.**



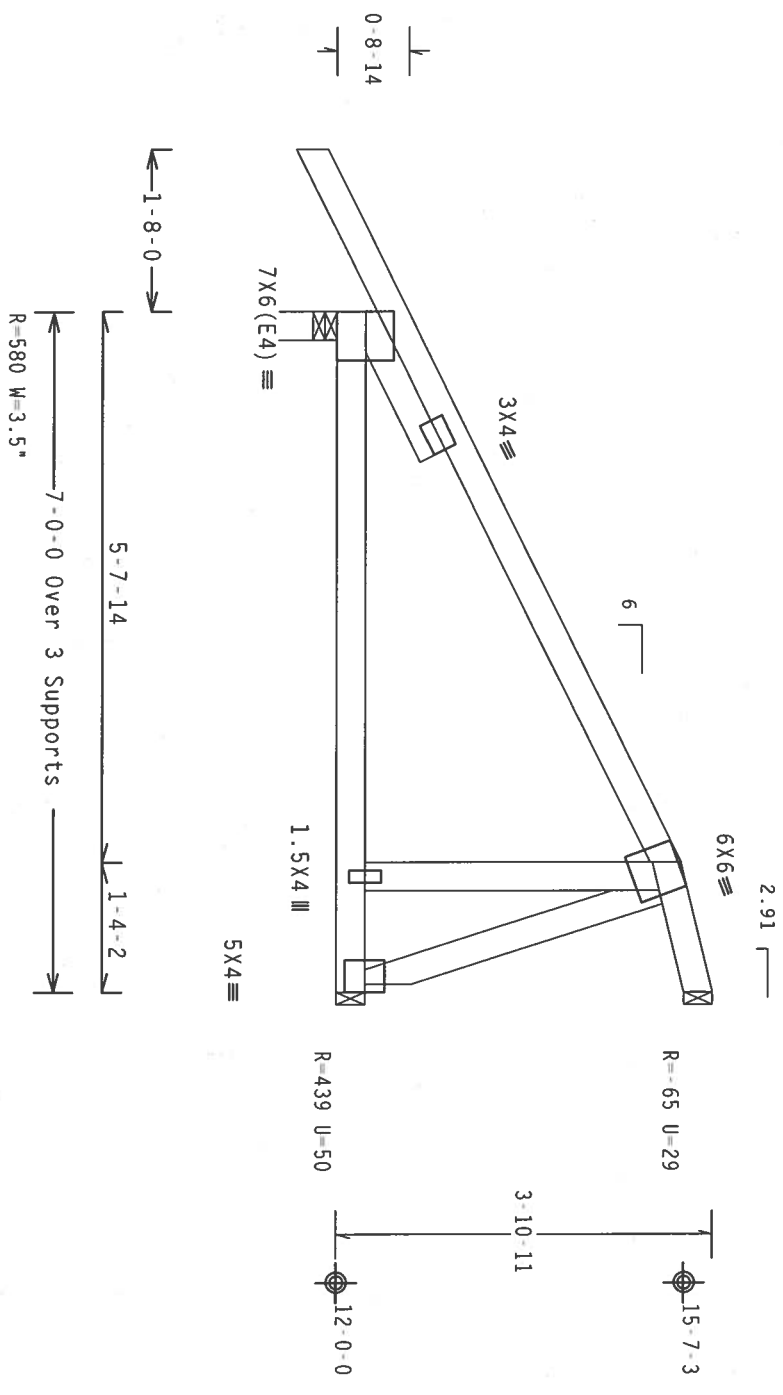
ITW Building Components Group, Inc.  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 547



TC LL	30.0 PSF	REF	R8228- 40111
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141042
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	25073
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T738228202

Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3  
 Slider 2x4 SP #3: BLOCK LENGTH = 1.635'  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $Gcpi(+/-)=0.18$   
 Wind reactions based on MWFRS pressures.



PLT TYP. Wave

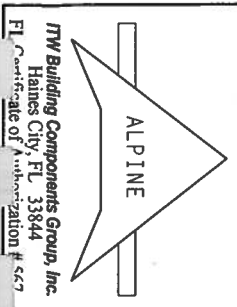
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 Cq/RT=1.00(1.25)/10(0)

7.36.0

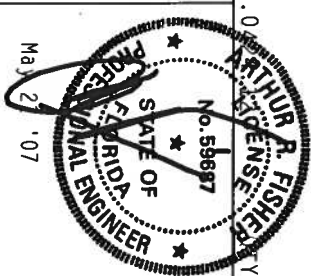
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**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP BUILDING COMPONENT ASSEMBLY INFORMATION SYSTEM (BCSIS) FOR TRUSS MANUFACTURING AND BRACING. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WICK (WOOD TRUSS COMPANY OF AMERICA, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/C) ASTM A653 GRADE 40/60 (W. K/M, SSI GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002 SEC. 3. FOR THE TRUSS COMPONENT SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE DESIGNER SHALL BE RESPONSIBLE FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

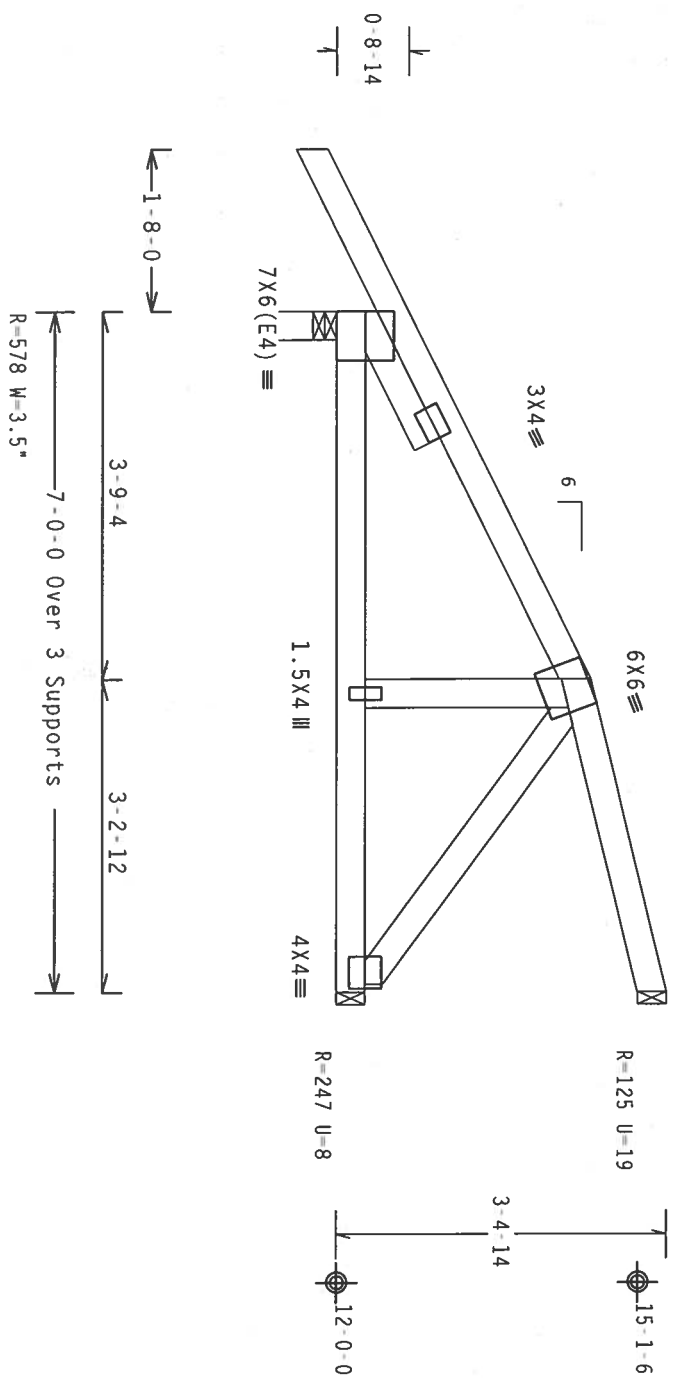


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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCU5R8228 07141040
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEGN-	25085
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T738228202

Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3  
 Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCP(+/-)=0.18$   
 Wind reactions based on MMFRS pressures.



PLT TYP. Wave

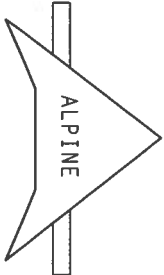
Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0)

ARTHUR R. FISHER  
 PROFESSIONAL ENGINEER  
 No. 69687  
 STATE OF FLORIDA

Scale = .5"/ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI BUILDING COMPONENTS SHEET 101 TRUSSES FOR THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD) TRUSS COUNCIL OF AMERICA, 100 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TIV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/R) ASTM A653 GRADE 40/60 (W, K/M, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (T) SHALL BE PER AMER AS OF TPI-1-2002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE SIGNATURE AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMSI/TPI 1 SEC. 2.



TIV Building Components Group, Inc.  
 Haines City, FL 33844  
 State of Florida License No. 11773

ARTHUR R. FISHER  
 PROFESSIONAL ENGINEER  
 No. 69687  
 STATE OF FLORIDA  
 May 21 '07

FL	/4	/-R/-	Scale = .5"/ft.
TC LL	30.0	PSF	REF R8228-40113
TC DL	15.0	PSF	DATE 05/21/07
BC DL	10.0	PSF	DRW HCURS8228 07141041
BC LL	0.0	PSF	HC-ENG JB/AF
TOT. LD.	55.0	PSF	SEQN- 25088
DUR. FAC.	1.25		FROM JFB
SPACING	24.0"		UREF- 1T7J8228Z02

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

Wind reactions based on MMFRS pressures.

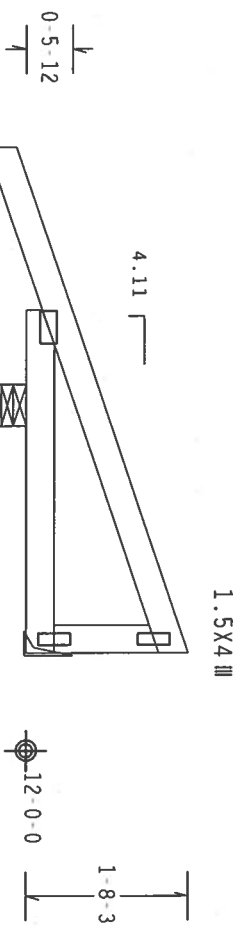
Sub fascia beam assumptions: 3-8-0 sub fascia beam on the 0-6-8 cantilever side. 3-8-0 sub-fascia beam on the 0-6-8 cantilever side.

Hipjack supports 2-5-14 setback jacks with 0-6-8 cantilever one face; 0-6-8 cantilever opposite face.

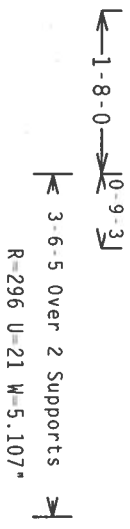
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_Cp(+/-)=0.18$

The following trusses need concentrated loads at the end of their overhangs: 2-5-14 span/setback member on the 0-6-8 cant side requires 29 lbs and the 2-5-14 span/setback member on the 0-6-8 cant side requires 29 lbs.

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



R=43 H-Simpson SUL24  
 W/ (4) 10d, 0.148"x1.5" nails in Truss  
 W/ (4) 10d Common, 0.148"x3.0" nails in Girder  
 Girder is (1)2X6 min. (H)



PLT TYP. Wave

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

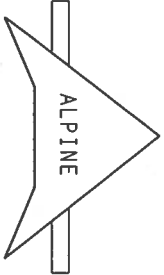
7.36 0

FL/-/4/-/R/-

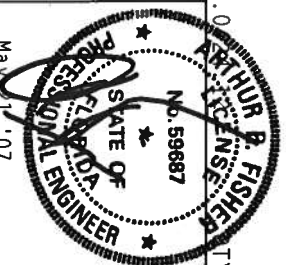
Scale =.5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. MEMBER DESIGN (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 WEST LEE STREET, WASHINGTON, MI 48090), IS THE BASIS FOR THE DESIGN OF THESE TRUSSES. 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 TO ANY FAILURE OF THE TRUSS IN COMPLIANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. TPI BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (M/N/SS/K) ASH 6653 GRADE 40/60 (W, K/N/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TW Building Components Group, Inc.  
 Haines City, FL 33844  
 State of Florida



TC LL	30.0 PSF	REF	R8228-40114
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141002
BC LL	0.0 PSF	HC-ENG	RA/AF
TOT.LD.	55.0 PSF	SEON-	25091
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228202

Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3  
 Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

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=7.5 psf, Wind BC DL=5.0 psf. 1w=1.00 Gcpl(+/-)=0.18

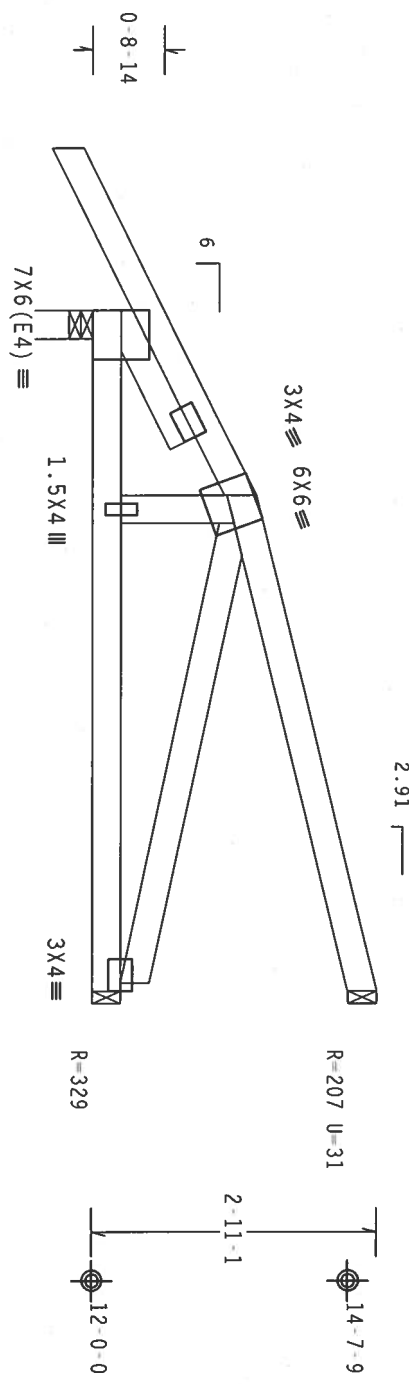
Wind reactions based on MMFRS pressures.

**SPECIAL LOADS**

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	94 PLF at -1.67 to 1.89	94 PLF at 1.89 to 7.00
TC - From	91 PLF at 1.89 to 7.00	4 PLF at 0.00 to 7.00
BC - From	4 PLF at -1.67 to 7.00	20 PLF at 7.00
BC - From	20 PLF at 0.00 to 1.98	
BC -	43 LB Conc. Load at 1.98	
BC -	265 LB Conc. Load at 4.72	

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



1-10-11  
 7-0-0 Over 3 Supports  
 R=630 U=38 W=3.5\*

PLT TYP. Wave

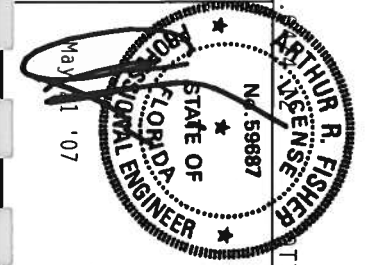
Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.36

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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, SAFETY INFORMATION, SAFETY INFORMATION, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NICK (COND. TRUSS COUNCIL OF AMERICA, ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

INSTRUCTIONS: PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATION FOR THE DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TPI 1 SEC. 2.

