DATE 12/28/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000025344

APPLICANT BRYAN ZECHER PHONE 386.752.8653

ADDRESS POB 815 LAKE CITY FL 32056

OWNER MICHAEL & NICOLE COVERT PHONE 305.479.9097

ADDRESS 7734 SW CR 240 LAKE CITY FL 32024

CONTRACTOR BRYAN ZECHER PHONE 386.752.8653

LOCATION OF PROPERTY 47-S TO C-240,TURN R, GO 1 1/2 MILES TO PROPERTY ON THE L.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 284150.00

HEATED FLOOR AREA 5683.00 TOTAL AREA 7236.00 HEIGHT 22.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 7'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

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

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

PARCEL ID 09-5S-16-03498-102 SUBDIVISION OAKFIELD ACRES

LOT 2 BLOCK PHASE 1 UNIT TOTAL ACRES 6.00

		CBC054575		
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor
EXISTING	06-1004	BLK	JTH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: 1 FOOT ABOVE ROAD.

Check # or Cash 24932

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by

Foundation _____ date/app. by

Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by

Slab _____ date/app. by

Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by

Rough-in plumbing above slab and below wood floor _____ date/app. by

Electrical rough-in _____ date/app. by

Heat & Air Duct _____ date/app. by

Peri. beam (Lintel) _____ date/app. by

Permanent power _____ date/app. by

C.O. Final _____ date/app. by

Culvert _____ date/app. by

M/H tie downs, blocking, electricity and plumbing _____ date/app. by

Pool _____ date/app. by

Reconnection _____ date/app. by

Pump pole _____ date/app. by

Utility Pole _____ date/app. by

M/H Pole _____ date/app. by

Travel Trailer _____ date/app. by

Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 1425.00 CERTIFICATION FEE $ 36.18 SURCHARGE FEE $ 36.18

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 1572.36

INSPECTORS OFFICE CH CLERKS OFFICE CH

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0612-35 Date Received 12/11/06 By [illegible] Permit # 25344

Application Approved by - Zoning Official BLK Date 14.12.06 Plans Examiner OKJTH Date 12-15-06

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

Comments SITE PLAN ON PAGE A-6 OF PLANS

24932 [illegible] NOC 867-4994

Applicants Name Bryan Zecher Phone 752-8653

Address P.O. Box 815, Lake City, FL 32056

Owners Name Michael and Nicole Covert Phone

911 Address 7734 SW CR 240, Lake City, FL 32024

Contractors Name Bryan Zecher Construction, Inc. Phone 752-8653

Address P.O. Box 815, Lake City, FL 32056

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address Teena Ruffo / Mark Disosway

Mortgage Lenders Name & Address Bank of America 164 NW Madison St. Lake City, FL 32055

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

Property ID Number 09-5S-16-03498-102 Estimated Cost of Construction $648,000.00

Subdivision Name – OAKFIELD ACRES Lot 2 Block Unit Phase 1

Driving Directions From Hwy 90, take Hwy 41 south and bear right onto Hwy 47. Head south to CR 240, turn right and job site is about 1½ miles on left

Type of Construction Frame SFR New CONSTRUCTION Number of Existing Dwellings on Property 0 (one has been demolished)

Total Acreage 6 Lot Size 15 ac Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive)

Actual Distance of Structure from Property Lines - Front 97' Side 215' Side 100' Rear 300'

Total Building Height 22 Number of Stories 1 Heated Floor Area 5683 Roof Pitch 7/12

TOTAL 7236

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

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

Owner Builder or Agent (Including Contractor)

Contractor Signature [signature]

Contractors License Number CBC054575

Competency Card Number

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

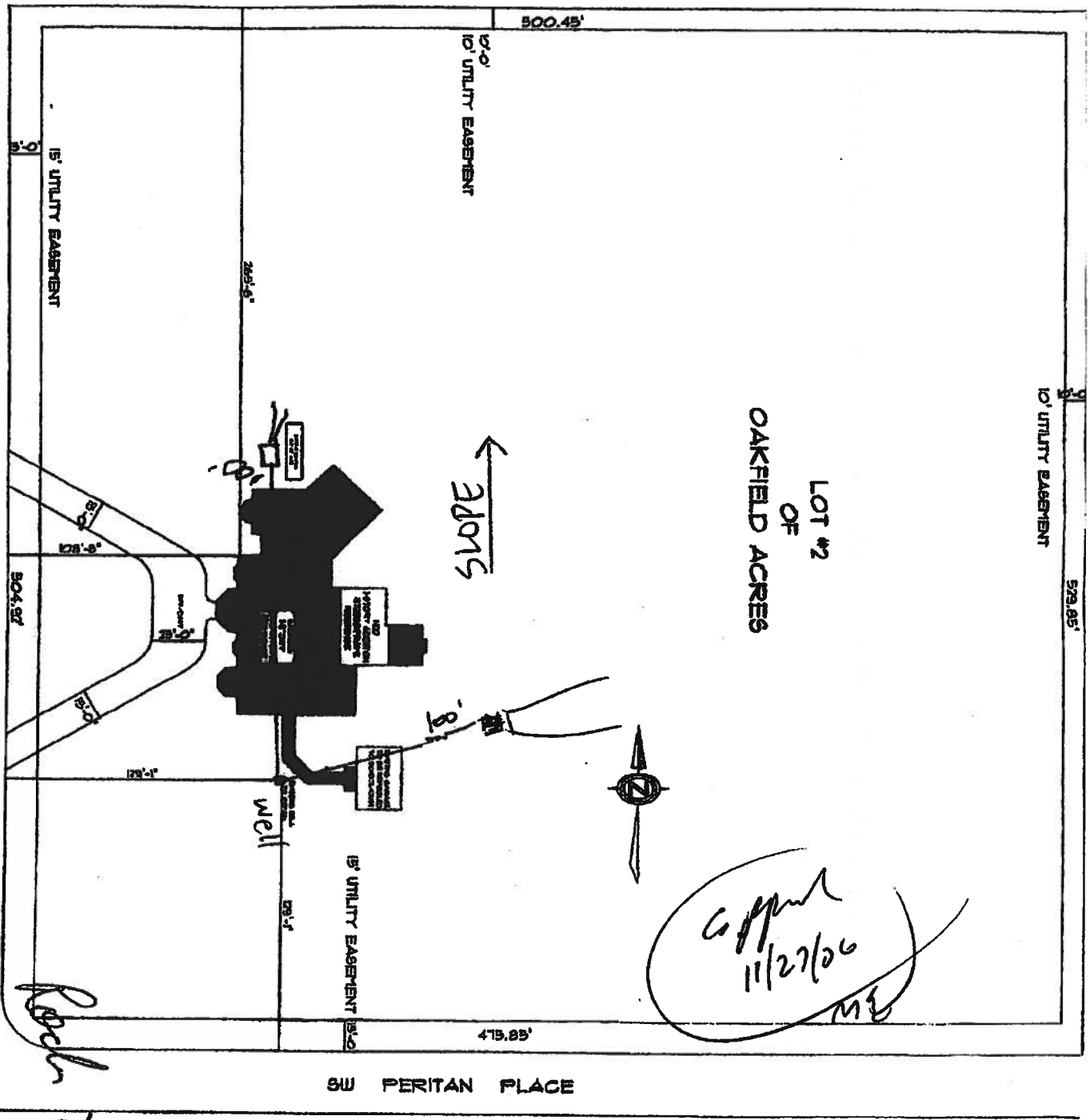
Sworn to (or affirmed) and subscribed before me this 11th day of December 20 06.

Personally known ✓ or Produced Identification

Notary Signature [signature]

REBECCA DUGAN
MY COMMISSION #DD452939
EXPIRES: JUL 20, 2009
Bonded through 1st State Insurance

