

DATE 03/25/2011

**Columbia County Building Permit****PERMIT**

This Permit Must Be Prominently Posted on Premises During Construction

**000029274**

APPLICANT BRYAN ZECHER PHONE 752-8653  
ADDRESS PO BOX 815 LAKE CITY FL 32056  
OWNER ARH MODELS, LLC PHONE \_\_\_\_\_  
ADDRESS 227 SW BELLFLOWER DR LAKE CITY FL 32024  
CONTRACTOR BRYAN ZECHER PHONE 752-8653  
LOCATION OF PROPERTY 90 W, TAKE 252-B, RIGHT ROSEMARY DR, L BELLFLOWER, THEN  
3RD ON LEFT AFTER LOTUS GLEN  
TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 133350.00  
HEATED FLOOR AREA 1914.00 TOTAL AREA 2667.00 HEIGHT 20.00 STORIES 1  
FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB  
LAND USE & ZONING PRD MAX. HEIGHT 35  
Minimum Set Back Requirments: STREET-FRONT 30.00 25.00 REAR 25.00 15.00 SIDE 25.00 10.00  
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO. \_\_\_\_\_

PARCEL ID 03-4S-16-02731-021 SUBDIVISION PRESERVE AT LAUREL LAKES  
LOT 21 BLOCK \_\_\_\_\_ PHASE \_\_\_\_\_ UNIT \_\_\_\_\_ TOTAL ACRES 0.25  
000001881 \_\_\_\_\_ CBC054575 \_\_\_\_\_  
Culvert Permit No. \_\_\_\_\_ Culvert Waiver \_\_\_\_\_ Contractor's License Number \_\_\_\_\_ Applicant/Owner/Contractor \_\_\_\_\_  
WAIVER \_\_\_\_\_ CITY \_\_\_\_\_ BK \_\_\_\_\_ TC \_\_\_\_\_ Y \_\_\_\_\_  
Driveway Connection \_\_\_\_\_ Septic Tank Number \_\_\_\_\_ LU & Zoning checked by \_\_\_\_\_ Approved for issuance \_\_\_\_\_ New Resident \_\_\_\_\_

COMMENTS: ELEVATION CONFIRMATION LETTER REQUIRD AT SLAB SET @ 114.4' PER PLAT

CITY WATER AND SEWER

Check # or Cash 2609**FOR BUILDING & ZONING DEPARTMENT ONLY**

(footer/Slab)

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

BUILDING PERMIT FEE \$ 670.00 CERTIFICATION FEE \$ 13.34 SURCHARGE FEE \$ 13.34MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$ \_\_\_\_\_FLOOD DEVELOPMENT FEE \$ \_\_\_\_\_ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ \_\_\_\_\_ TOTAL FEE 771.68INSPECTORS OFFICE [Signature] CLERKS OFFICE [Signature]

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

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

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

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



29274

**BRITT SURVEYING & ASSOCIATES**

*Land Surveyors  
and Mappers*

830 West Duval Street • Lake City, FL 32055  
Phone (386) 752-7163 • Fax (386) 752-5573

---

04/29/11

L-20846 - A

To Whom It May Concern:

C/o: Bryan Zecher

Re: Lot 21 in "Preserve at Laurel Lake Unit 1"

The elevation of the slab on said lot 21 is established to be 114.50 feet. The minimum floor elevation as per the plat of record is shown to be 114.40 feet. The highest adjacent grade is 113.7 feet. The elevations are based on the same datum as the plat of record.

L. Scott Britt  
PLS #5757

Attention: Connie

**Columbia County Building Department  
Culvert Waiver**

**Culvert Waiver No.  
000001881**

DATE: 03/25/2011 BUILDING PERMIT NO. 29274

APPLICANT BRYAN ZECHER PHONE 752-8653

ADDRESS PO BOX 815 LAKE CITY FL 32056

OWNER ARH MODELS, LLC PHONE \_\_\_\_\_

ADDRESS 227 SW BELLFLOWER DR LAKE CITY FL 32024

CONTRACTOR BRYAN ZECHER PHONE 752-8653

LOCATION OF PROPERTY 90 W, L 252-B, R ROSEMARY DR, L BELLFLOWER, THEN 3RD ON LEFT  
AFTER LOTUS GLEN

SUBDIVISION/LOT/BLOCK/PHASE/UNIT PRESERVE @ LAURL LAK 21

PARCEL ID # 03-4S-16-02731-021

I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.

SIGNATURE: \_\_\_\_\_

A SEPARATE CHECK IS REQUIRED  
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

**PUBLIC WORKS DEPARTMENT USE ONLY**

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE  
CULVERT WAIVER IS:

\_\_\_\_\_APPROVED ☒ NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: \_\_\_\_\_

SIGNED: J. Marshall DATE: 29 Mar 11

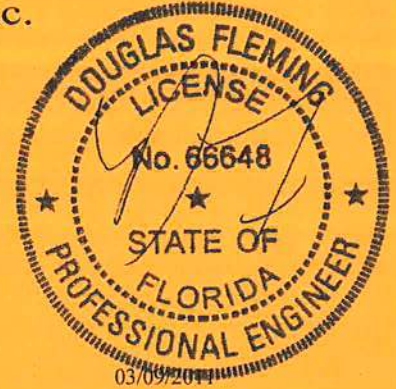
ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.

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



# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 0 278  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID: IUA3487-Z0109105432



Truss Fabricator: Anderson Truss Company  
Job Identification: 10-208--Fill in later BRYAN ZECHER/ JASMINE MOD -- , \*\*  
Truss Count: 40  
Model Code: Florida Building Code 2007 and 2009 Supplement  
Truss Criteria: FBC2007Res/TPI-2002(STD)  
Engineering Software: Alpine Software, Versions 9.05, 10.03.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61G15-31.003(5a) of the FAC  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-05 -Closed

## Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

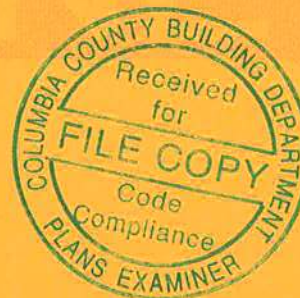
Douglas M. Fleming  
-Truss Design Engineer-

1950 Marley Drive  
Haines City, FL 33844

Details: BRCLBSUB-CNNAILSP-A1101505-GBLLETIN-

| #  | Ref          | Description | Drawing# | Date     |
|----|--------------|-------------|----------|----------|
| 1  | 96854--FG3   |             | 11068014 | 03/09/11 |
| 2  | 96855--A1    |             | 11068018 | 03/09/11 |
| 3  | 96856--H21A  |             | 11068023 | 03/09/11 |
| 4  | 96857--H13A  |             | 11068011 | 03/09/11 |
| 5  | 96858--HS7A  |             | 11068006 | 03/09/11 |
| 6  | 96859--HS9A  |             | 11068020 | 03/09/11 |
| 7  | 96860--HS11A |             | 11068022 | 03/09/11 |
| 8  | 96861--HS13A |             | 11068013 | 03/09/11 |
| 9  | 96862--HS15A |             | 11068024 | 03/09/11 |
| 10 | 96863--HS17A |             | 11068002 | 03/09/11 |
| 11 | 96864--HS19A |             | 11068021 | 03/09/11 |
| 12 | 96865--HT9A  |             | 11068008 | 03/09/11 |
| 13 | 96866--H11A  |             | 11068001 | 03/09/11 |
| 14 | 96867--H21AT |             | 11068002 | 03/09/11 |
| 15 | 96868--H15AT |             | 11068003 | 03/09/11 |
| 16 | 96869--H17AT |             | 11068010 | 03/09/11 |
| 17 | 96870--H19AT |             | 11068011 | 03/09/11 |
| 18 | 96871--AT1   |             | 11068012 | 03/09/11 |
| 19 | 96872--AT2   |             | 11068013 | 03/09/11 |
| 20 | 96873--BGE   |             | 11068001 | 03/09/11 |
| 21 | 96874--B     |             | 11068010 | 03/09/11 |
| 22 | 96875--B1    |             | 11068015 | 03/09/11 |
| 23 | 96876--CGE   |             | 11068012 | 03/09/11 |
| 24 | 96877--C     |             | 11068009 | 03/09/11 |
| 25 | 96878--C1    |             | 11068008 | 03/09/11 |
| 26 | 96879--FG1   |             | 11068009 | 03/09/11 |
| 27 | 96880--FG2   |             | 11068015 | 03/09/11 |
| 28 | 96881--CJ1   |             | 11068003 | 03/09/11 |
| 29 | 96882--CJ3   |             | 11068004 | 03/09/11 |
| 30 | 96883--CJ5   |             | 11068019 | 03/09/11 |
| 31 | 96884--EJ7   |             | 11068005 | 03/09/11 |
| 32 | 96885--CJ3T  |             | 11068004 | 03/09/11 |
| 33 | 96886--CJ5T  |             | 11068005 | 03/09/11 |
| 34 | 96887--CJ7T  |             | 11068006 | 03/09/11 |
| 35 | 96888--EJ9T  |             | 11068007 | 03/09/11 |
| 36 | 96889--EJ9   |             | 11068016 | 03/09/11 |

| #  | Ref         | Description | Drawing# | Date     |
|----|-------------|-------------|----------|----------|
| 37 | 96890--CJ7  |             | 11068017 | 03/09/11 |
| 38 | 96891--HJ7  |             | 11068007 | 03/09/11 |
| 39 | 96892--HJ9  |             | 11068014 | 03/09/11 |
| 40 | 96893--HJ9T |             | 11068016 | 03/09/11 |



## ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844  
Page 1 of 1 Document ID:1UA3487-Z0109105432

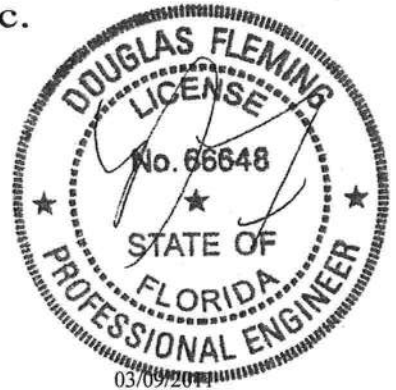
Truss Fabricator: Anderson Truss Company  
Job Identification: 10-208--Fill in later BRYAN ZECHER/ JASMINE MOD -- , \*\*  
Truss Count: 1  
Model Code: Florida Building Code 2007 and 2009 Supplement  
Truss Criteria: FBC2007Res/TPI-2002(STD)  
Engineering Software: Alpine Software, Versions 9.05, 10.03.  
Structural Engineer of Record:  
Address:  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-05 -Closed

### Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

### Revised Trusses

| # | Ref          | Description | Drawing# | Date     |
|---|--------------|-------------|----------|----------|
| 1 | 96867--H21AT |             | 11068002 | 03/09/11 |



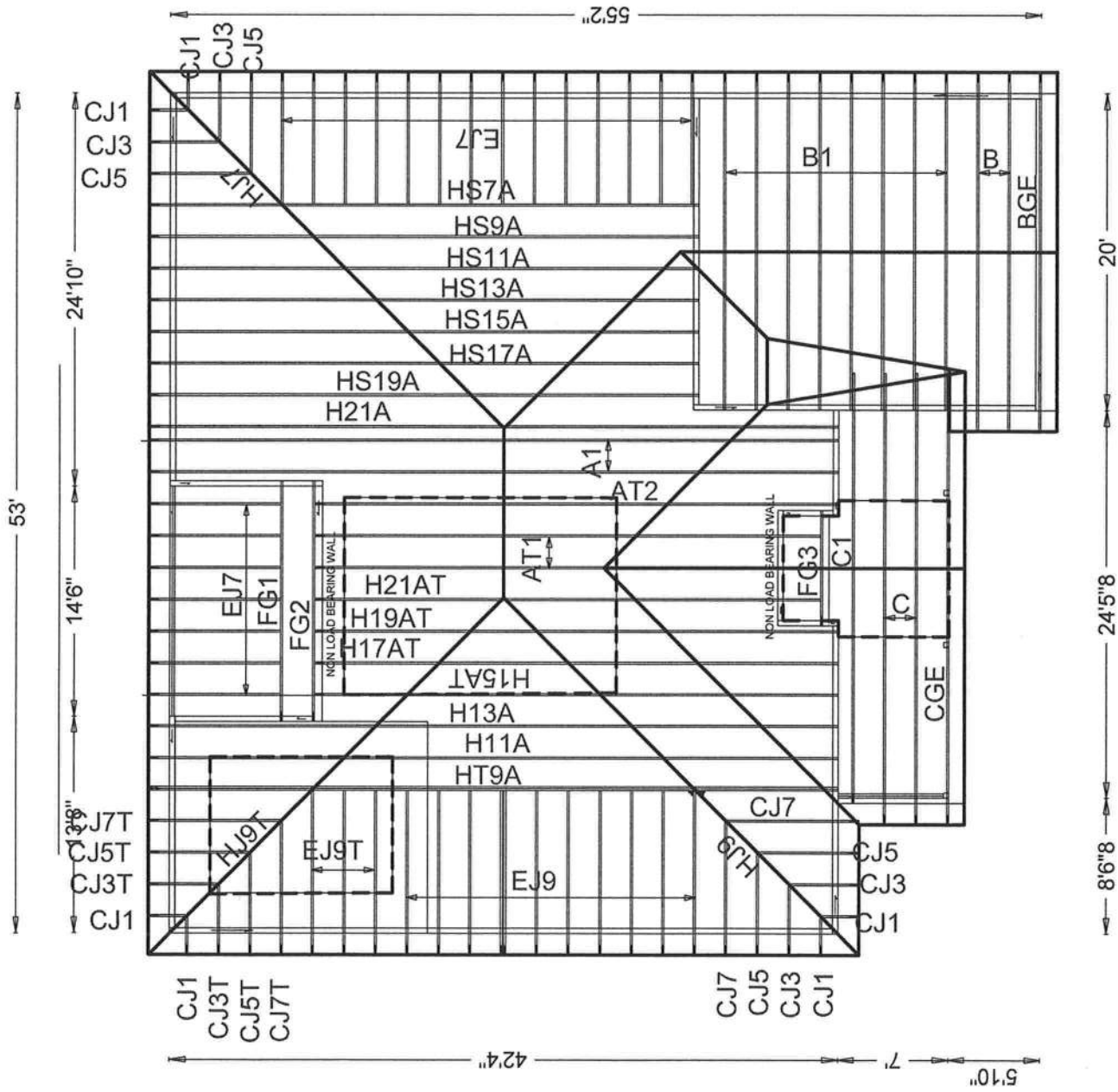
Seal Date: 03/09/2011

-Truss Design Engineer-  
Douglas M. Fleming

1950 Marley Drive  
Haines City, FL 33844

# ALPINE

Roof Plane Sheathing Area = 3304 sq. ft



JOB DESCRIPTION: Fill in later  
/ : BRYAN ZECHER/ JASMINE MOD

JOB NO:  
10-208

PAGE NO:  
1

BRYAN ZECHER/ THE JASMINE MODEL

### Special loads

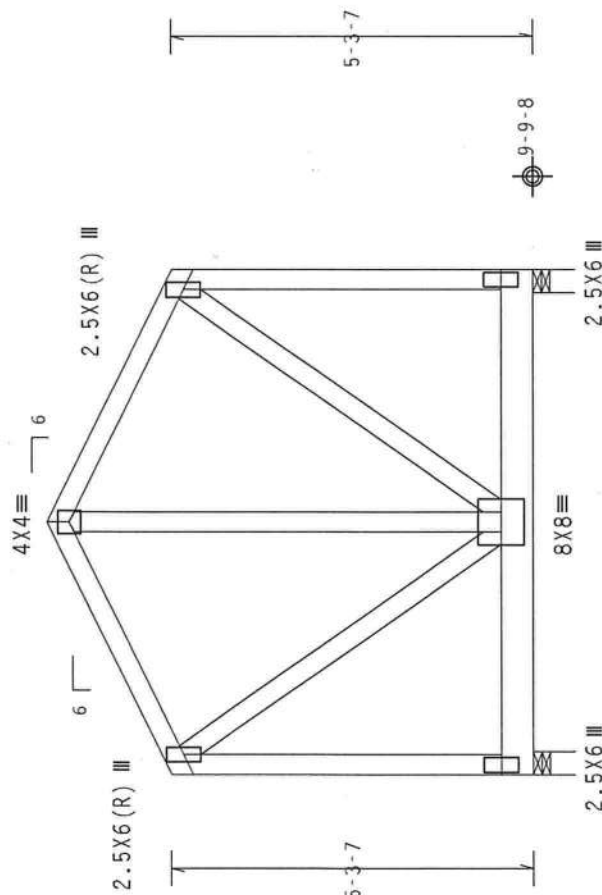
| ----- (Lumber | Dur. Fac.=1.25 / Plate Dur. Fac.=1.25 |
|---------------|---------------------------------------|
| TC-From       | 62 plf at 0.00 to 62 plf at 3.63      |
| ITC-From      | 62 plf at 3.63 to 62 plf at 7.25      |
| BC-From       | 10 plf at 0.00 to 10 plf at 7.25      |
| BC-1319.76    | 1b Conc. Load at 1.65                 |
| BC-1390.42    | 1b Conc. Load at 3.65, 5.65           |

11110 mph wind, 15.98 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCrf(+/-)=0.18

Wind reactions based on MWFRS pressures.

End verticals not exposed to wind pressure.

Deflection meets L/240 live and L/180 total load.



3-7-8 3-7-8

7-3-0 Over 2 Supports

R-2281 U=207 W=4" R-2344 U=50 W=4"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (FT/RT=10%(0%)/0(0%))

Scale = .375"/Ft.

|          |          |                      |
|----------|----------|----------------------|
| TC LL    | 20.0 PSF | REF R487 - - 96854   |
| TC DL    | 10.0 PSF | DATE 03/09/11        |
| BC DL    | 10.0 PSF | DRW HCUR487 11068014 |
| BC LL    | 0.0 PSF  | HC-ENG JB/DF         |
| TOT.LD.  | 40.0 PSF | SEQN- 189260         |
| DUR.FAC. | 1.25     |                      |
| SPACING  | 24.0"    | JREF- 1UA3487_Z01    |

03/09/2011



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

( 10-208--Fill in later BRYAN ZECHE/ JASMINE MOD -- . \*\* - A1 )

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 7-05, CLOSED bldg, not located  
within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind  
BC DL=5.0 psf. 1w=1.00 GCPI(+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

Wind reactions based on MWFRS pressures.

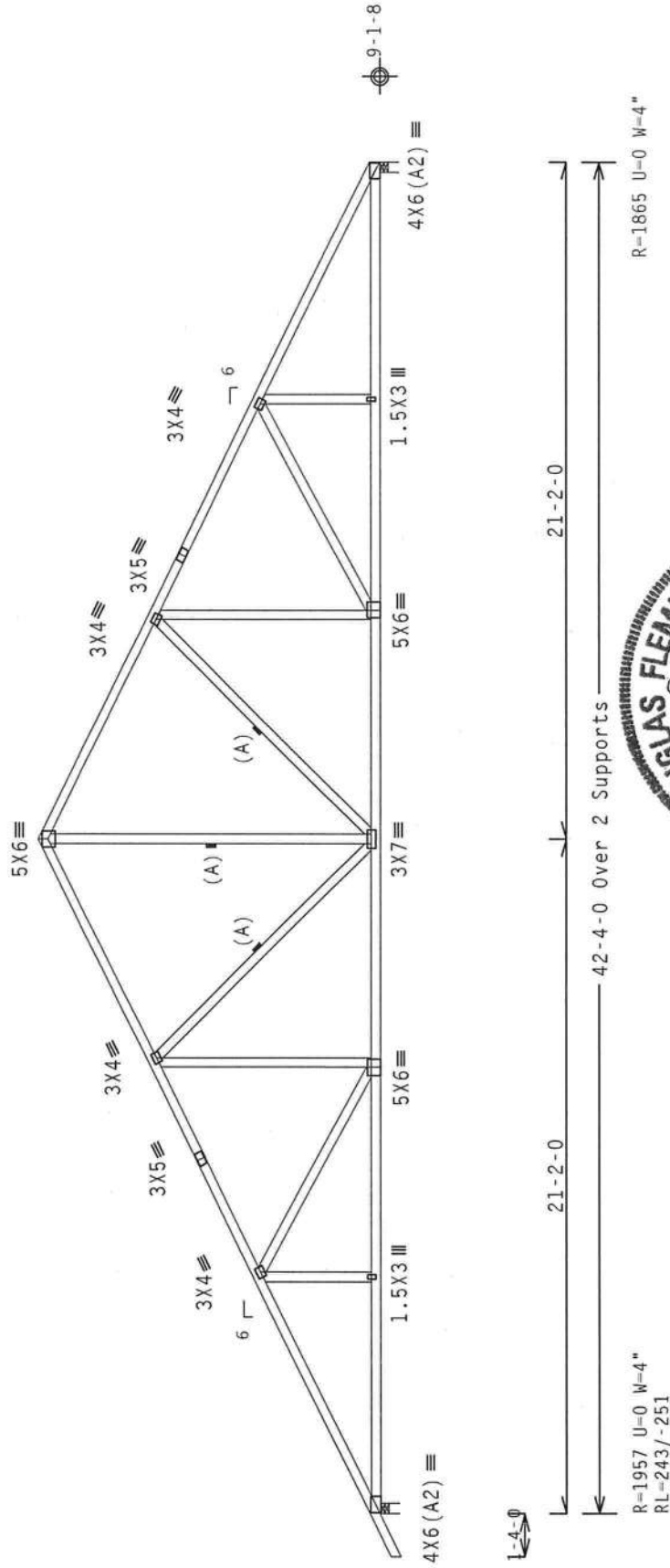
(A) Continuous lateral bracing equally spaced on member.

Truss passed check for 20 psf additional bottom chord live load in  
areas with 42"-high x 24"-wide clearance.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

MWFRS loads based on trusses located at least 15.00 ft. from roof  
edge.



R=1957 U=0 W=4"  
RL=243/-251

R=1865 U=0 W=4"

|                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                 |  |                 |  |                       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|-----------------|--|-----------------------|--|
| PLT TYP. Wave                                                                                                                             | Design Crit: FBC2007Res/TPI-2002 (S.D.)<br>FT/RT=10%(0%)/0(0%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | TY:2            |  | FL/-4/-1-R/-    |  | Scale = .1875"/Ft.    |  |
|                                                                                                                                           | No. 66648                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 0.05/03.0319/17 |  | 0.05/03.0319/17 |  | 0.05/03.0319/17       |  |
| <br>ALPINE<br>Haines City, FL 33844<br>FL COA #0 278 | **WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD 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.                                                                                                                                                                                                                                                                  |  | TC LL           |  | 20.0 PSF        |  | REF R487-- 96855      |  |
|                                                                                                                                           | **IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITA BEG. TO 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 AREA) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/16GA (W/SS/A) ASTM A653 GRADE 40/60 (H, K/M, SS) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER MINER AS OF TPI-2002 SEC.3. FOR THE TRUSS. 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 DL           |  | 10.0 PSF        |  | DATE 03/09/11         |  |
|                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | BC DL           |  | 10.0 PSF        |  | DRW HCUSP487 11068018 |  |
|                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | BC LL           |  | 0.0 PSF         |  | HC-ENG JB/DF          |  |
|                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | TOT.LD.         |  | 40.0 PSF        |  | SEQN- 153436          |  |
|                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | DUR.FAC.        |  | 1.25            |  | JREF- 1UA3487_Z01     |  |
|                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                 |  |                 |  | SPACING 24.0"         |  |

( 10-208--Fill in later BRYAN ZECHER/ JASMINE MOD -- . \*\* - H21A )

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

Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

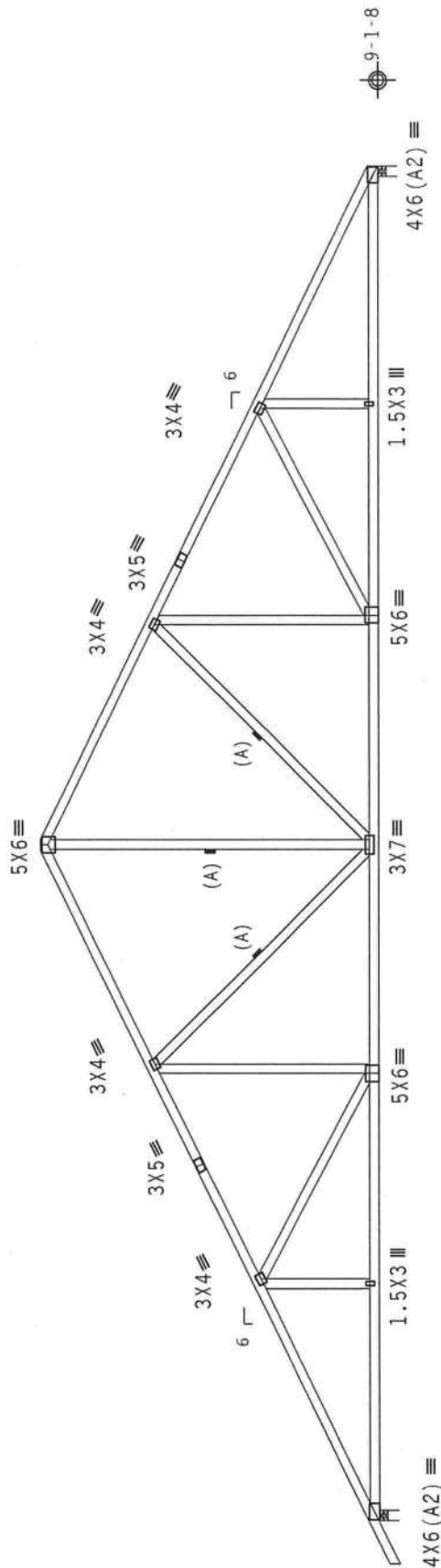
MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)-0.18

Wind reactions based on MWFRS pressures.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Deflection meets L/240 live and L/180 total load.