ALPINE  
 TW Building Components Group, Inc.  
 Gaines City, FL 33844  
 FL Certificate of Registration # 527



TC LL	30.0 PSF	REF R8228- 40115
TC DL	15.0 PSF	DATE 05/21/07
BC DL	10.0 PSF	DRW HCUSR8228 07141046
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	55.0 PSF	SEON- 25094
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T708228Z02

Scale = .5"/ft.

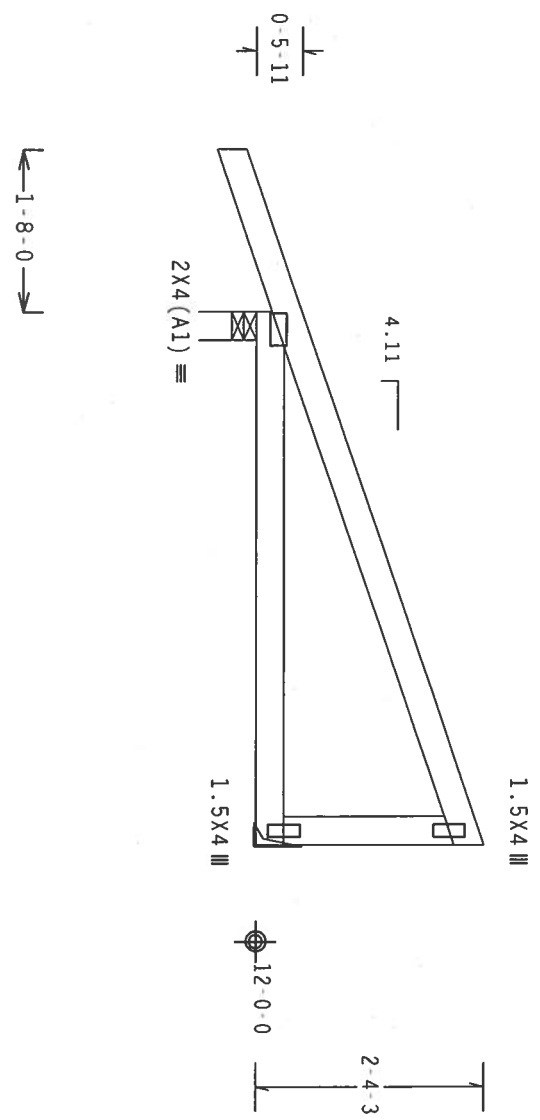
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$

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)

7.36.0

FL/-/4/-/R/-

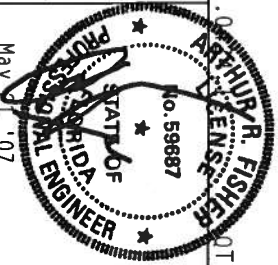
Scale = .5"/ft.

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DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. TPI BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/A) ASTM A653 GRADE 40/50 (W. K/M/SS) GALV. STEEL. APPLY PLATES EACH SIDE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED, POSITION PER DRAWINGS 160A, 2, 160B, 160C, 160D, 160E, 160F, 160G, 160H, 160I, 160J, 160K, 160L, 160M, 160N, 160O, 160P, 160Q, 160R, 160S, 160T, 160U, 160V, 160W, 160X, 160Y, 160Z.

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TW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 557

TC LL	30.0 PSF	REF	R8228-40116
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141049
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	25135
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T7J8228Z02

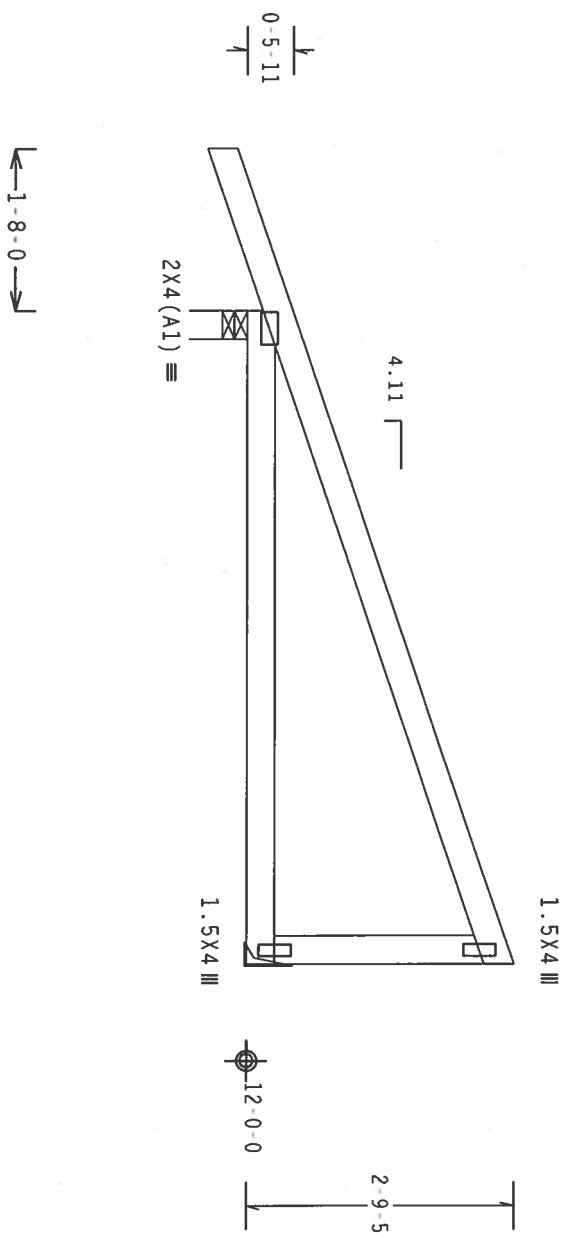
Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 1, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)=0.18

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)

7.36.00

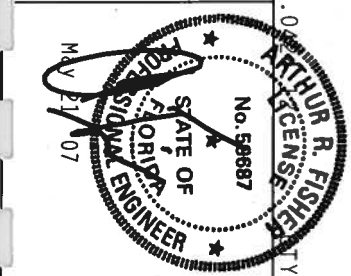
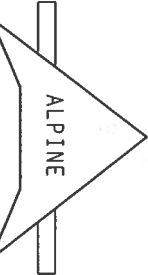
FL/-/4/-/R/-

Scale = .5"/ft.

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ITW BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 160B, 160C, 160D, 160E, 160F, 160G, 160H, 160I, 160J, 160K, 160L, 160M, 160N, 160O, 160P, 160Q, 160R, 160S, 160T, 160U, 160V, 160W, 160X, 160Y, 160Z, 160AA, 160AB, 160AC, 160AD, 160AE, 160AF, 160AG, 160AH, 160AI, 160AJ, 160AK, 160AL, 160AM, 160AN, 160AO, 160AP, 160AQ, 160AR, 160AS, 160AT, 160AU, 160AV, 160AW, 160AX, 160AY, 160AZ, 160BA, 160BB, 160BC, 160BD, 160BE, 160BF, 160BG, 160BH, 160BI, 160BJ, 160BK, 160BL, 160BM, 160BN, 160BO, 160BP, 160BQ, 160BR, 160BS, 160BT, 160BU, 160BV, 160BW, 160BX, 160BY, 160BZ, 160CA, 160CB, 160CC, 160CD, 160CE, 160CF, 160CG, 160CH, 160CI, 160CJ, 160CK, 160CL, 160CM, 160CN, 160CO, 160CP, 160CQ, 160CR, 160CS, 160CT, 160CU, 160CV, 160CW, 160CX, 160CY, 160CZ, 160DA, 160DB, 160DC, 160DD, 160DE, 160DF, 160DG, 160DH, 160DI, 160DJ, 160DK, 160DL, 160DM, 160DN, 160DO, 160DP, 160DQ, 160DR, 160DS, 160DT, 160DU, 160DV, 160DW, 160DX, 160DY, 160DZ, 160EA, 160EB, 160EC, 160ED, 160EE, 160EF, 160EG, 160EH, 160EI, 160EJ, 160EK, 160EL, 160EM, 160EN, 160EO, 160EP, 160EQ, 160ER, 160ES, 160ET, 160EU, 160EV, 160EW, 160EX, 160EY, 160EZ, 160FA, 160FB, 160FC, 160FD, 160FE, 160FF, 160FG, 160FH, 160FI, 160FJ, 160FK, 160FL, 160FM, 160FN, 160FO, 160FP, 160FQ, 160FR, 160FS, 160FT, 160FU, 160FV, 160FW, 160FX, 160FY, 160FZ, 160GA, 160GB, 160GC, 160GD, 160GE, 160GF, 160GG, 160GH, 160GI, 160GJ, 160GK, 160GL, 160GM, 160GN, 160GO, 160GP, 160GQ, 160GR, 160GS, 160GT, 160GU, 160GV, 160GW, 160GX, 160GY, 160GZ, 160HA, 160HB, 160HC, 160HD, 160HE, 160HF, 160HG, 160HH, 160HI, 160HJ, 160HK, 160HL, 160HM, 160HN, 160HO, 160HP, 160HQ, 160HR, 160HS, 160HT, 160HU, 160HV, 160HW, 160HX, 160HY, 160HZ, 160IA, 160IB, 160IC, 160ID, 160IE, 160IF, 160IG, 160IH, 160II, 160IJ, 160IK, 160IL, 160IM, 160IN, 160IO, 160IP, 160IQ, 160IR, 160IS, 160IT, 160IU, 160IV, 160IW, 160IX, 160IY, 160IZ, 160JA, 160JB, 160JC, 160JD, 160JE, 160JF, 160JG, 160JH, 160JI, 160JJ, 160JK, 160JL, 160JM, 160JN, 160JO, 160JP, 160JQ, 160JR, 160JS, 160JT, 160JU, 160JV, 160JW, 160JX, 160JY, 160JZ, 160KA, 160KB, 160KC, 160KD, 160KE, 160KF, 160KG, 160KH, 160KI, 160KJ, 160KK, 160KL, 160KM, 160KN, 160KO, 160KP, 160KQ, 160KR, 160KS, 160KT, 160KU, 160KV, 160KW, 160KX, 160KY, 160KZ, 160LA, 160LB, 160LC, 160LD, 160LE, 160LF, 160LG, 160LH, 160LI, 160LJ, 160LK, 160LL, 160LM, 160LN, 160LO, 160LP, 160LQ, 160LR, 160LS, 160LT, 160LU, 160LV, 160LW, 160LX, 160LY, 160LZ, 160MA, 160MB, 160MC, 160MD, 160ME, 160MF, 160MG, 160MH, 160MI, 160MJ, 160MK, 160ML, 160MN, 160MO, 160MP, 160MQ, 160MR, 160MS, 160MT, 160MU, 160MV, 160MW, 160MX, 160MY, 160MZ, 160NA, 160NB, 160NC, 160ND, 160NE, 160NF, 160NG, 160NH, 160NI, 160NJ, 160NK, 160NL, 160NM, 160NO, 160NP, 160NQ, 160NR, 160NS, 160NT, 160NU, 160NV, 160NW, 160NX, 160NY, 160NZ, 160OA, 160OB, 160OC, 160OD, 160OE, 160OF, 160OG, 160OH, 160OI, 160OJ, 160OK, 160OL, 160OM, 160ON, 160OO, 160OP, 160OQ, 160OR, 160OS, 160OT, 160OU, 160OV, 160OW, 160OX, 160OY, 160OZ, 160PA, 160PB, 160PC, 160PD, 160PE, 160PF, 160PG, 160PH, 160PI, 160PJ, 160PK, 160PL, 160PM, 160PN, 160PO, 160PP, 160PQ, 160PR, 160PS, 160PT, 160PU, 160PV, 160PW, 160PX, 160PY, 160PZ, 160QA, 160QB, 160QC, 160QD, 160QE, 160QF, 160QG, 160QH, 160QI, 160QJ, 160QK, 160QL, 160QM, 160QN, 160QO, 160QP, 160QQ, 160QR, 160QS, 160QT, 160QU, 160QV, 160QW, 160QX, 160QY, 160QZ, 160RA, 160RB, 160RC, 160RD, 160RE, 160RF, 160RG, 160RH, 160RI, 160RJ, 160RK, 160RL, 160RM, 160RN, 160RO, 160RP, 160RQ, 160RR, 160RS, 160RT, 160RU, 160RV, 160RW, 160RX, 160RY, 160RZ, 160SA, 160SB, 160SC, 160SD, 160SE, 160SF, 160SG, 160SH, 160SI, 160SJ, 160SK, 160SL, 160SM, 160SN, 160SO, 160SP, 160SQ, 160SR, 160SS, 160ST, 160SU, 160SV, 160SW, 160SX, 160SY, 160SZ, 160TA, 160TB, 160TC, 160TD, 160TE, 160TF, 160TG, 160TH, 160TI, 160TJ, 160TK, 160TL, 160TM, 160TN, 160TO, 160TP, 160TQ, 160TR, 160TS, 160TT, 160TU, 160TV, 160TW, 160TX, 160TY, 160TZ, 160UA, 160UB, 160UC, 160UD, 160UE, 160UF, 160UG, 160UH, 160UI, 160UJ, 160UK, 160UL, 160UM, 160UN, 160UO, 160UP, 160UQ, 160UR, 160US, 160UT, 160UU, 160UV, 160UW, 160UX, 160UY, 160UZ, 160VA, 160VB, 160VC, 160VD, 160VE, 160VF, 160VG, 160VH, 160VI, 160VJ, 160VK, 160VL, 160VM, 160VN, 160VO, 160VP, 160VQ, 160VR, 160VS, 160VT, 160VU, 160VV, 160VW, 160VX, 160VY, 160VZ, 160WA, 160WB, 160WC, 160WD, 160WE, 160WF, 160WG, 160WH, 160WI, 160WJ, 160WK, 160WL, 160WM, 160WN, 160WO, 160WP, 160WQ, 160WR, 160WS, 160WT, 160WU, 160WV, 160WW, 160WX, 160WY, 160WZ, 160XA, 160XB, 160XC, 160XD, 160XE, 160XF, 160XG, 160XH, 160XI, 160XJ, 160XK, 160XL, 160XM, 160XN, 160XO, 160XP, 160XQ, 160XR, 160XS, 160XT, 160XU, 160XV, 160XW, 160XX, 160XY, 160XZ, 160YA, 160YB, 160YC, 160YD, 160YE, 160YF, 160YG, 160YH, 160YI, 160YJ, 160YK, 160YL, 160YM, 160YN, 160YO, 160YP, 160YQ, 160YR, 160YS, 160YT, 160YU, 160YV, 160YW, 160YX, 160YY, 160YZ, 160ZA, 160ZB, 160ZC, 160ZD, 160ZE, 160ZF, 160ZG, 160ZH, 160ZI, 160ZJ, 160ZK, 160ZL, 160ZM, 160ZN, 160ZO, 160ZP, 160ZQ, 160ZR, 160ZS, 160ZT, 160ZU, 160ZV, 160ZW, 160ZX, 160ZY, 160ZZ

ITW Building Components Group, Inc.  
 Haines City, FL 33844  
 PLT Certificate of Authorization # 527



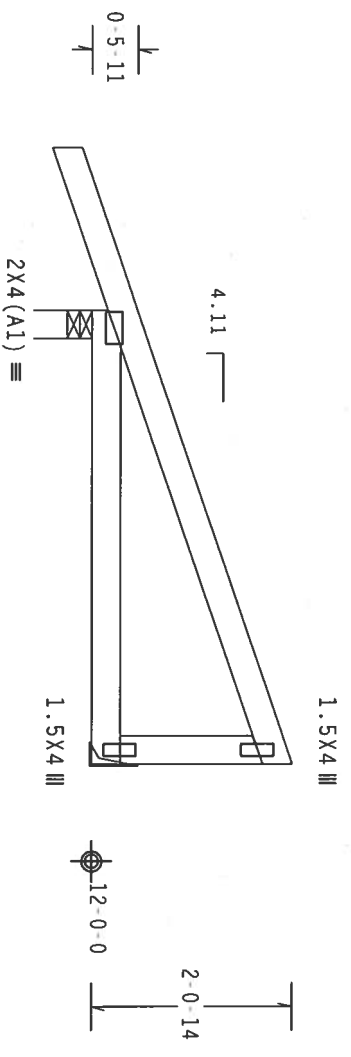
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TC DL	15.0 PSF	DATE 05/21/07
BC DL	10.0 PSF	DRW HCUSR8228 07141050
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	55.0 PSF	SEON- 25138
DUR. FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T738228202

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)=0.18

Right end vertical not exposed to wind pressure.