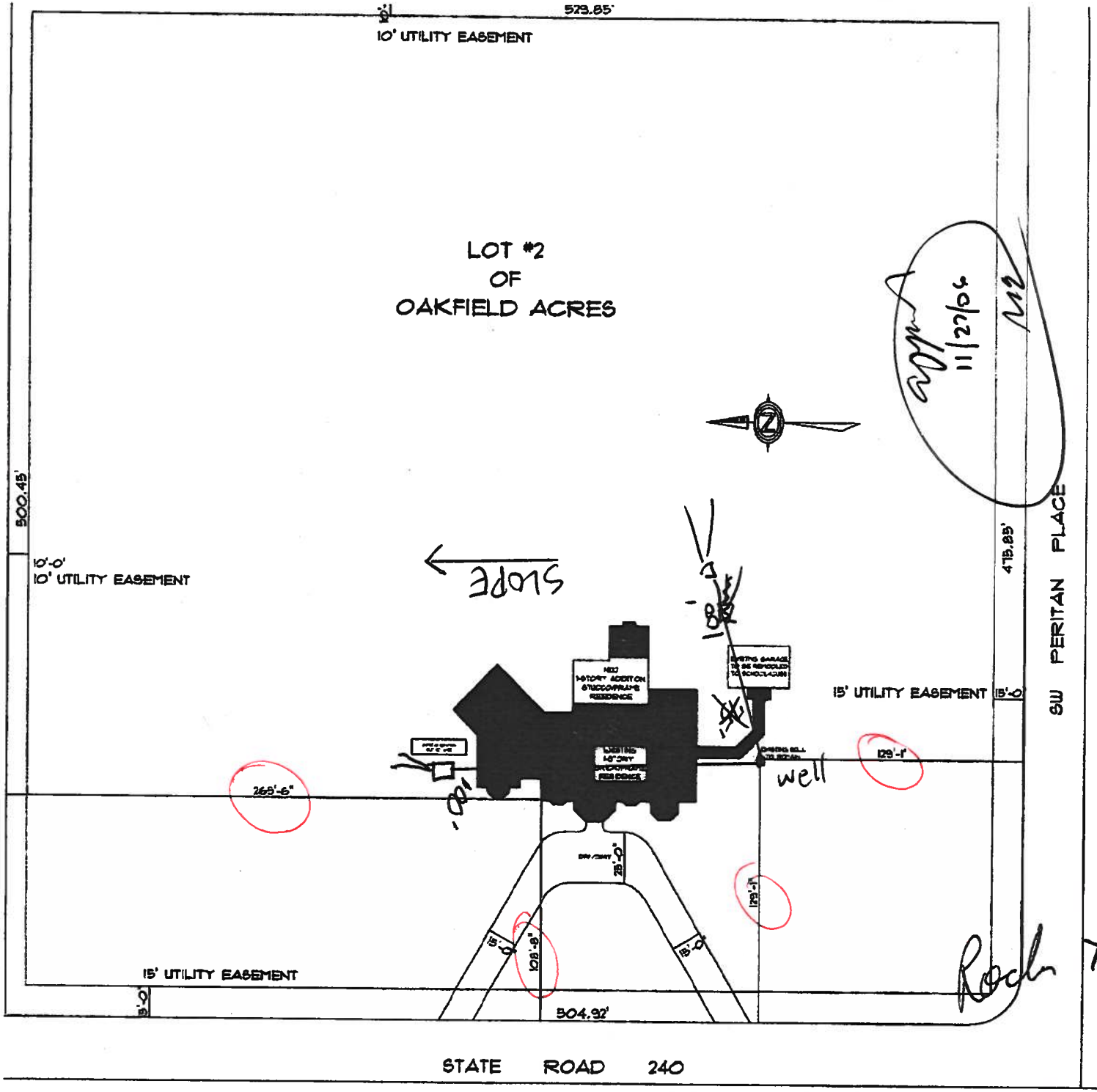
Covert Ok-1004



• SITE PLAN •

Approved 11/27/06 MB

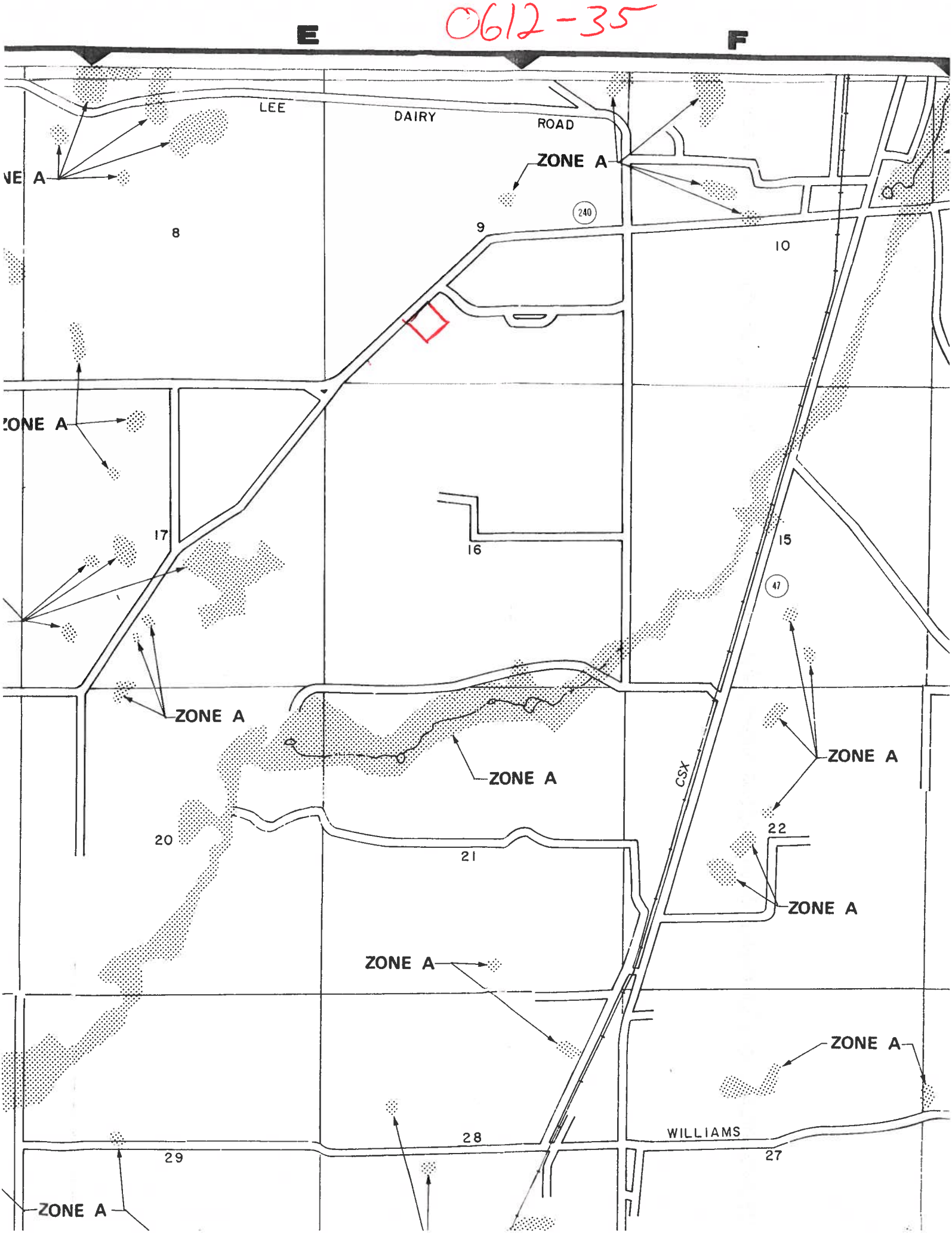
RECEIVED
NOV 13 2006



• SITE PLAN •

SCALE : 1" = 30'-0"