L-4-0

21'-2-0

21'-2-0

42'-4-0 Over 2 Supports

R-1957 U=0 W=4"  
RL-242/-250

R-1865 U=0 W=4"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (S)  
FT/RT=10%(0%) / 0(0%)

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

|          |          |        |             |          |
|----------|----------|--------|-------------|----------|
| TC LL    | 20.0 PSF | REF    | R487--      | 96856    |
| TC DL    | 10.0 PSF | DATE   | 03/09/11    |          |
| BC DL    | 10.0 PSF | DRW    | HCUSR487    | 11068023 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF       | *        |
| TOT.LD.  | 40.0 PSF | SEQN-  | 153439      |          |
| DUR.FAC. | 1.25     |        |             |          |
| SPACING  | 24.0"    | JREF-  | 1UA3487_Z01 |          |

**DOUGLAS FLEMING**  
LICENSE  
No. 66648  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
03/09/2011

**ALPINE**  
Haines City, FL 33844  
FL COA #0278

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATING INSTITUTE), 219 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA), 6500 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED 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. ITS ENGINEER SHALL NOT BE RESPONSIBLE FOR 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 (TRUSS PLATING INSTITUTE). CONNECTOR PLATES ARE MADE OF 2018/16GA (IN-H/55/H) ASTM A653 GRADE 40/60 (IN, K/H/SS) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002, SEC. 3 FOR THE TRUSS CONSTRUCTION. 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.

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

Roof overhang supports 2.00 psf soffit load.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

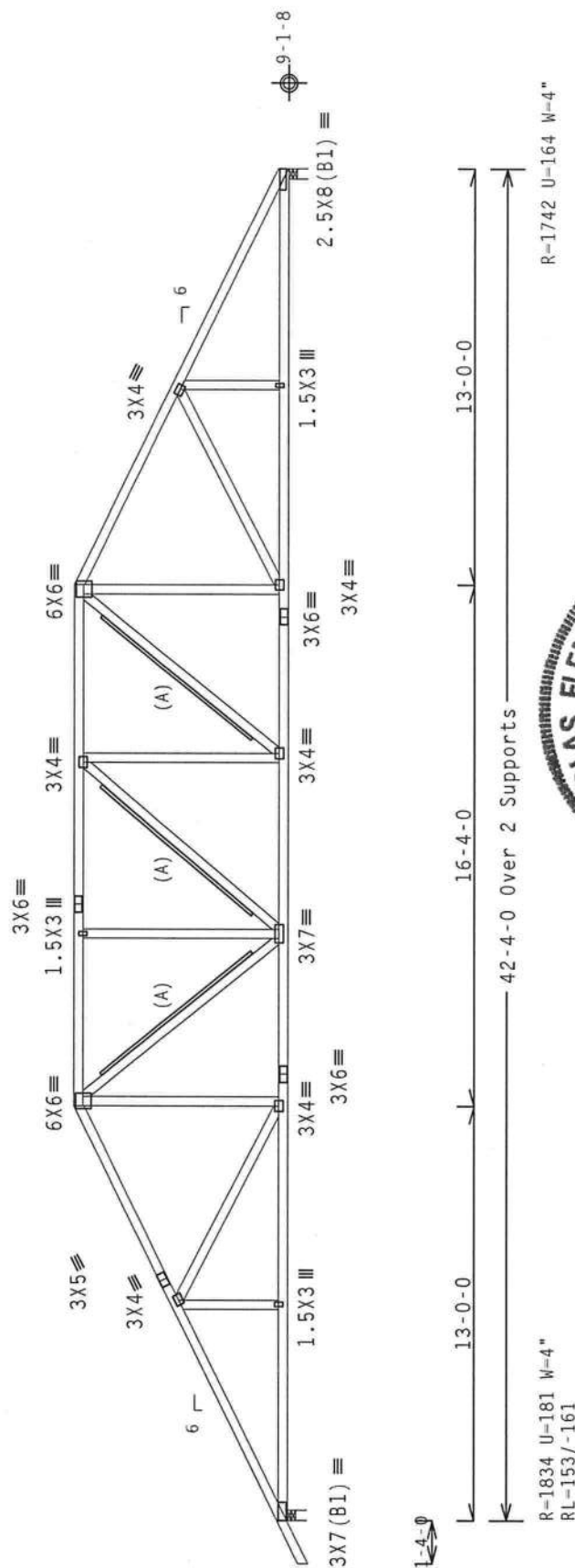
MMWFRS Loads based on trusses located at least 7.50 ft. from roof edge.

111110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind EC DL=5.0 psf, 1w=1.00 GCpf (+/-)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.



R=1834 U=181 W=4"  
RL=153/-161

42-4-0 Over 2 Supports

R-1742 U-164 W-4"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (0.0%)  
FT/RT=10%(0%)/0(0%)

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

|          |       |     |                      |
|----------|-------|-----|----------------------|
| TC LL    | 20.0  | PSF | REF R487 - - 96857   |
| TC DL    | 10.0  | PSF | DATE 03/09/11        |
| BC DL    | 10.0  | PSF | DRW HCUR487 11068011 |
| BC LL    | 0.0   | PSF | HC-ENG JB/DF *       |
| TOT.LD.  | 40.0  | PSF | SEQN- 153457         |
| DUR.FAC. | 1.25  |     |                      |
| SPACING  | 24.0" |     | JREF- 1UA3487_Z01    |

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND THE FOLLOWING INFORMATION MUST BE OBTAINED FROM THE MANUFACTURER OF THE TRUSS TO BE USED FOR THIS PROJECT:

1. BUILDING COMPONENT SAFETY INFORMATION - 2109 S.W. 8TH AVE., SUITE 312, ALEXANDRIA, VA, 22314; AND HICA (WOOD TRUSS COUNCIL OF AMERICA) - 200 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314.

2. 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 BECAME SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION OF THE TRUSS IN COMPLIANCE WITH ANY OF THE FOLLOWING APPLICABLE BUILDING CODES OR NATIONAL DESIGN SPEC. BY ASCE/AIA AND TP-1000. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE TRUSS.

CONNECTION PLATES ARE MADE OF 20/18/16GA (H-V/S-S) ASTM A575 GRADE 40/60 (IN. K/H/SS) GALV. COATED STEEL. THE TRUSS IS DESIGNED TO SUPPORT A DEAD LOAD OF 10 PSF AND A LIVE LOAD OF 20 PSF.

PLATES TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING.

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

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SALETY FOR THE TRUSS CONSTRUCTION SHOWN. THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

03/09/2011

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

( 10-208--Fill in later BRYAN ZECHER/ JASMINE MOD -- , \*\* - HS7A )

Top chord 2x4 SP #2 Dense :T2 2x6 SP #1 Dense:

:T3 2x6 SP #2:

Bot chord 2x6 SP #2 :B2 2x6 SP #1 Dense:

Web 2x4 SP #3 :W8 2x4 SP #2 Dense:

Roof overhang supports 2.00 psf soffit load.

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 1-4-0 overhang.

End jacks have 7-0-0 setback with 0-0-0 cant and 1-4-0 overhang. Right

side jacks have 0-0-0 setback with 0-0-0 cant and 0-0-0 overhang.

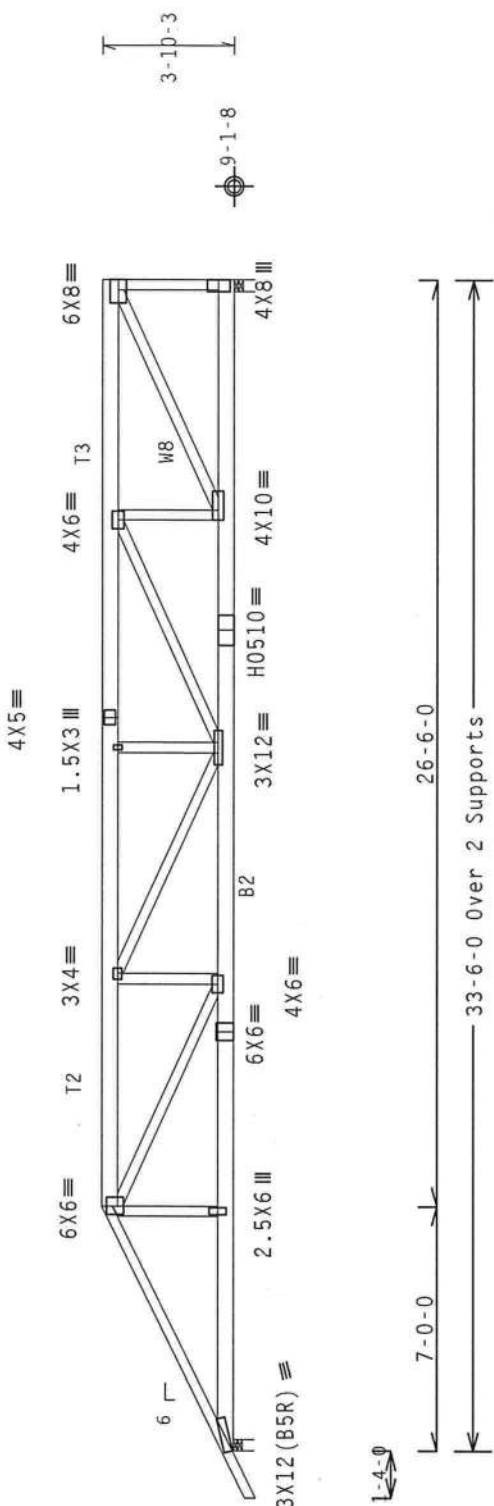
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1 (+/-)-0.18

Wind reactions based on MWFRS pressures.

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.



R-2850 U-263 W-4"

R-2956 U-253 W-4"

PLT TYP. 20 Gauge HS, Wave

Design Crit: FBC2007Res/TPI-2002 (S) FT/RT=10%(0%)/0(0%)

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

Scale =.1875"/Ft.

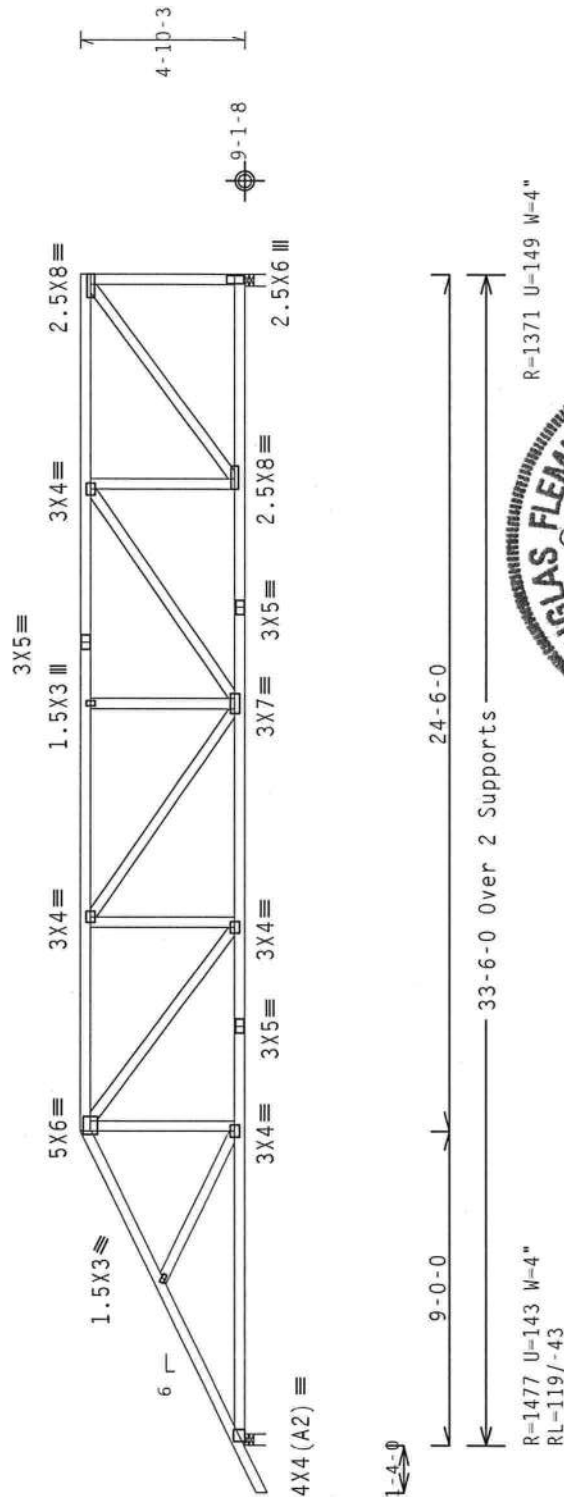
|                                                                                                                          |            |       |           |              |                       |
|--------------------------------------------------------------------------------------------------------------------------|------------|-------|-----------|--------------|-----------------------|
| <div>ALPINE</div> <div>ITW Building Components Group Inc.</div> <div>Haines City, FL 33844</div> <div>FL COA #0278</div> | 03/09/2011 |       | SPACING   | 24.0"        | JREF - 1UA3487_Z01    |
|                                                                                                                          | 03/09/2011 |       | DUR. FAC. | 1.25         | SEQN - 153412         |
|                                                                                                                          | 03/09/2011 |       | TOT. LD.  | 40.0 PSF     | HC-ENG JB/DF          |
|                                                                                                                          | 03/09/2011 |       | BC LL     | 0.0 PSF      | DRW HCUSR487 11068006 |
|                                                                                                                          | 03/09/2011 |       | BC DL     | 10.0 PSF     | DATE 03/09/11         |
| 03/09/2011                                                                                                               |            | TC DL | 10.0 PSF  | REF R487 - - | 96858                 |
| 03/09/2011                                                                                                               |            | TC LL | 20.0 PSF  |              |                       |

1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)-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.



R=1477 U=143 W=4"  
RL=119/-43

R-1371 U=149 W=4"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (S...  
FT/RT=10%(0%)/0(0)

FL/-/4/-/-/R/-/  
Scale = .1875"/Ft.

|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          |          |             |          |       |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|-------------|----------|-------|
| <br><b>ALPINE</b><br><i>nw Building Components Group Inc.</i><br>Haines City, FL 33844<br>FL COA #0 2788 | <p><b>**WARNING**</b> TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TP1 (TRUSS PLATE), 216 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WPCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ELMERISE 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.</p> |          | TC LL    | 20.0 PSF | REF         | R487--   | 96859 |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TC DL    | 10.0 PSF | DATE     | 03/09/11    |          |       |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BC DL    | 10.0 PSF | DRW      | HCU8487     | 11068020 |       |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BC LL    | 0.0 PSF  | HC-ENG   | JB/DF       | *        |       |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TOT.LD.  | 40.0 PSF | SEQN-    | 153415      |          |       |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DUR.FAC. | 1.25     | JREF-    | 1UA3487_Z01 |          |       |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SPACING  | 24.0"    |          |             |          |       |
| <p align="right"><b>03/09/2011</b></p>                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          |          |             |          |       |



1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

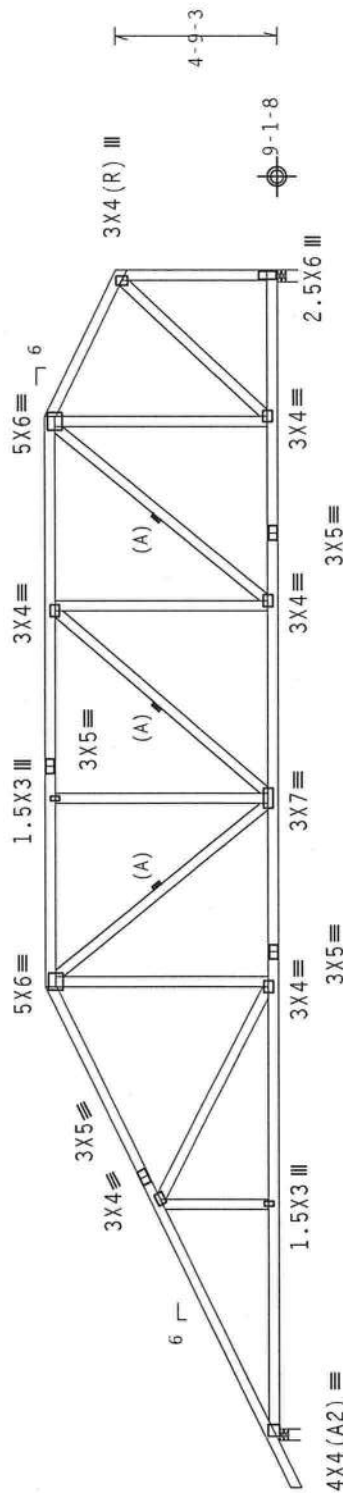
Right end vertical not exposed to wind pressure.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



1-4-9

13-0-0

16-4-0

1-4-2-0

← 33-6-0 Over 2 Supports -

R-1477 U-140 W-4"

R=1371 U=141 W=4"

RL-122/-86

Design Crit: FBC2007Res/TPI-2002 (S) 19.05.03.0319.12  
 FL/RT=10%(0%)/0(0%) QTY:1  
 Scale = .1875"/Ft.

PLT TYP. Wave

|          |          |                       |
|----------|----------|-----------------------|
| TC LL    | 20.0 PSF | REF R487 - - 96861    |
| TC DL    | 10.0 PSF | DATE 03/09/11         |
| BC DL    | 10.0 PSF | DRW HCUSR487 11068013 |
| BC LL    | 0.0 PSF  | HC-ENG JB/DF *        |
| TOT.LD.  | 40.0 PSF | SEQN- 153421          |
| DUR.FAC. | 1.25     |                       |
| SPACING  | 24.0"    | JREF- 1UA3487_Z01     |

03/09/2011



ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

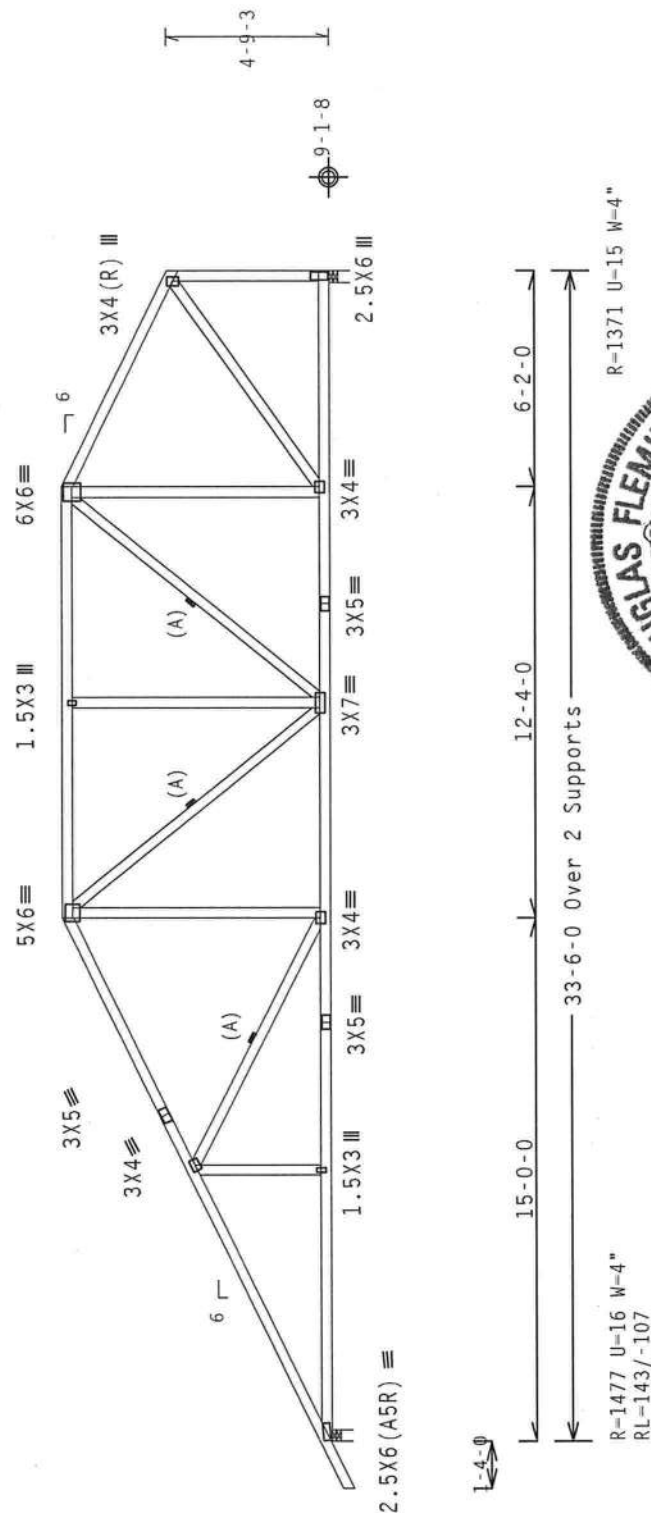
111110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind EBC DL=5.0 psf. Iw=1.00 GCpt (+/-)=0.18

wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Bottom chord checked for 10.00 psf non-concurrent live load.

MMWFRS loads based on trusses located at least 15.00 ft. from roof edge.



**Design Crit:** FBC2007Res/TPI-2002 (SD)  
**FT/RT=10%(0%)/0(0)**

**PLT TYP.** Wave

**Scale** =.1875"/Ft.

|        |             |          |
|--------|-------------|----------|
| REF    | R487--      | 96862    |
| DATE   | 03/09/11    |          |
| DRW    | HCUSR487    | 11068024 |
| HC-ENG | JB/DF       |          |
| SEQN-  | 153424      |          |
| JREF-  | 1UA3487_Z01 |          |

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

|          |       |     |
|----------|-------|-----|
| TC LL    | 20.0  | PSF |
| TC DL    | 10.0  | PSF |
| BC DL    | 10.0  | PSF |
| BC LL    | 0.0   | PSF |
| TOT.LD.  | 40.0  | PSF |
| DUR.FAC. | 1.25  |     |
| SPACING  | 24.0" |     |

**05.03.9318.17** **No. 66648**

**STATE OF FLORIDA**

**PROFESSIONAL ENGINEER**

**IMPORTANT\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 212 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED FLUID CEILING.

**IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCS, 10000 WILSON AVENUE, SUITE 100, FARMERS BRANCH, TX 75448, MUST BE ADVISED OF THE TRUSS IN CONNECTION WITH TPI FOR 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 (IN/IN/SS/IN) ASTM A653 GRADE 40/60 (IN. K/H/SS) GALV. STEEL TO BE WELDED TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING NOTED.

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

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.

**03/09/2011**

**ALPINE**

**ITW Building Components Group Inc.**  
**Haines City, FL 33844**  
**TEL COA #0.278**

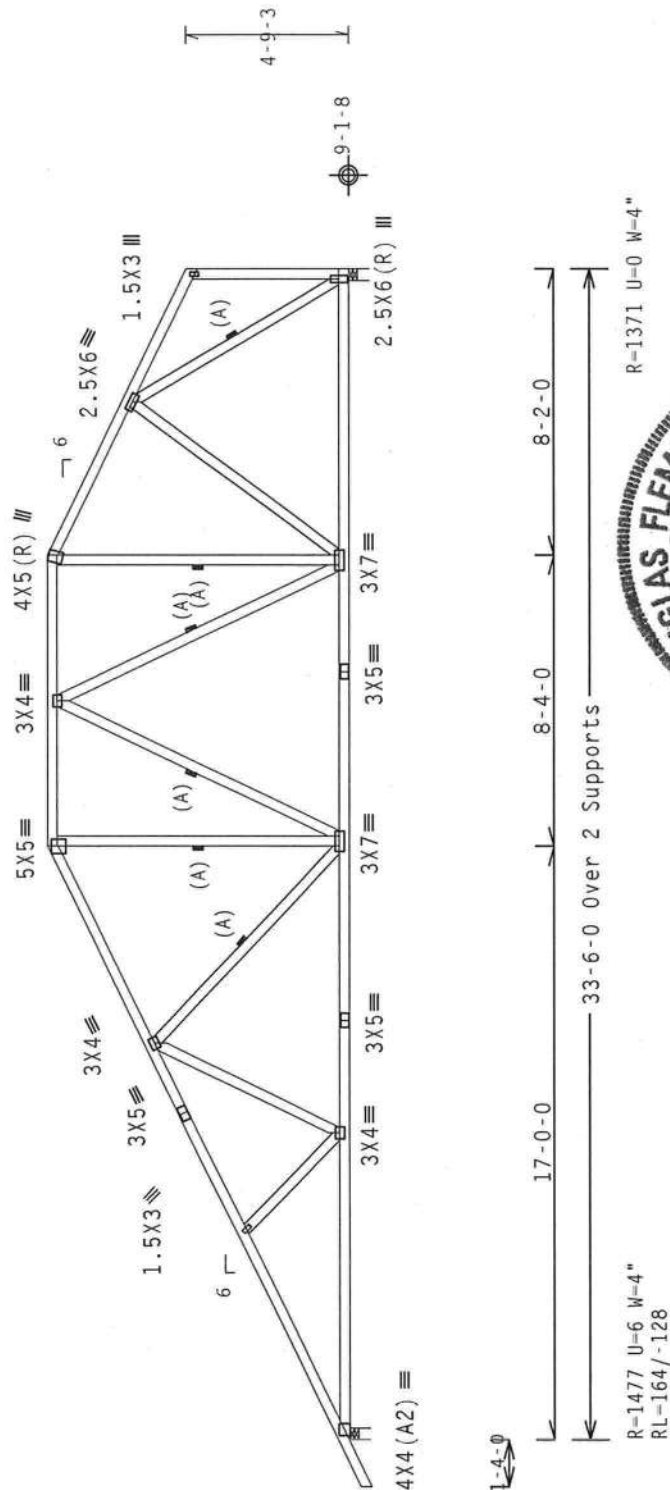
| Top | chord | 2x4 | SP | #2 | Dense |
|-----|-------|-----|----|----|-------|
| Bot | chord | 2x4 | SP | #2 | Dense |
|     | webs  | 2x4 | SP | #3 |       |

Wind reactions based on MNFRS pressures.

Right end vertical not exposed to wind pressure.

Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.



R=1477 U=6 W=4"  
RL=164/-128

Design Crit: FBC2007Res/TPI-2002 (S009-05.03.0318.17)  
 FT/RT=10%(0%)/0(0)      FL/-/4/-/-/R/      Scale =.1875"/Ft.

[illegible]

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

Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

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

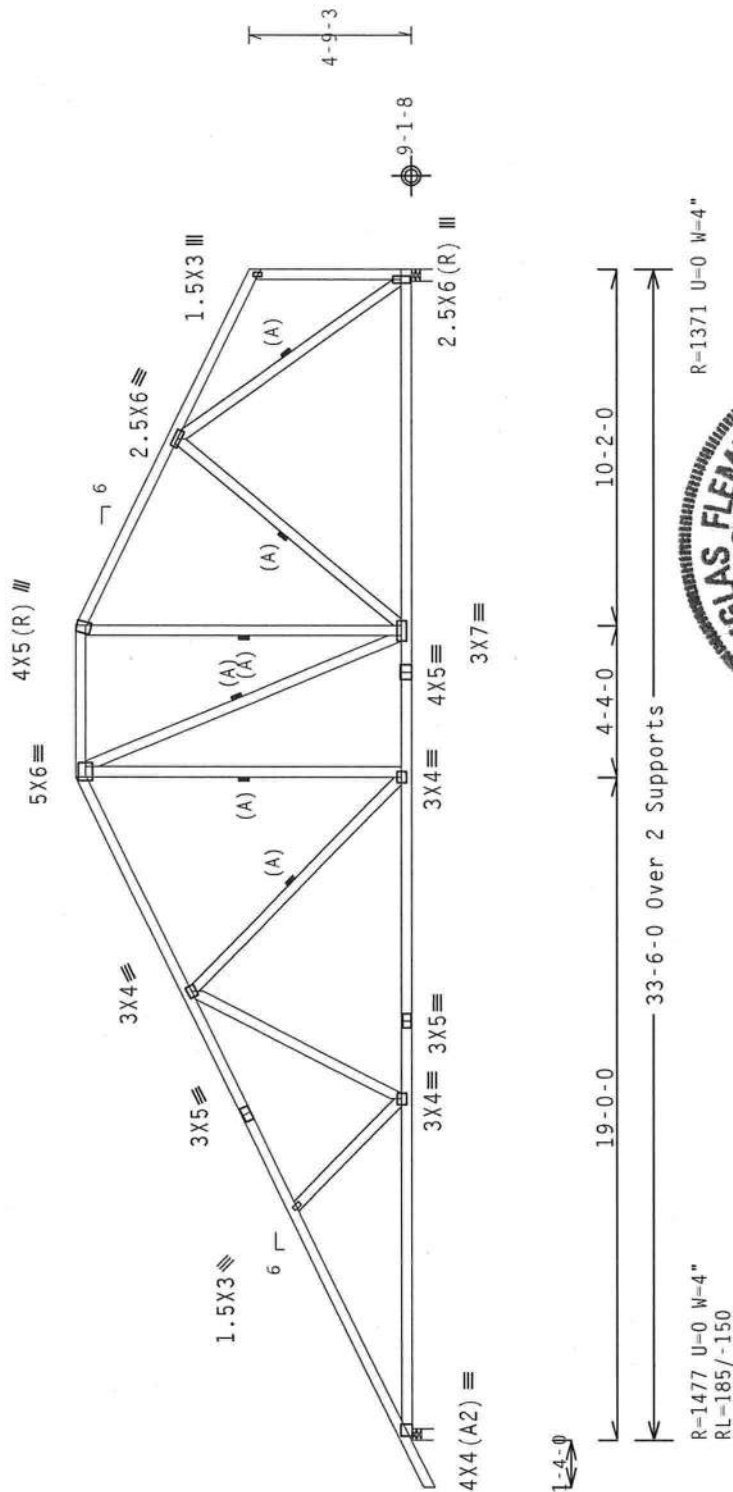
Deflection meets L/240 live and L/180 total load.

wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Bottom chord checked for 10.00 psf non-concurrent live load.

MMFRS loads based on trusses located at least 15.00 ft. from roof edge.



R=1477 U=0 W=4"  
RL=185/-150

Design Crit: FBC2007Res/TPI-2002 (S.D)  
 FT/RT=10%(0%)/0(0) TY: 1  
 Scale = .1875"/Ft.  
 FL/-/4/-/-/R/

[illegible]

2 COMPLETE TRUSSES REQUIRED

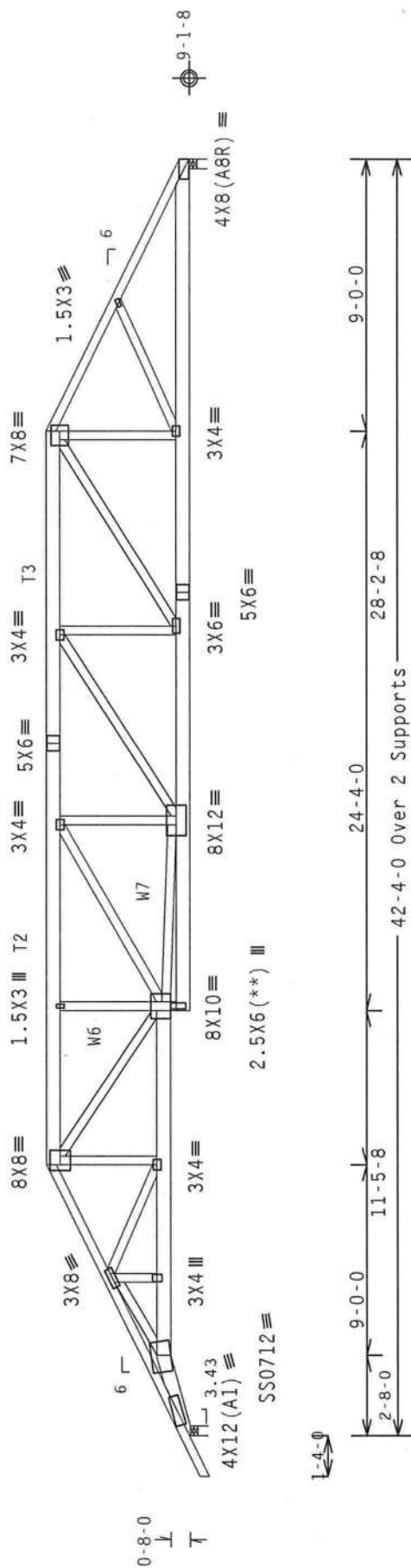
Nail Schedule: 0.131"x3" nails  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 1 Row @12.00" o.c.  
 Webs : 1 Row @ 4" o.c.  
 Use equal spacing between rows  
 in each row to avoid splitting

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 GCp1(+/-)=0.18

Calculated horizontal deflection is 0.15" due to live load and 0.16" due to dead load.

#1 hip supports 9-0-0 jacks with no webs.

Deflection meets L/240 live and L/180 total load.



R-4269 U-376 W-4"

R-4360 11-400 W-4"

Design Crit: FBC2007Res/TPI-2002 (S)  
 FT/RT=10%(0%) / 0(0) 9-05-03 0319 16  
 Scale = .1875" / Ft.  
 FL / - / 4 / - / - / R /

[illegible]

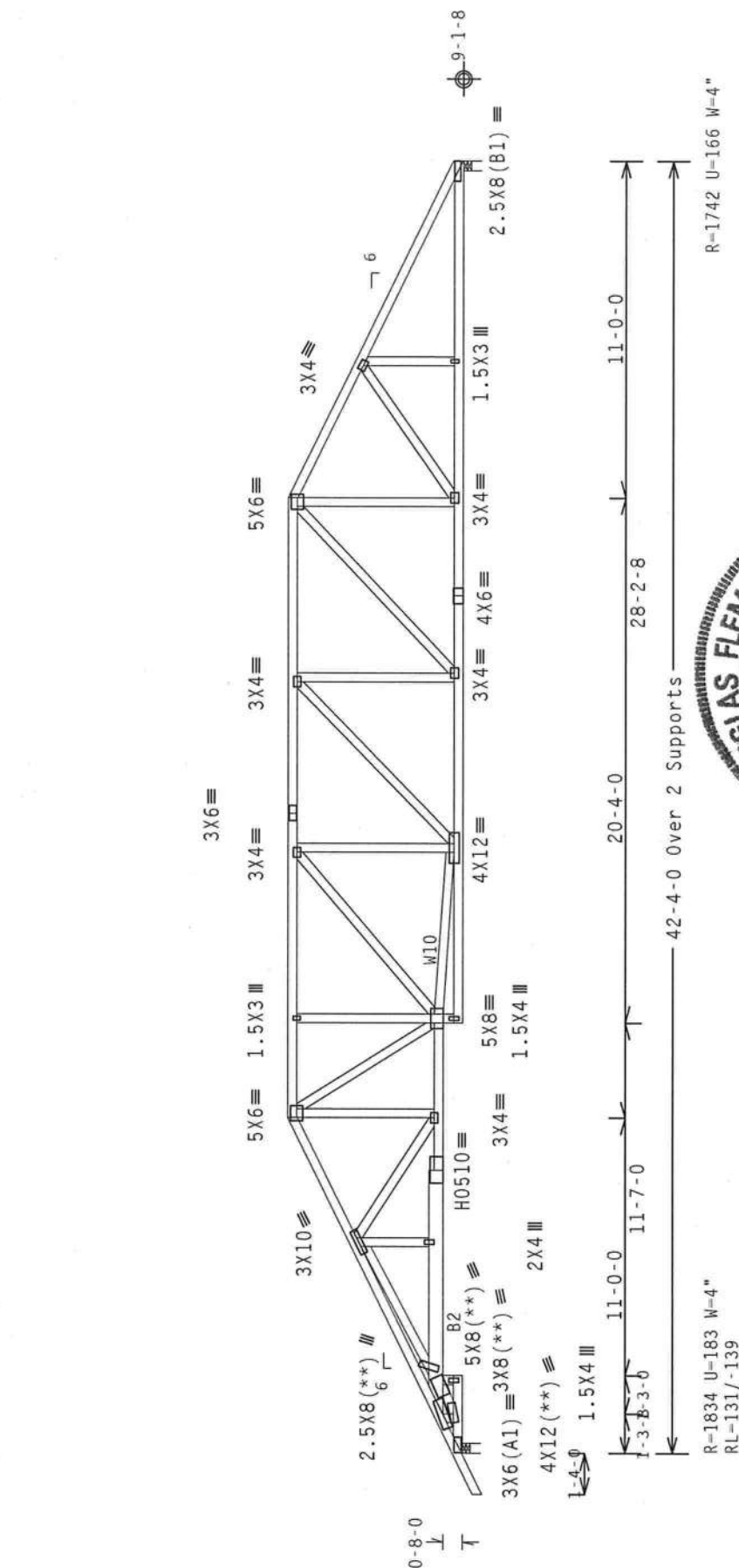
**(\*\*) 4 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.**

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=0.18

Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

MMFRS loads based on trusses located at least 7.50 ft. from roof edge.



R=1834 U=183 W=4"  
RL=131/-139

R-1742 U=166 W=4"

Design Crit: FBC2007Res/TPI-2002 (3 of 1)  
 FT/RT=10%(0%) / 0(0)      05/03/2019 16:00  
 Scale = .1875" / Ft.  
 FL / - / 4 / - / - / R / -

**ALPINE**

**ITW Building Components Group Inc.**

Haines City, FL 33844  
FL COA #0278

03/09/2011

**\*\*WARNING\*\*** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND MTCA (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. AND ITS NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURES TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AISC) AND TPI.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AISC) AND TPI.

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

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING.

ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PER AMEX AS OF 11-1-2002 SEC.3. A SEAL THIS COMPANY DESIGNER SIGNATURE, THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

(10-208--Fill) in later BRYAN ZECHE/ JASMINE MOD --, \*\* - H21AT)

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3 W1, W14 2x4 SP #2 Dense:

Left end vertical not exposed to wind pressure.

(J) hanger connection not found in inventory file for this condition.  
Provide connection.

Deflection meets L/240 live and L/180 total load.

Lanai/Porch Loading: 20.6 PLF wind pressure applied to the bottom  
chord of the truss from 15.73 ft to 29.88 ft, -0.00 ft to 15.73 ft and  
0.00 ft to 9.27 ft.

Laterally brace BC at 24" OC in lieu of rigid ceiling.

110 mph wind, 15.03 ft mean hgt, ASCE 7-05, CLOSED bldg, not located  
within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind  
BC DL-5.0 psf. lw=1.00 GCpl(+/-)-0.18

Wind reactions based on MMFRS pressures.

(a) Continuous lateral bracing equally spaced on member.

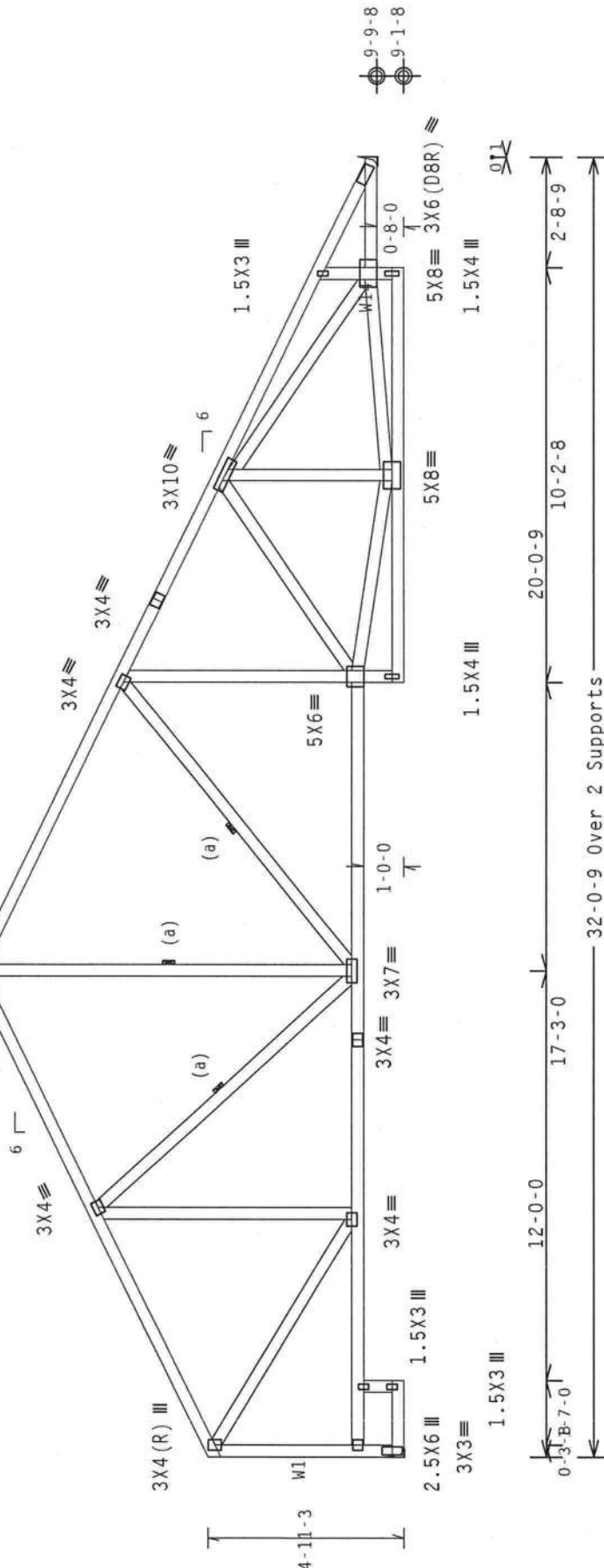
Bottom chord checked for 10.00 psf non-concurrent live load.

MMFRS loads based on trusses located at least 15.03 ft. from roof  
edge.

These hangers and support conditions used at bearings indicated.

(H1) = Simpson

(H2) = (J) Hanger not calculated



R-1319 U-0  
RL-145/-185  
H-H1

R-1320 U-0  
H-H2

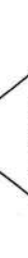
PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (S)  
FT/RT=10% (0%) / 0(0)

QTY: 1

FL/-4/-1/R/-

Scale = .25"/Ft.

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| <div><br/>ALPINE<br/>ITW Building Components Group Inc.<br/>Haines City, FL 33844<br/>FL COA #0278</div> | <p><b>**WARNING**</b> TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND UP LIFTING. BE RESPONSIBLE FOR ANTI-CORROSION FAILURE OF THE TRUSS IN CONFORMANCE WITH THE DESIGN. THE TRUSS IS NOT TO BE USED FOR ANYTHING OTHER THAN THE DESIGN PURPOSE. THE TRUSS IS NOT TO BE USED FOR ANYTHING OTHER THAN THE DESIGN PURPOSE. THE TRUSS IS NOT TO BE USED FOR ANYTHING OTHER THAN THE DESIGN PURPOSE.</p> <p><b>**IMPORTANT**</b> FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. IS NOT BE RESPONSIBLE FOR ANTI-CORROSION FAILURE OF THE TRUSS IN CONFORMANCE WITH THE DESIGN. THE TRUSS IS NOT TO BE USED FOR ANYTHING OTHER THAN THE DESIGN PURPOSE. THE TRUSS IS NOT TO BE USED FOR ANYTHING OTHER THAN THE DESIGN PURPOSE. THE TRUSS IS NOT TO BE USED FOR ANYTHING OTHER THAN THE DESIGN PURPOSE.</p> <p>TRUSS DESIGNER: J. B. HAINES<br/>TRUSS MANUFACTURER: ALPINE TRUSS CO.<br/>TRUSS INSTALLATION: J. B. HAINES<br/>TRUSS MAINTENANCE: J. B. HAINES<br/>TRUSS REPAIR: J. B. HAINES<br/>TRUSS REPLACEMENT: J. B. HAINES<br/>TRUSS REMOVAL: J. B. HAINES<br/>TRUSS DISPOSAL: J. B. HAINES<br/>TRUSS STORAGE: J. B. HAINES<br/>TRUSS TRANSPORT: J. B. HAINES<br/>TRUSS DELIVERY: J. B. HAINES<br/>TRUSS UNLOADING: J. B. HAINES<br/>TRUSS LIFTING: J. B. HAINES<br/>TRUSS SETTING: J. B. HAINES<br/>TRUSS BRACING: J. B. HAINES<br/>TRUSS TIGHTENING: J. B. HAINES<br/>TRUSS FINISHING: J. B. HAINES<br/>TRUSS INSPECTION: J. B. HAINES<br/>TRUSS ACCEPTANCE: J. B. HAINES<br/>TRUSS COMPLETION: J. B. HAINES<br/>TRUSS WARRANTY: J. B. HAINES<br/>TRUSS LIABILITY: J. B. HAINES<br/>TRUSS INDEMNITY: J. B. HAINES<br/>TRUSS RELEASE: J. B. HAINES<br/>TRUSS AGREEMENT: J. B. HAINES<br/>TRUSS CONTRACT: J. B. HAINES<br/>TRUSS ORDER: J. B. HAINES<br/>TRUSS INVOICE: J. B. HAINES<br/>TRUSS BILL OF MATERIALS: J. B. HAINES<br/>TRUSS SPECIFICATIONS: J. B. 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HAINES<br/>TRUSS ANALYSIS: J. B. HAINES<br/>TRUSS DESIGN: J. B. HAINES<br/>TRUSS FABRICATION: J. B. HAINES<br/>TRUSS SHIPMENT: J. B. HAINES<br/>TRUSS INSTALLATION: J. B. HAINES<br/>TRUSS MAINTENANCE: J. B. HAINES<br/>TRUSS REPAIR: J. B. HAINES<br/>TRUSS REPLACEMENT: J. B. HAINES<br/>TRUSS REMOVAL: J. B. HAINES<br/>TRUSS DISPOSAL: J. B. HAINES<br/>TRUSS STORAGE: J. B. HAINES<br/>TRUSS TRANSPORT: J. B. HAINES<br/>TRUSS DELIVERY: J. B. HAINES<br/>TRUSS UNLOADING: J. B. HAINES<br/>TRUSS LIFTING: J. B. HAINES<br/>TRUSS SETTING: J. B. HAINES<br/>TRUSS BRACING: J. B. HAINES<br/>TRUSS TIGHTENING: J. B. HAINES<br/>TRUSS FINISHING: J. B. HAINES<br/>TRUSS INSPECTION: J. B. HAINES<br/>TRUSS ACCEPTANCE: J. B. HAINES<br/>TRUSS COMPLETION: J. B. HAINES<br/>TRUSS WARRANTY: J. B. HAINES<br/>TRUSS LIABILITY: J. B. HAINES<br/>TRUSS INDEMNITY: J. B. HAINES<br/>TRUSS RELEASE: J. B. HAINES<br/>TRUSS AGREEMENT: J. B. HAINES<br/>TRUSS CONTRACT: J. B. HAINES<br/>TRUSS ORDER: J. B. HAINES<br/>TRUSS INVOICE: J. B. HAINES<br/>TRUSS BILL OF MATERIALS: J. B. HAIN</p> |  |  |  |  |  |  |  |  |  |
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|      |               |                  |
|------|---------------|------------------|
| Webs | 2x4 SP #3 :W1 | 2x4 SP #2 Dense: |
|------|---------------|------------------|

Left end vertical not exposed to wind pressure.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Minimum WFRS loads based on trusses located at least 15.00 ft. from roof edge.