← 1-8-0 →  
← 4-7-14 Over 2 Supports →  
R=464 U=13 W=3.5"      R=217 U=11

PLT TYP. Wave

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

7.36.0

FL/-/4/-/R/-

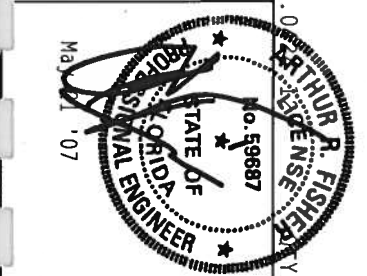
Scale = .5"/ft.

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

TW Building Components Group, Inc.  
Haines City, FL 33844  
FL State Registration # 547



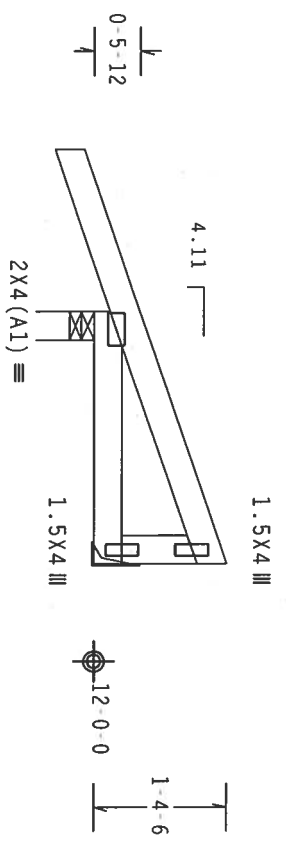
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUR8228 07141051
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SECN-	25132
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228202



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

Wind reactions based on MMFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCPI(+/-)=0.18  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



← 1-8-0 →  
 2-7-1 Over 2 Supports  
 R-378 U=25 W=3.5"  
 R-72 U-3

PLT TYP. Wave

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

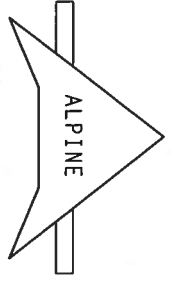
7.36.0

FL/-/4/-/R/-

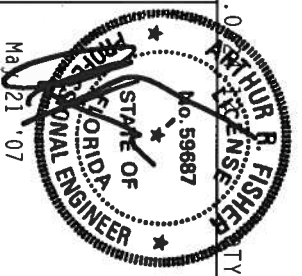
Scale = .5" / Ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC01 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22319) 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. 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 COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/RAI) AND TPI. DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/RAI) AND TPI. TPI BCG PLATES TO EACH FACE MADE TO 2018/180M (W/1/52/S) ASH A85A GRADE 40/50 (W/ 47M/52) GALV. STEEL. APPLY 2.0X DEFLECTION PERMITTED PER TPI-2002 SEC 11.10 PER DRAWING ON 15. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY 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.



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



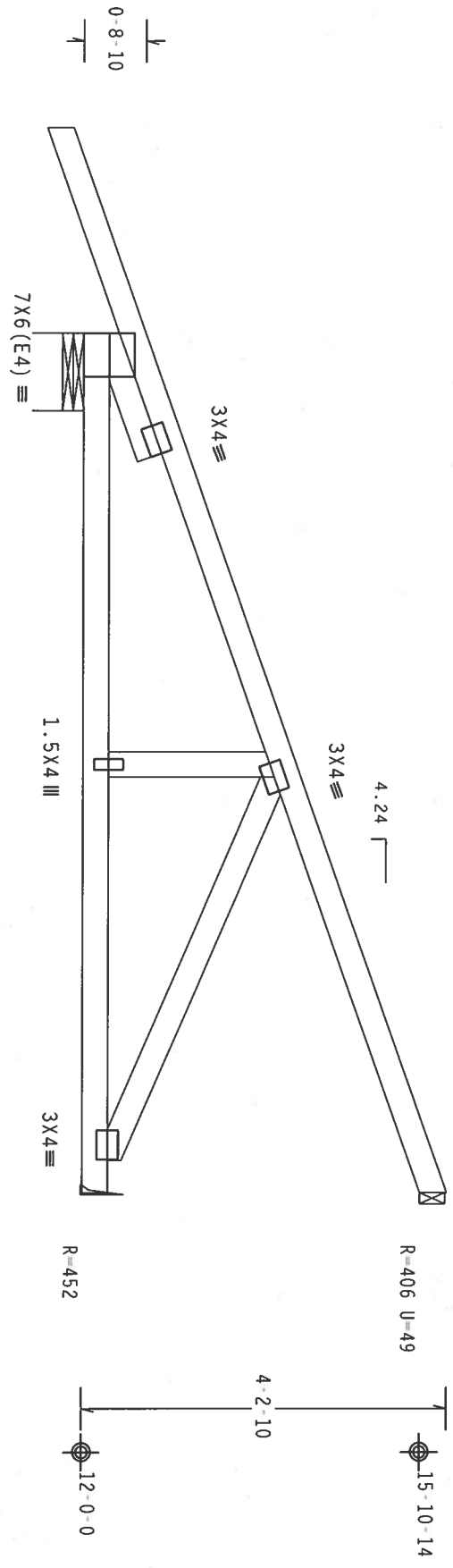
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141052
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	25142
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JDEF-	1T738228Z02



Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3  
 Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
 Wind reactions based on MWFRS pressures.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

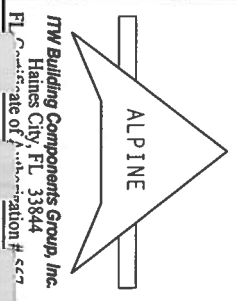


2-4-5  
 9-10-13 Over 3 Supports  
 R=673 U-24 W-10.607"

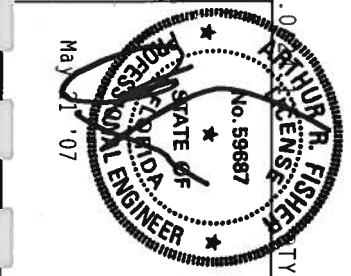
PLT TYP. Wave

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

Scale = .5"/ft.  
 REF R8228-40121  
 DATE 05/21/07



**ALPINE**  
 TFW Building Components Group, Inc.  
 Haines City, FL 33844  
 FL State License No. 59887  
 \*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING PRACTICES AND THE TRUSS MANUFACTURER'S INSTRUCTIONS. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF THE TRUSS. THE TRUSS MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED BY THE INSTALLER. THE TRUSS MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED BY THE INSTALLER. THE TRUSS MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED BY THE INSTALLER.  
 \*\*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 TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.  
 CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS) ASTM A653 GRADE 40/60 (W/ R/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER POSITIONING AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

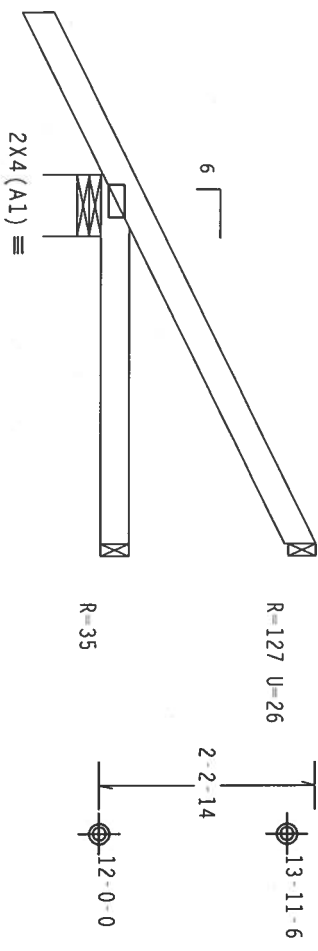


TC LL	30.0 PSF	REF R8228-40121
TC DL	15.0 PSF	DATE 05/21/07
BC DL	10.0 PSF	DRW HCUSR8228 07141031
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	55.0 PSF	SEON- 25149
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T7J8228Z02

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

Wind reactions based on MMFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 GCpl(+/-)=0.18  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



← 1-8-0 →  
← 3-9-6 Over 3 Supports →  
R=431 U=3 W=7.5"

PLT TYP. Wave

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

7.36.0

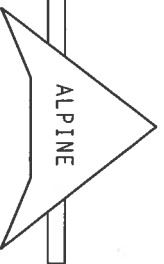
TY:1

FL/-/4/-/1-/R/-

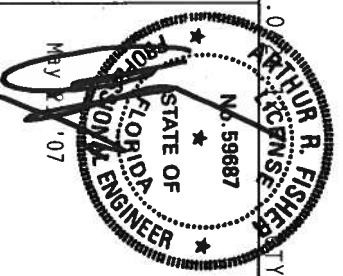
Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 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. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. ITM BCG SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE DESIGN OF THE CONNECTIONS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY A PERSON PERMITTED 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.



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



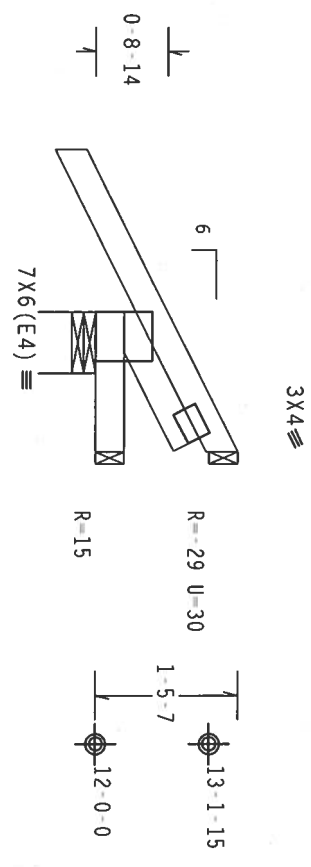
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141033
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	25153
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228202



Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Wind reactions based on MWFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCP1(+/-)=0.18$   
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



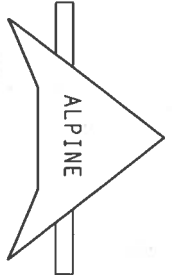
1-8-0  
 1-5-3 Over 3 Supports  
 R=340 U=14 W=7.5"

PLT TYP. Wave

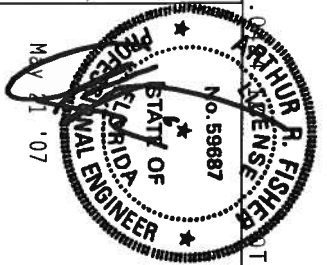
Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0)

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCCA (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 CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. DESIGN CONNECTIONS ARE MADE OF 20/18/16GA (TW/H/SS/TS) ASTM A653 GRADE 40/50 (W, K/H/SS) GALV. STEEL. APPLY ALL RECOMMENDATIONS LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-Z. ANY DEVIATION FROM THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE TRUSS CONTRACTOR. THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY IN ACCORDANCE WITH THE DESIGN SHOW. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
 Gaines City, FL 33844  
 PL Certificate of Authorization # 547



FL/-/4/-/-/R/- Scale = .5"/ft.

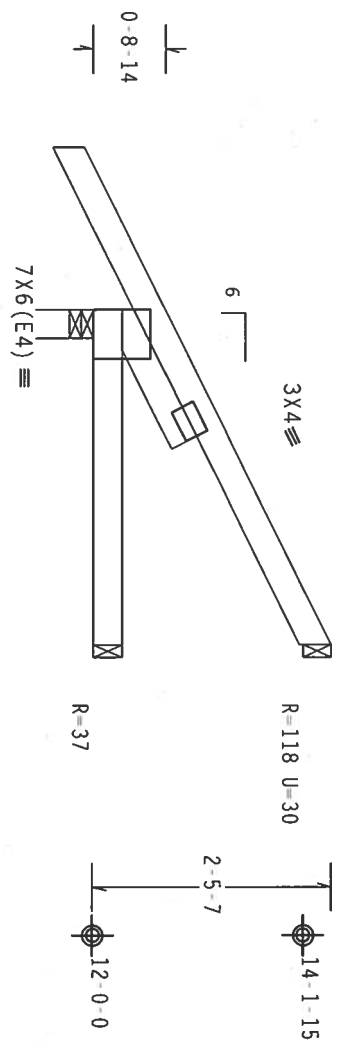
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TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141026
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEQN-	25160
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T738228Z02

Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Wind reactions based on MMFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $Gcpl(+/-)=0.18$

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



PLT TYP. Wave

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

7.36.0

FL/-/4/-/R/-

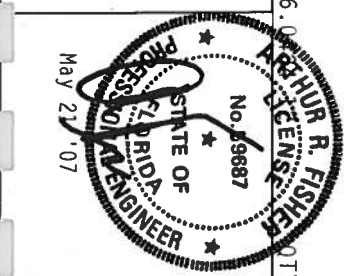
Scale = .5"/ft.

**ALPINE**

TTW Building Components Group, Inc.  
 Gaines City, FL 33844

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE MANUFACTURER'S INSTRUCTIONS AND THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 13TH EDITION, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND WICK (GOOD) TRUSS COUNCIL OF AMERICA, 6000 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 THIS TRUSS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASH 16G3 GRADE 40/60 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA 4A OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER'S USE. ITW BCG SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ASCE 101.1 SEC. 4.

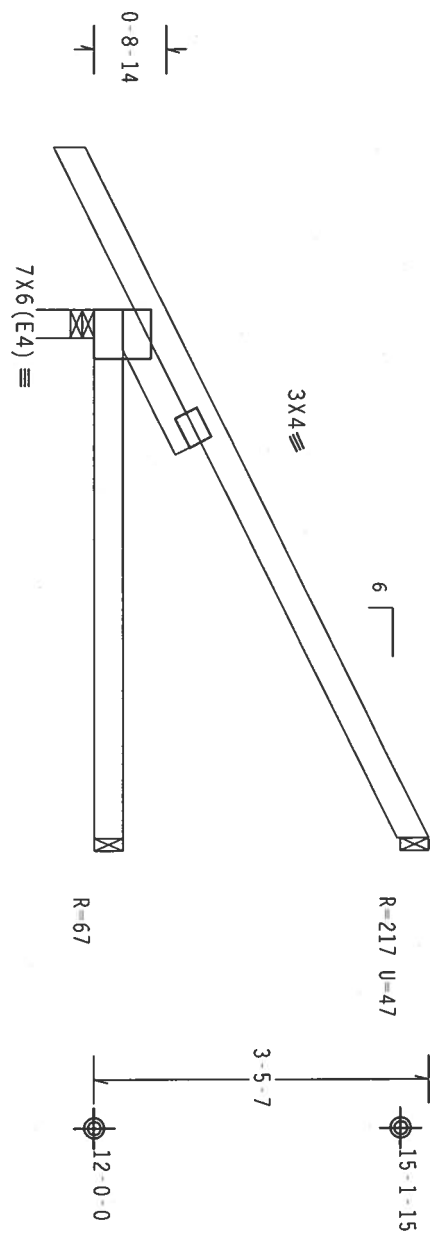


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TC DL	15.0 PSF	DATE 05/21/07
BC DL	10.0 PSF	DRW HCUSR8228 07141036
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	55.0 PSF	SEON- 25163
DUR. FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T738228Z02

Top Chord 2x4 SP #2 Dense  
 Bot Chord 2x4 SP #2 Dense  
 Lt Silder 2x4 SP #3: BLOCK LENGTH = 1.573'

Wind reactions based on MMFRS pressures.