NOV 13 2006


0612-35
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WILLIAMS

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09-5S-16-03498-102
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LOT 2 OAKFIELD ACRES PHASE I.      COVERT MICHAEL J & NICOLE      09-5S-16-03498-102                Columbia County  2006 R
ORB 713-602, 782-1691,             7734 SW CR 240                                                    CARD 001 of 001
791-192, 939-1878, 953-1145.       LAKE CITY, FL 32024                    PRINTED 10/03/2006 15:48     BY  JEFF
WD 1069-1310.                                                             APPR     2/18/2003 HC
-------------------------------------------------------------------------------------------------------------------------------------------
BUSE 000100 SINGLE FAM       AE? Y       1855 HTD AREA    132.770 INDEX     9516.03 OAKFIELD          PUSE  000100 SINGLE FAMILY
MOD   1 SFR          BATH      2.00       2736 EFF AREA     59.747 E-RATE    100.000 INDX   STR   9- 5S- 16
EXW  19 COMMON BRK   FIXT               163468 RCN                          1994 AYB    MKT AREA 01              145,486 BLDG
   %    0000000000   BDRM         3      89.00 %GOOD     145,486 B BLDG VAL     1994 EYB    (PUD1                      4,430 XFOB
RSTR 03 GABLE/HIP    RMS              ----------------------------------------------     AC       6.030            24,750 LAND
RCVR 03 COMP SHNGL   UNTS             ³FIELD CK:                          HX AppYr 2003 ³    NTCD                          0 AG
   %    N/A          C-W%             ³LOC:  7734 COUNTY RD 240 SW                      ³    APPR CD                       0 MKAG
INTW 05 DRYWALL      HGHT             ³                                                 ³    CNDO                        174,666 JUST
   %    N/A          PMTR             ³ +--------31------+                              ³    SUBD                          0 CLAS
FLOR 14 CARPET       STYS        1.0  ³ IUDG1994         I                              ³    BLK
 10% 08 SHT VINYL    ECON             ³ 2                 2                              ³    LOT                           0 SOHD
HTTP 04 AIR DUCTED   FUNC             ³ 0                 0                              ³    MAP# 48                       0 ASSD
A/C  03 CENTRAL      SPCD             ³ I                 I                              ³                                  0 EXPT
QUAL 04 ABOVE AVG.   DEPR 52          ³ +--------31------+                              ³    TXDT    003                   0 COTXBL
FNDN    N/A          N/A              ³                   +------25-----+               ³
SIZE 04 IRREGULAR    N/A              ³                   1FSP1994      1               ³ -------------- BLDG TRAVERSE -------------
CEIL    N/A          N/A              ³                   2             2               ³ BAS1994=W28 S31 E5 S2 E7 N2 E6FOP1994=E19
ARCH    N/A          N/A              ³                   +------25-----+               ³ N6 W19 S6$ N6 E19 S6E5 S2 E6 N2 E5 FGR1994
FRME 01 NONE         N/A              ³                   1             I               ³ =E20  N31 W20 S31$ N43 FSP1994=N12  W25 S1
KTCH    N/A          N/A              ³                   2             I               ³ 2E25$ W25 S12$ PTR2004= N30 UDG1994=N20 W3
WNDO    N/A          N/A              ³  +-------28------+             +-----20----+   ³ 1 S20 E31$  S30$.
CLAS    N/A          N/A              ³  IBAS1994                      IFGR1994  I     ³
OCC     N/A          N/A              ³  I                             I         I     ³
COND    N/A             %             ³  3                             3         3     ³----------------- PERMITS -----------------
SUB   A-AREA  %  E-AREA   SUB VALUE   ³  1                             1         1     ³  NUMBER     DESC          AMT    ISSUED
BAS94   1855 100   1855       98640   ³  I                             I         I     ³ 9617     M H             125  4/19/1995
FOP94    114  30     34        1808   ³  I         +-----19--+         I         I     ³ 8452     SFR          52,000  6/03/1994
FGR94    620  55    341       18132   ³  +-5+  +-6+-----19--+-5+  +-+-----20---+     ³ ------------------ SALE ------------------
FSP94    300  55    165        8774   ³     +-7+    FOP1994     +-6+                   ³ BOOK   PAGE     DATE                 PRICE
UDG94    620  55    341       18132   ³                                               ³   1069   1310 12/06/2005 Q I        240000
                                      ³                                               ³ GRANTOR DAVID W & PATRICIA GIFFORD
                                      ³                                               ³ GRANTEE MICHAEL J & NICOLE COVERT
                                      ³                                               ³    953   1145  5/10/2002 Q I        148000
                                      ³                                               ³ GRANTOR STEM
TOTAL   3509       2736      145486   ----------------------------------------------    GRANTEE GIFFORD
-------EXTRA FEATURES---------------------------------- FIELD CK: ----------------------------------------------
AE BN  CODE      DESC       LEN   WID HGHT QTY QL   YR  ADJ        UNITS UT      PRICE   ADJ UT PR   SPCD %    %GOOD  XFOB VALUE
Y   1 0190    FPLC PF                          1    0000 1.00       1.000 UT    1500.000    1500.000           100.00        1,500
Y     0166    CONC,PAVMT      17    31         1    0000 1.00     623.000 UT       1.500       1.500           100.00          935
Y     0166    CONC,PAVMT      15    95         1    1994 1.00    1425.000 SF       2.000       2.000 AP  30.00  70.00        1,995
-------------------------------------------------------------------------------------------------------------------------------------------
    LAND   DESC       ZONE  ROAD {UD1 {UD3 FRONT DEPTH  FIELD CK:
AE  CODE              TOPO  UTIL {UD2 {UD4  BACK   DT     ADJUSTMENTS            UNITS UT      PRICE   ADJ UT PR    LAND VALUE
Y 000100 SFR         A-1    0002                      1.00 1.00 1.20 1.00       1.000  LT   20000.000    24000.00       24,000
                       0002 0003
Y 009947 SEPTIC      00                                1.00 1.00 1.00 1.00       1.000  UT     750.000      750.00          750
SALE - LOT 2 OAKFIELD ACRES UNIT I                       SALE - CERTIFICATE OF TITLE  - REPO
 2006
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25344

Notice of Treatment 12354

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)
Address: [illegible]
City Lake City Phone 752-1103

Site Location: Subdivision
Lot # 2 Block# Permit # 25344/25345
Address 774 SW CR 240

Product used	Active Ingredient	% Concentration
☑ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☑ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Dwelling	6964	464	600

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

2/19/07 Date | 0800 Time | F254 Gunny Print Technician's Name

Remarks: According to Plans - Portion of home constructed over existing slab.

Applicator - White Permit File - Canary Permit Holder - Pink

10/05 ©

Notice of Treatment ADD TO 12354

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 536 So Baya Ave
City Lake City Phone 752-1703

Site Location: Subdivision Bryan Zecher
Lot # _____ Block# _____ Permit # 25344-25345
Address 7734 Sw CR 240

Product used	Active Ingredient	% Concentration
☐ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☒ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☐ Soil ☒ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Dwelling+DET	7847	582	32 gals
P/A/Room			

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

8-3-07 Date | 11:25 Time | F299 Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink
10/05 ©

Residential System Sizing Calculation

Summary

Covert, Michael & Nicole Addition

, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

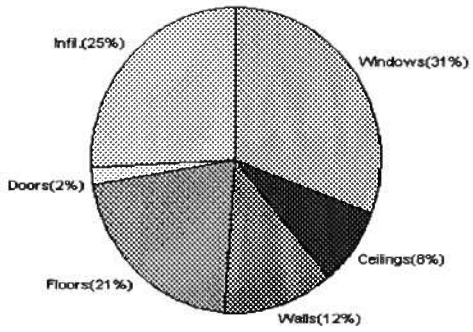
11/27/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**87268**	**Btuh**	**Total cooling load calculation**	**78847**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	119.2	104000	Sensible (SHR = 0.75)	116.0	78000
Heat Pump + Auxiliary(0.0kW)	119.2	104000	Latent	224.4	26000
			Total (Electric Heat Pump)	131.9	10400

WINTER CALCULATIONS

Winter Heating Load (for 5683 sqft)

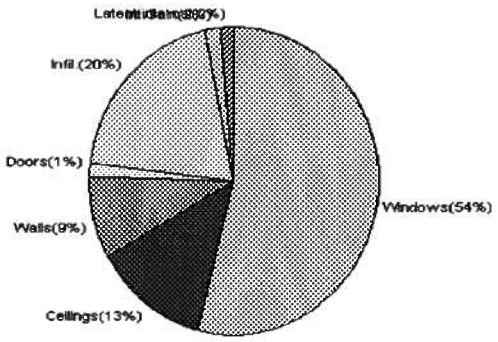
Load component			Load	
Window total	838	sqft	26975	Btuh
Wall total	3282	sqft	10778	Btuh
Door total	120	sqft	1554	Btuh
Ceiling total	6107	sqft	7196	Btuh
Floor total	424	sqft	18512	Btuh
Infiltration	549	cfm	22252	Btuh
Duct loss			0	Btuh
Subtotal			**87268**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**87268**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 5683 sqft)

Load component			Load	
Window total	838	sqft	42459	Btuh
Wall total	3282	sqft	6846	Btuh
Door total	120	sqft	1176	Btuh
Ceiling total	6107	sqft	10114	Btuh
Floor total			0	Btuh
Infiltration	284	cfm	5288	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**67263**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			10384	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**11584**	**Btuh**
TOTAL HEAT GAIN			**78847**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 11-27-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

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

11/27/2006

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	54.0	32.2	1738 Btuh
2	2, Clear, Metal, 0.87	N	36.0	32.2	1159 Btuh
3	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	72.0	32.2	2318 Btuh
5	2, Clear, Metal, 0.87	NW	48.0	32.2	1545 Btuh
6	2, Clear, Metal, 0.87	SW	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	SW	48.0	32.2	1545 Btuh
8	2, Clear, Metal, 0.87	W	24.0	32.2	773 Btuh
9	2, Clear, Metal, 0.87	NW	72.0	32.2	2318 Btuh
10	2, Clear, Metal, 0.87	SW	72.0	32.2	2318 Btuh
11	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
12	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
13	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
14	2, Clear, Metal, 0.87	SE	40.0	32.2	1288 Btuh
15	2, Clear, Metal, 0.87	S	20.0	32.2	644 Btuh
16	2, Clear, Metal, 0.87	E	24.0	32.2	773 Btuh
17	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
18	2, Clear, Metal, 0.87	S	24.0	32.2	773 Btuh
19	2, Clear, Metal, 0.87	SE	48.0	32.2	1545 Btuh
20	2, Clear, Metal, 0.87	SE	7.0	32.2	225 Btuh
21	2, Clear, Metal, 0.87	E	7.0	32.2	225 Btuh
22	2, Clear, Metal, 0.87	SE	7.0	32.2	225 Btuh
23	2, Clear, Metal, 0.87	S	7.0	32.2	225 Btuh
24	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
25	2, Clear, Metal, 0.87	E	4.0	32.2	129 Btuh
26	2, Clear, Metal, 0.87	SE	8.0	32.2	258 Btuh
27	2, Clear, Metal, 0.87	S	4.0	32.2	129 Btuh
	Window Total		838(sqft)		26975 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	3282	3.3	10778 Btuh
	Wall Total		3282		10778 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		80	12.9	1036 Btuh
2	Insulated - Exterior		40	12.9	518 Btuh
	Door Total		120		1554Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	6107	1.2	7196 Btuh
	Ceiling Total		6107		7196Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	424.0 ft(p)	43.7	18512 Btuh
	Floor Total		424		18512 Btuh
			Zone Envelope Subtotal:		65015 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Infiltration	Type Natural	ACH X 0.58	Zone Volume 56830	CFM= 549.4	22252 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1	**Sensible Zone Subtotal**				**87268 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	87268 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	87268 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