Laterally brace BC at 24" OC in lieu of rigid ceiling.

Wind reactions based on MWFRS pressures.

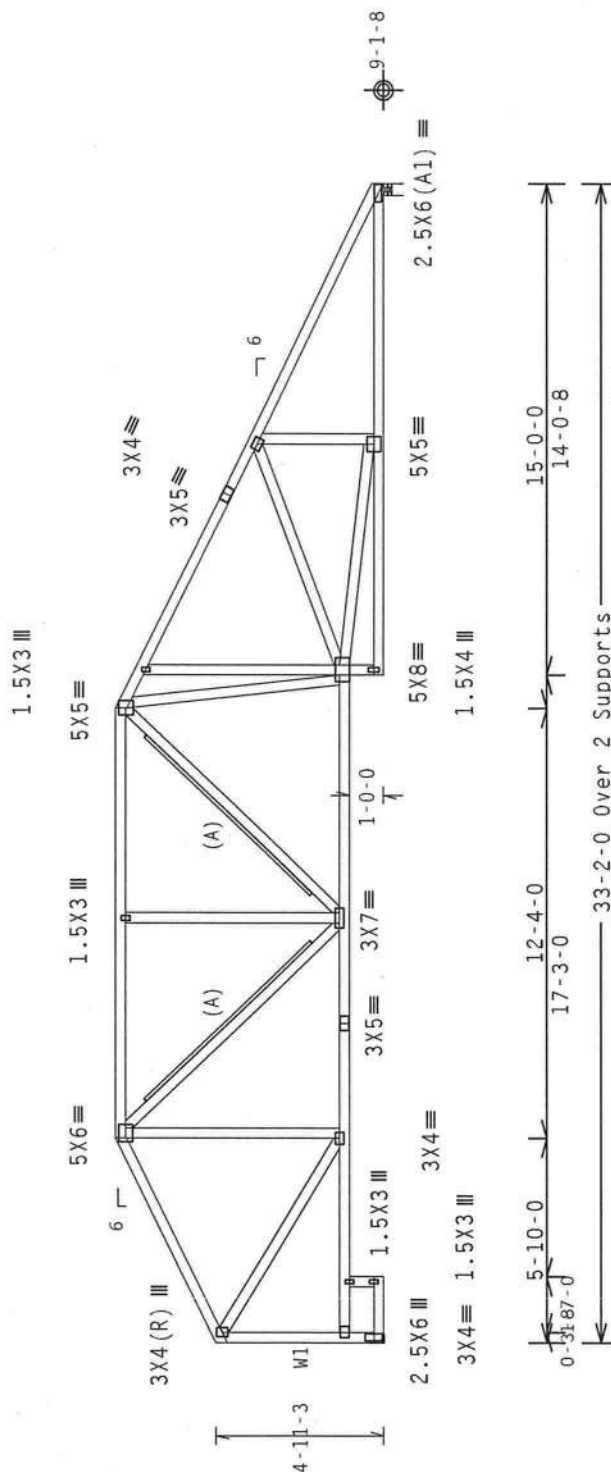
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

These hangers and support conditions used at bearings indicated.

(H1) - Simpson

(H2) = (J) Hanger not calculated



R-1360 U-18  
RL-85/-131  
H-H1

33-2-0 Over 2 Supports -

8-1372 U-10 W-4"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(  
FT/RT=10%(0%)/0(0))

05/03/2019 16:00

Scale = .1875"/Ft.

|          |       |     |                      |
|----------|-------|-----|----------------------|
| TC LL    | 20.0  | PSF | REF R487-- 96868     |
| TC DL    | 10.0  | PSF | DATE 03/09/11        |
| BC DL    | 10.0  | PSF | DRW HCUR487 11068003 |
| BC LL    | 0.0   | PSF | HC-ENG JB/DF         |
| TOT.LD.  | 40.0  | PSF | SEQN- 189196         |
| DUR.FAC. | 1.25  |     |                      |
| SPACING  | 24.0" |     | JREF- 1UA3487_Z01    |

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BCSI (BUILDING CONCEPTS INFORMATION), PUBLISHED BY TPI (TRUSS PLATE SYSTEMS) 218 NORTH LEE STREET, SUITE 3012, ALEXANDRIA, VA. 22314 AND WICA (WOOD TRUSS COUNCIL OF AMERICA) 6300 ENTERPRISE LANE, MADISON, WI 52719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITH BCSL INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE OR INJURY TO THE TRUSS IN COMPLIANCE WITH THE FOLLOWING DESIGN SPECIFICATIONS. CONSULT WITH AN ENGINEER REGARDING SHIPMENT, HANDLING, BRACING OF TRUSSES, DESIGN CONNECTOR PLATES ARE MADE OF 20/18/16GA (IN W/SS/A) ASTM A653 GRADE 40/60 (N, K/H/S) GALV., STEEL PLATING PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF 1911-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER SUS/TP/1 1 E.C. 2.

[illegible]

**ALPINE**

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

(10-208--F111 in later BRYAN ZECHER/ JASMINE MOD -- , \*\* - H17AT)

1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. IW=1.00 GCpf (+/-)=0.18

Wind reactions based on MNFRS 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.

These hangers and support conditions used at bearings indicated.

(H1) = Simpson  
 (H2) = (J) Hanger not calculated

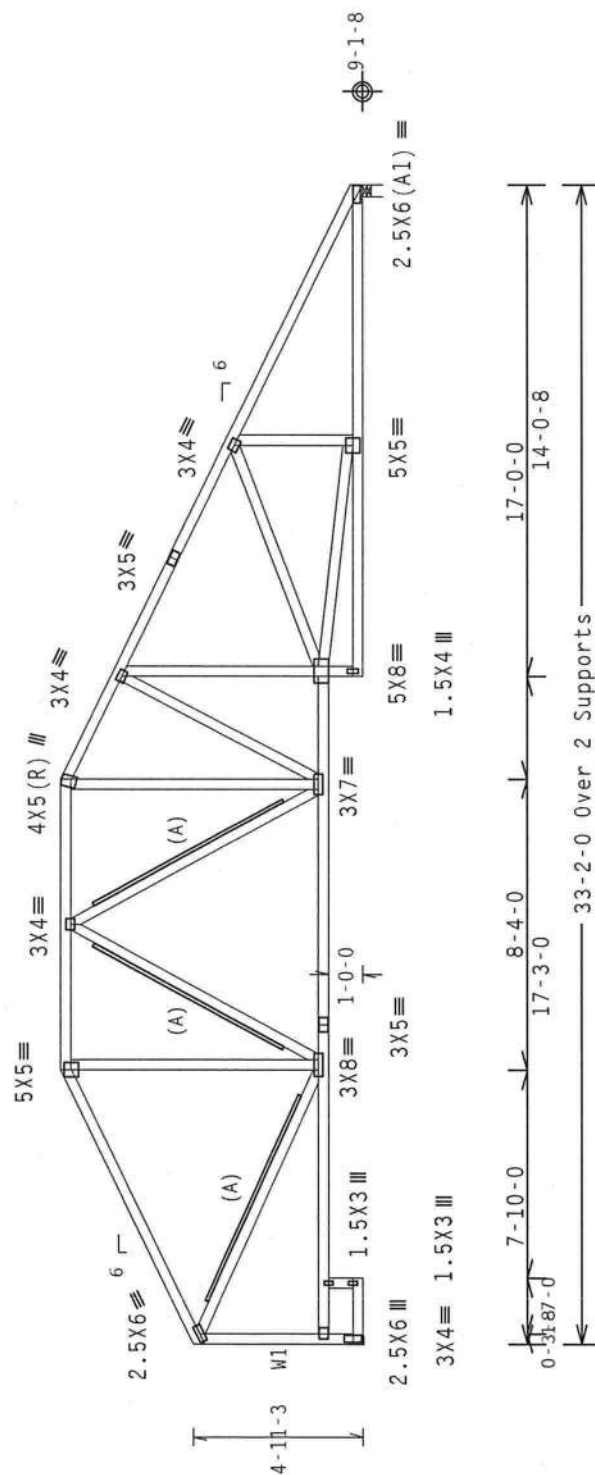
Left end vertical not exposed to wind pressure.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

WWFRS loads based on trusses located at least 15.00 ft. from roof edge.

Laterally brace BC at 24" OC in lieu of rigid ceiling.



R-1372 U=0 W=4"

R=1360 U=0  
RL=106/-152  
H=H1

Design Crit: FBC2007Res/TPI-2002 Scale = .1875"/Ft.  
 FT/RT=10%(0%)/0(0) TY: 1 FL/-/4/-/-/R/  
 05.03.0310.16

[illegible]

Webs 2x4 SP #3 :W1 2x4 SP #2 Dense:

Left end vertical not exposed to wind pressure.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

WFRS loads based on trusses located at least 15.00 ft. from roof edge.

Laterally brace BC at 24" OC in lieu of rigid ceiling.

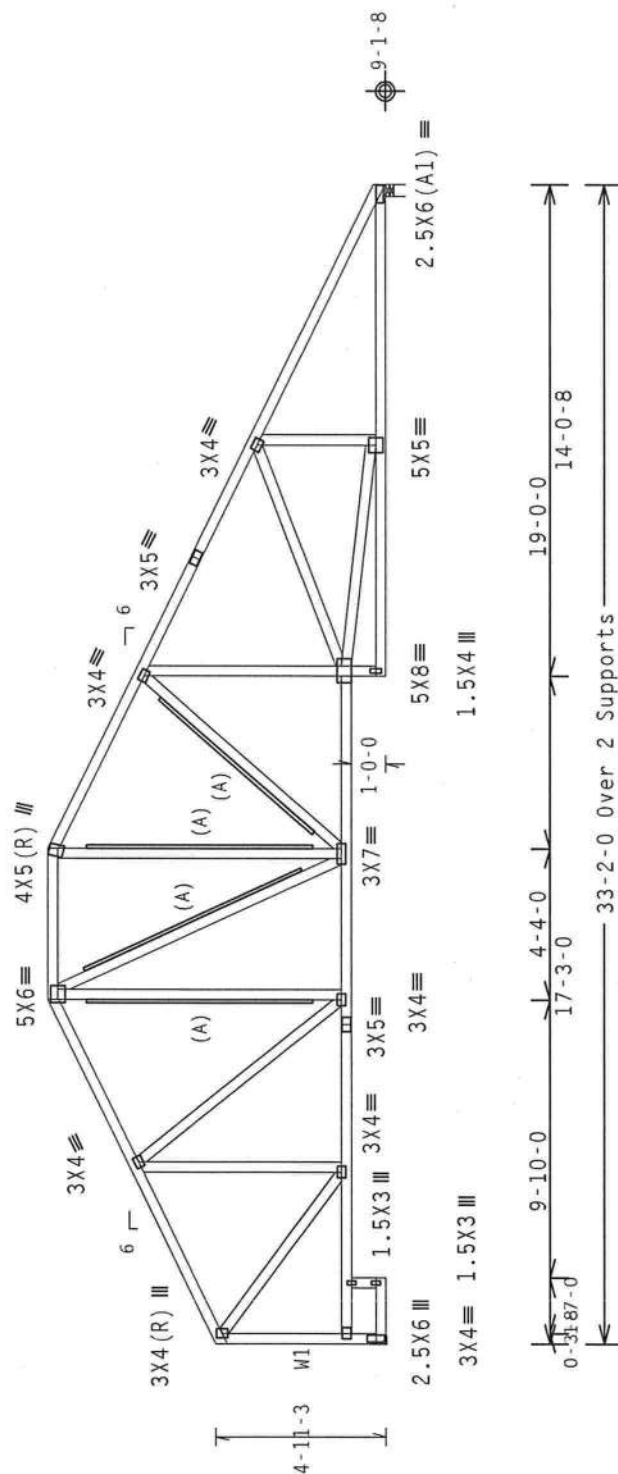
Wind reactions based on MWFRS pressures.

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

Deflection meets L/240 live and L/180 total load.

These hangers and support conditions used at bearings indicated.

(H1) = Simpson  
(H2) = (J) Hang



R=1372 U=0 W=4"

R-1360 U-0  
RL-128/-173  
H-H1

Design Crit: FBC2007Res/TPI-2002 (S.D)  
 FT/RT=10%(0%) / 0(0)  
 8-05-03-0319.16  
 TY: 1 FL/-4/-/-R/  
 Scale =.1875"/Ft.  
 PLT TYP. Wave

[illegible]

111110 mph wind, 15.07 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpt (+/-)0.18

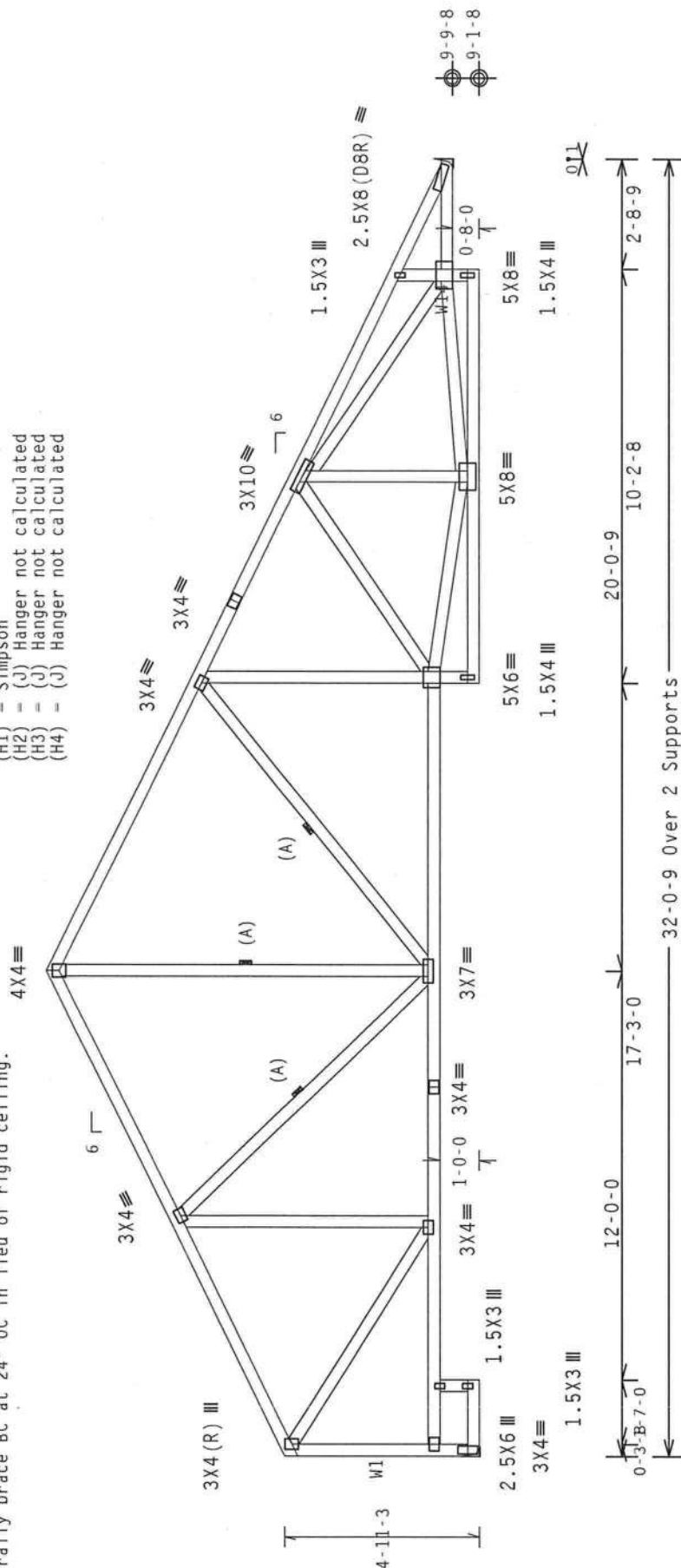
Left end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

WFRS loads based on trusses located at least 15.07 ft. from roof edge.

Laterally brace BC at 24" OC in lieu of rigid ceiling.

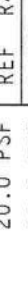


R=1436 U=0  
RL=145/-185  
H=H1

R=1390 U=0  
H=H2

Design Crit: FBC2007Res/TPI-2002 (S/D)  
 FT/RT=10%(0%/0/0)  
 TY:2  
 FL/-/4/-/-R/-  
 Scale = 25"/Ft.

PLT TYP. Wave



**nTW Building Components Group Inc.**  
Haines City, FL 33844  
FI COA #01 2788

03/09/2011

**PROFESSIONAL ENGINEER**

**STATE OF FLORIDA**

**No. 66848**

**DATE** 03/09/11 **REF** R487 -- 96871

**DRW** HCUSR487 11068012 **DATE** 03/09/11

**HC-ENG** JB/DF **SEQN-** 189238

**TOT.LD.** 40.0 PSF **DUR.FAC.** 1.25

**SPACING** 24.0"

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE TRUSSES ARE DESIGNED FOR A LIVE LOAD OF 20 PSF. THE TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSE. THE TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSE. THE TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSE.

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

THE TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSE. THE TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSE. THE TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSE.

|  |    |     |    |    |     |     |    |    |        |
|--|----|-----|----|----|-----|-----|----|----|--------|
|  | W1 | 2x4 | SP | #3 | :W1 | 2x4 | SP | #2 | Dense: |
|--|----|-----|----|----|-----|-----|----|----|--------|

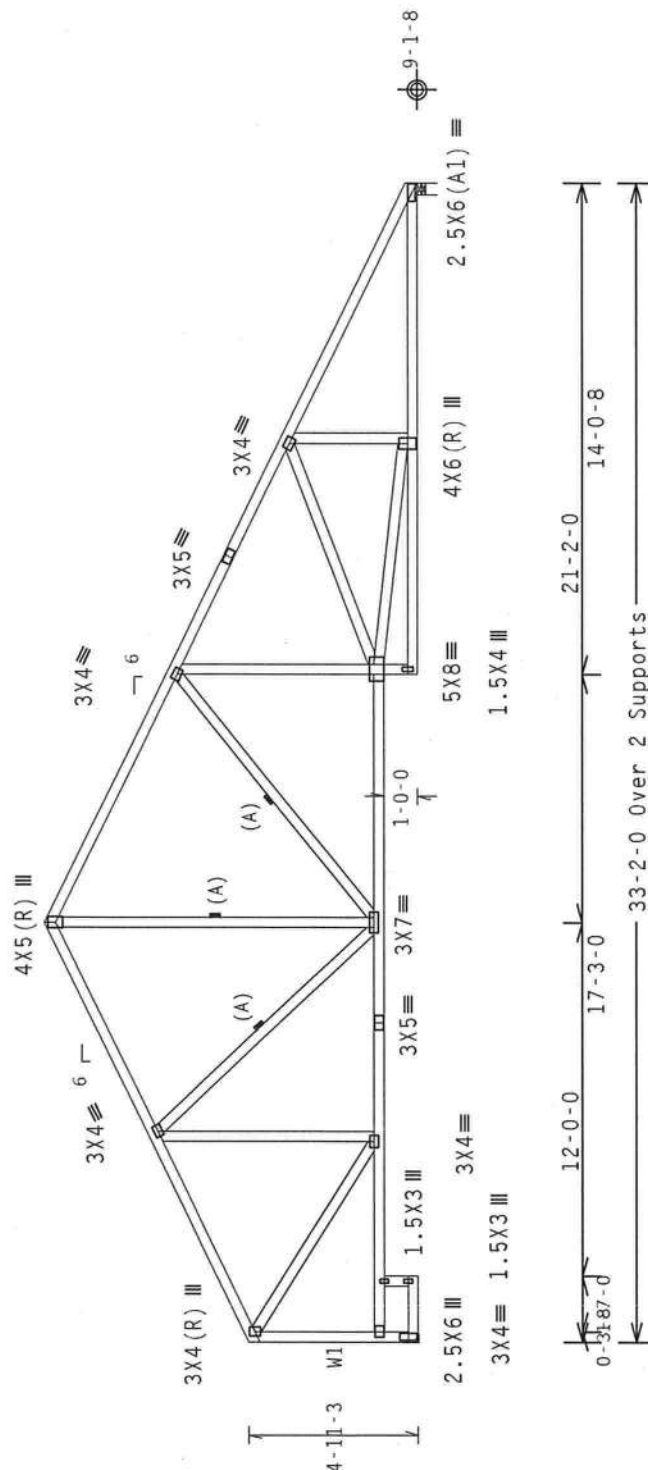
Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

MMFRS loads based on trusses located at least 15.00 ft. from roof edge.

(H1) = Simpson  
(H2) = (J) Hanger not calculated

9-1-8



R=1360 U=0  
RL=150/-196  
H=H1

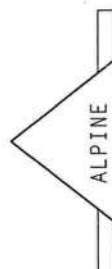
R-1372 U=0 W=4"

Design Crit: FBC2007Res/TPI-2002 (S.D)  
 FT/RT=10%(0%)/0(0)  
 TY:1  
 FL/-/4/-/-/R/-  
 Scale = .1875"/Ft.

|          |       |     |        |             |          |
|----------|-------|-----|--------|-------------|----------|
| TC LL    | 20.0  | PSF | REF    | R487--      | 96872    |
| TC DL    | 10.0  | PSF | DATE   | 03/09/11    |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR487    | 11068013 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF       |          |
| TOT.LD.  | 40.0  | PSF | SEQN-  | 189252      |          |
| DUR.FAC. | 1.25  |     |        |             |          |
| SPACING  | 24.0" |     | JREF-  | 1UA3487_Z01 |          |

03/09/2011

1055 11182407 701



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

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

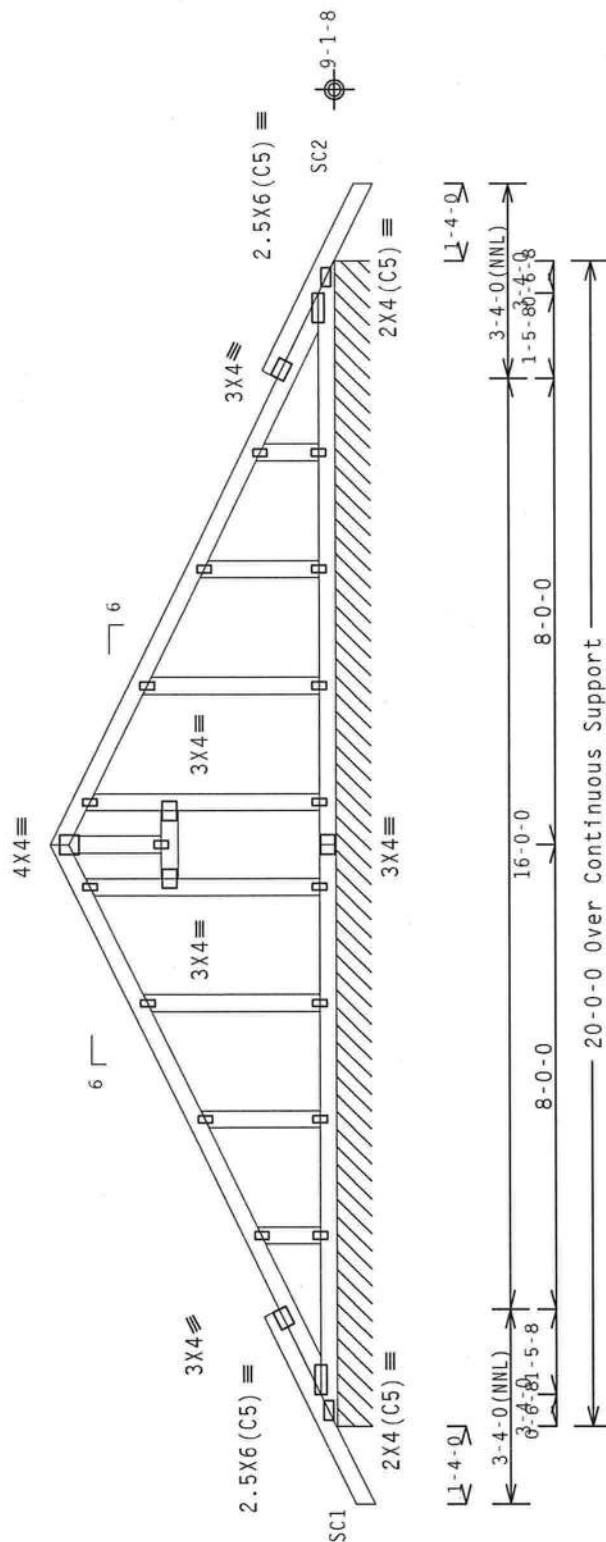
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

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

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

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



R-91 PLF U=8 PLF W=20-0-0  
RL=6/-6 PLF

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(S

PLT TYP. Wave

Scale = .3125"/Ft.