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=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

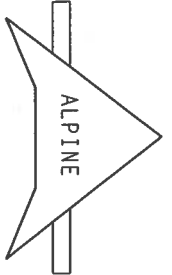
7.36.00

FL/-/4/-/R/-

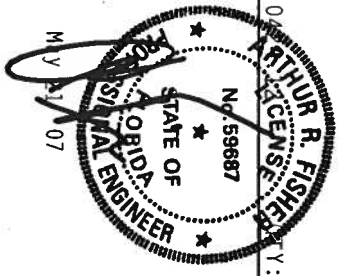
Scale = .5"/ft.

**\*\*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 WICK (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.**

**\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AERRA) AND TPI. CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/RS) ASTM A653 GRADE 40/80 (W. K/P/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. 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  
 Florida State of Registration # 672



TC LL	30.0 PSF	REF	R8228- 40126
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141035
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SECON-	25166
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228202







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

**SPECIAL LOADS**

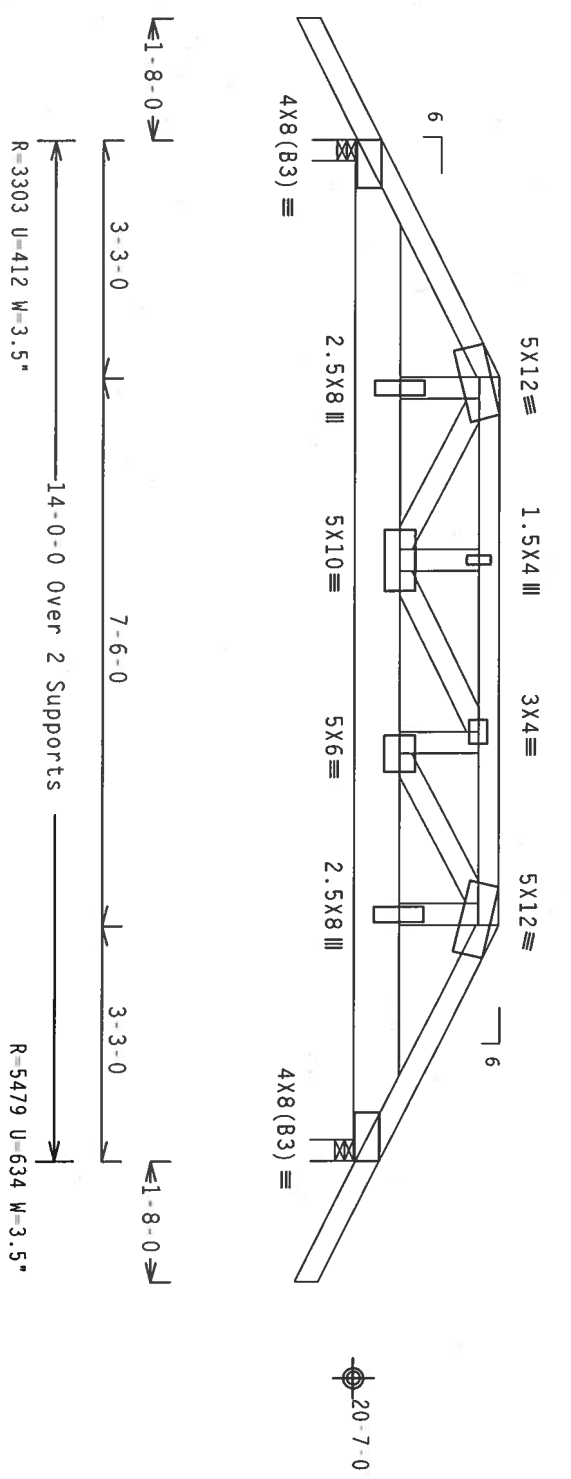
(LUMBER DUR. FAC = 1.25 / PLATE DUR. FAC = 1.25)  
 TC - From 94 PLF at -1.67 to 94 PLF at 3.25  
 TC - From 94 PLF at 3.25 to 94 PLF at 10.75  
 TC - From 94 PLF at 10.75 to 94 PLF at 15.67  
 BC - From 4 PLF at -1.67 to 4 PLF at 0.00  
 BC - From 20 PLF at 0.00 to 20 PLF at 14.00  
 BC - From 4 PLF at 14.00 to 4 PLF at 15.67  
 BC - 3245 LB Conc. Load at 7.06  
 BC - 1207 LB Conc. Load at 9.06, 11.06, 13.06

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

**2 COMPLETE TRUSSES REQUIRED**

Nailing Schedule: (12d Common (0.148"x3.25",\_min\_)\_nails)  
 Top Chord: 1 Row @12.00" O.C.  
 Bot Chord: 1 Row @ 3.75" 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, 21.33 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gdpl(+/-)=0.18

Wind reactions based on MMFRS pressures.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



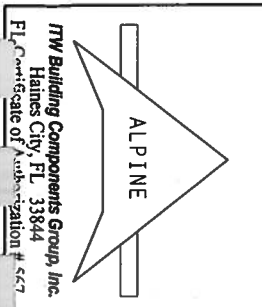
PLT TYP. Wave

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

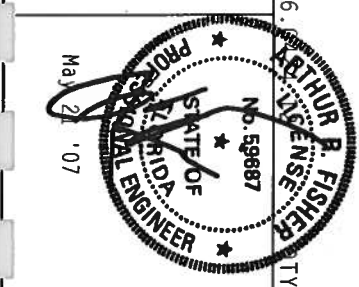
7.36

FL/-/4/-/1/R/-

Scale = .375"/ft.



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 600 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WPCA (WOOD TRUSS COUNCIL OF AMERICA, 600 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 TO CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, BY A/R/P/A AND TPI. DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY A/R/P/A) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/R) ASH/ASA GRADE 40/50 (W, K/W, S) GALV. STEEL. APPLY ALL DIMENSIONS AND CONNECTIONS AS SHOWN ON THIS DESIGN. POSITION PER DRAWINGS 160A, 2. ANY INSPECTION OF PLATES FOLLOWED BY ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DRAWING. INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	30.0 PSF	REF	R8228-40129
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141073
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24737
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

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

110 mph wind, 21.26 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCP1(+/-)=0.18$

Wind reactions based on MMFRS pressures.

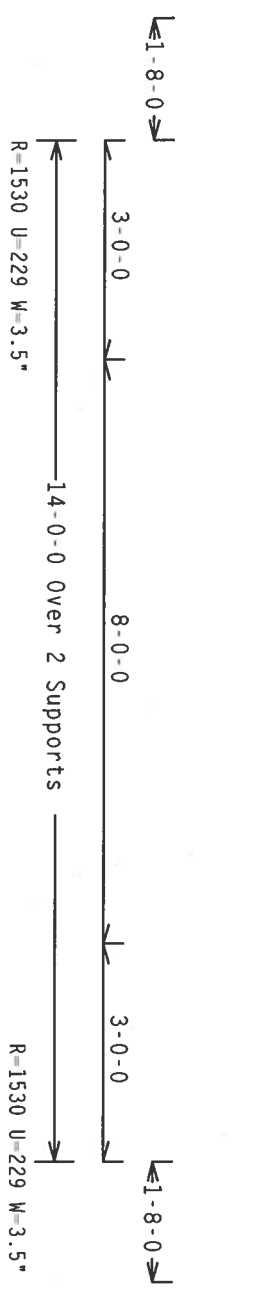
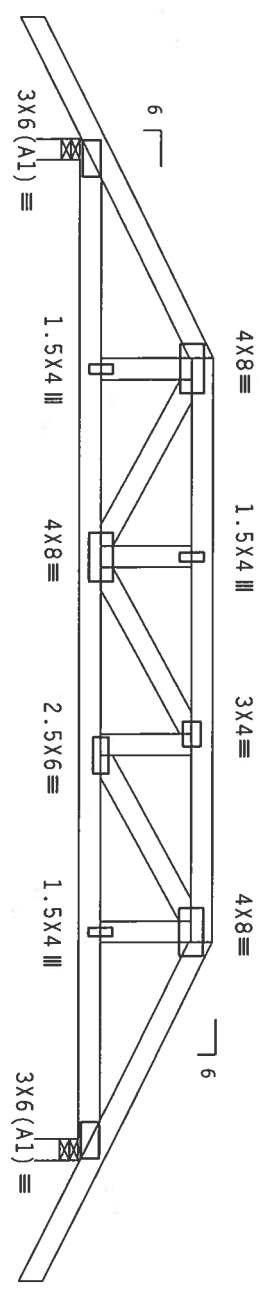
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

**SPECIAL LOADS**

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	94 PLF at -1.67 to 3.00	94 PLF at 3.00 to 11.00
TC - From	94 PLF at 3.00 to 11.00	94 PLF at 11.00 to 15.67
TC - From	94 PLF at 11.00 to 15.67	4 PLF at 0.00 to 20 PLF at 14.00
BC - From	4 PLF at -1.67 to 0.00	20 PLF at 14.00 to 4 PLF at 15.67
BC - From	20 PLF at 0.00 to 4 PLF at 14.00	4 PLF at 14.00 to 3.06, 10.94
TC - From	4 PLF at 14.00 to 3.06, 10.94	TC - 157 LB Conc. Load at 5.06, 7.00, 8.94
TC - From	3.06, 10.94	BC - 157 LB Conc. Load at 3.06, 10.94
BC - From	3.06, 10.94	BC - 86 LB Conc. Load at 5.06, 7.00, 8.94



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.36-0

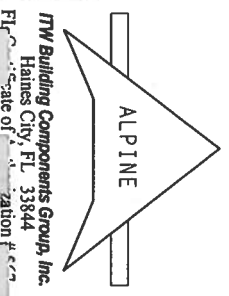
ARTHUR R. FISHER  
 No. 59867  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

FL/-/4/-/R/-

Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSD (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCCA (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 AF&PA) AND TPI. CONNECTOR PLATES MADE OF 20/18/16GA (W/H/S/S/R) ASTM A653 GRADE 40/60 (W. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. PLATES ON EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DRAMAING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



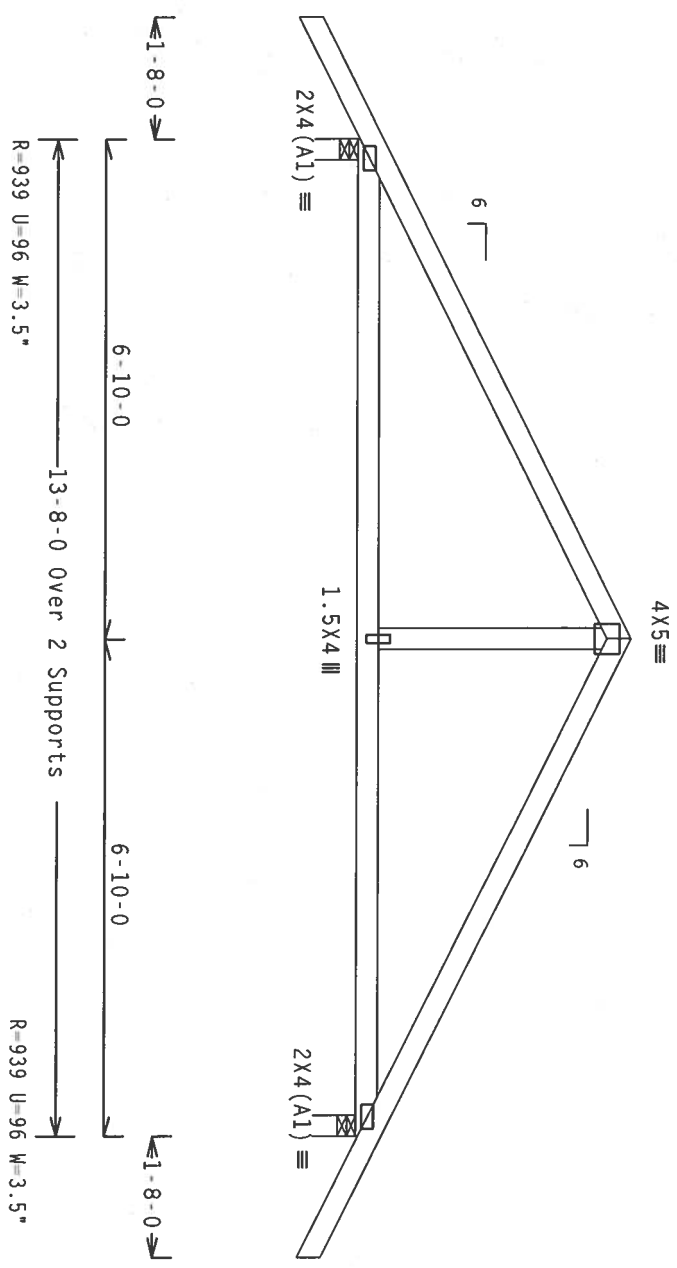
TW Building Components Group, Inc.  
 Haines City, FL 33844  
 Phone: 888-333-3333

TC LL	30.0 PSF	REF	R8228- 40130
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 0714107Z
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	25001
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T7J8228202

( 7-101R-- Isaac Construction SUNIL PATEL RES. , \*\* - L1 )  
 Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

110 mph wind, 22-22 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $Gcpl(+/-)=0.18$   
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

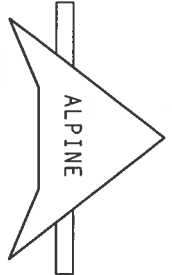


PLT TYP. Wave

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

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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. DESIGNER OR FABRICATOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. ITM BCG DESIGNER OR FABRICATOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PERFORMED BY TPI. TPI SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THIS TRUSS. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY IS THE RESPONSIBILITY OF THE DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS1/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
 Haines City, FL 33844  
 PLT Certificate of Approval # 447



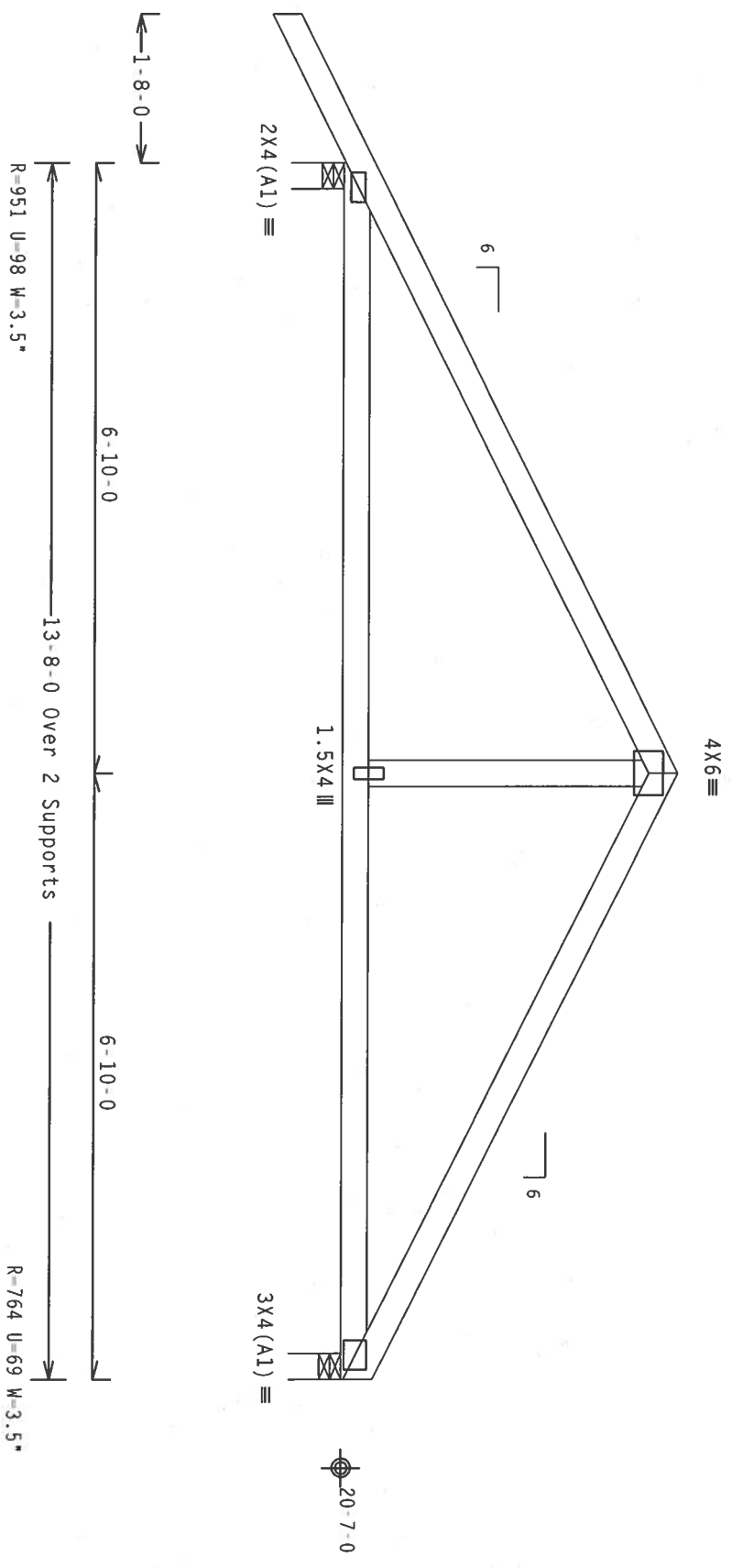
TC LL	30.0 PSF	REF	R8228- 40131
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141087
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24/47
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T738228202

Scale = .375"/ft.