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

11/27/2006

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	54.0	32.2	1738 Btuh
2	2, Clear, Metal, 0.87	N	36.0	32.2	1159 Btuh
3	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	72.0	32.2	2318 Btuh
5	2, Clear, Metal, 0.87	NW	48.0	32.2	1545 Btuh
6	2, Clear, Metal, 0.87	SW	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	SW	48.0	32.2	1545 Btuh
8	2, Clear, Metal, 0.87	W	24.0	32.2	773 Btuh
9	2, Clear, Metal, 0.87	NW	72.0	32.2	2318 Btuh
10	2, Clear, Metal, 0.87	SW	72.0	32.2	2318 Btuh
11	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
12	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
13	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
14	2, Clear, Metal, 0.87	SE	40.0	32.2	1288 Btuh
15	2, Clear, Metal, 0.87	S	20.0	32.2	644 Btuh
16	2, Clear, Metal, 0.87	E	24.0	32.2	773 Btuh
17	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
18	2, Clear, Metal, 0.87	S	24.0	32.2	773 Btuh
19	2, Clear, Metal, 0.87	SE	48.0	32.2	1545 Btuh
20	2, Clear, Metal, 0.87	SE	7.0	32.2	225 Btuh
21	2, Clear, Metal, 0.87	E	7.0	32.2	225 Btuh
22	2, Clear, Metal, 0.87	SE	7.0	32.2	225 Btuh
23	2, Clear, Metal, 0.87	S	7.0	32.2	225 Btuh
24	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
25	2, Clear, Metal, 0.87	E	4.0	32.2	129 Btuh
26	2, Clear, Metal, 0.87	SE	8.0	32.2	258 Btuh
27	2, Clear, Metal, 0.87	S	4.0	32.2	129 Btuh
	Window Total		838(sqft)		26975 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	3282	3.3	10778 Btuh
	Wall Total		3282		10778 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		80	12.9	1036 Btuh
2	Insulated - Exterior		40	12.9	518 Btuh
	Door Total		120		1554Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	6107	1.2	7196 Btuh
	Ceiling Total		6107		7196Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	424.0 ft(p)	43.7	18512 Btuh
	Floor Total		424		18512 Btuh
			Zone Envelope Subtotal:		65015 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Infiltration	Type Natural	ACH X 0.58	Zone Volume 56830	CFM= 549.4	22252 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**87268 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	87268 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	87268 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 11/27/2006

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

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	4ft.	6.5ft.	54.0	0.0	54.0	29	60	3242 Btuh
2	2, Clear, 0.87, None,N,N	N	10ft.	6.5ft.	36.0	0.0	36.0	29	29	1043 Btuh
3	2, Clear, 0.87, None,N,N	NW	10ft.	5.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
4	2, Clear, 0.87, None,N,N	NW	13ft.	6.5ft.	72.0	0.0	72.0	29	60	4323 Btuh
5	2, Clear, 0.87, None,N,N	NW	35ft.	6.5ft.	48.0	0.0	48.0	29	60	2882 Btuh
6	2, Clear, 0.87, None,N,N	SW	99ft.	5.5ft.	30.0	30.0	0.0	29	63	869 Btuh
7	2, Clear, 0.87, None,N,N	SW	9ft.	6.5ft.	48.0	48.0	0.0	29	63	1390 Btuh
8	2, Clear, 0.87, None,N,N	W	3ft.	6.5ft.	24.0	8.0	16.0	29	80	1506 Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	72.0	0.0	72.0	29	60	4323 Btuh
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	72.0	24.3	47.7	29	63	3687 Btuh
11	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	20.0	0.0	20.0	29	80	1590 Btuh
14	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	40.0	8.2	31.8	29	63	2227 Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	20.0	20.0	0.0	29	34	579 Btuh
16	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	24.0	3.0	21.0	29	80	1758 Btuh
17	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844 Btuh
18	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	24.0	24.0	0.0	29	34	695 Btuh
19	2, Clear, 0.87, None,N,N	SE	8ft.	6.5ft.	48.0	48.0	0.0	29	63	1390 Btuh
20	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203 Btuh
21	2, Clear, 0.87, None,N,N	E	1.5ft.	2.5ft.	7.0	2.6	4.4	29	80	425 Btuh
22	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203 Btuh
23	2, Clear, 0.87, None,N,N	S	1.5ft.	2.5ft.	7.0	7.0	0.0	29	34	203 Btuh
24	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161 Btuh
25	2, Clear, 0.87, None,N,N	E	1.5ft.	1.5ft.	4.0	3.0	1.0	29	80	167 Btuh
26	2, Clear, 0.87, None,N,N	SE	1.5ft.	1.5ft.	8.0	8.0	0.0	29	63	232 Btuh
27	2, Clear, 0.87, None,N,N	S	1.5ft.	1.5ft.	4.0	4.0	0.0	29	34	116 Btuh
	Window Total				838 (sqft)					42459 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	3282.0	2.1	6846 Btuh
	Wall Total		3282 (sqft)		6846 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	80.0	9.8	784 Btuh
2	Insulated - Exterior	40.0	9.8	392 Btuh
	Door Total	120 (sqft)		1176 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	6107.0	1.7	10114 Btuh
	Ceiling Total		6107 (sqft)		10114 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	424 (ft(p))	0.0	0 Btuh
	Floor Total		424.0 (sqft)		0 Btuh

	Zone Envelope Subtotal:	60595 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Infiltration	Type SensibleNatural	ACH 0.30	Volume(cuft) 56830			CFM= 284.1	Load 5288	Btuh
Internal gain		Occupants 6	Btuh/occupant X 230		+	Appliance 0	Load 1380	Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)					DGM = 0.00	0.0	Btuh
						Sensible Zone Load	**67263**	**Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**67263 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**67263 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**67263 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	10384 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**11584 Btuh**
	TOTAL GAIN	**78847 Btuh**

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 11/27/2006
This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	4ft.	6.5ft.	54.0	0.0	54.0	29	60	3242 Btuh
2	2, Clear, 0.87, None,N,N	N	10ft.	6.5ft.	36.0	0.0	36.0	29	29	1043 Btuh
3	2, Clear, 0.87, None,N,N	NW	10ft.	5.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
4	2, Clear, 0.87, None,N,N	NW	13ft.	6.5ft.	72.0	0.0	72.0	29	60	4323 Btuh
5	2, Clear, 0.87, None,N,N	NW	35ft.	6.5ft.	48.0	0.0	48.0	29	60	2882 Btuh
6	2, Clear, 0.87, None,N,N	SW	99ft.	5.5ft.	30.0	30.0	0.0	29	63	869 Btuh
7	2, Clear, 0.87, None,N,N	SW	9ft.	6.5ft.	48.0	48.0	0.0	29	63	1390 Btuh
8	2, Clear, 0.87, None,N,N	W	3ft.	6.5ft.	24.0	8.0	16.0	29	80	1506 Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	72.0	0.0	72.0	29	60	4323 Btuh
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	72.0	24.3	47.7	29	63	3687 Btuh
11	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	20.0	0.0	20.0	29	80	1590 Btuh
14	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	40.0	8.2	31.8	29	63	2227 Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	20.0	20.0	0.0	29	34	579 Btuh
16	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	24.0	3.0	21.0	29	80	1758 Btuh
17	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844 Btuh
18	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	24.0	24.0	0.0	29	34	695 Btuh
19	2, Clear, 0.87, None,N,N	SE	8ft.	6.5ft.	48.0	48.0	0.0	29	63	1390 Btuh
20	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203 Btuh
21	2, Clear, 0.87, None,N,N	E	1.5ft.	2.5ft.	7.0	2.6	4.4	29	80	425 Btuh
22	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203 Btuh
23	2, Clear, 0.87, None,N,N	S	1.5ft.	2.5ft.	7.0	7.0	0.0	29	34	203 Btuh
24	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161 Btuh
25	2, Clear, 0.87, None,N,N	E	1.5ft.	1.5ft.	4.0	3.0	1.0	29	80	167 Btuh
26	2, Clear, 0.87, None,N,N	SE	1.5ft.	1.5ft.	8.0	8.0	0.0	29	63	232 Btuh
27	2, Clear, 0.87, None,N,N	S	1.5ft.	1.5ft.	4.0	4.0	0.0	29	34	116 Btuh
	Window Total				838 (sqft)					42459 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	3282.0	2.1	6846 Btuh
	Wall Total		3282 (sqft)		6846 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	80.0	9.8	784 Btuh
2	Insulated - Exterior	40.0	9.8	392 Btuh
	Door Total	120 (sqft)		1176 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	6107.0	1.7	10114 Btuh
	Ceiling Total		6107 (sqft)		10114 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	424 (ft(p))	0.0	0 Btuh
	Floor Total		424.0 (sqft)		0 Btuh