OFF R487-- 06873

|      |             |
|------|-------------|
| REF  | R487--96073 |
| DATE | 06/09/11    |

DATE 03/09/11

0RW HCUSR487 11068001

C-ENG JR/DE

|        |       |         |
|--------|-------|---------|
| IC-ENG | JD/DF | 150.100 |
|--------|-------|---------|

153400

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

REF- 111A3487 701

REF- IUA348/\_201

( 10-208--Fill in later BRYAN ZECHER/ JASMINE MOD -- . \*\* - B )

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

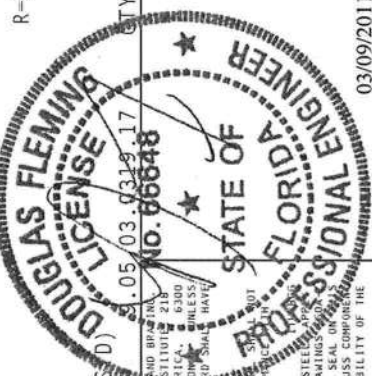
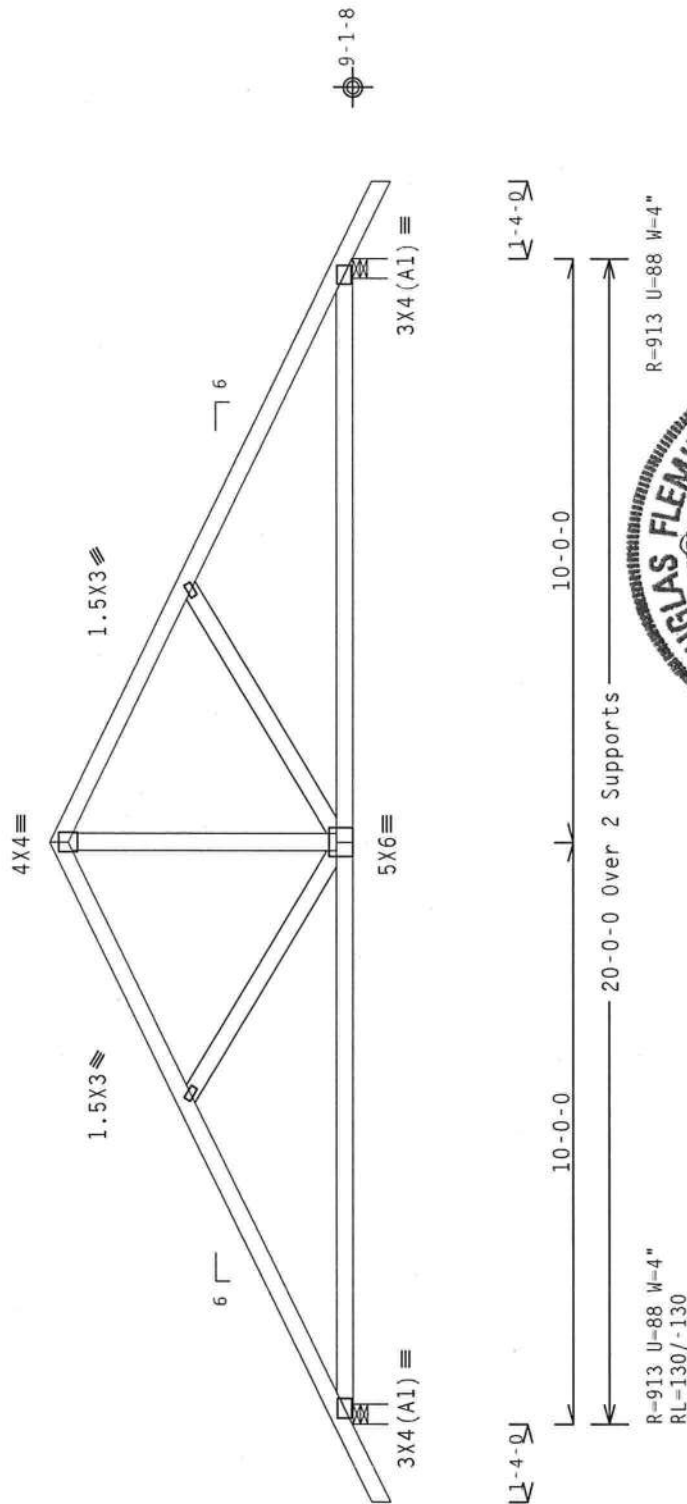
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg. Located  
anywhere in roof. CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0  
psf. IW=1.00 GCp1(+/-)-0.18

Roof overhang supports 2.00 psf soffit load.

Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.



|               |                                                              |          |              |                       |
|---------------|--------------------------------------------------------------|----------|--------------|-----------------------|
| PLT TYP. Wave | Design Crit: FBC2007Res/TPI-2002 (S.D)<br>FT/RT=10%(0%)/0(0) | QTY: 2   | FL/-4/-/-R/- | Scale = .3125"/Ft.    |
|               |                                                              | TC LL    | 20.0 PSF     | REF R487-- 96874      |
|               |                                                              | TC DL    | 10.0 PSF     | DATE 03/09/11         |
|               |                                                              | BC DL    | 10.0 PSF     | DRW HCUSR487 11068010 |
|               |                                                              | BC LL    | 0.0 PSF      | HC-ENG JB/DF          |
|               |                                                              | TOT.LD.  | 40.0 PSF     | SEQN- 153397          |
|               |                                                              | DUR.FAC. | 1.25         |                       |
|               |                                                              | SPACING  | 24.0"        | JREF- 1UA3487_Z01     |

**ALPINE**

**rtw Building Components Group Inc.**  
Haines City, FL 33844  
FL COA #0 278

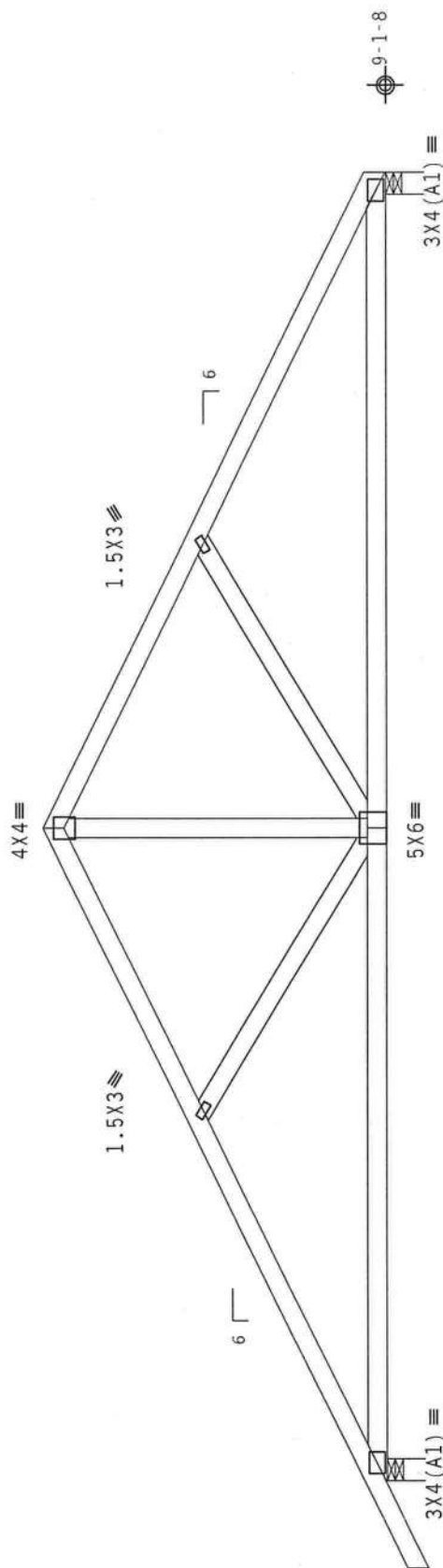
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE) 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 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. IF THE BUILDER DOES 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 2018/7664 (W/M/SS/A) ASTM A653 GRADE 40/60 (N. E/M-SS) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002 SEC.3 FOR THE TRUSS MANUFACTURER 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 | Bot | Chord | 2x4 | SP | Dense |
|--|-----|-----|-------|-----|----|-------|
|  |     |     | chord | 2x4 | SP | Dense |
|  |     |     | chord | 2x4 | SP | Dense |
|  |     |     | webs  | 2x4 | SP | Dense |

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.



1-4-03

10-0-0

10-0-0

20-0-0 Over 2 Supports

R-916 U-89 W-4"  
RL-113/-120

R-820 U-71 W-4"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(SD)  
 FT/RT=10%(0%) (0 (0)  
 QTY: 8 FL / - 4 / - / R / -  
 Scale = 375" / Ft.

|          |          |                       |
|----------|----------|-----------------------|
| TC LL    | 20.0 PSF | REF R487-- 96875      |
| TC DL    | 10.0 PSF | DATE 03/09/11         |
| BC DL    | 10.0 PSF | DRW HCUSR487 11068015 |
| BC LL    | 0.0 PSF  | HC-ENG JB/DF          |
| TOT.LD.  | 40.0 PSF | SEQN- 153394          |
| DUR.FAC. | 1.25     |                       |
| SPACING  | 24.0"    | JREF- 1UA3487_Z01     |

03/09/2011



**NW Building Components Group Inc.**  
Haines City, FL 33844  
FL COA #0 278

Stack Chord SC1 2x4 SP #2 Dense::Stack Chord SC2 2x4 SP #2 Dense:

Roof overhang supports 2.00 psf soffit load.

Right end vertical not exposed to wind pressure.

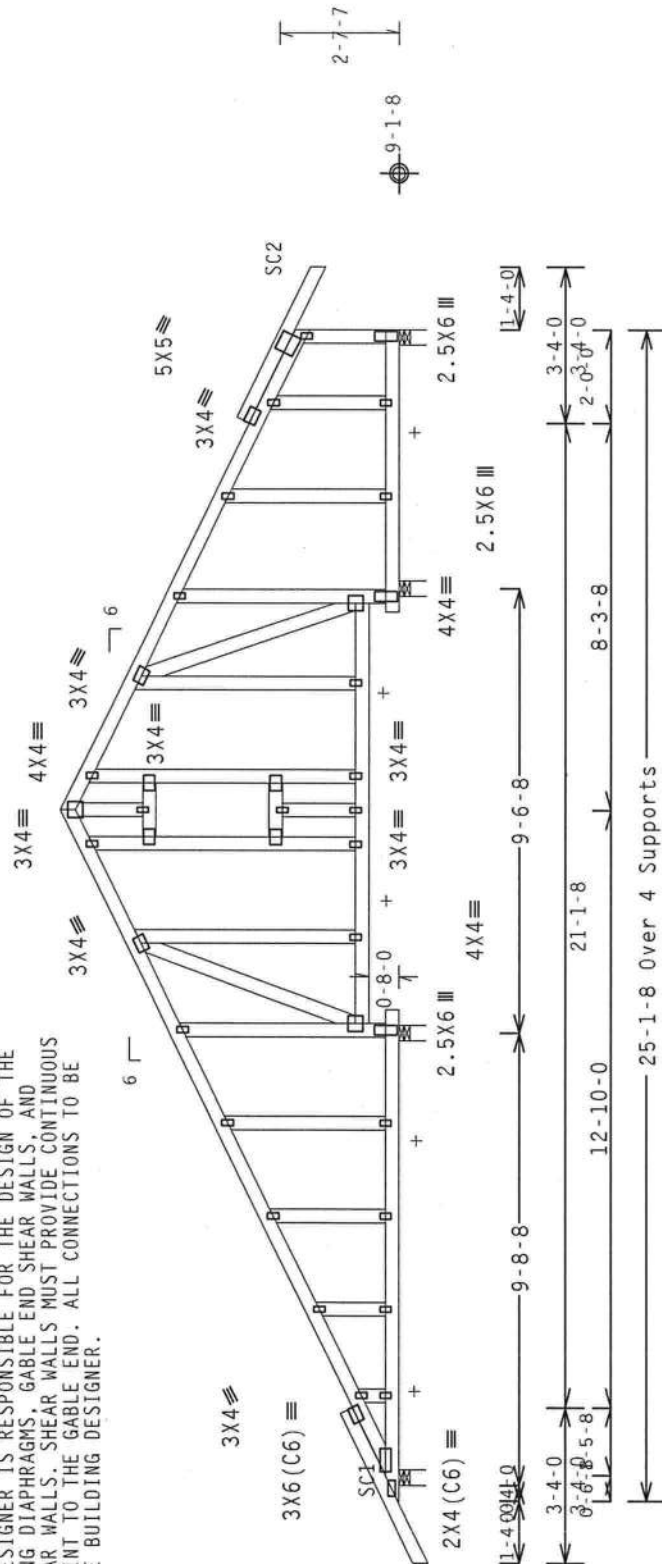
Truss spaced at 24.0" OC designed to support 0-0-0 top chord outlookers.  
Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

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

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



R-526 U-56 W-4"  
RL-167/-143

R-827 U-67 W-4"

2 U-51 W-4"

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(s)

Scale = .25"/Ft.

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

05/09/2019 09:05:03

FT/RT=10% (0%)

2000

PLT TYP. Wave

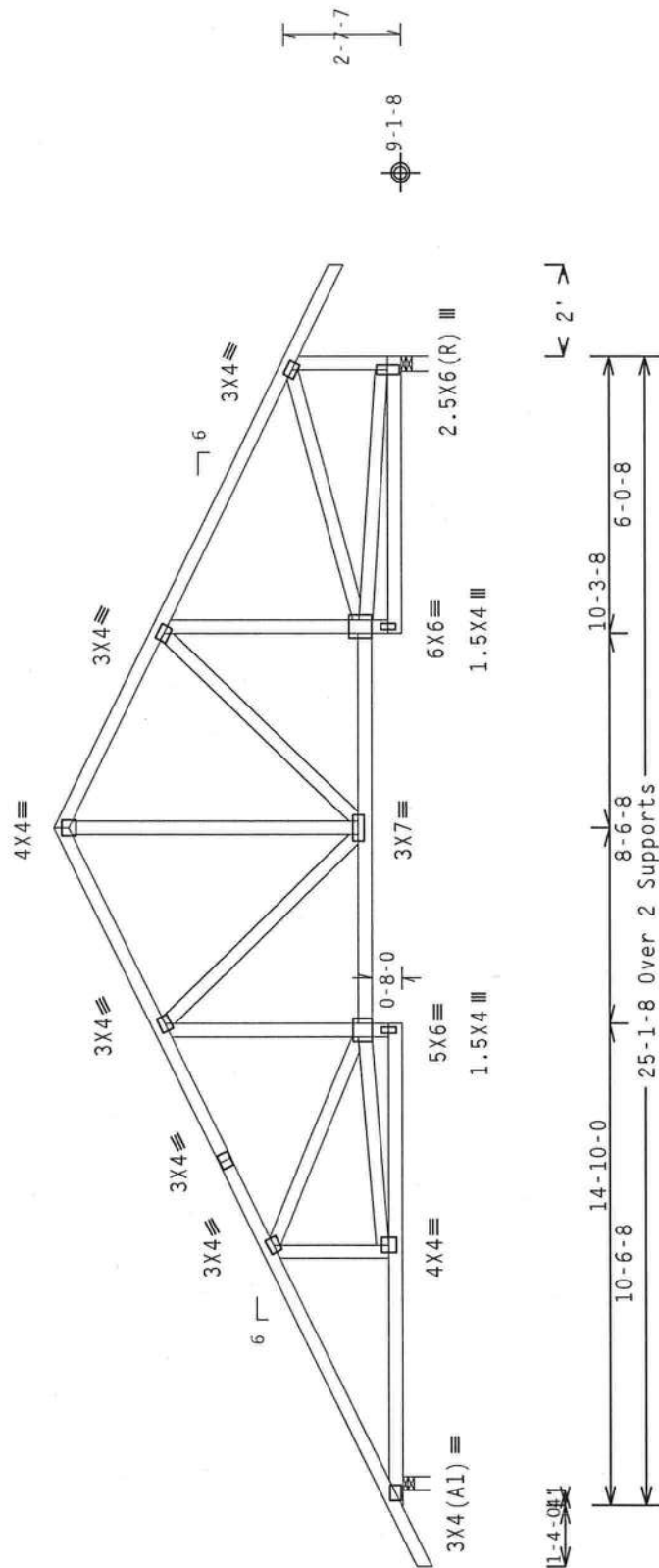
[illegible]

( 10-208--Fill in later BRYAN ZECHER/ JASMINE MOD -- , \*\* - C )

1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



R-1136 U-106 W-3.5"  
RL-177/-150

R-1156 U-115 W-4"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(09)  
FT/RT=10%(0%)/0(0)

OTY:2 FL/-/4/-/-/R/- Scale = 25"/Ft.

[illegible]

( 10-208--Fill in later BRYAN ZECHER/ JASMINE MOD -- , \*\* - C1 )

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 7-05, CLOSED bldg. Located  
anywhere in roof, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0  
psf. lw=1.00 GCPI(+/-)-0.18

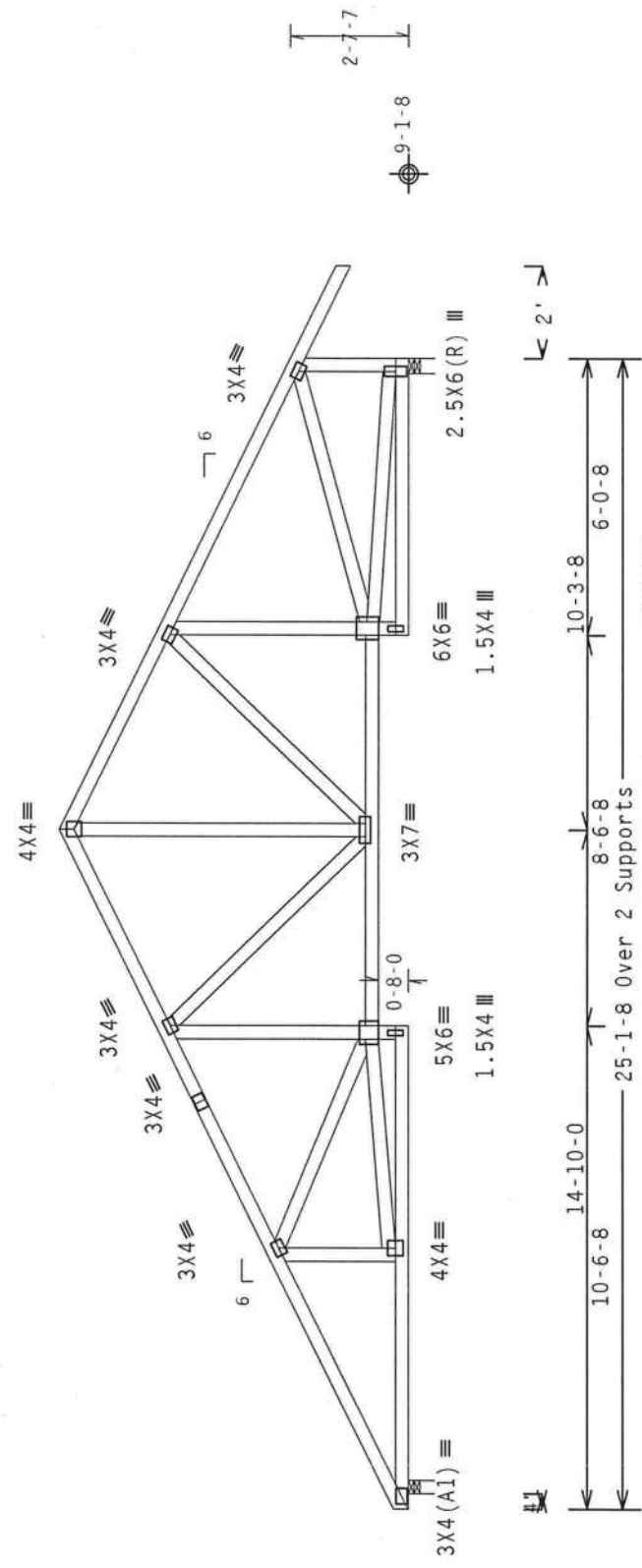
Roof overhang supports 2.00 psf soffit load.

Wind reactions based on MWFRS pressures.

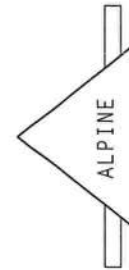
Bottom chord checked for 10.00 psf non-concurrent live load.

Right end vertical not exposed to wind pressure.

Deflection meets L/240 live and L/180 total load.



R-1043 U-89 W-3.5"  
RL-166/-132



**ALPINE**  
Haines City, FL 33844  
FL COA #0278

PLT TYP. Wave

Design Crit: FBC2007Res/TP1-2002 (S.D)  
FT/RT=10%(0%)/0(0)

Scale = .25"/Ft.

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

03/09/2011

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R487-- 96878      |
| TC DL    | 10.0 PSF | DATE   | 03/09/11          |
| BC DL    | 10.0 PSF | DRW    | HCUSR487 11068008 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF             |
| TOT.LD.  | 40.0 PSF | SEQN-  | 153409            |
| DUR.FAC. | 1.25     |        |                   |
| SPACING  | 24.0"    | JREF-  | 1UA3487_Z01       |

**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, 2300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS IN CONFORMANCE WITH THE TPI (TRUSS PLATE INSTITUTE) AND MICA (WOOD TRUSS COUNCIL OF AMERICA) DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFPA) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/16GA (M/M/SS/A) ASTM A653 GRADE 40/60 (IN. K/H/SS) GALV. STEEL. UNLESS OTHERWISE INDICATED, ALL PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING (OR). ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL OR SIGNATURE OF THE DESIGNER IS REQUIRED FOR THE TRUSS COMPANY TO BE SHOWN ON THE SUBMITTAL. THE SUBMITTAL USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

111110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind EC DL=5.0 psf. Iw=1.00 GCPI (+/-) -0.18

Wind reactions based on MWFRS pressures.