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

Wind reactions based on MMFRS pressures.

110 mph wind, 22.22 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD) /FBC  
 Cq/RT=1.00(1.25)/10(0) 7.36-0

QUANTITY: 1 FL/-/4/-/R/-

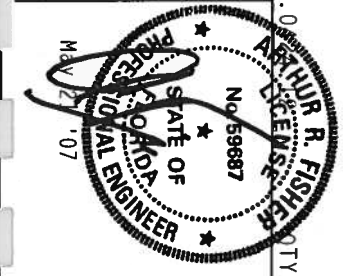
Scale =.5"/ft.

**ALPINE**

**ITW Building Components Group, Inc.**  
 Haines City, FL 33844  
 Florida State of Registration # 672

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI, 6200 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NICK (GOOD) TRUSS COUNCIL OF AMERICA, 537191 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY A/E/P/A AND TPI. ITW BCG DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY A/E/P/A) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 20/18/15GA (M/H/SS/S) ASTM A653 GRADE 40/60 (M. P/H/SS) GALV. STEEL. APPLY ANTI-CORROSION COATING TO ALL EXPOSED SURFACES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ALL CONNECTIONS SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC.3.3 OR THE TRUSS COMPONENT DRAWING INDICATES THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

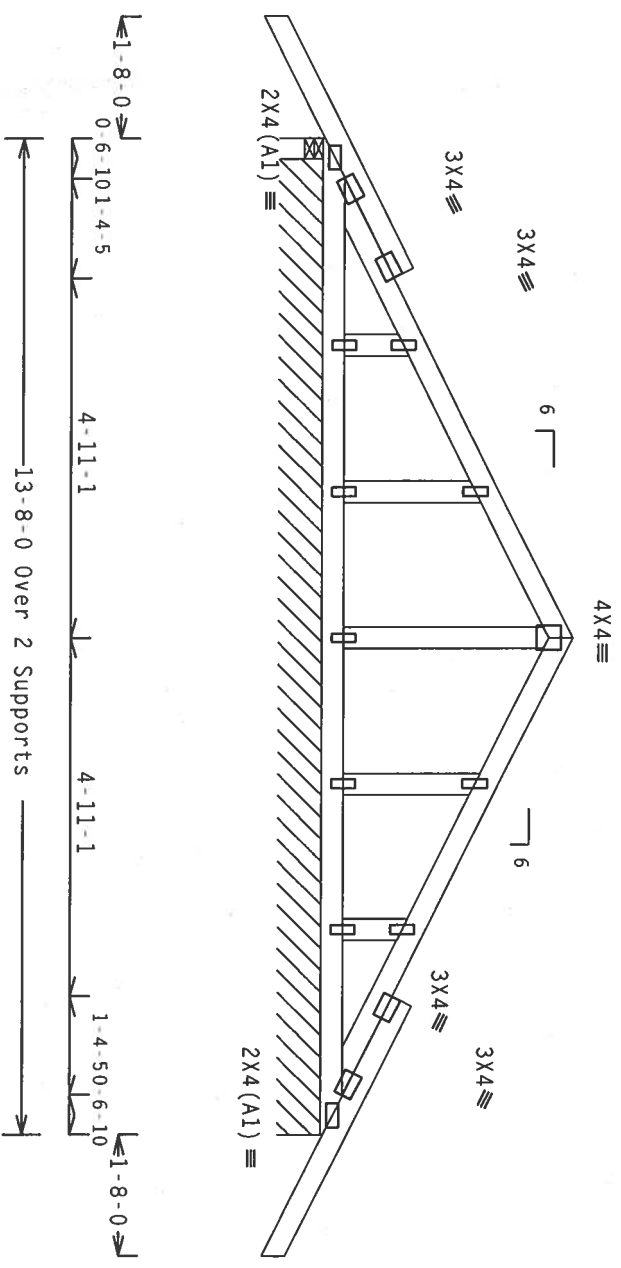


TC LL	30.0 PSF	REF	R8228- 40132
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141089
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	24750
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	177J8228202

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

Wind reactions based on MMFRS pressures.  
 See DMGS A11030EED0207 & GBLETTIN0207 for more requirements.

110 mph wind, 22.06 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

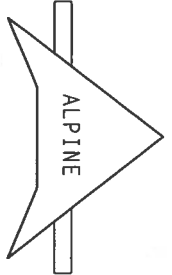


Note: All Plates Are 1.5X4 Except As Shown.  
 Design Crit: TPI-2002(STD) /FBC  
 Cq/RT=1.00(1.25)/10(0) 7.36  
 R=451 U=247 W=3.5"  
 R=129 PLF U=14 PLF W=13 4-8

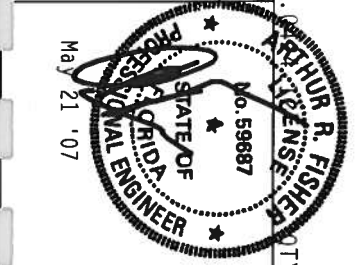
PLT TYP. Wave

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 600 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. TFW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY A/R/P/A) AND TPI. TFW BCG DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY A/R/P/A) AND TPI. TFW BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SSVS) ASTM A653 GRADE 40/60 (W/ R/H/SS) GALV. STEEL. APPLY PLATES TO CHORDS OF TRUSSES AND WEBS SHALL BE 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.



TFW Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Registration # 547



TC LL	30.0 PSF	REF	R8228- 40133
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUR8228 07141076
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	24759
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	177J8228202

Scale = .375"/ft.









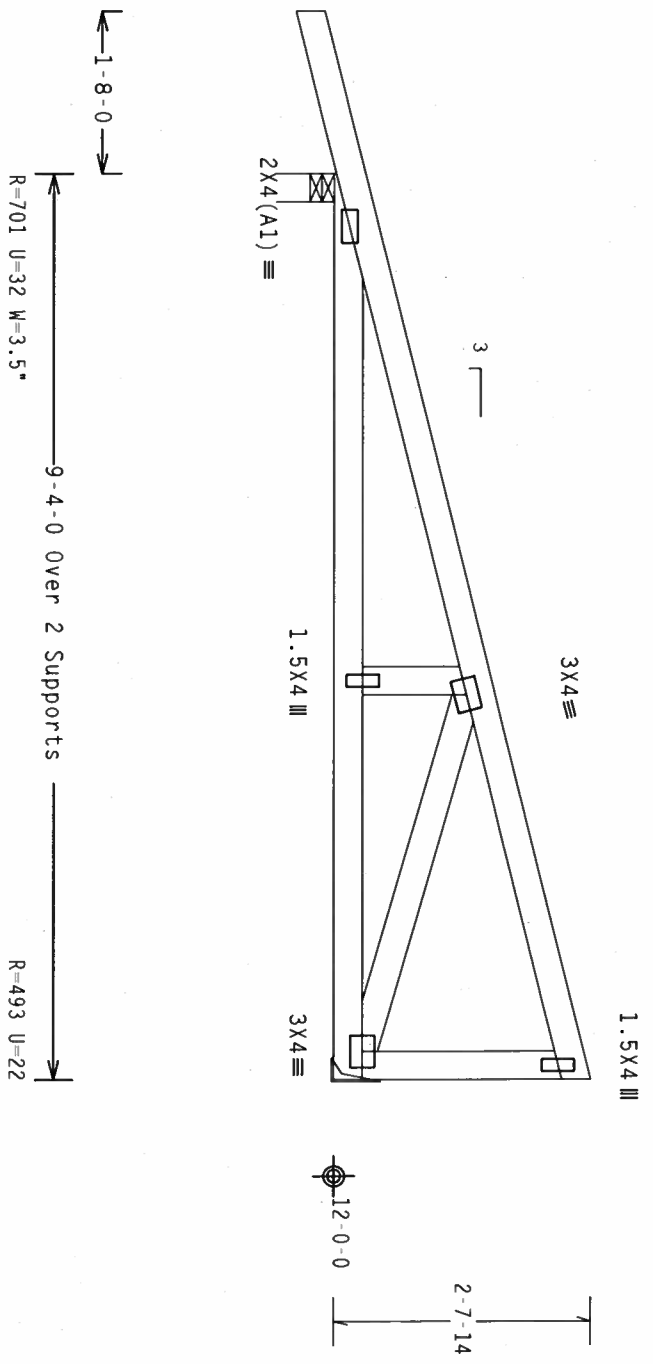
Top Chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18

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)

7.36.0

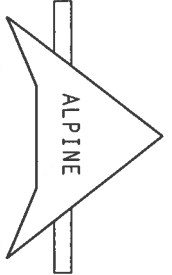
FL/-/4/-/1/R/-

Scale =.5"/ft.

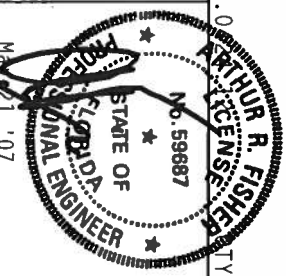
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6000 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 ACPA) AND TPI. ITW BCG PLATES SPECIFIED ARE MADE OF 20/18/16GA (CM/H/SSVS) ASTM A653 GRADE 40/80 (CM, K/P, SSI) GALV. STEEL. APPLY CONNECTION PLATE PER PAGE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. 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  
 State of Florida License # 17738228202



TC LL	30.0 PSF	REF	R8228- 40137
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141055
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEON-	24658
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	17738228202



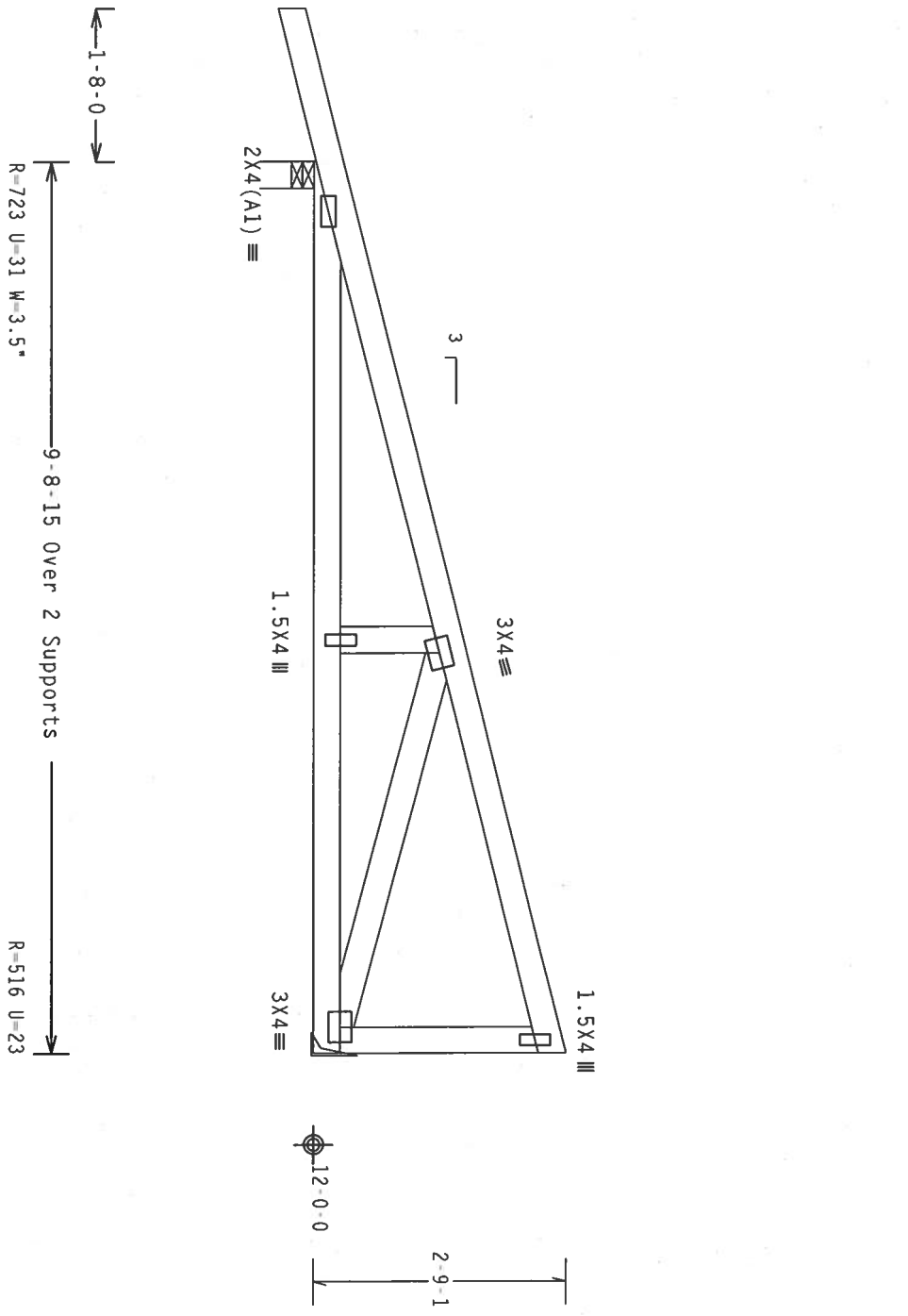
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf, lw=1.00 Gcpl(+/-)=0.18

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) 7.36

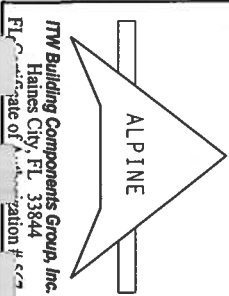
FL/-/4/-/1/-/R/-

Scale = .5"/ft.