	Zone Envelope Subtotal:	60595 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Infiltration	Type SensibleNatural	ACH 0.30	Volume(cuft) 56830		CFM= 284.1	Load 5288	Btuh
Internal gain		Occupants 6	Btuh/occupant X 230	+	Appliance 0	Load 1380	Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)				DGM = 0.00	0.0	Btuh
					Sensible Zone Load	**67263**	**Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**67263 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**67263 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**67263 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	10384 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**11584 Btuh**
	TOTAL GAIN	**78847 Btuh**

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

For Florida residences only

Residential Window Diversity

MidSummer

Covert, Michael & Nicole Addition

, FL

Project Title:
610042ZecherBryan

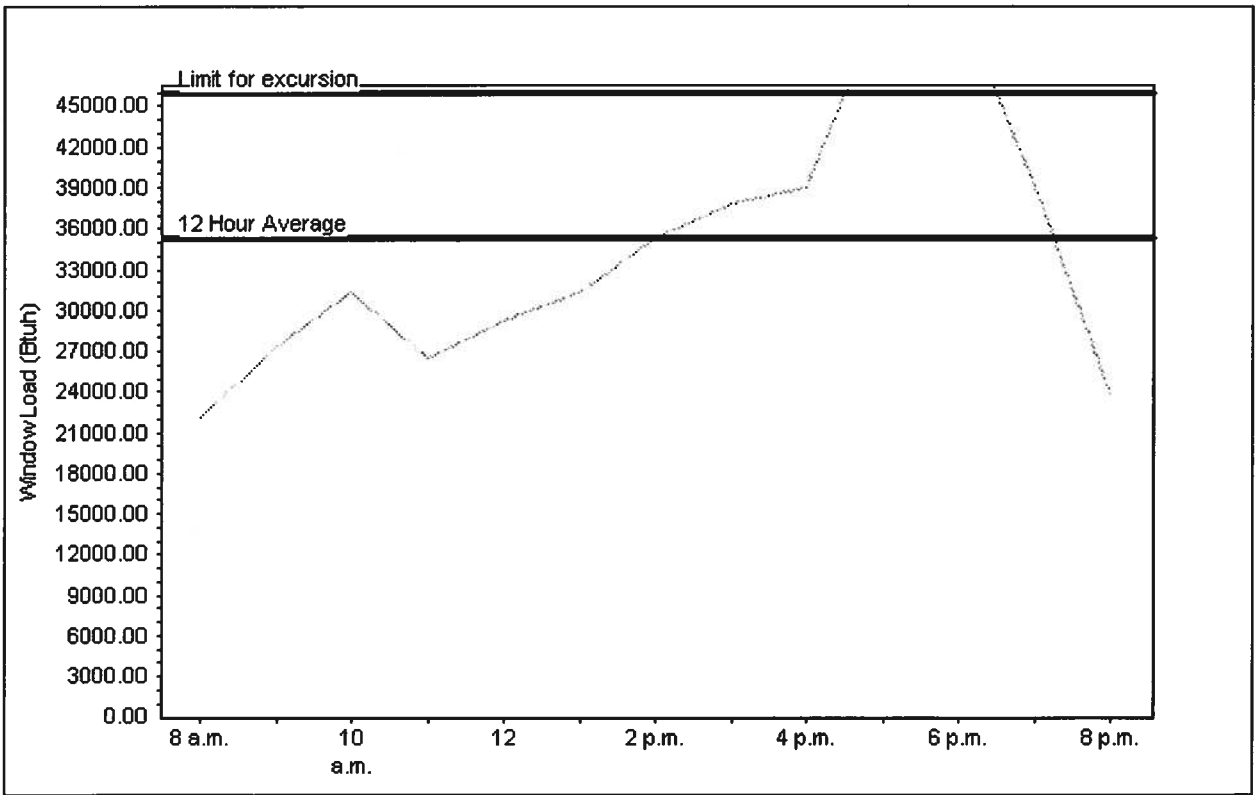
Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	35331 Btu
Summer setpoint	75 F	Peak window load for July	53074 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	45930 Btu
Latitude	29 North	Window excursion (July)	7144 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 11-27-06

PREPARED BY:
Charles Hill
Robertson & Anschutz
10333 Richmond Avenue, Suite 550
Houston, TX 77042

OGX-1037

AFTER RECORDED RETURN TO:

Bank of America, N.A.
9000 Southside Blvd., Ste. 700
Jacksonville, FL 32256

Inst:2006029797 Date:12/19/2006 Time:15:23
D.C.,P.DeWitt Cason,Columbia County B:1105 P:969

NOTICE OF COMMENCEMENT

Permit No. _____ Tax Folio No. _____

State of Florida
County of Columbia

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Legal description of property (include street address, if available)
7734 Southwest County Road 240
Lake City, FL 32055

See Exhibit "A" attached hereto and made a part hereof for all purposes

2. General description of improvement(s)

Improvements to custom home

3. Owner information
Name: **Michael J. Covert and Nicole Covert, husband and wife**
Address: **7734 Southwest County Road 240**
Lake City, FL 32055

4. Contractor information
Name: **Bryan Zecher Construction, Inc.**
Address: **Post Office Box 315**
Lake City FL 32056
Phone:

5. Surety
Name: _____
Address: _____
_____
Phone #: _____ Fax #: _____ Amt. of bond: _____

6. Lender
Name: **Bank of America, N.A.**
Address: **1201 Main Street, 11th Floor, Dallas, TX 75202-0000**
Phone #: **877-719-6142**

25344

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes
Name: _____
Address: _____
Phone #: _____
Fax #: _____

8. In addition to himself, Owner designates _____ of _____ _____ to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
Phone #: _____
Fax #: _____

9. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

10. Notwithstanding paragraph nine (9), this Notice of Commencement shall not expire until December 15, 2008.

_____
Signature of Owner

Sworn to and subscribed before me this 11 day of Dec, 2006.

_____
Notary Public

My commission expires:

Martha Bryan
Commission # DD232534
Expires August 10, 2007
Bonded Troy Fain - Insurance, Inc. 800-385-7019

Inst:2006029797 Date:12/19/2006 Time:15:23
_____DC,P.DeWitt Cason,Columbia County B:1105 P:970

Loan No.: 6011633622

EXHIBIT "A"

Lot 2, OAKFIELD ACRES, Phase PHASE I, according to the map or plat thereof as recorded in Plat Book 6, Page 6 and 6A, of the Public Records of Columbia County, Florida

Inst:2006029797 Date:12/19/2006 Time:15:23
_____DC,P.DeWitt Cason,Columbia County B:1105 P:971

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**610042ZecherBryan**	Builder:	**Zecher Bryan**
Address:		Permitting Office:	Columbia
City, State:	**, FL**	Permit Number:	25344
Owner:	**Covert, Michael & Nicole Addition**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 104.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	5683 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT) 7a.	(Dble Default) 838.0 ft²	a. Electric Heat Pump	Cap: 104.0 kBtu/hr
b. SHGC:			HSPF: 7.90
(or Clear or Tint DEFAULT) 7b.	(Clear) 838.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 424.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Exterior	R=13.0, 3282.0 ft²		EF: 0.93
b. N/A		b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	
a. Under Attic	R=30.0, 6107.0 ft²	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 280.0 ft		
b. N/A			

Glass/Floor Area: 0.15	Total as-built points: 56485 Total base points: 65496	PASS