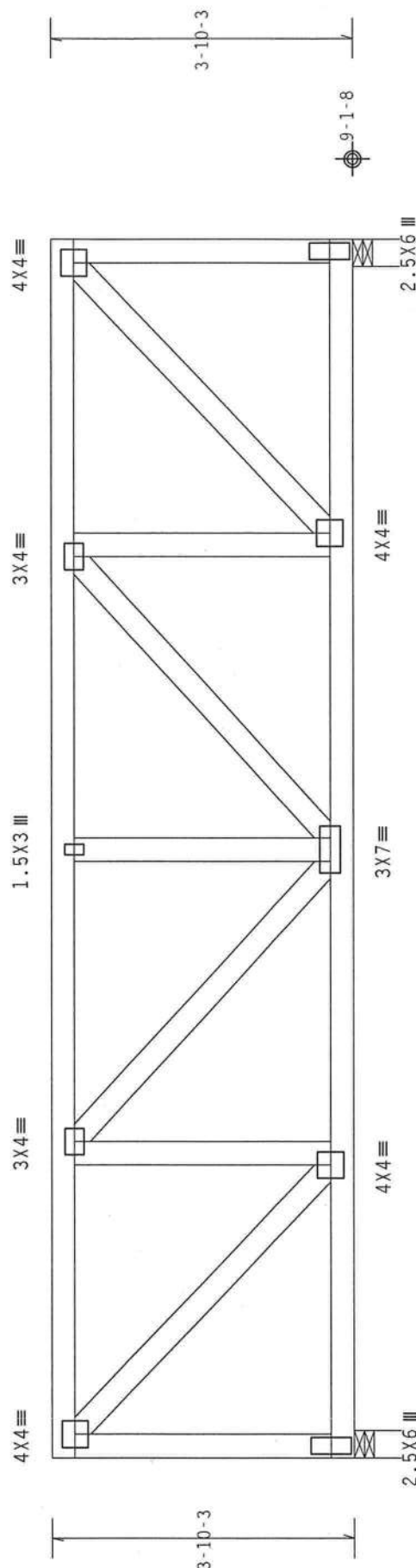
Deflection meets L/240 live and L/180 total load.

Truss must be installed as shown with top chord up.

End verticals not exposed to wind pressure.

Girder supports 7-0-0 span to TC/BC split one face and 2-0-0 span to TC/BC split opposite face.

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.



← 15-2-0 Over 2 Supports →

R=1405 U=172 W=4"

R=1405 U=188 W=4"

Design Crit: FBC2007Res/TPI-2002 (100%)  
 FT/RT=10%(0%)/0(0%)  
 Scale = 5"/Ft.  
 FL/-4/-/-/R/-  
 QTY: 1

|          |       |     |                       |
|----------|-------|-----|-----------------------|
| TC LL    | 20.0  | PSF | REF R487 - - 96879    |
| TC DL    | 10.0  | PSF | DATE 03/09/11         |
| BC DL    | 10.0  | PSF | DRW HCUSR487 11068009 |
| BC LL    | 0.0   | PSF | HC-ENG JB/DF          |
| TOT.LD.  | 40.0  | PSF | SEQN- 189272          |
| DUR.FAC. | 1.25  |     |                       |
| SPACING  | 24.0" |     | JREF- IUA3487_Z01     |

[illegible]

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

Webs 2x4 SP #3 :W2, W8 2x4 SP #1:

| id | type  | material | length/bk | #blocks | x-loc   | #nails/bk | material      |
|----|-------|----------|-----------|---------|---------|-----------|---------------|
| 1  | rigid | blk      | 12"       | 1       | 0.000'  | 10        | rigid Surface |
| 2  | rigid | blk      | 12"       | 1       | 14.833' | 12        | rigid Surface |

Wind reactions based on MWFRS pressures.

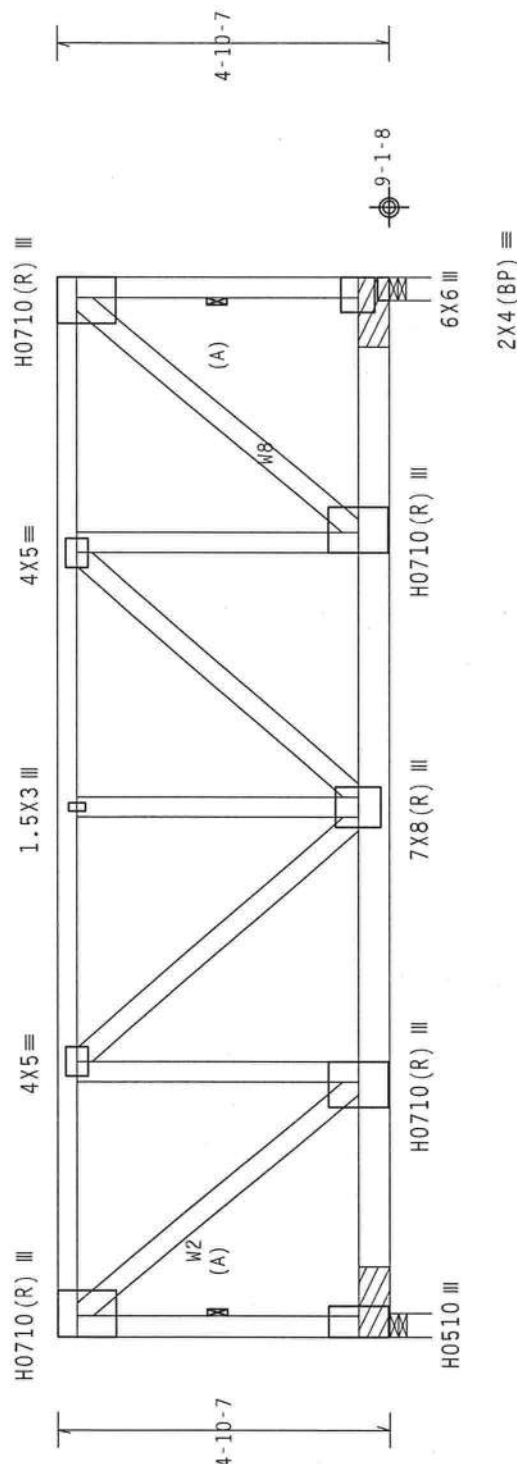
Truss must be installed as shown with top chord up.

Deflection meets L/240 live and L/180 total load.

|     | Species | (Lumber)                          | Dur. | Fac.-1.25 / | Plate Dur. | Fac.-1.25  |
|-----|---------|-----------------------------------|------|-------------|------------|------------|
| TC- | From    | 60 plf at 0.00 to 60 plf at 15.17 |      |             |            |            |
| BC- | From    | 10 plf at 0.00 to 10 plf at 15.17 |      |             |            |            |
| BC- | 1359.78 | lb Conc. Load at 1.73,            |      |             |            | 5.73.11    |
| BC- | 1319.49 | lb Conc. Load at 7.73,            |      |             |            | 9.73.11-73 |
| BC- | 1435.91 | lb Conc. Load at 9.73,            |      |             |            | 11-73      |

End verticals not exposed to wind pressure.

Deflection meets L/240 live and L/180 total load.



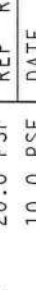
← 15-2-0 Over 2 Supports.

R-5223 U-210 W-4"

469 U-142 W=4"

Design Crit: FBC2007Res/TPI-2002 (FT/RT=10%/0%)/0(0)

QTY:1 FL/-/4/-/-/R/-/-  
Scale = .375" / Ft.



**ALPINE**

**nw Building Components Group Inc.**  
Haines City, FL 33844  
Tel. COA #0 278

**\*WARNING\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND DRILLING. SEE THE FOLLOWING INSTRUCTIONS FOR THE PROPER HANDLING OF TRUSSES. TRUSSES ARE TO BE STORED ON NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA - 22314 AND MITCA (WOOD TRUSSES) TO BE STORED IN THE NORTH 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 TRUSSES IN COMPLIANCE WITH THE FOLLOWING FABRICATION, HANDLING, SHIPPING, INSTALLATION AND DRILLING INSTRUCTIONS, WITH THE EXCEPTION OF THE CONNECTIONS, SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGN SPECIFICATIONS, CONNECTION PLATES ARE MADE OF 20/18/16GA (W-H/S/S/F) ASTM A653 GRADE 40/60 (W-H/S/S) GALV. (SEE SPEC. FOR PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS). A TRUSS INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.

03/09/2011

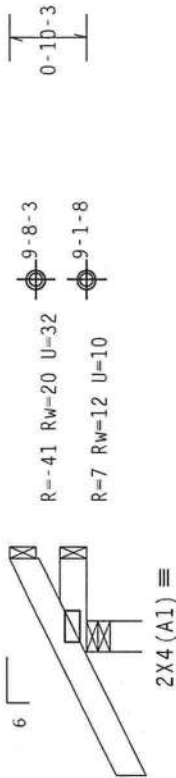
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCp1 (+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

• • • • •



1-4-0  
1-0-0 over 3 Supports  
R=222 U=40 W=4"  
RL=26

Design Crit: FBC2007Res/TPI-2002  
FT/RT=10%(0%)/0(0%)

QTY:6 FL/-/4/-/-/R/-  
Scale =.5"/Ft.

|          |       |     |        |             |          |
|----------|-------|-----|--------|-------------|----------|
| TC LL    | 20.0  | PSF | REF    | R487--      | 96881    |
| TC DL    | 10.0  | PSF | DATE   | 03/09/11    |          |
| BC DL    | 10.0  | PSF | DRW    | HCUSR487    | 11068003 |
| BC LL    | 0.0   | PSF | HC-ENG | JB/DF       |          |
| TOT.LD.  | 40.0  | PSF | SEQN-  | 153379      |          |
| DUR.FAC. | 1.25  |     |        |             |          |
| SPACING  | 24.0" |     | JREF-  | 1UA3487_Z01 |          |

03/09/2011



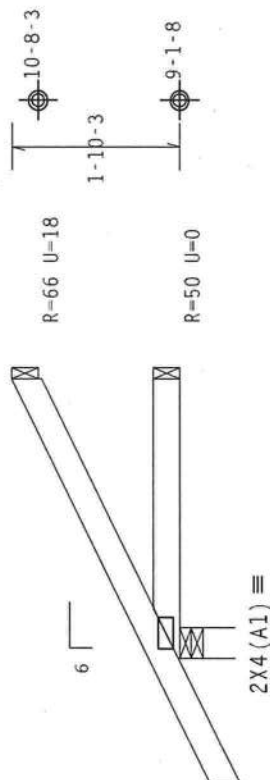
**ALPINE**  
**ITW Building Components Group Inc.**  
 Haines City, FL 33844  
 FL COA #0 278

11110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



←1-4-0→

3-0-0 Over 3 Supports

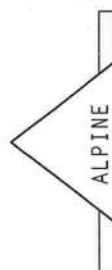
-244 U=22 W=4"  
L=50/-25

Design Crit: FBC2007Res/TPI-2002(S/D)  
 $FT/RT=10\%(0\%)/0(0)$

Scale = .5"/Ft.

|          |          |                       |
|----------|----------|-----------------------|
| TC LL    | 20.0 PSF | REF R487 -- 96882     |
| TC DL    | 10.0 PSF | DATE 03/09/11         |
| BC DL    | 10.0 PSF | DRW HCUSR487 11068004 |
| BC LL    | 0.0 PSF  | HC-ENG JB/DF *        |
| TOT.LD.  | 40.0 PSF | SEQN- 153382          |
| DUR.FAC. | 1.25     |                       |
| SPACING  | 24.0"    | JREF- IUA3487_Z01     |

03/09/2011



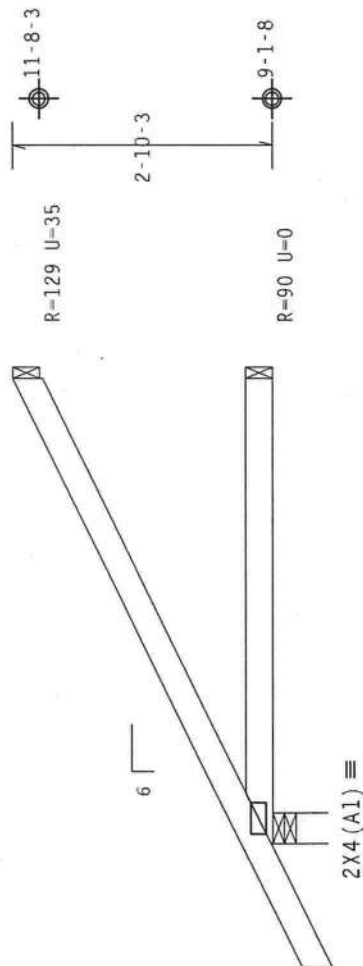
**ITW Building Components Group Inc.**  
Haines City, FL 33844  
FL COA #0 278

111110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind GC DL=5.0 psf. Iw=1.00 GCpf (+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



1-4-0

5-0-0 Over 3 Supports

R=316 U=21 W=4"  
RL=73/-30

Design Crit: FBC2007Res/TPI-2002(S&B)

Scale = .5"/Ft.

|          |       |     |                       |
|----------|-------|-----|-----------------------|
| TC LL    | 20.0  | PSF | REF R487-- 96883      |
| TC DL    | 10.0  | PSF | DATE 03/09/11         |
| BC DL    | 10.0  | PSF | DRW HCUSR487 11068019 |
| BC LL    | 0.0   | PSF | HC-ENG JB/DF          |
| TOT.LD.  | 40.0  | PSF | SEQN- 153385          |
| DUR.FAC. | 1.25  |     |                       |
| SPACING  | 24.0" |     | JREF- 1UA3487_Z01     |

03/09/2011



**ITW Building Components Group Inc.**

Haines City, FL 33844  
FL COA #0 278

1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-) -0.18

Roof overhang supports 2.00 psf soffit load.

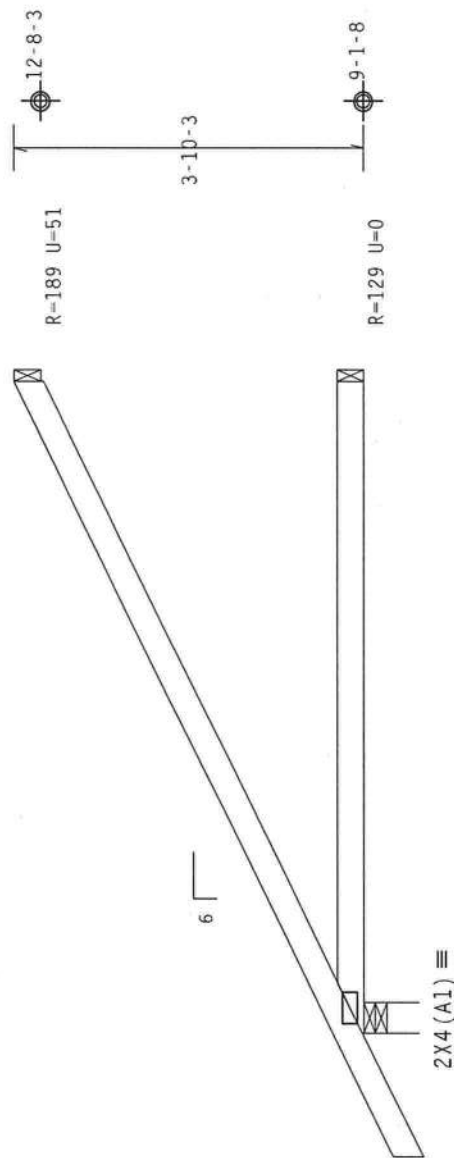
Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



704

7-0-0 Over 3 Supports

R-394 U-22 W-4"  
RL-96/-35

Design Crit: FBC2007Res/TPI-2002 (C) 2007  
FT/RT=10%(0%)/0(0)

Scale = .5" / Ft.

TY:21 FL/-/4/-/-/R/-

REF R487 - - 96884

|    |    |        |
|----|----|--------|
| TC | LL | 20.0 P |
|----|----|--------|

DATE 03/09/11

| TC DL  | 10.0 P |
|--------|--------|
| 10.0 P | 10.0 P |

OPW HCUISB497 1106800E

| BC | DI | 10 | 0 | D |
|----|----|----|---|---|
|    |    |    |   |   |

UKW HCU3K487 11008003

[illegible]

HC-ENG JB/DF

|       |       |
|-------|-------|
| BC LL | 0.0 F |
| <hr/> |       |

SEQN- 153391

|         |        |
|---------|--------|
| TOT.LD. | 40.0 P |
|---------|--------|

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|          |      |
|----------|------|
| DUR.FAC. | 1.25 |
|----------|------|

JREF- 1UA3487\_Z01

011 SPACING 24.0"

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

(10-208--Fill in later BRYAN ZECHER/ JASMINE MOD -- . \*\* - CJ3T)

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

Roof overhang supports 2.00 psf soffit load.

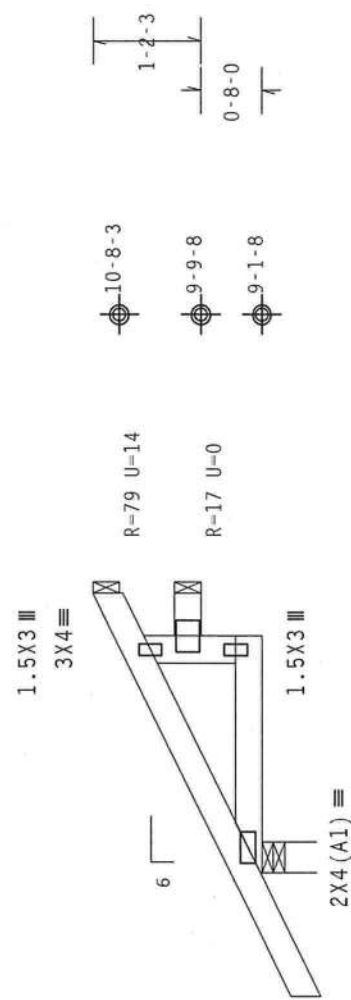
Bottom chord checked for 10.00 psf non-concurrent live load.

Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg. Located anywhere in roof, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)-0.18

Wind reactions based on MMFRS pressures.

Deflection meets L/240 live and L/180 total load.



3-0-0 2-6-8 Support 5-8

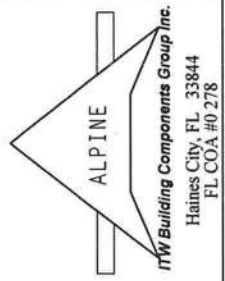
R-244 U-22 W-4"  
RL-50/-25

|               |                                                              |                                 |                       |
|---------------|--------------------------------------------------------------|---------------------------------|-----------------------|
| PLT TYP. Wave | Design Crit: FBC2007Res/TPI-2002 (SD)<br>FT/RT=10% (0%)/0.0) | FL/-4/-/-R/-<br>Scale = .5"/Ft. | REF R487-- 96885      |
|               |                                                              | TC LL 20.0 PSF                  | DATE 03/09/11         |
|               |                                                              | TC DL 10.0 PSF                  | DRW HCUSR487 11068004 |
|               |                                                              | BC DL 10.0 PSF                  | HC-ENG JB/DF *        |
|               |                                                              | BC LL 0.0 PSF                   | SEQN- 189040          |
|               |                                                              | TOT.LD. 40.0 PSF                |                       |
|               |                                                              | DUR.FAC. 1.25                   |                       |
|               |                                                              | SPACING 24.0"                   | JREF- 1UA3487_Z01     |



**\*\*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 METCA (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. THE BCG, IN ADDITION TO BE RESPONSIBLE FOR THE DESIGN, SHALL BE RESPONSIBLE FOR THE TRUSS IN CONFORMANCE WITH THE DESIGN. ANY CHANGES TO THE TRUSS DESIGN SHALL BE MADE IN WRITING AND APPROVED BY THE DESIGNER. THE TRUSS SHALL BE FABRICATED, HANDLED, SHIPPED, INSTALLED & BRACED IN ACCORDANCE WITH THE DESIGN. THE TRUSS SHALL CONFORM WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/A) ASTM A653 GRADE 40/60 (W. K/H-SS) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. A SEAL OR SIGNATURE OF THE DESIGNER IS REQUIRED. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

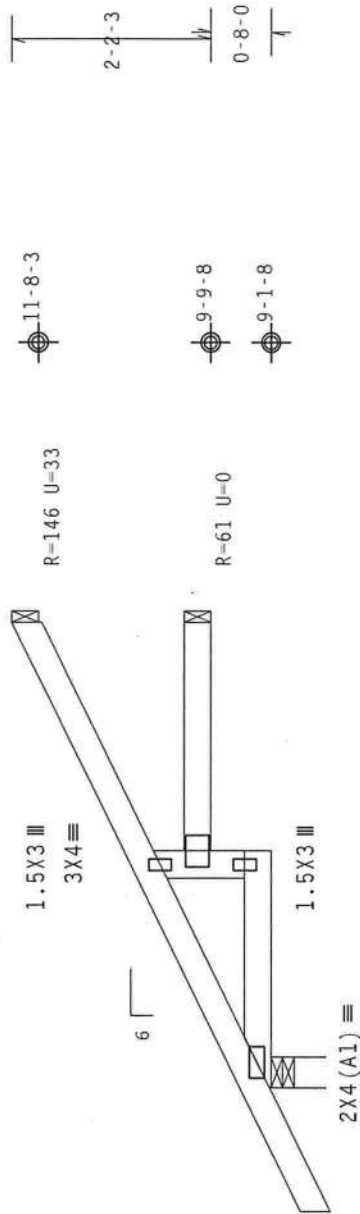


THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

111110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.



1-4-0

2-6-8 2-5-8  
5-0-0 Over 3 Supports

R-316 U-21 W-4"  
RL-73/-30

Design Crit: FBC2007Res/TPI-2002(3)  
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

Scale = .5"/Ft.

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

410

9.05.03.0319.16

FT/RT=10%(0%)/0(0)

Designe 0110:

p. Wave

17d

[illegible]

(10-208--Fill in later BRYAN ZECHER/ JASMINE MOD --, \*\* - C/J7T)

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

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

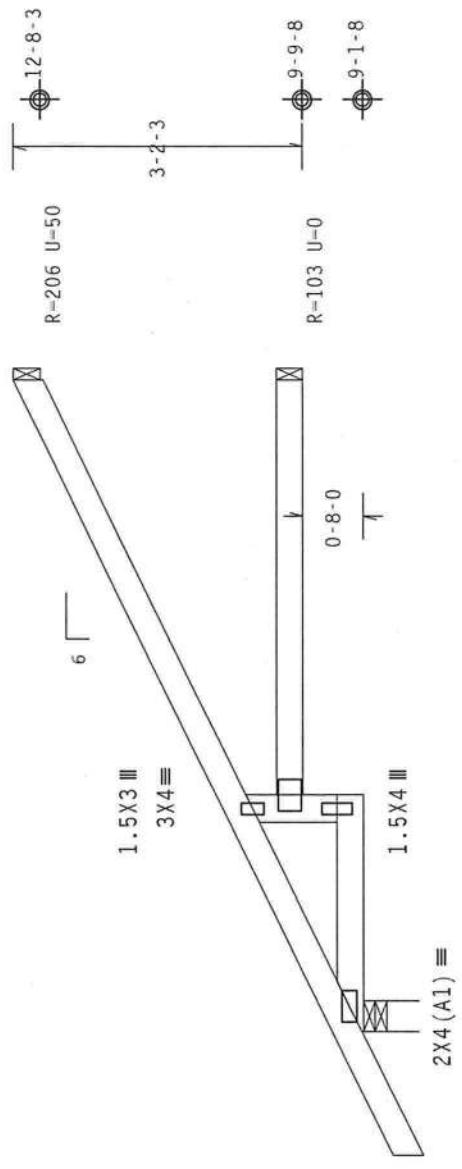
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind IC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

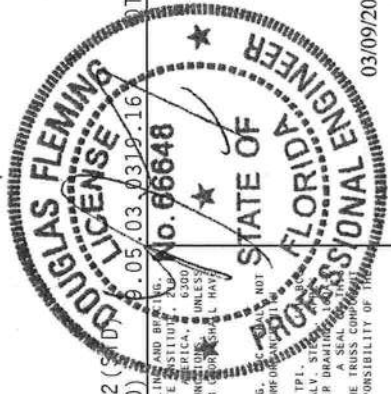


1-4-0

2-6-8 7-0-0 Over 3 Supports 4-5-8

R-394 U=22 W=4"  
RL=96/-35

Design Crit: FBC2007Res/TPI-2002 (S.D.)  
FT/RT=10%(0%)/0(0)



|               |          |              |                   |
|---------------|----------|--------------|-------------------|
| PLT TYP. Wave | TY:2     | FL/-4/-1/R/- | Scale = .5"/Ft.   |
| TC LL         | 20.0 PSF | REF          | R487-- 96887      |
| TC DL         | 10.0 PSF | DATE         | 03/09/11          |
| BC DL         | 10.0 PSF | DRW          | HCUSR487 11068006 |
| BC LL         | 0.0 PSF  | HC-ENG       | JB/DF *           |
| TOT.LD.       | 40.0 PSF | SEQN-        | 189047            |
| DUR.FAC.      | 1.25     |              |                   |
| SPACING       | 24.0"    | JREF-        | 1UA3487_Z01       |

ALPINE

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. IT IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER TO FURNISH THE TRUSS IN CONFORMANCE WITH THE DESIGN AND TO PROVIDE THE TRUSS WITH ALL NECESSARY BRACING AND SHORING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE BRACING OR SHORING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE DESIGN OR CONSTRUCTION. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE MATERIALS OR WORKMANSHIP. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE INSPECTION OR TESTING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE MAINTENANCE OR REPAIR. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE DEMOLITION OR DISPOSAL. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE STORAGE OR HANDLING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE TRANSPORTATION OR DELIVERY. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE UNLOADING OR OFFLOADING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE ERECTION OR ASSEMBLY. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE CONNECTIONS OR JOINTS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE FASTENERS OR BOLTS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE WELDING OR SOLDERING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE PAINTING OR FINISHING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE PROTECTION OR PRESERVATION. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE REPAIRS OR MODIFICATIONS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE DEMOLITION OR DISPOSAL. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE STORAGE OR HANDLING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE TRANSPORTATION OR DELIVERY. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE UNLOADING OR OFFLOADING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE ERECTION OR ASSEMBLY. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE CONNECTIONS OR JOINTS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE FASTENERS OR BOLTS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE WELDING OR SOLDERING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE PAINTING OR FINISHING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE PROTECTION OR PRESERVATION. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ANY FAILURE OF THE TRUSS DUE TO INADEQUATE REPAIRS OR MODIFICATIONS.