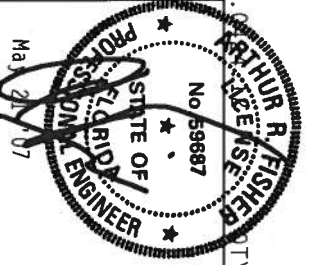
**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE SOURCE FOR TRUSS MANUFACTURER'S INSTRUCTIONS. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND NITC (NATIONAL TRUSS COUNCIL OF AMERICA), ENTERPRISE LANE, MOTION, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. JTW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE OF TRUSS IN COMPLIANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TPI. JTW BCG CONNECTOR PLATES ARE MADE OF 20/10/16GA (M/H/SSK) ASTM A653 GRADE 40/60 (M, R/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160N-2.

INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI 11-2002, SEC. 3.3 FOR THE T-35 COMPONENT DESIGN SHOWN. STATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TW Building Components Group, Inc.  
Haines City, FL 33844  
Registration # 577



TC LL	30.0 PSF	REF	R8228- 40139
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141057
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24671
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02

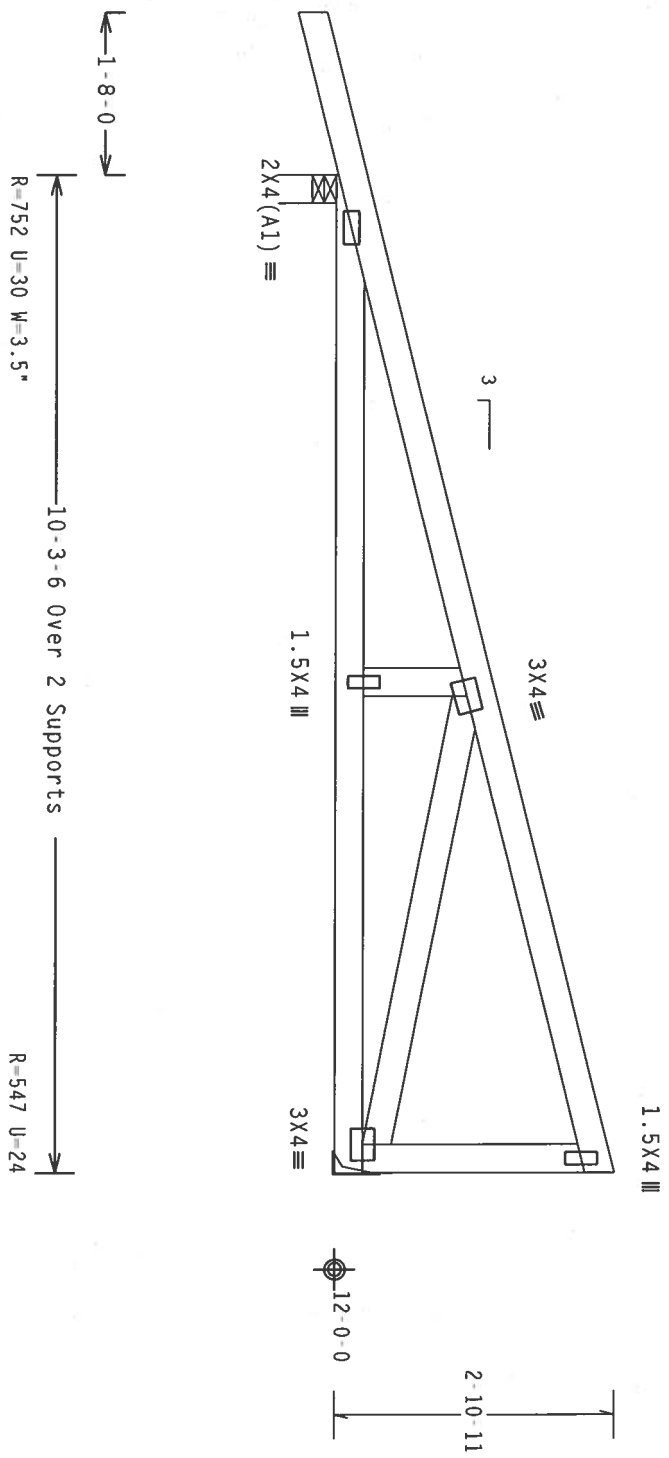
Top Chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18

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)

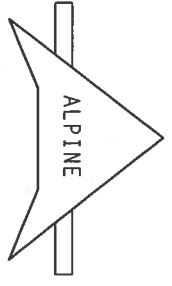
7.36.0

FL/-/4/-/1-/-/R/-

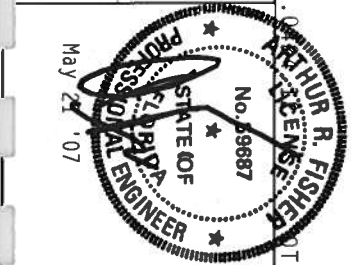
Scale = .5" / Ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO ACESI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 212, ALEXANDRIA, VA, 22314) AND NCA (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. BY AFRIA) AND TPI. DESIGN COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFRIA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/T) ASH/A653 GRADE 40/50 (W, K/W, SSI) GALV. STEEL. APPLY TO ALL TRUSS MEMBERS. REFER TO TPI DRAWING 100-100-100 FOR CONNECTIONS PER DRAWING 100-100-100. ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PERFORMED BY A TPI DESIGNER. TPI SHALL BE RESPONSIBLE FOR THE DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL State of Registration # 577

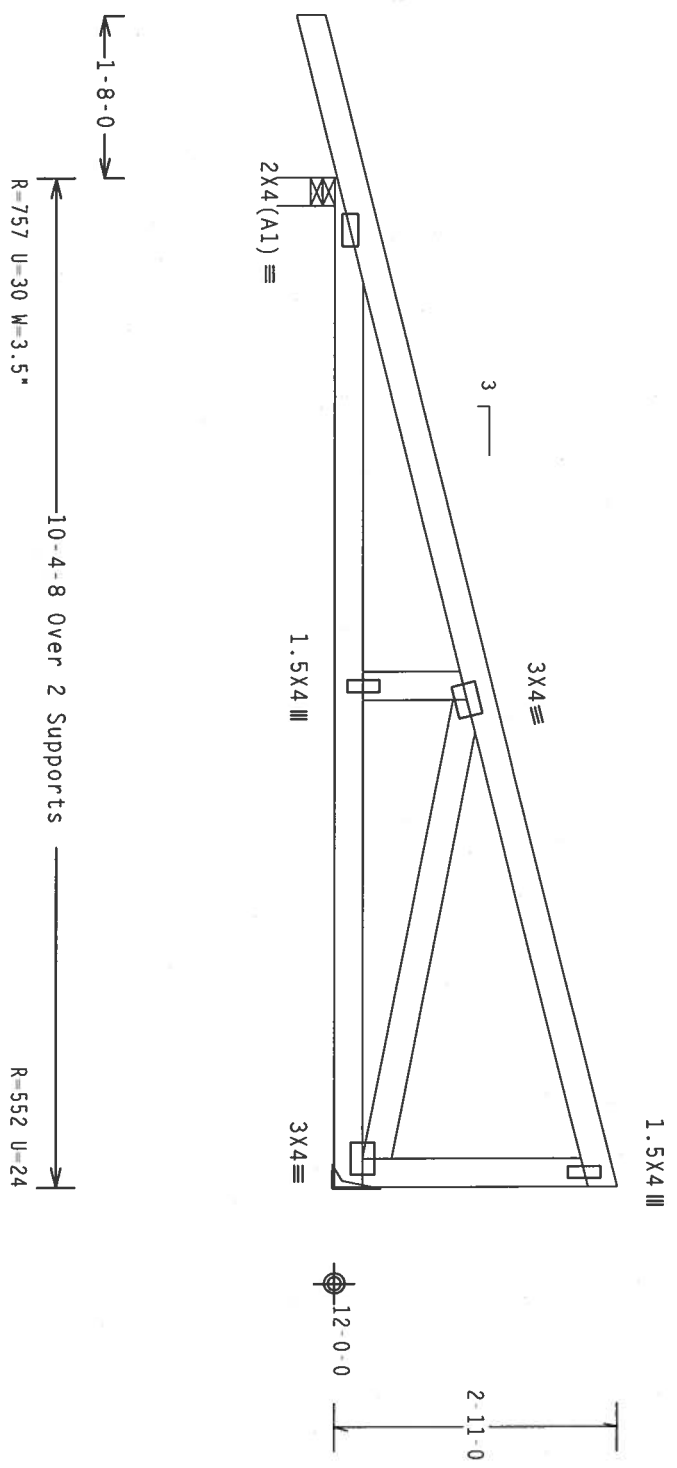


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BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	55.0 PSF	SEGN-	24677
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T738228202

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$   
 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)

7.36

TY:1

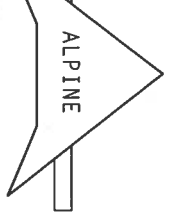
FL/-/4/-/1-/R/-

Scale = .5" / Ft.

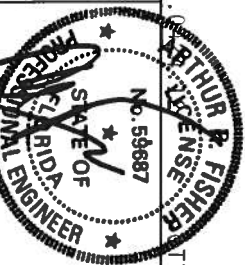
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WPCA (WOOD TRUSS COUNCIL OF AMERICA,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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASA) AND TPI. ITM BCG DESIGNER'S PLAN MADE OF 20/18/16GA (W/H/SS/S) ASTM A653 GRADE 40/80 (W. 67M/55) GALV. STEEL. APPLY 2.5X MINIMUM OVERLAP OF ALL MEMBERS. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE TPI DRAWINGS AND TPI SPECIFICATION OF ALTES PROVIDED BY THE MANUFACTURER. THE DESIGNER'S PLAN SHALL BE USED FOR THE TRUSS COMPONENTS 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  
 FL State of Registration # 677



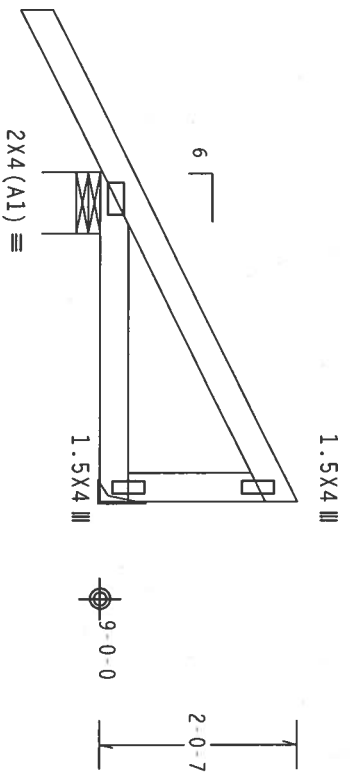
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BC DL	10.0 PSF	DRW	HCSUR8228 07141058
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEON-	24682
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JDEF-	1T7J8228202

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$

Right end vertical not exposed to wind pressure.



3-4-8 Over 2 Supports  
 R=413 U=7 W=7.5"  
 R=133 U=9

PLT TYP. Wave

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

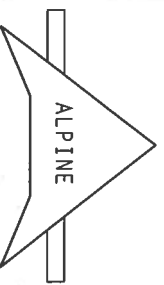
7.36.04

FL/-/4/-/R/-

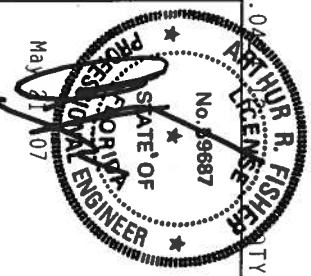
Scale = .5" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NICK (WOOD TRUSS COUNCIL OF AMERICA, 6200 EMERSON 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. TITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY ACPA) AND TPI. TITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. TITW BCG CONNECTIONS ARE MADE OF 20/18/18GA (G/H/SS) ASTM A653 GRADE 40/80 (G/H/SS) GALV. STEEL. APPLY TO ALL CONNECTIONS UNLESS OTHERWISE SPECIFIED ON THIS DESIGN. POSITION PER DRAWINGS 160N, 2. ANY INSPECTION OF PLATES FOLLOWS BY TITW BCG SHALL BE CONDUCTED ON THIS DESIGN. TITW BCG SHALL BE RESPONSIBLE FOR THE DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TITW Building Components Group, Inc.  
 Gaines City, FL 33844  
 Phone: 813-381-1111  
 Fax: 813-381-1112



TC LL	30.0 PSF	REF	R8228- 40142
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07141091
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SECON-	24695
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T7J8228Z02



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

110 mph wind, 21.26 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)=0.18

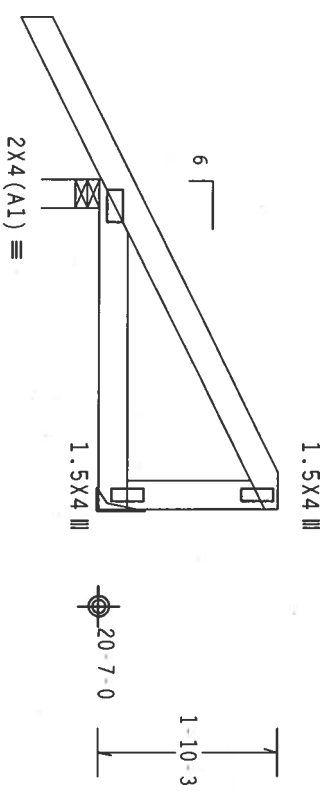
Wind reactions based on MMFRS pressures.

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	94 PLF at -1.67 to	94 PLF at 3.00
BC - From	4 PLF at -1.67 to	4 PLF at 0.00
BC - From	20 PLF at 0.00 to	20 PLF at 3.37
TC - From	190 LB Conc. Load at	3.06
BC - From	113 LB Conc. Load at	3.00

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



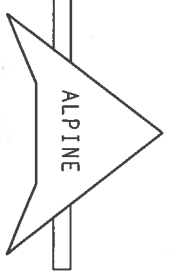
← 1-8-0 →  
 ← 3-4-8 over 2 Supports →  
 R-442 U-71 W-3.5"  
 R-372 U-49

PLT TYP. Wave

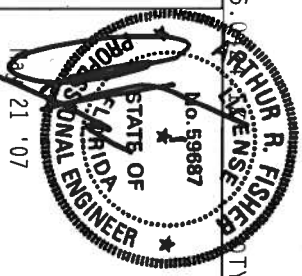
Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.36

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, INCLUDING THE FOLLOWING: 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS, CONC. JOINTS OF AMERICA, 500 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY AFAPA AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. CONNECTION PLATES ARE MADE OF 20/18/18GA (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 LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 18GA.2. NAME AND SPECIFICATION OF PLATES FOLLOWED BY (1) SHALL BE PER AFAPA AS OF TPI-2002 SEC.3.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY OF 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  
 State of Florida Registration # 1778228202



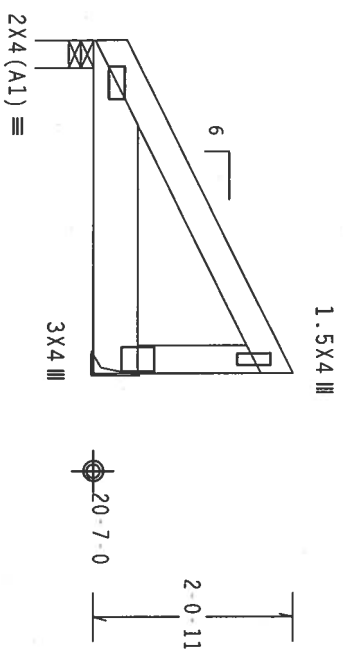
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BC DL	10.0 PSF	DRW HCUSR8228 07141024
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	55.0 PSF	SEQN- 25285
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 177J8228202

Scale = .5" / Ft.