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

PREPARED BY: _____

DATE: 11-27-06

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

OWNER/AGENT: _____

DATE: 12/1/06

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL, PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	5683.0	20.04	20499.7	Double, Clear	S	4.0	6.5	54.0	35.87	0.61	1177.4	
				Double, Clear	SW	10.0	6.5	36.0	40.16	0.42	609.1	
				Double, Clear	S	10.0	5.5	30.0	35.87	0.46	490.5	
				Double, Clear	S	13.0	6.5	72.0	35.87	0.45	1165.0	
				Double, Clear	S	35.0	6.5	48.0	35.87	0.43	743.6	
				Double, Clear	E	99.0	5.5	30.0	42.06	0.36	450.3	
				Double, Clear	E	9.0	6.5	48.0	42.06	0.45	902.3	
				Double, Clear	SE	3.0	6.5	24.0	42.75	0.70	714.1	
				Double, Clear	S	1.5	6.5	72.0	35.87	0.88	2264.3	
				Double, Clear	E	1.5	6.5	72.0	42.06	0.93	2806.0	
				Double, Clear	S	1.5	6.5	30.0	35.87	0.88	943.5	
				Double, Clear	W	1.5	6.5	30.0	38.52	0.93	1071.5	
				Double, Clear	NW	1.5	6.5	20.0	25.97	0.94	486.8	
				Double, Clear	N	1.5	6.5	40.0	19.20	0.95	727.7	
				Double, Clear	NE	1.5	6.5	20.0	29.56	0.93	551.6	
				Double, Clear	NW	1.5	6.5	24.0	25.97	0.94	584.2	
				Double, Clear	N	1.5	6.5	36.0	19.20	0.95	654.9	
				Double, Clear	NE	1.5	6.5	24.0	29.56	0.93	661.9	
				Double, Clear	N	8.0	6.5	48.0	19.20	0.68	624.4	
				Double, Clear	N	1.5	2.5	7.0	19.20	0.80	107.2	
				Double, Clear	NW	1.5	2.5	7.0	25.97	0.74	134.7	
				Double, Clear	N	1.5	2.5	7.0	19.20	0.80	107.2	
				Double, Clear	NE	1.5	2.5	7.0	29.56	0.71	146.5	
				Double, Clear	S	1.5	6.5	36.0	35.87	0.88	1132.2	
				Double, Clear	NW	1.5	1.5	4.0	25.97	0.64	66.3	
				Double, Clear	N	1.5	1.5	8.0	19.20	0.71	109.2	
				Double, Clear	NE	1.5	1.5	4.0	29.56	0.59	69.2	
				As-Built Total:				**838.0**			**19501.4**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	3282.0	1.50	4923.0
Exterior	3282.0	1.70	5579.4					
Base Total:	**3282.0**		**5579.4**	**As-Built Total:**		**3282.0**		**4923.0**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Insulated	40.0	4.10	164.0
Exterior	120.0	4.10	492.0	Exterior Insulated	80.0	4.10	328.0
Base Total:	**120.0**		**492.0**	**As-Built Total:**	**120.0**		**492.0**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , **FL,** PERMIT #:

BASE				AS-BUILT					
CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	=	Points
Under Attic	5683.0	1.73	9831.6	Under Attic	30.0	6107.0	1.73 X 1.00		10565.1
Base Total:	**5683.0**		**9831.6**	**As-Built Total:**		**6107.0**			**10565.1**
FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	=	Points
Slab	424.0(p)	-37.0	-15688.0	Slab-On-Grade Edge Insulation	0.0	424.0(p	-41.20		-17468.8
Raised	0.0	0.00	0.0						
Base Total:			**-15688.0**	**As-Built Total:**		**424.0**			**-17468.8**
INFILTRATION	Area X	BSPM	= Points			Area X	SPM	=	Points
	5683.0	10.21	58023.4			5683.0	10.21		58023.4
Summer Base Points: 78738.1				**Summer As-Built Points:**					**76036.1**
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
				(sys 1: Central Unit 104000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
				76036	1.00	(1.09 x 1.147 x 0.91)	0.263	1.000	22711.4
78738.1	**0.4266**		**33589.7**	**76036.1**	**1.00**	**1.138**	**0.263**	**1.000**	**22711.4**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL, PERMIT #:

BASE

GLASS TYPES

.18 X	Conditioned Floor Area	X BWPM	= Points
.18	5683.0	12.74	13032.3

WALL TYPES

	Area	X BWPM	= Points
Adjacent	0.0	0.00	0.0
Exterior	3282.0	3.70	12143.4
Base Total:	**3282.0**		**12143.4**

DOOR TYPES

	Area	X BWPM	= Points
Adjacent	0.0	0.00	0.0
Exterior	120.0	8.40	1008.0
Base Total:	**120.0**		**1008.0**

AS-BUILT

GLASS TYPES

Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF =	Points
Double, Clear	S	4.0	6.5	54.0	13.30	1.93	1389.2
Double, Clear	SW	10.0	6.5	36.0	16.74	1.82	1099.0
Double, Clear	S	10.0	5.5	30.0	13.30	3.47	1383.2
Double, Clear	S	13.0	6.5	72.0	13.30	3.51	3356.1
Double, Clear	S	35.0	6.5	48.0	13.30	3.66	2336.1
Double, Clear	E	99.0	5.5	30.0	18.79	1.51	849.5
Double, Clear	E	9.0	6.5	48.0	18.79	1.37	1236.2
Double, Clear	SE	3.0	6.5	24.0	14.71	1.32	466.6
Double, Clear	S	1.5	6.5	72.0	13.30	1.09	1047.5
Double, Clear	E	1.5	6.5	72.0	18.79	1.03	1394.6
Double, Clear	S	1.5	6.5	30.0	13.30	1.09	436.4
Double, Clear	W	1.5	6.5	30.0	20.73	1.02	634.1
Double, Clear	NW	1.5	6.5	20.0	24.30	1.00	487.1
Double, Clear	N	1.5	6.5	40.0	24.58	1.00	985.0
Double, Clear	NE	1.5	6.5	20.0	23.57	1.00	473.7
Double, Clear	NW	1.5	6.5	24.0	24.30	1.00	584.5
Double, Clear	N	1.5	6.5	36.0	24.58	1.00	886.5
Double, Clear	NE	1.5	6.5	24.0	23.57	1.00	568.5
Double, Clear	N	8.0	6.5	48.0	24.58	1.02	1204.3
Double, Clear	N	1.5	2.5	7.0	24.58	1.01	174.1
Double, Clear	NW	1.5	2.5	7.0	24.30	1.02	172.9
Double, Clear	N	1.5	2.5	7.0	24.58	1.01	174.1
Double, Clear	NE	1.5	2.5	7.0	23.57	1.03	169.9
Double, Clear	S	1.5	6.5	36.0	13.30	1.09	523.7
Double, Clear	NW	1.5	1.5	4.0	24.30	1.02	99.6
Double, Clear	N	1.5	1.5	8.0	24.58	1.02	200.2
Double, Clear	NE	1.5	1.5	4.0	23.57	1.04	98.4
As-Built Total:				**838.0**			**22431.1**

WALL TYPES

Type	R-Value	Area X	WPM =	Points
Frame, Wood, Exterior	13.0	3282.0	3.40	11158.8
As-Built Total:		**3282.0**		**11158.8**

DOOR TYPES

Type	Area X	WPM =	Points
Exterior Insulated	40.0	8.40	336.0
Exterior Insulated	80.0	8.40	672.0
As-Built Total:	**120.0**		**1008.0**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , **FL,** PERMIT #:

BASE				AS-BUILT					
CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM	=	Points
Under Attic	5683.0	2.05	11650.1	Under Attic	30.0	6107.0	2.05 X 1.00		12519.3
Base Total:	**5683.0**		**11650.1**	**As-Built Total:**		**6107.0**			**12519.3**
FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	=	Points
Slab	424.0(p)	8.9	3773.6	Slab-On-Grade Edge Insulation	0.0	424.0(p	18.80		7971.2
Raised	0.0	0.00	0.0						
Base Total:			**3773.6**	**As-Built Total:**		**424.0**			**7971.2**
INFILTRATION	Area X	BWPM	= Points			Area X	WPM	=	Points
	5683.0	-0.59	-3353.0			5683.0	-0.59		-3353.0
Winter Base Points:			**38254.4**	**Winter As-Built Points:**					**51735.4**
Total Winter Points	X System Multiplier	=	Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
				(sys 1: Electric Heat Pump 104000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
				51735.4	1.000	(1.069 x 1.169 x 0.93)	0.432	1.000	25953.2
38254.4	**0.6274**		**24000.8**	**51735.4**	**1.00**	**1.162**	**0.432**	**1.000**	**25953.2**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,	PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2635.00	7905.0	40.0	0.93	3	1.00	2606.67	1.00	7820.0	
				As-Built Total:						**7820.0**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
33590	**24001**	**7905**	**65496**	**22711**	**25953**	**7820**	**56485**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,	PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.8

The higher the score, the more efficient the home.

Covert, Michael & Nicole Addition, , , FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 104.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	5683 ft²		c. N/A	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 838.0 ft²		a. Electric Heat Pump	Cap: 104.0 kBtu/hr
	b. SHGC:				HSPF: 7.90
	(or Clear or Tint DEFAULT) 7b.	(Clear) 838.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 424.0(p) ft		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 3282.0 ft²			EF: 0.93
	b. N/A			b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 6107.0 ft²	15.	HVAC credits	
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 280.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: 12/11/06

Address of New Home: 7734 SW CR240 City/FL Zip: LC, FL 32055

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

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

PRODUCT APPROVAL SPECIFICATION SHEET

Location:_____ **Project Name:**_____

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up	N/A		
5. Automatic	N/A		
6. Other	—		
B. WINDOWS			
1. Single hung	Capital / Jordan		FL 675 / FL 1378-R1
2. Horizontal Slider	" "		FL 685 / FL 1384-R1
3. Casement	—		
4. Double Hung	—		
5. Fixed	C / J		FL 681 / FL 1383-R1
6. Awning	—		
7. Pass -through	—		
8. Projected	—		
9. Mullion	—		
10. Wind Breaker	—		
11 Dual Action	—		
12. Other			
C. PANEL WALL			
1. Siding	Hardy Plank		FL 889-R1
2. Soffits	Ashley Aluminum		FL 4968
3. EIFS	—		
4. Storefronts	—		
5. Curtain walls	—		
6. Wall louver	—		
7. Glass block	—		
8. Membrane	—		
9. Greenhouse	—		
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	Elk / Certainteed		FL 728-R1 / FL 350-R1
2. Underlayments	Felt		FL 1814
3. Roofing Fasteners	Nails		ROM 3378
4. Non-structural Metal Rf	—		
5. Built-Up Roofing	—		
6. Modified Bitumen	—		
7. Single Ply Roofing Sys	—		
8. Roofing Tiles	—		
9. Roofing Insulation	—		
10. Waterproofing	—		
11. Wood shingles /shakes	—		
12. Roofing Slate	—		