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(110-208--Fill in later BRYAN ZECHER/ JASMINE MOD -- , \*\* - EJ9T)

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

Roof overhang supports 2.00 psf soffit load.

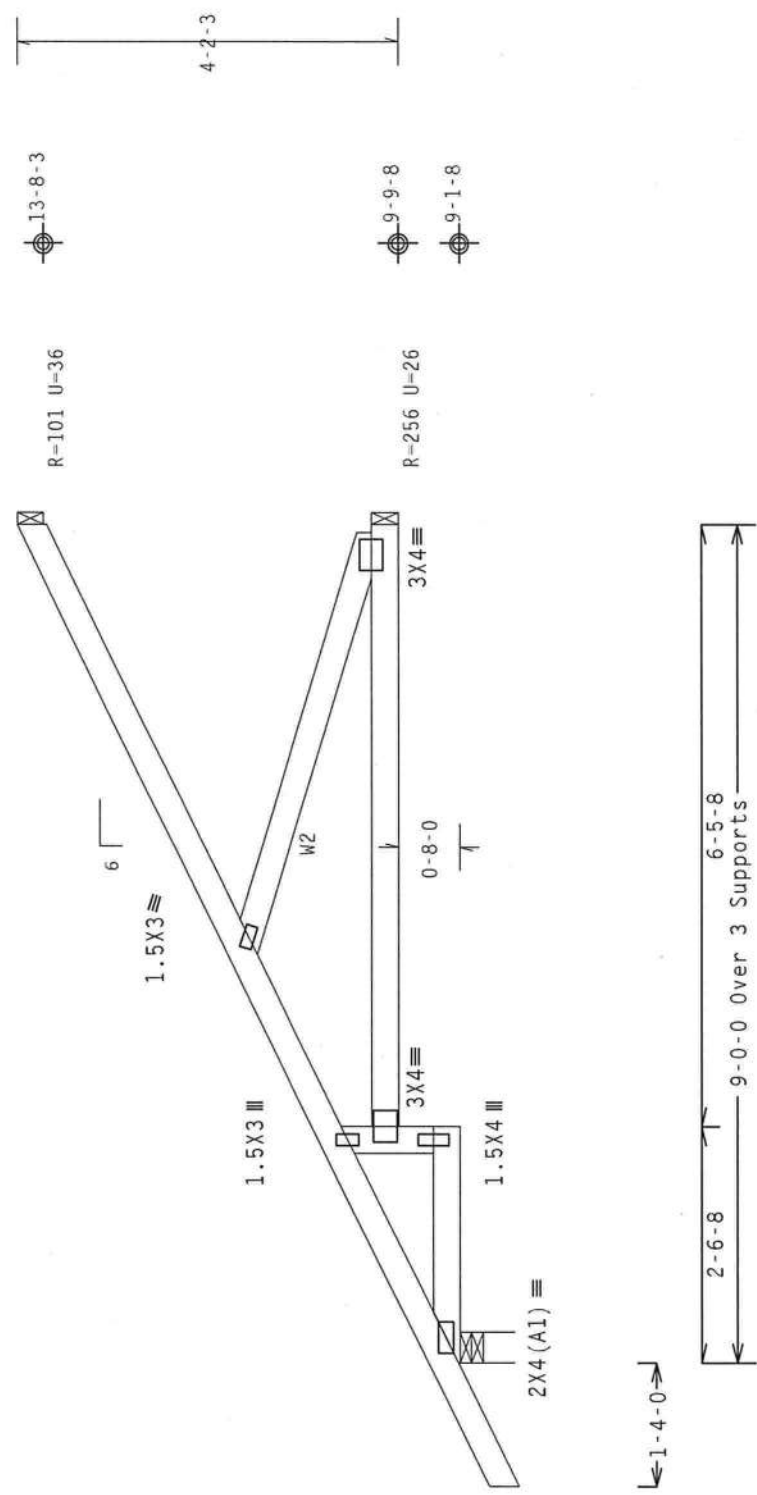
Bottom chord checked for 10.00 psf non-concurrent live load.

MMFRS loads based on trusses located at least 7.50 ft. from roof edge.

Wind reactions based on MMFRS pressures.

Deflection meets L/240 live and L/180 total load.

Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



R-474 U-23 W-4"  
RL-119/-40

Design Crit: FBC2007Res/TPI-2002 (S)  
FT/RT=10%(0%)/0(0%) QTY: 3 FL/-4/-/-R/- Scale =.5"/Ft.

PLT TYP. Wave

**ALPINE**

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

**BOULAS FLEMING**  
LICENSE  
No. 66648  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

03/09/2011

03/09/2011

|          |          |        |             |          |
|----------|----------|--------|-------------|----------|
| TC LL    | 20.0 PSF | REF    | R487--      | 96888    |
| TC DL    | 10.0 PSF | DATE   | 03/09/11    |          |
| BC DL    | 10.0 PSF | DRW    | HCUSR487    | 11068007 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF       | *        |
| TOT.LD.  | 40.0 PSF | SEQN-  | 189054      |          |
| DUR.FAC. | 1.25     |        |             |          |
| SPACING  | 24.0"    | JREF-  | 1UA3487_Z01 |          |

( 10-208--Fill in later BRYAN ZECHE/ JASMINE MOD -- , \*\* - EJ9 )

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 7-05, CLOSED bldg, not located  
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind  
BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

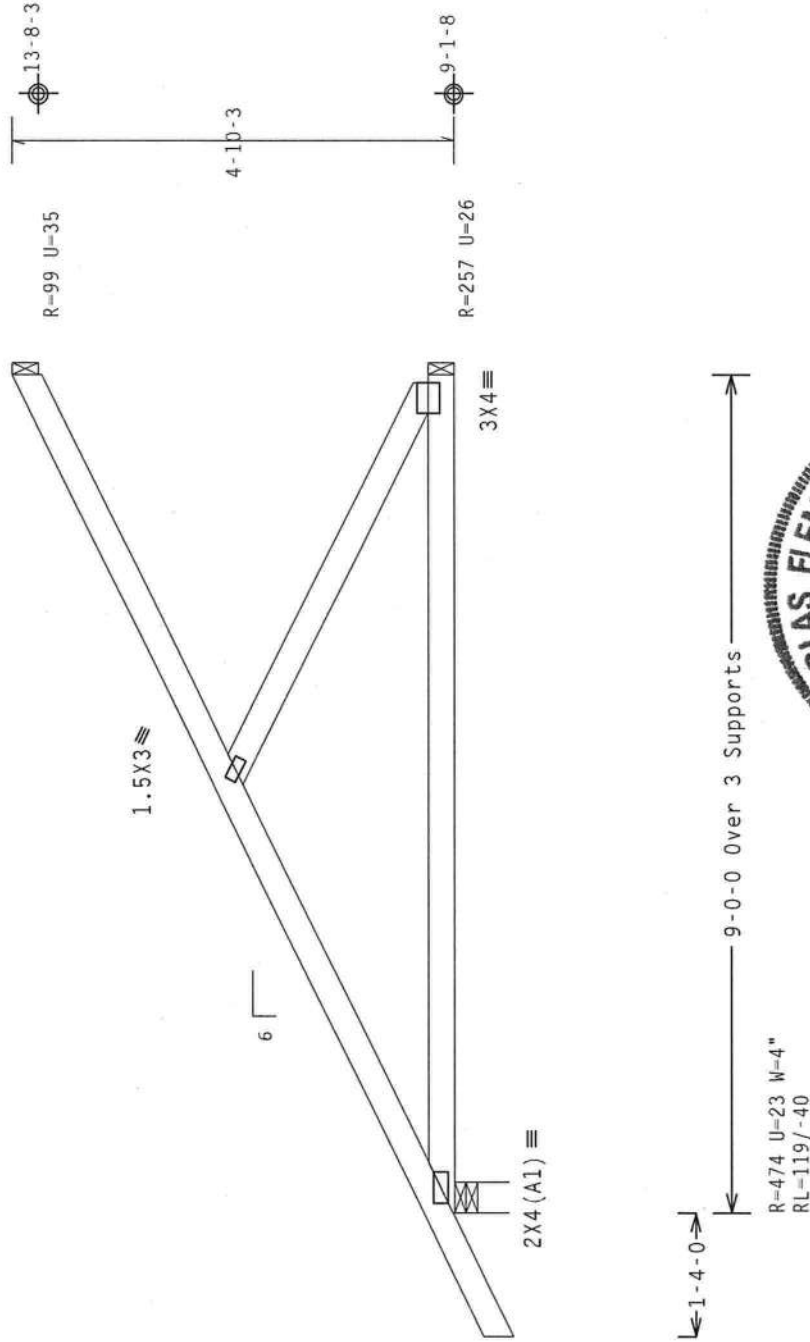
Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



R-474 U=23 W=4"  
RL=119/-40

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (S)  
FT/RT=10%(0%)/0(0%)

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

Scale = .5"/Ft.

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R487-- 96889      |
| TC DL    | 10.0 PSF | DATE   | 03/09/11          |
| BC DL    | 10.0 PSF | DRW    | HCUSR487 11068016 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF *           |
| TOT.LD.  | 40.0 PSF | SEQN-  | 153481            |
| DUR.FAC. | 1.25     |        |                   |
| SPACING  | 24.0"    | JREF-  | 1UA3487_Z01       |

DOUGLAS FLEMING  
LICENSE  
No. 66648  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
03/09/2011

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

( 10-208--F111 in later BRYAN ZECHER/ JASMINE MOD -- . \*\* - CJ7 )

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

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

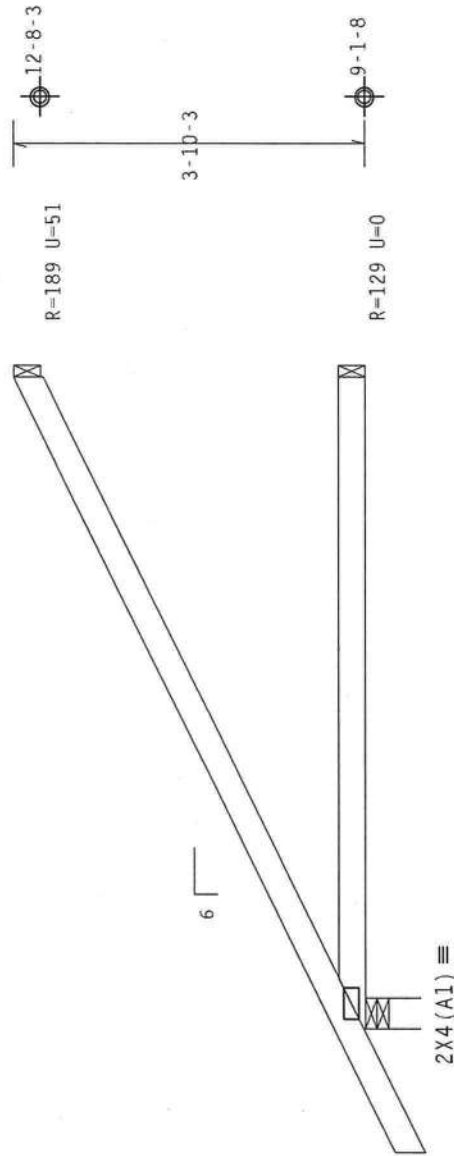
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf.  $I_w=1.00$  GCp1 (+/-)-0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

Provide { 2 } 16d common nails (0.162"x3.5"), toe nailed at Top chord.  
Provide { 2 } 16d common nails (0.162"x3.5"), toe nailed at Bot chord.



1-4-0

7-0-0 Over 3 Supports

R-394 U-22 W-4"  
RL-96/-35

Design Crit: FBC2007Res/TPI-2002 (S0)  
FT/RT=10%(0%)/0(0)

Scale = .5"/Ft.

PLT TYP. Wave



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



|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R487-- 96890      |
| TC DL    | 10.0 PSF | DATE   | 03/09/11          |
| BC DL    | 10.0 PSF | DRW    | HCUSR487 11068017 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/DF             |
| TOT.LD.  | 40.0 PSF | SEQN-  | 153484            |
| DUR.FAC. | 1.25     |        |                   |
| SPACING  | 24.0"    | JREF-  | 1UA3487_Z01       |

TY:2

FL/-4/-/-R/-

03/09/2011

03/09/2011

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

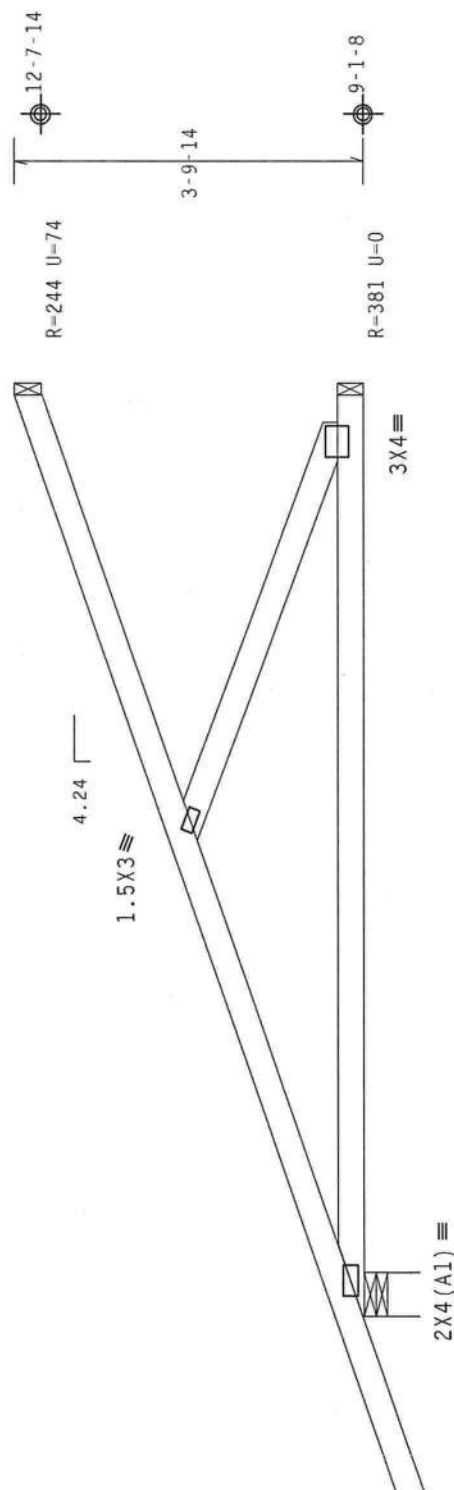
Hipjack supports 7-0-0 setback jacks with no webs.

Deflection meets L/240 live and L/180 total load.

111110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)=0.18

Wind reactions based on MWFRS pressures.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 3 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



1-10-10

9-10-13 Over 3 Supports -

R=439 U=51 W=5.657"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (S  
FT/RT=10%(0%)/0(0)

Scale = .5"/Ft.



**ALPINE**

**nTW Building Components Group Inc.**  
Haines City, FL 33844  
FL COA #0 2778

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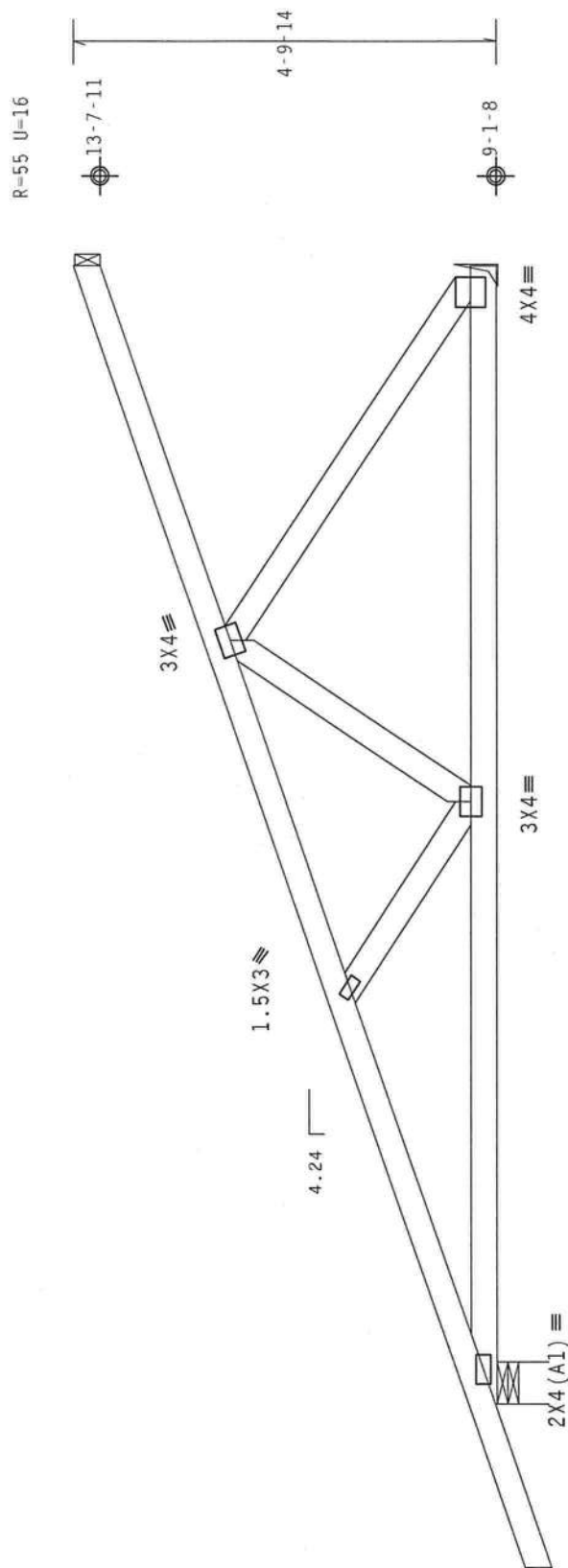
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, ITW BUILDING COMPONENTS GROUP, INC., SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TP1. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/K) ASTM A652 GR50 THIS DESIGN (N. K/H/SS) GALV. STEEL AND SHALL BE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHALL BE IN INCHES. A SEAL OR STAMP OF THE DESIGNER SHALL BE PLACED ON THE TRUSS COMPONENTS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX A3 OF TP1-2002 SEC.3. 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 ANS/TP1 SEC. 2.

03/09/2011

1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg. Located anywhere in roof. CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

Wind reactions based on MWFRS pressures.

Hipjack supports 9-0-0 setback jacks. Jacks up to 7' have no webs. Longer jacks supported to BC.



1-9-14

12-8-12 Over 3 Supports

R=633 U=68 W=5.657"

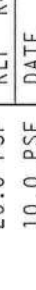
R-1007 U-78

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (S  
FT/RT=10%(0%) / 0(0)

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

Scale = .5"/Ft.



**ALPINE**

**nTW Building Components Group Inc.**  
Haines City, FL 33844  
El COA #01 278

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND UP ERECTION. REFER TO BCSD (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TP1 (TRUSS PLATE INSTITUTE), 230 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MTCA (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 RIDGE 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 CONFORMS WITH APPLICABLE PROVISIONS OF BOB (NATIONAL DESIGN SPEC. BY ATAPA) AND TP1. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/S) ASTM A652 GRADE 40/60 (IN. K/H/SS) GALV. STEEL. ATTACH PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING JOINTS. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP1-2002 SEC.3.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT BEING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.

03/09/2011

1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CL05ED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1 (+/-)=0.18

Wind reactions based on MWFRS pressures.

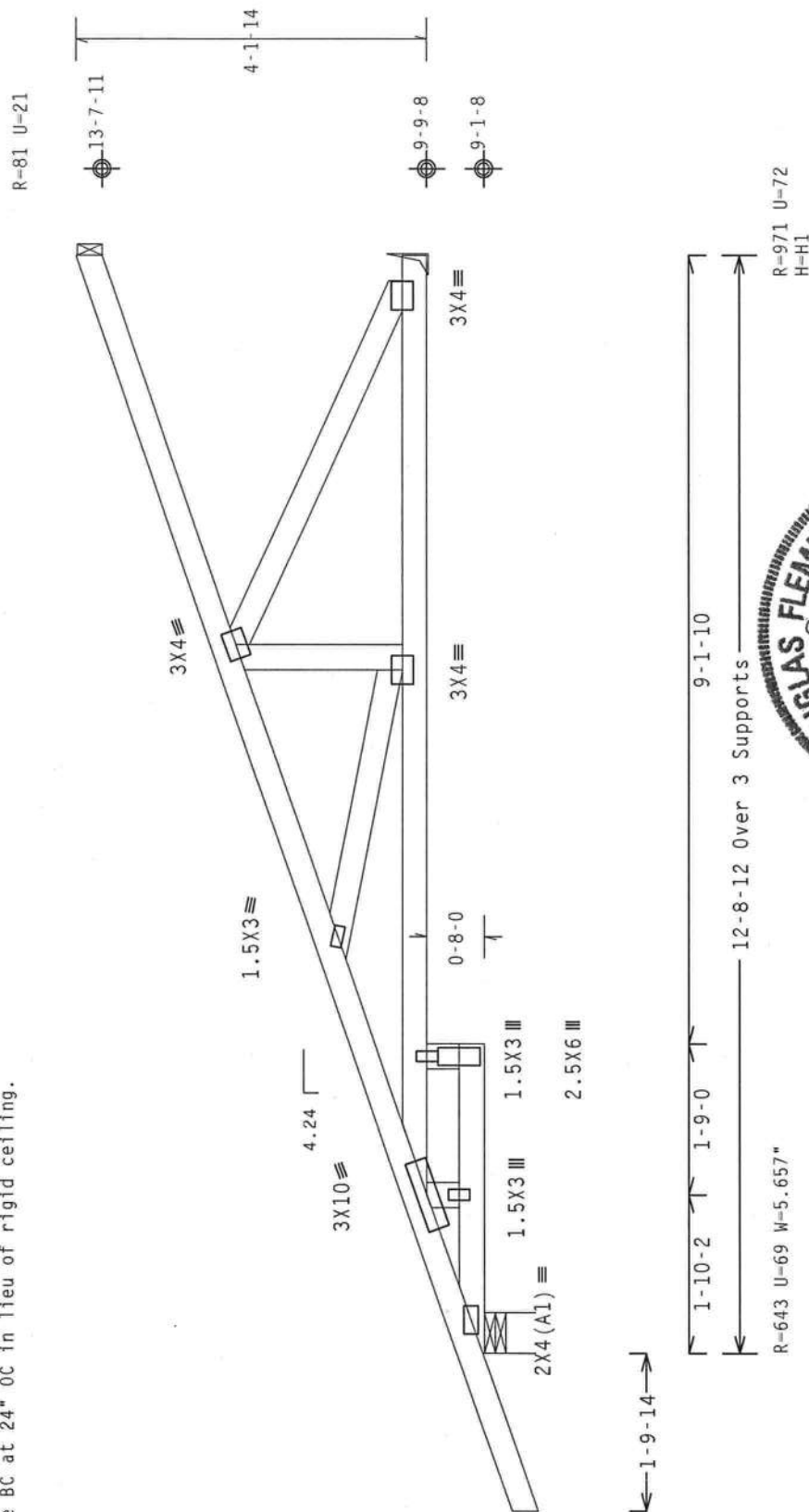
Deflection meets L/240 live and L/180 total load.