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

SPECIAL LOADS  
LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 94 PLF at 0.00 to 94 PLF at 3.42  
BC - From 563 PLF at 0.00 to 563 PLF at 3.42  
BC - 373 LB Conc. Load at 3.06

110 mph wind, 21.78 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, Wind TC DL=7.5 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18  
Wind reactions based on MWFRS pressures.  
Right end vertical not exposed to wind pressure.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



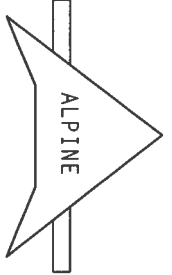
3-5-0 Over 2 Supports  
R=1212 U=133 W=3.5"  
R=1404 U=154

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.36:0

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS SYSTEMS OF AMERICA), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22310 AND NICK (WOOD TRUSS COUNCIL OF AMERICA), ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. JTW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS SYSTEMS OF AMERICA), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22310 AND NICK (WOOD TRUSS COUNCIL OF AMERICA), ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



JTW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Registration # 6747



TC LL	30.0 PSF	REF R8228- 40144
TC DL	15.0 PSF	DATE 05/21/07
BC DL	10.0 PSF	DRW HCUSR8228 07141100
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	55.0 PSF	SEON- 25348
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1T7J8228Z02

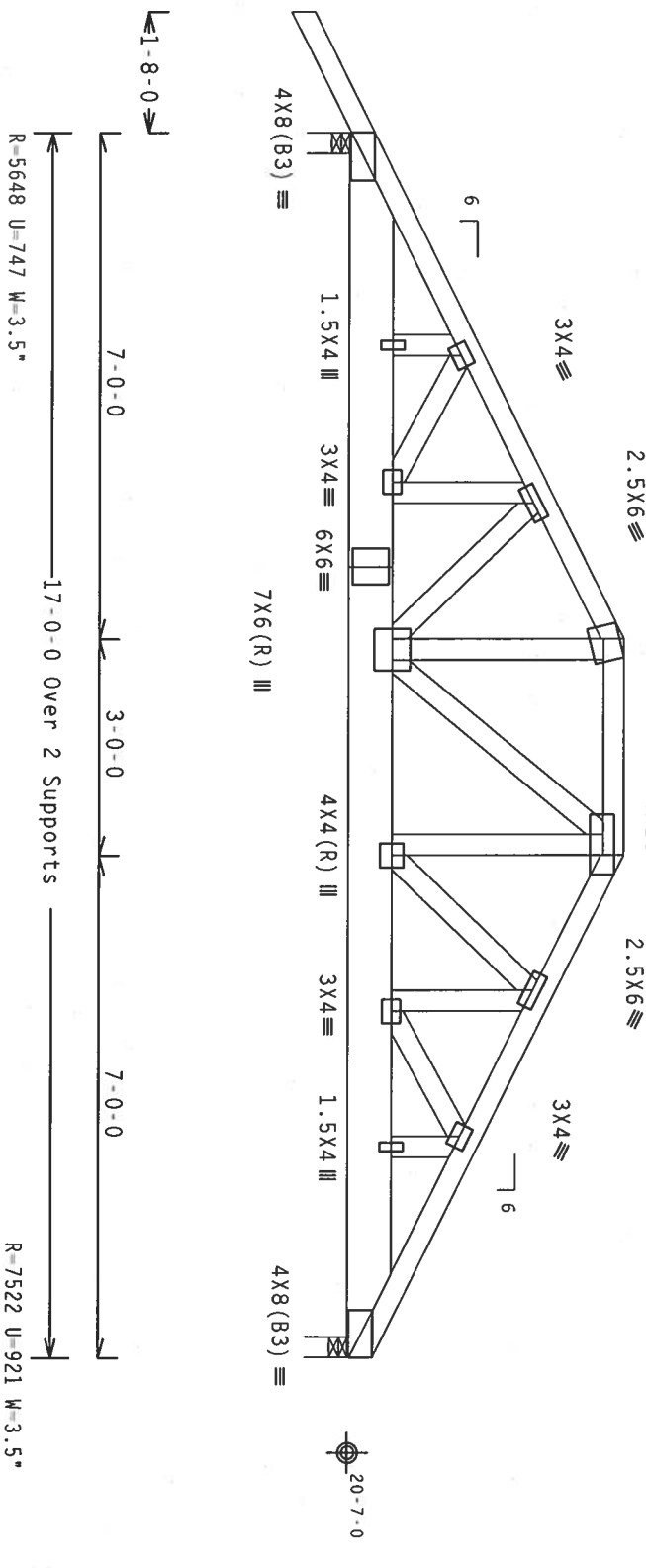
Scale = .5" / Ft.

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

SPECIAL LOADS  
----- (LUMBER DUR.FAC = 1.25 / PLATE DUR.FAC = 1.25)  
TC - From 94 PLF at -1.67 to 94 PLF at 7.13  
TC - From 94 PLF at 7.13 to 94 PLF at 9.88  
TC - From 94 PLF at 9.88 to 94 PLF at 17.00  
BC - From 4 PLF at -1.67 to 4 PLF at 0.00  
BC - From 20 PLF at 0.00 to 20 PLF at 17.00  
PLB- 4459 LB Conc. Load at (7.06, 20.62)  
PLB- 1649 LB Conc. Load at (9.06, 20.62)  
PLB- 1656 LB Conc. Load at (11.06, 20.62), (13.06, 20.62), (15.06, 20.62)

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND TRUSS FABRICATOR TO REVIEW THIS DWG PRIOR TO CUTTING LUMBER TO VERIFY THAT ALL DATA, INCLUDING DIMENSIONS AND LOADS, CONFORM TO THE ARCHITECTURAL PLANS/SPECIFICATIONS AND FABRICATOR'S TRUSS LAYOUT.

**3 COMPLETE TRUSSES REQUIRED**  
Nailing Schedule: (12d Common (0.148"x3.25" min.) nails)  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 3.00" o.c.  
Mebs : 1 Row @ 4" o.c.  
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.  
110 mph wind, 22.29 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf, Iw=1.00 GCF(+/-)=0.18  
Wind reactions based on MWFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.30.



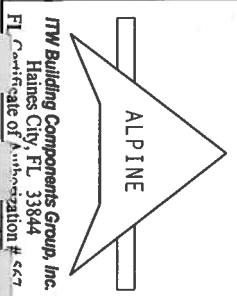
PLT TYP. Wave

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

7.36

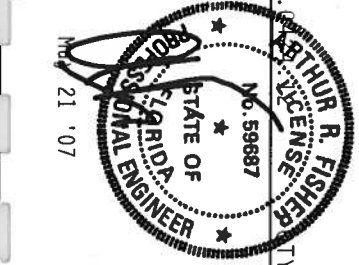
TY.1 FL/-/4/-/R/-

Scale = .375"/ft.



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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE DRAWING FOR ALL DIMENSIONS AND CONNECTIONS. THE TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY AFAPA AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 2018/16GA (M/M/55K) ASTM A653 GRADE 40/60 (M, K/H/55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/HP1 1 SEC. 2.



TC LL	30.0 PSF	REF	R8228-40145
TC DL	15.0 PSF	DATE	05/21/07
BC DL	10.0 PSF	DRW	HCSR8228 07141005
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN-	24901
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	117J8228Z02









# BEARING BLOCK NAIL SPACING DETAIL

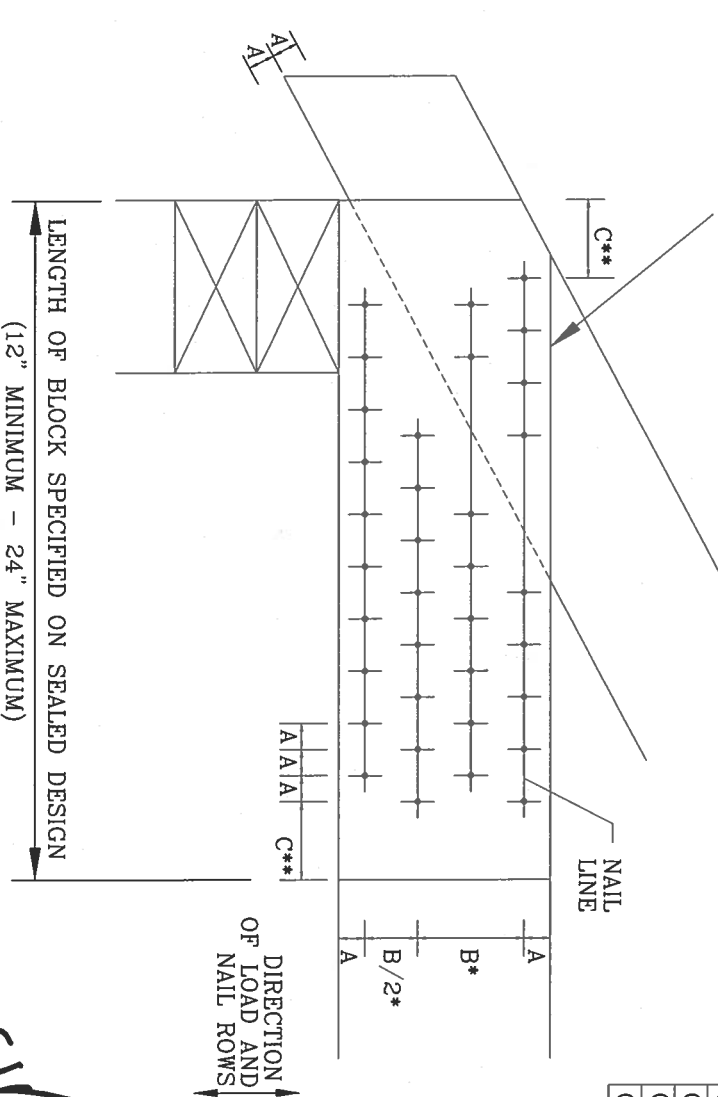
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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

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

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

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



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

## MINIMUM NAIL SPACING DISTANCES

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

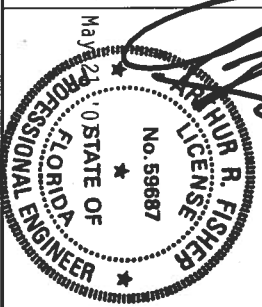
THIS DRAWING REPLACES DRAWING B139 AND CNBRGK0699



T/W BUILDING COMPONENTS GROUP, INC.  
 POMPANO BEACH, FLORIDA

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

\*\*IMPORTANT\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. T/W BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONTRACTORS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP4) AND TPI (T/W BCG CONNECTOR PLATES ARE MADE BY 20/18/16GA (V/H/SS) 2018 AS33 GRADE 40/60 (V/K/H/SS) T/W BCG CONNECTOR PLATES ARE MADE BY 20/18/16GA (V/H/SS) 2018 AS33 GRADE 40/60 (V/K/H/SS) T/W BCG CONNECTOR PLATES ARE MADE BY 20/18/16GA (V/H/SS) 2018 AS33 GRADE 40/60 (V/K/H/SS) DESIGN POSITION PER DRAWING 16042. INSPECTION OF PLATES PERFORMED AND SIGNED BY THE PER ANNEK A3 OF TPI 1-2006 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



REF	BEARING BLOCK
DATE	2/23/07
DRWG	CNBRGK0207
-ENG	SIP/KAR



# 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:1T7K8228Z0122113845

Truss Fabricator: Anderson Truss Company  
Job Identification: 7-101R--Isaac Construction SUNIL PATEL RES. -- , \*\*  
Truss Count: 1  
Model Code: Florida Building Code 2004 and 2006 Supplement  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software,Version 7.36.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61G15-31.003(5a) of the FAC  
Minimum Design Loads: Roof - 55.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

#### Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: -

#	Ref	Description	Drawing#	Date
1	48042--H7 A		07142001	05/22/07



Seal Date: 05/22/2007

-Truss Design Engineer-  
Arthur R. Fisher

Florida License Number: 59687  
1950 Marley Drive  
Haines City, FL 33844

# ALPINE



# 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:1T7K8228Z0122113845

Truss Fabricator: Anderson Truss Company  
Job Identification: 7-101R--Isaac Construction SUNIL PATEL RES. -- , \*\*  
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Minimum Design Loads: Roof - 55.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

#### Notes:

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Seal Date: 05/22/2007

-Truss Design Engineer-  
Arthur R. Fisher

Florida License Number: 59687  
1950 Marley Drive  
Haines City, FL 33844

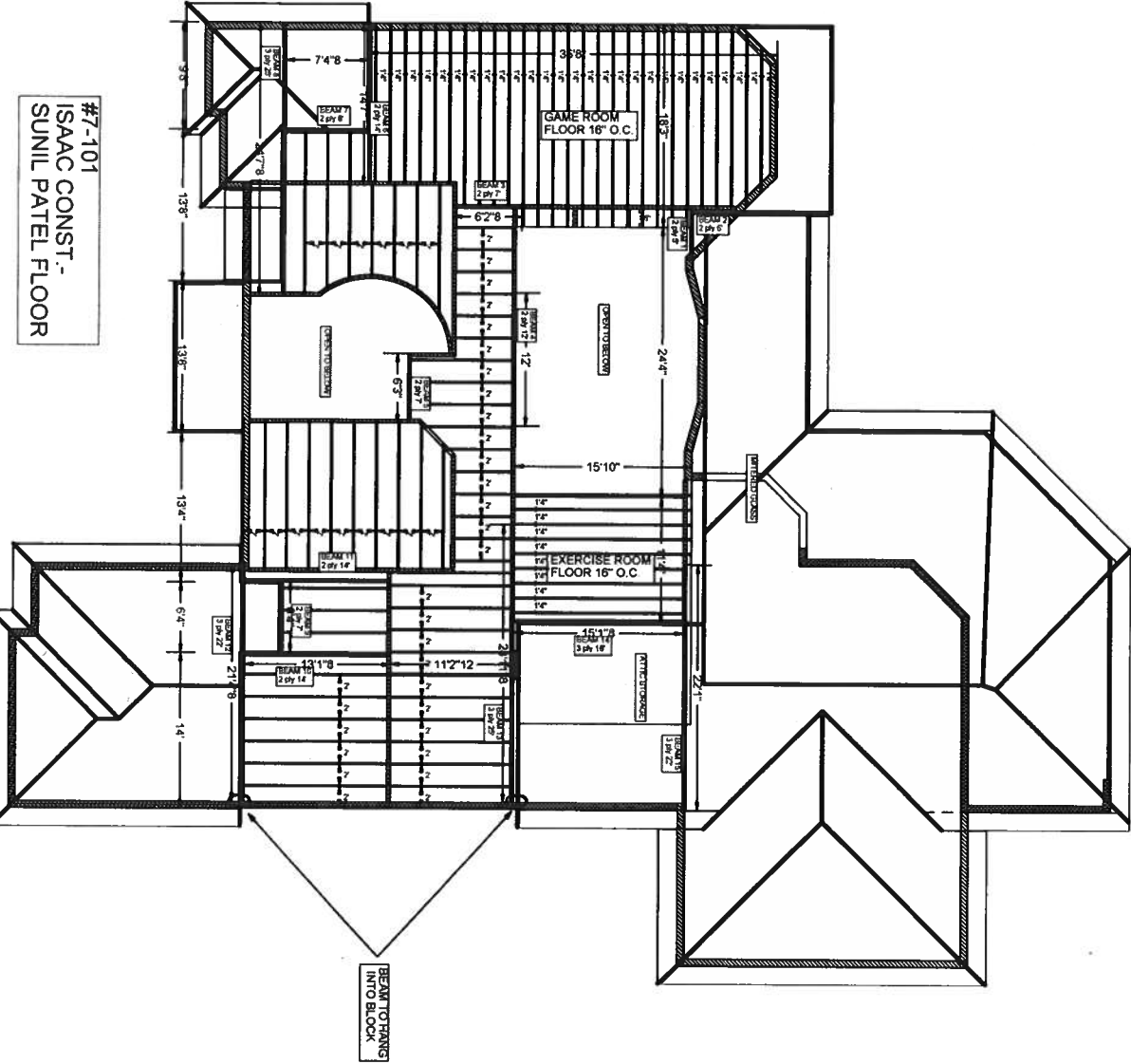
# ALPINE



98'8" (Total width)  
 15'4" 48" 8'4" 13'8" 11'4" (Segment widths)