Residential System Sizing Calculation

Summary

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

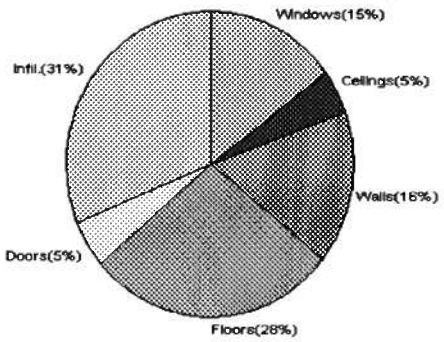
11/27/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**15492**	**Btuh**	**Total cooling load calculation**	**12314**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.2	18000	Sensible (SHR = 0.75)	145.6	13500
Heat Pump + Auxiliary(0.0kW)	116.2	18000	Latent	147.8	4500
			Total (Electric Heat Pump)	146.2	18000

WINTER CALCULATIONS

Winter Heating Load (for 611 sqft)

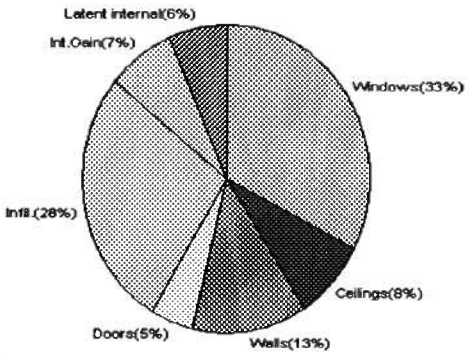
Load component			Load	
Window total	72	sqft	2318	Btuh
Wall total	768	sqft	2522	Btuh
Door total	60	sqft	777	Btuh
Ceiling total	611	sqft	720	Btuh
Floor total	100	sqft	4366	Btuh
Infiltration	118	cfm	4789	Btuh
Duct loss			0	Btuh
Subtotal			**15492**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**15492**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 611 sqft)

Load component			Load	
Window total	72	sqft	4005	Btuh
Wall total	768	sqft	1602	Btuh
Door total	60	sqft	588	Btuh
Ceiling total	611	sqft	1012	Btuh
Floor total			0	Btuh
Infiltration	61	cfm	1143	Btuh
Internal gain			920	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**9270**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			2244	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			800	Btuh
Total latent gain			**3044**	**Btuh**
TOTAL HEAT GAIN			**12314**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 11-27-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title: 610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

11/27/2006

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	18.0	32.2	579 Btuh
2	2, Clear, Metal, 0.87	NE	18.0	32.2	579 Btuh
3	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
	Window Total		72(sqft)		2318 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	768	3.3	2522 Btuh
	Wall Total		768		2522 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		60	12.9	777 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	611	1.2	720 Btuh
	Ceiling Total		611		720Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	100.0 ft(p)	43.7	4366 Btuh
	Floor Total		100		4366 Btuh
			Zone Envelope Subtotal:		10703 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	1.29	5499	118.2	4789 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**15492 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	15492 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	15492 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Project Title: 610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

11/27/2006

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	18.0	32.2	579 Btuh
2	2, Clear, Metal, 0.87	NE	18.0	32.2	579 Btuh
3	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
	Window Total		72(sqft)		2318 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	768	3.3	2522 Btuh
	Wall Total		768		2522 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		60	12.9	777 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	611	1.2	720 Btuh
	Ceiling Total		611		720Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	100.0 ft(p)	43.7	4366 Btuh
	Floor Total		100		4366 Btuh
			Zone Envelope Subtotal:		10703 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	1.29	5499	118.2	4789 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**15492 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	15492 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	15492 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 11/27/2006

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

Component Loads for Whole House

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081 Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081 Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844 Btuh
	Window Total				72 (sqft)					4005 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	768.0	2.1	1602 Btuh
	Wall Total		768 (sqft)		1602 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Exterior		60.0	9.8	588 Btuh
	Door Total		60 (sqft)		588 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	611.0	1.7	1012 Btuh
	Ceiling Total		611 (sqft)		1012 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	100 (ft(p))	0.0	0 Btuh
	Floor Total		100.0 (sqft)		0 Btuh
				Zone Envelope Subtotal:	7207 Btuh

Infiltration	Type	ACH		Volume(cuft)		CFM=	Load
	SensibleNatural	0.67		5499		61.4	1143 Btuh
Internal gain		Occupants		Btuh/occupant		Appliance	Load
		4	X	230	+	0	920 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)					DGM = 0.00	0.0 Btuh
						Sensible Zone Load	**9270 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

11/27/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**9270 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**9270 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**9270 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	2244 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**3044 Btuh**
	TOTAL GAIN	**12314 Btuh**

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 11/27/2006
This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081 Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081 Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844 Btuh
	Window Total				72 (sqft)					4005 Btuh
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load
1	Frame - Wood - Ext		13.0/0.09		768.0			2.1		1602 Btuh
	Wall Total				768 (sqft)					1602 Btuh
Doors	Type				Area (sqft)			HTM		Load
1	Insulated - Exterior				60.0			9.8		588 Btuh
	Door Total				60 (sqft)					588 Btuh
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load
1	Vented Attic/DarkShingle		30.0		611.0			1.7		1012 Btuh
	Ceiling Total				611 (sqft)					1012 Btuh
Floors	Type		R-Value		Size			HTM		Load
1	Slab On Grade		0.0		100 (ft(p))			0.0		0 Btuh
	Floor Total				100.0 (sqft)					0 Btuh
							Zone Envelope Subtotal:			7207 Btuh
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load
	SensibleNatural		0.67		5499			61.4		1143 Btuh
Internal gain			Occupants		Btuh/occupant			Appliance		Load
			4		X 230		+	0		920 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
							Sensible Zone Load			**9270 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

11/27/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**9270 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**9270 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**9270 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	2244 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**3044 Btuh**
	TOTAL GAIN	**12314 Btuh**