These hangers and support conditions used at bearings indicated.

(H1) = Simpson

(H2) - (J) Hanger not calculated

Laterally brace BC at 24" OC in lieu of rigid ceiling.



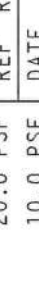
R-643 U-69 W-5.657"

R-971 U-72  
H-H1

PLT TYP: Wave

Design Crit: FBC2007Res/TPI-2002 (S...  
 $FT/RT=10\%(0\%)/0(0)$ 

Scale = .5"/Ft.



**ALPINE**

**ALPINE**

**Building Components Group Inc.**

Haines City, FL 33844

FL COA #0 278

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

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

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL OR STAMP DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS BUILDING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

03/09/2011

**No. 06848**

**STATE OF FLORIDA**

**PROFESSIONAL ENGINEER**

03/09/2011

# CLB WEB BRACE SUBSTITUTION

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

## NOTES:

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

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

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

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

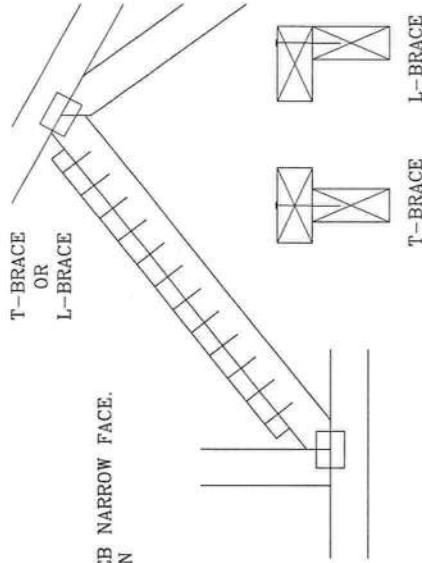
(\*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

T-BRACING

OR

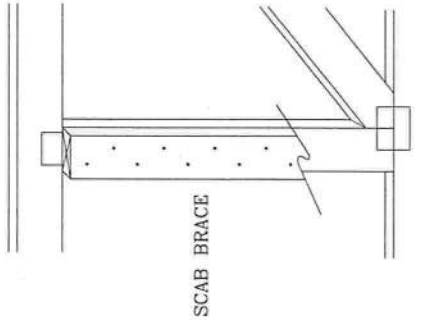
L-BRACING:

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



SCAB BRACING:

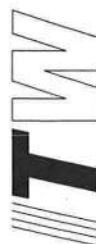
APPLY SCAB(S) TO WIDE FACE OF WEB. NO MORE THAN (1) SCAB PER FACE. ATTACH WITH 10d BOX OR GUN (0.128"x 3." MIN) NAILS. AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. BCSI (Building Component Safety Information, by TPI and WCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord bracing shall be installed in accordance with the BCSI. Lateral bracing shall be installed in accordance with the BCSI. See this job's general notes page for more information.

**\*\*IMPORTANT\*\*** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW Building Components Group Inc. (ITWBCG) 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. ITWBCG connector plates are made of 2018/1604 (W1/S/K) ASTM A572 Grade 50 (K1/S/K) steel. Apply plates to each face of truss, positioned as shown above and below the web. 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-BCC: www.itwbcg.com; TPI: www.tpinat.com; WCA: www.abcdindustry.com; ICC: www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045



|           |     |      |              |
|-----------|-----|------|--------------|
| TC LL     | PSF | REF  | CLB SUBST.   |
| TC DL     | PSF | DATE | 1/1/09       |
| BC DL     | PSF | DRWG | BRCLESUB0109 |
| BC LL     | PSF |      |              |
| TOT. LD.  | PSF |      |              |
| DUR. FAC. |     |      |              |
| SPACING   |     |      |              |

03/09/2011

# NAIL SPACING DETAIL

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

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCE THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

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)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

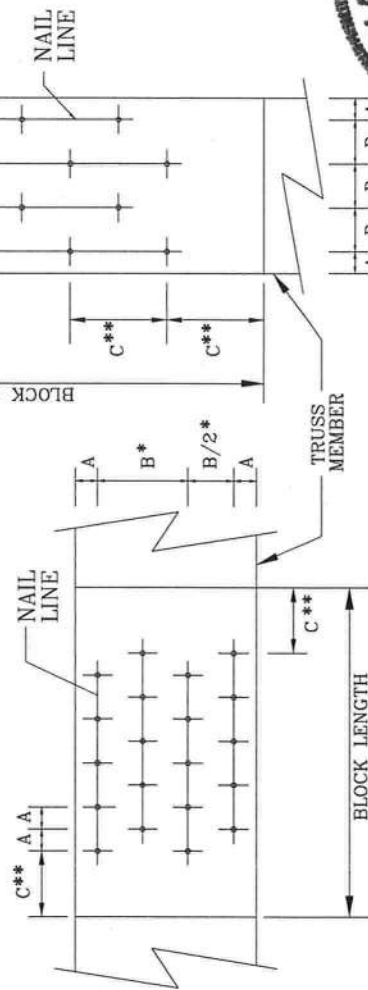
D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

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%

DIRECTION  
OF LOAD AND  
NAIL ROWS



LOAD APPLIED PERPENDICULAR TO GRAIN

LOAD APPLIED PARALLEL TO GRAIN

## MINIMUM NAIL SPACING DISTANCES

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



Building Components Group Inc.

Earth City, MO 63045

\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCSI (Building Component Safety Information, by TPI and WTCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, splicing shall have properly attached structural panels and bottom chord shall have a properly attached ridge ceiling. Section shown is for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3 & B7. See this job's general notes page for more information.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with TPI or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 2016/1624 (4130/4130) ASTM A572 Grade 50. All drawings shall be checked and approved by the design engineer and professional engineer 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 - BCG: www.itwbcg.com; TPI: www.tpinet.com; WTCA: www.abcdindustry.com; ICC: www.iccsafe.org



03/09/2011

REF NAIL SPACE

DATE 1/1/09

DRWG CNAAILSP0109

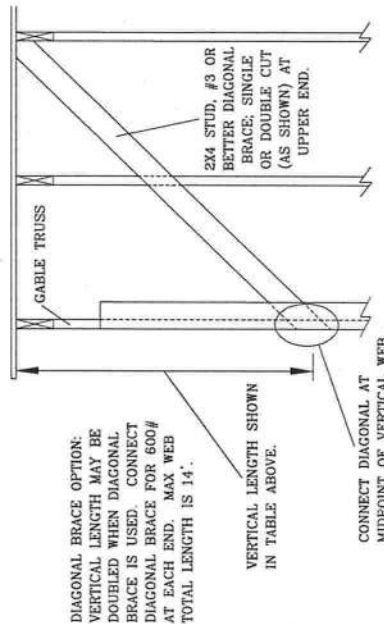
# ASCE 7-05: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

ASCE 7-05: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

MAX GABLE VERTICAL LENGTH

| 2X4<br>GABLE VERTICAL<br>SPACING | BRACE<br>GRADE | NO<br>BRACES | (1) 1X4 "L" BRACE • |         | (2) 2X4 "L" BRACE • |         | (1) 2X6 "L" BRACE • |         | (2) 2X6 "L" BRACE • |        |
|----------------------------------|----------------|--------------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|--------|
|                                  |                |              | GROUP A             | GROUP B | GROUP A             | GROUP B | GROUP A             | GROUP B | GROUP A             |        |
| 24" O.C.                         | SPF            | 3' 10"       | 6' 8"               | 6' 10"  | 7' 11"              | 8' 1"   | 9' 5"               | 9' 8"   | 12' 5"              | 14' 0" |
|                                  | HF             | 3' 9"        | 6' 0"               | 6' 0"   | 7' 11"              | 7' 11"  | 9' 5"               | 9' 5"   | 12' 4"              | 14' 0" |
|                                  | STANDARD       | 3' 9"        | 5' 2"               | 5' 2"   | 6' 9"               | 6' 9"   | 9' 1"               | 9' 1"   | 10' 7"              | 14' 0" |
|                                  | SP             | 4' 3"        | 6' 8"               | 7' 2"   | 7' 11"              | 8' 6"   | 9' 5"               | 10' 2"  | 12' 5"              | 14' 0" |
| 24" O.C.                         | DFL            | 4' 2"        | 6' 8"               | 7' 2"   | 7' 11"              | 8' 6"   | 9' 5"               | 10' 2"  | 12' 5"              | 14' 0" |
|                                  | STANDARD       | 4' 0"        | 6' 2"               | 6' 2"   | 7' 11"              | 8' 1"   | 9' 5"               | 9' 11"  | 12' 5"              | 14' 0" |
|                                  | SPF            | 3' 10"       | 6' 1"               | 6' 1"   | 7' 11"              | 8' 1"   | 9' 5"               | 9' 11"  | 12' 5"              | 14' 0" |
|                                  | HF             | 4' 5"        | 7' 8"               | 7' 10"  | 9' 1"               | 9' 4"   | 10' 10"             | 11' 1"  | 14' 0"              | 14' 0" |
| 16" O.C.                         | STANDARD       | 4' 4"        | 7' 4"               | 7' 4"   | 9' 1"               | 9' 1"   | 10' 10"             | 10' 10" | 14' 0"              | 14' 0" |
|                                  | SPF            | 4' 4"        | 7' 4"               | 7' 4"   | 9' 1"               | 9' 1"   | 10' 10"             | 10' 10" | 14' 0"              | 14' 0" |
|                                  | HF             | 4' 4"        | 7' 4"               | 7' 4"   | 9' 1"               | 9' 1"   | 10' 10"             | 10' 10" | 14' 0"              | 14' 0" |
|                                  | STANDARD       | 4' 4"        | 6' 4"               | 6' 4"   | 8' 4"               | 8' 4"   | 9' 10"              | 10' 10" | 12' 11"             | 14' 0" |
| 12" O.C.                         | SPF            | 4' 10"       | 7' 8"               | 8' 3"   | 9' 1"               | 9' 9"   | 10' 10"             | 11' 8"  | 14' 0"              | 14' 0" |
|                                  | HF             | 4' 9"        | 7' 8"               | 8' 3"   | 9' 1"               | 9' 9"   | 10' 10"             | 11' 8"  | 14' 0"              | 14' 0" |
|                                  | STANDARD       | 4' 6"        | 7' 7"               | 7' 7"   | 9' 1"               | 9' 6"   | 10' 10"             | 11' 4"  | 14' 0"              | 14' 0" |
|                                  | SP             | 4' 6"        | 7' 6"               | 7' 6"   | 9' 1"               | 9' 6"   | 10' 10"             | 11' 4"  | 14' 0"              | 14' 0" |
| 12" O.C.                         | DFL            | 4' 5"        | 6' 5"               | 6' 5"   | 8' 6"               | 8' 6"   | 9' 10"              | 10' 10" | 12' 3"              | 14' 0" |
|                                  | STANDARD       | 4' 11"       | 8' 5"               | 8' 5"   | 10' 0"              | 10' 3"  | 11' 11"             | 12' 3"  | 14' 0"              | 14' 0" |
|                                  | SPF            | 4' 9"        | 8' 5"               | 8' 5"   | 10' 0"              | 10' 3"  | 11' 11"             | 12' 3"  | 14' 0"              | 14' 0" |
|                                  | HF             | 4' 9"        | 8' 5"               | 8' 5"   | 10' 0"              | 10' 3"  | 11' 11"             | 12' 3"  | 14' 0"              | 14' 0" |
| 12" O.C.                         | STANDARD       | 4' 9"        | 7' 3"               | 7' 3"   | 9' 7"               | 9' 7"   | 11' 11"             | 11' 11" | 14' 0"              | 14' 0" |
|                                  | SPF            | 5' 4"        | 8' 5"               | 9' 1"   | 10' 0"              | 10' 9"  | 11' 11"             | 12' 10" | 14' 0"              | 14' 0" |
|                                  | HF             | 5' 3"        | 8' 5"               | 9' 1"   | 10' 0"              | 10' 9"  | 11' 11"             | 12' 10" | 14' 0"              | 14' 0" |
|                                  | STANDARD       | 5' 0"        | 8' 5"               | 8' 5"   | 10' 0"              | 10' 6"  | 11' 11"             | 12' 6"  | 14' 0"              | 14' 0" |
| 12" O.C.                         | SP             | 5' 0"        | 8' 5"               | 8' 5"   | 10' 0"              | 10' 6"  | 11' 11"             | 12' 6"  | 14' 0"              | 14' 0" |
|                                  | DFL            | 4' 11"       | 7' 5"               | 7' 5"   | 9' 10"              | 9' 10"  | 11' 11"             | 12' 3"  | 14' 0"              | 14' 0" |
|                                  | STANDARD       | 4' 11"       | 7' 5"               | 7' 5"   | 9' 10"              | 9' 10"  | 11' 11"             | 12' 3"  | 14' 0"              | 14' 0" |
|                                  | SPF            | 4' 11"       | 7' 5"               | 7' 5"   | 9' 10"              | 9' 10"  | 11' 11"             | 12' 3"  | 14' 0"              | 14' 0" |

SYMM ABOUT

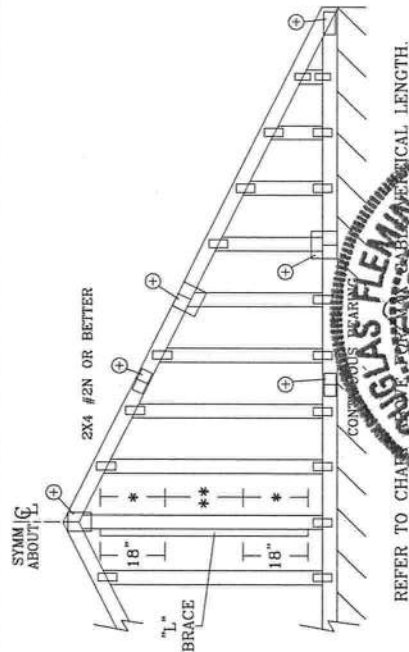


DIAGONAL BRACE OPTION:  
VERTICAL LENGTH MAY BE  
DOUBLED WHEN DIAGONAL  
BRACE IS USED. CONNECT  
DIAGONAL BRACE FOR 600#  
AT EACH END. MAX WEB  
TOTAL LENGTH IS 14'.

VERTICAL LENGTH SHOWN  
IN TABLE ABOVE.

CONNECT DIAGONAL AT  
MID-POINT OF VERTICAL  
WEB.

2X4 #2N OR BETTER



REFER TO CHART FOR  
VERTICAL LENGTH.

\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET

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\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from design, bracing of trusses. ITWBCG connector plates are made of 50/16/16GA (W/H/S/K) ASTM A653-06 (G90) (K/H/S) galv steel. Apply plates to each face of truss, positioned as shown above and attached to the truss component design shown. The suitability and use of this component for any building responsibility of the Building Designer per ANST/TPI 1 Sec. 2.  
ITW-BCC: www.itwbcg.com; TPI: www.tpinet.com; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045

03/09/2011

BRACING GROUP SPECIES AND GRADES:

GROUP A:

|                                     |                             |
|-------------------------------------|-----------------------------|
| SPRUCE-PINE-FIR<br>#1 / #2 STANDARD | HEM-FIR<br>#2 / #3 STANDARD |
| DOUGLAS FIR-LARCH<br>#3 STUD        | SOUTHERN PINE<br>#3 STUD    |
|                                     | STANDARD                    |

GROUP B:

|                        |                         |
|------------------------|-------------------------|
| HEM-FIR<br>#1 & BTR #1 | DOUGLAS FIR-LARCH<br>#1 |
| SOUTHERN PINE<br>#1    |                         |
|                        | #2                      |

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

FOR (1) "L" BRACE: SPACE NAILS AT 2' 0" O.C.

IN 18" END ZONES AND 4' 0" O.C. BETWEEN ZONES.

FOR (2) "L" BRACES: SPACE NAILS AT 3' 0" O.C.

IN 18" END ZONES AND 6' 0" O.C. BETWEEN ZONES.

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

GABLE VERTICAL PLATE SIZES

| VERTICAL LENGTH                          | NO SPLICE  |
|------------------------------------------|------------|
| LESS THAN 4' 0"                          | 1X4 OR 2X3 |
| GREATER THAN 4' 0", BUT LESS THAN 11' 6" | 2.5X4      |
| GREATER THAN 11' 6"                      | 3X4        |

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

REF ASCE7-05-GABI015

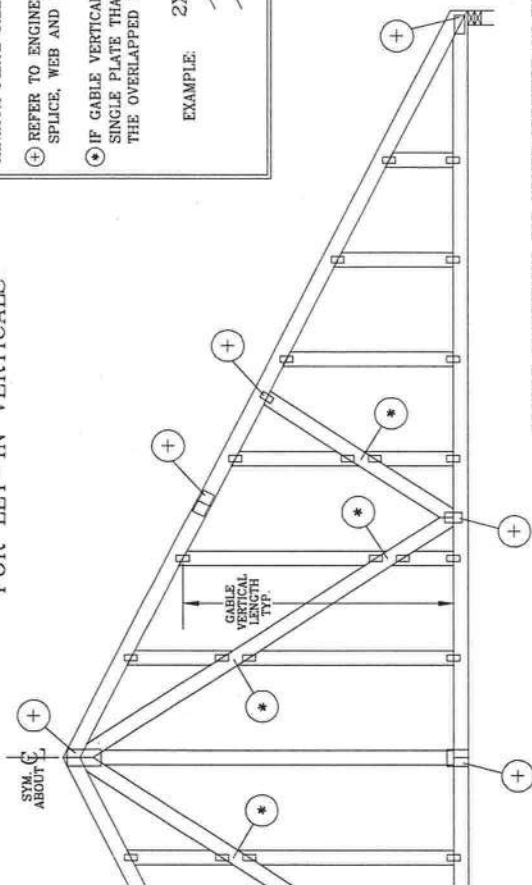
DATE 1/1/09

DRWG A11015050109

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

# GABLE DETAIL FOR LET-IN VERTICALS

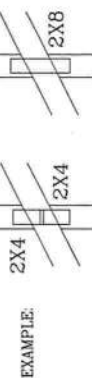


## GABLE TRUSS PLATE SIZES

REFER TO APPROPRIATE ITW GABLE DETAIL FOR MINIMUM PLATE SIZES FOR VERTICAL STUDS.

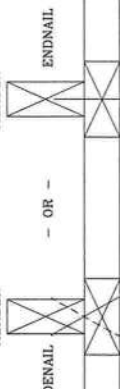
⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

⊙ IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE THAT COVERS THE TOTAL AREA OF THE OVERLAPPED PLATES TO SPAN THE WEB.



## "T" REINFORCEMENT ATTACHMENT DETAIL

"T" REINFORCING MEMBER



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" INCREASE BY LENGTH (BASED ON APPROPRIATE ITW GABLE DETAIL).

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

WEB LENGTH INCREASE W/ "T" BRACE

| WIND SPEED AND MRH | "T" REINF. MBR. SIZE | "T" INCREASE |
|--------------------|----------------------|--------------|
| 140 MPH            | 2x4                  | 10 %         |
| 15 FT              | 2x6                  | 50 %         |
| 140 MPH            | 2x4                  | 10 %         |
| 30 FT              | 2x6                  | 50 %         |
| 130 MPH            | 2x4                  | 10 %         |
| 15 FT              | 2x6                  | 50 %         |
| 130 MPH            | 2x4                  | 10 %         |
| 30 FT              | 2x6                  | 50 %         |
| 120 MPH            | 2x4                  | 10 %         |
| 15 FT              | 2x6                  | 50 %         |
| 120 MPH            | 2x4                  | 10 %         |
| 30 FT              | 2x6                  | 50 %         |
| 110 MPH            | 2x4                  | 10 %         |
| 15 FT              | 2x6                  | 40 %         |
| 110 MPH            | 2x4                  | 10 %         |
| 30 FT              | 2x6                  | 50 %         |
| 100 MPH            | 2x4                  | 20 %         |
| 15 FT              | 2x6                  | 30 %         |
| 100 MPH            | 2x4                  | 10 %         |
| 30 FT              | 2x6                  | 40 %         |
| 90 MPH             | 2x4                  | 20 %         |
| 15 FT              | 2x6                  | 20 %         |
| 90 MPH             | 2x4                  | 20 %         |
| 30 FT              | 2x6                  | 30 %         |

EXAMPLE:

ASCE WIND SPEED = 100 MPH  
MEAN ROOF HEIGHT = 30 FT, Kzt = 1.00  
GABLE VERTICAL = 24" O.C. SP #3  
"T" REINFORCING MEMBER SIZE = 2X4  
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10  
(1) 2X4 "L" BRACE LENGTH = 6' 7"  
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH  
1.10 x 6' 7" = 7' 3"

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH

END DRIVEN NAILS:

10d COMMON (0.148" x 3" MIN) NAILS AT 4" O.C. PLUS  
(4) NAILS IN TOP AND BOTTOM CHORD.

TOENAIL NAILS:

10d COMMON (0.148" x 3" MIN) TOENAILS AT 4" O.C. PLUS  
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ITW GABLE DETAIL FOR ASCE WIND LOAD.

ASCE 7-98 GABLE DETAIL DRAWINGS

A13015980109, A12015980109, A11015980109, A10015980109,  
A13030980109, A12030980109, A11030980109, A10030980109

ASCE 7-02 GABLE DETAIL DRAWINGS

A13015020109, A12015020109, A11015020109, A10015020109,  
A13030020109, A12030020109, A11030020109, A10030020109

ASCE 7-05 GABLE DETAIL DRAWINGS

A13015050109, A12015050109, A11015050109, A10015050109,  
A13030050109, A12030050109, A11030050109, A10030050109

SEE APPROPRIATE ITW GABLE DETAIL FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. BCSI (Building Component Safety Information, by TPI and WCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, the design shall have property attached structural panels and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3 & B7. See this job's general notes page for more information.

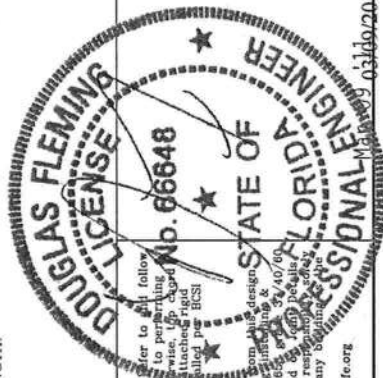
\*\*IMPORTANT\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing and bracing of trusses. ITWBCG connector plates are made of 2018/18GA (W/H/S/K) ASTM A653 (K/W/H/S) galv. steel. Apply plates to each face of truss, positioned as shown above and below the truss. A note on this drawing or design shall not be construed as a modification of the design. The responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.

ITW-BCC: www.itwbcg.com; TPI: www.tpinat.com; WCA: www.sbcindustry.com; ICC: www.iccsafe.org



Earth City, MO 63045



REF LET-IN VERT

DATE 1/1/09

DRWG GBLLETO109

MAX TOT. LD. 60 PSF

DUR. FAC. ANY

MAX SPACING 24.0"