6'5" 6'5" 3'7" 8'4" 6" 16" 1'4" (Segment widths)

17" 19'4" 11'4" 20" 3" 1'4" (Segment widths)



60" 26" 128" (Segment widths)

JOB DESCRIPTION:: Isaac Construction  
 /: SUNIL PATEL RES. FLOOR

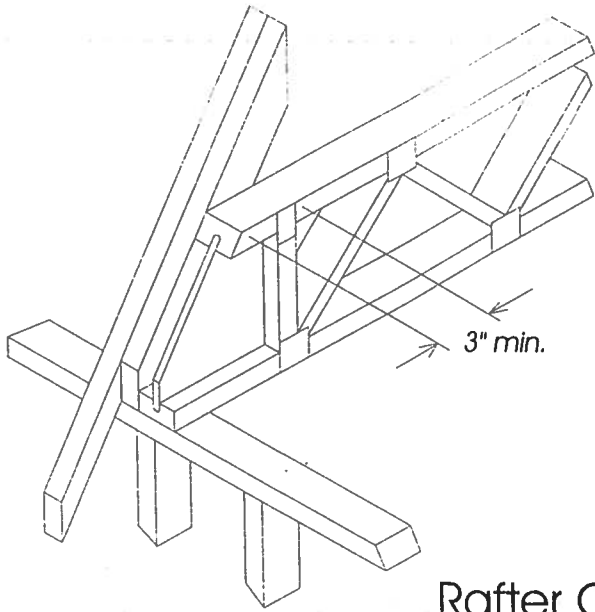
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7-101

PAGE NO:

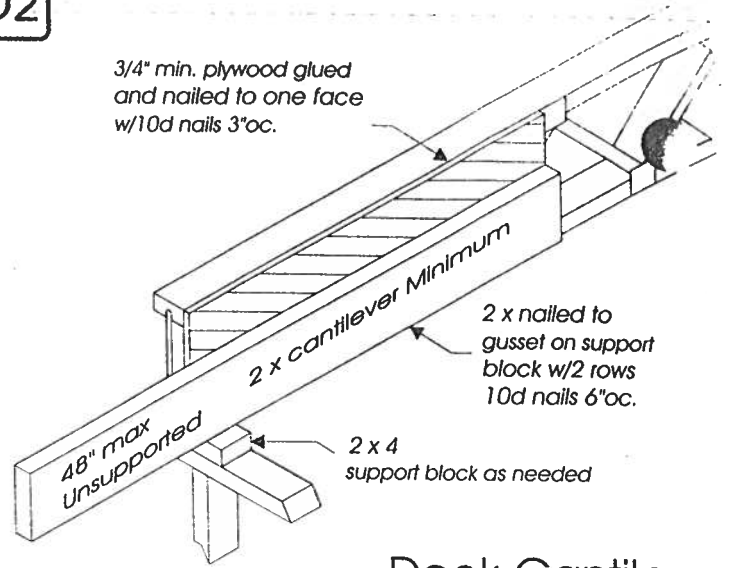


D1



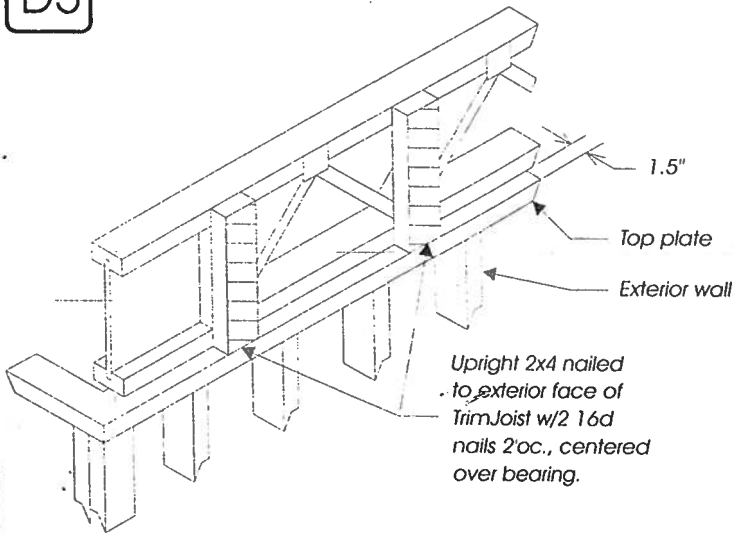
Rafter Cut

D2



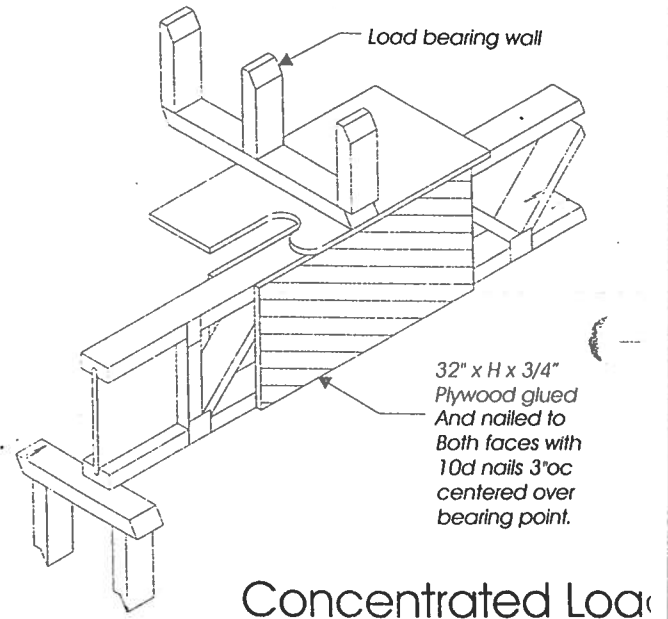
Deck Cantilever

D5



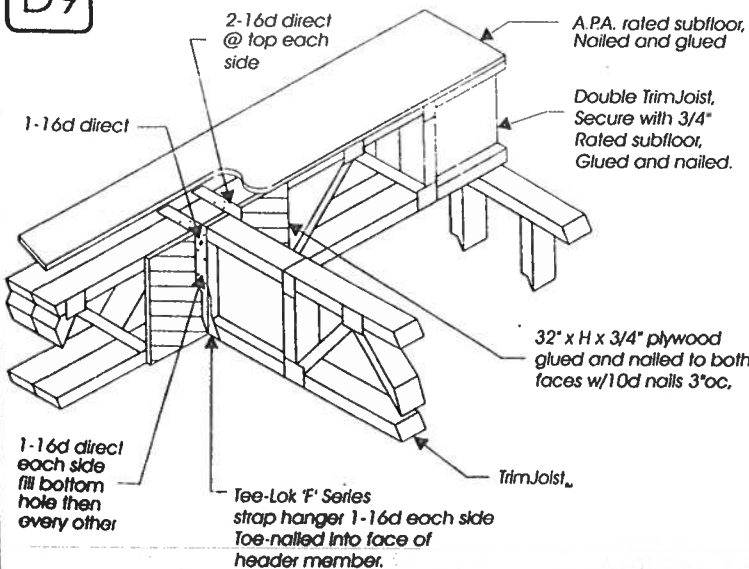
Exterior Knee Wall

D6



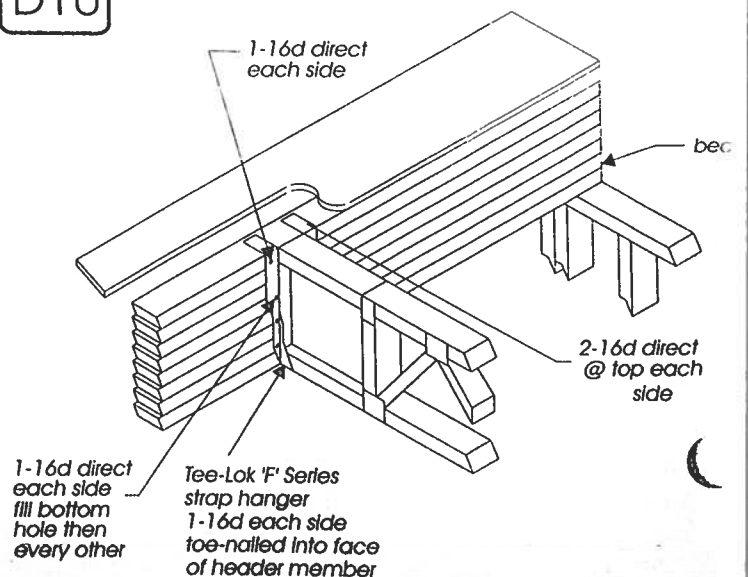
Concentrated Load

D9



Joist Hangered

D10



Beam Hangered

The *uniform load* span charts below indicate the maximum design spans (including a 1½" minimum bearing at each end) for each family of *TrimJoist* floor joists. Each chart is divided into columns which represent common design loadings and rows which show typical spacings. Most residential designs require a minimum of 55 psf loading. Floors used for heavy traffic and/or heavy floor coverings (e.g. Tile) should be designed at 60 psf minimum. All loads are broken down into *Live, Top-dead* and *Bottom-dead* components. For example, the 55 psf column is really 40 psf live plus 10 psf top-dead plus 5 psf bottom-dead for a total of 55 psf. Dead loads are the weight of construction materials and are always present for the whole life of the structure. Live loads, on the other hand, are transient and are never constant over the life of the structure. Select the appropriate column based on the *dead* loads of your construction materials. These charts are for *uniformly loaded, clear span, simply supported* joists. For special applications requiring concentrated loads, asymmetric continuous loads, cantilevers, or special bearing conditions please consult a *TrimJoist* representative or authorized dealer. The TPDS computer program can be used to analyze almost any loading and/or bearing condition.

11 ¼" Deep	Spacing	Loading	55 PSF (40/10/5)	60 PSF (40/10/10)
		12	24' - 0" L/497	24' - 0" L/497
		16	22' - 0" L/485	22' - 0" L/485
		19.2	21' - 2" L/453	21' - 2" L/453
	24	19' - 7" L/455	19' - 7" L/455	

14" Deep	Spacing	12	26' - 0" L/633	26' - 0" L/633
		16	26' - 0" L/475	26' - 0" L/475
		19.2	24' - 10" L/453	24' - 10" L/453
		24	23' - 0" L/452	22' - 0" L/517

16" Deep	Spacing	Loading	55 PSF (40/10/5)	60 PSF (40/10/10)
		12	28' - 0" L/676	28' - 0" L/676
		16	28' - 0" L/507	28' - 0" L/507
		19.2	27' - 4" L/453	27' - 4" L/453
	24	25' - 5" L/450	25' - 5" L/450	

18" Deep	Spacing	12	30' - 0" L/710	30' - 0" L/710
		16	30' - 0" L/532	30' - 0" L/532
		19.2	29' - 10" L/451	29' - 10" L/451
		24	27' - 7" L/468	27' - 3" L/473

**Notes on Span Charts:**

- Spans are based on uniformly loaded joists and include allowances for repetitive use members.
- Live loads of 40 psf are assumed, Additional dead loads should be chosen based on construction materials.
- All *TrimJoist* floor joists have a TOP orientation and should not be installed upside-down.
- Stiffness factors (L/xxx) assume a minimum ¾-inch span-rated subfloor that has been both *glued and nailed*.
- Limit total reaction (per end) to that indicated in the Maximum Reaction Table at the right.
- Do not apply center supports, cantilevers, concentrated, or asymmetrical continuous loads without first consulting a *TrimJoist* representative.

**Maximum Reaction Table**

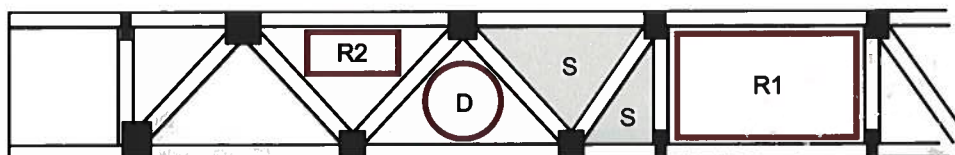
Width	1½	3½	5½
Max	3000	3500	4000

Width is the width of the loaded wall above, or the bearing wall width whichever is less.

**A Note About Floor Stiffness:** Floor performance is greatly influenced by joist stiffness. Experience has shown that a floor system designed to minimum code acceptance may not meet the expectations of discerning owners. *TrimJoist* Corporation strongly recommends that floor spans be limited to those indicated in the charts above. The numbers in these charts far exceed minimum code requirements and are based on both gluing *and* nailing the subfloor. In cases where the subfloor is nailed only, spans remain the same, but the stiffness must be reduced by 20%. For optimal performance use screws in lieu of nails.

**Opening Sizes**

	J12	J14	J16	J18
H	11¼"	14"	16"	18"
D	5"	8"	9"	10"
R1	8x16	10x24	12x24	14x24
R2	4x9	4x10 6x6	4x12 6x8	4x14 6x10 8x8



- All sizes given are in inches and denote maximum expected clearance.
- Rectangular opening (R1) is provided at centerline of stock length.
- Only opening D available in 4' stock length (one opening only).
- Only opening R1 available in 6' and 8' stock length.
- Openings R2 & D not applicable in shaded areas (s).

*Angilly*  
Dec. 23, 2006

**Good Framing Practice...**

- DO** Install *TrimJoists* right side up. TOP is stamped on the top of each joist.
- DO** Make sure that each *TrimJoist* bears on the bottom flange beneath the *TrimEnd* section or beneath the first metal plate if the *TrimEnd* section has been removed.
- DO** Use strongback stiffeners. Although not required for structural performance, strongback adds additional resistance to impact loadings.
- DO** Provide appropriate bearing width at each end of the *TrimJoist*. The required width can be found in the Maximum Reaction Table above. Use vertical web stiffeners where reactions exceed these values.
- DO** Use *TrimJoist* approved hangers for flush-mounted bearing conditions. These may be purchased from your local *TrimJoist* dealer.
- DO** Use an appropriately rated sub-floor that has been both glued and nailed/screwed to the top flange of the *TrimJoist*.
- DO** Consult your *TrimJoist* dealer or representative about special loading or bearing conditions not addressed in this Application Guide.

- DO NOT** cut any part of the *TrimJoist* except for the *TrimEnd* sections which are specifically designed to be field cut.
- DO NOT** remove, cut or alter any metal plate connector on the *TrimJoist* without first consulting a factory engineer.
- DO NOT** install the *TrimJoist* upside down without first consulting a *TrimJoist* factory engineer.
- DO NOT** use a *TrimJoist* as a header or beam except as may be instructed by a *TrimJoist* engineer.
- DO NOT** allow the *TrimJoist* to be supported by the top flange. All support must be from under the bottom flange.
- DO NOT** depend on "toe nailing" to provide adequate support capacity for flush-mounted framing. Consult your local *TrimJoist* dealer or a *TrimJoist* factory engineer for proper hanger selection.
- DO NOT** apply special support or load conditions without first consulting a *TrimJoist* representative.