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

For Florida residences only

Residential Window Diversity

MidSummer

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

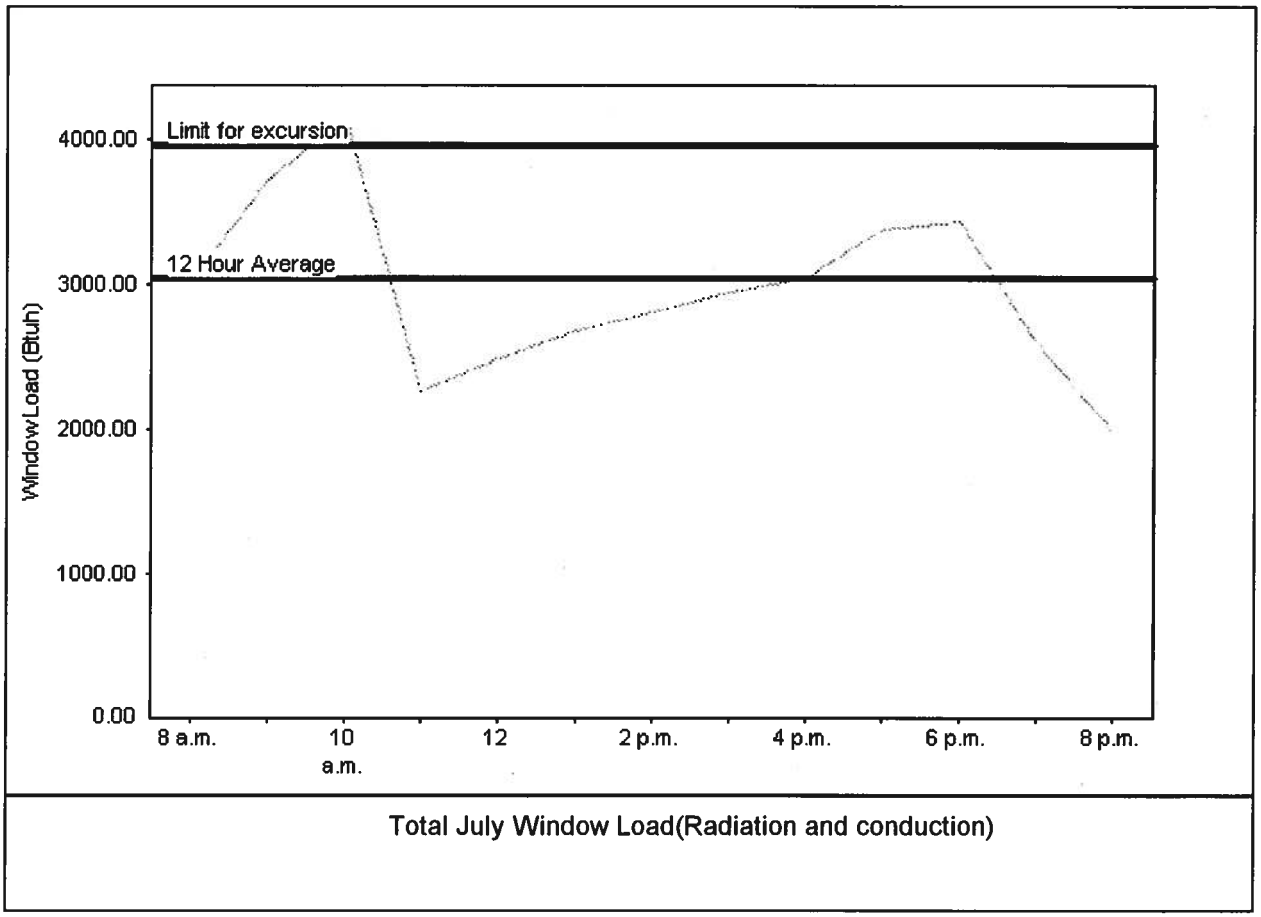
, FL

11/27/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	3046 Btuh
Summer setpoint	75 F	Peak window load for July	4155 Btuh
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	3960 Btuh
Latitude	29 North	Window excursion (July)	195 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE:

Residential System Sizing Calculation

Summary

Covert, Michael & Nicole Addition

, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

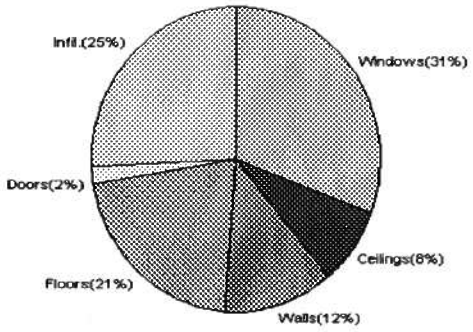
11/27/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**87268**	**Btuh**	**Total cooling load calculation**	**78847**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	119.2	104000	Sensible (SHR = 0.75)	116.0	78000
Heat Pump + Auxiliary(0.0kW)	119.2	104000	Latent	224.4	26000
			Total (Electric Heat Pump)	131.9	10400

WINTER CALCULATIONS

Winter Heating Load (for 5683 sqft)

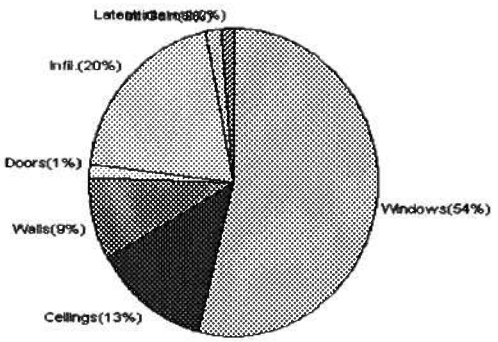
Load component			Load	
Window total	838	sqft	26975	Btuh
Wall total	3282	sqft	10778	Btuh
Door total	120	sqft	1554	Btuh
Ceiling total	6107	sqft	7196	Btuh
Floor total	424	sqft	18512	Btuh
Infiltration	549	cfm	22252	Btuh
Duct loss			0	Btuh
Subtotal			**87268**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**87268**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 5683 sqft)

Load component			Load	
Window total	838	sqft	42459	Btuh
Wall total	3282	sqft	6846	Btuh
Door total	120	sqft	1176	Btuh
Ceiling total	6107	sqft	10114	Btuh
Floor total			0	Btuh
Infiltration	284	cfm	5288	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**67263**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			10384	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**11584**	**Btuh**
TOTAL HEAT GAIN			**78847**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 11-27-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

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

11/27/2006

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	54.0	32.2	1738 Btuh
2	2, Clear, Metal, 0.87	N	36.0	32.2	1159 Btuh
3	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	72.0	32.2	2318 Btuh
5	2, Clear, Metal, 0.87	NW	48.0	32.2	1545 Btuh
6	2, Clear, Metal, 0.87	SW	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	SW	48.0	32.2	1545 Btuh
8	2, Clear, Metal, 0.87	W	24.0	32.2	773 Btuh
9	2, Clear, Metal, 0.87	NW	72.0	32.2	2318 Btuh
10	2, Clear, Metal, 0.87	SW	72.0	32.2	2318 Btuh
11	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
12	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
13	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
14	2, Clear, Metal, 0.87	SE	40.0	32.2	1288 Btuh
15	2, Clear, Metal, 0.87	S	20.0	32.2	644 Btuh
16	2, Clear, Metal, 0.87	E	24.0	32.2	773 Btuh
17	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
18	2, Clear, Metal, 0.87	S	24.0	32.2	773 Btuh
19	2, Clear, Metal, 0.87	SE	48.0	32.2	1545 Btuh
20	2, Clear, Metal, 0.87	SE	7.0	32.2	225 Btuh
21	2, Clear, Metal, 0.87	E	7.0	32.2	225 Btuh
22	2, Clear, Metal, 0.87	SE	7.0	32.2	225 Btuh
23	2, Clear, Metal, 0.87	S	7.0	32.2	225 Btuh
24	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
25	2, Clear, Metal, 0.87	E	4.0	32.2	129 Btuh
26	2, Clear, Metal, 0.87	SE	8.0	32.2	258 Btuh
27	2, Clear, Metal, 0.87	S	4.0	32.2	129 Btuh
	Window Total		838(sqft)		26975 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	3282	3.3	10778 Btuh
	Wall Total		3282		10778 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		80	12.9	1036 Btuh
2	Insulated - Exterior		40	12.9	518 Btuh
	Door Total		120		1554Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	6107	1.2	7196 Btuh
	Ceiling Total		6107		7196Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	424.0 ft(p)	43.7	18512 Btuh
	Floor Total		424		18512 Btuh
			Zone Envelope Subtotal:		65015 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Infiltration	Type Natural	ACH X 0.58	Zone Volume 56830	CFM= 549.4	22252 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**87268 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	87268 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	87268 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

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

11/27/2006

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	54.0	32.2	1738 Btuh
2	2, Clear, Metal, 0.87	N	36.0	32.2	1159 Btuh
3	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	72.0	32.2	2318 Btuh
5	2, Clear, Metal, 0.87	NW	48.0	32.2	1545 Btuh
6	2, Clear, Metal, 0.87	SW	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	SW	48.0	32.2	1545 Btuh
8	2, Clear, Metal, 0.87	W	24.0	32.2	773 Btuh
9	2, Clear, Metal, 0.87	NW	72.0	32.2	2318 Btuh
10	2, Clear, Metal, 0.87	SW	72.0	32.2	2318 Btuh
11	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
12	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
13	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
14	2, Clear, Metal, 0.87	SE	40.0	32.2	1288 Btuh
15	2, Clear, Metal, 0.87	S	20.0	32.2	644 Btuh
16	2, Clear, Metal, 0.87	E	24.0	32.2	773 Btuh
17	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
18	2, Clear, Metal, 0.87	S	24.0	32.2	773 Btuh
19	2, Clear, Metal, 0.87	SE	48.0	32.2	1545 Btuh
20	2, Clear, Metal, 0.87	SE	7.0	32.2	225 Btuh
21	2, Clear, Metal, 0.87	E	7.0	32.2	225 Btuh
22	2, Clear, Metal, 0.87	SE	7.0	32.2	225 Btuh
23	2, Clear, Metal, 0.87	S	7.0	32.2	225 Btuh
24	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
25	2, Clear, Metal, 0.87	E	4.0	32.2	129 Btuh
26	2, Clear, Metal, 0.87	SE	8.0	32.2	258 Btuh
27	2, Clear, Metal, 0.87	S	4.0	32.2	129 Btuh
	Window Total		838(sqft)		26975 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	3282	3.3	10778 Btuh
	Wall Total		3282		10778 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		80	12.9	1036 Btuh
2	Insulated - Exterior		40	12.9	518 Btuh
	Door Total		120		1554Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	6107	1.2	7196 Btuh
	Ceiling Total		6107		7196Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	424.0 ft(p)	43.7	18512 Btuh
	Floor Total		424		18512 Btuh
			Zone Envelope Subtotal:		65015 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Infiltration	Type Natural	ACH X 0.58	Zone Volume 56830	CFM= 549.4	22252 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1	**Sensible Zone Subtotal**				**87268 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	87268 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	87268 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 11/27/2006

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

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	4ft.	6.5ft.	54.0	0.0	54.0	29	60	3242 Btuh
2	2, Clear, 0.87, None,N,N	N	10ft.	6.5ft.	36.0	0.0	36.0	29	29	1043 Btuh
3	2, Clear, 0.87, None,N,N	NW	10ft.	5.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
4	2, Clear, 0.87, None,N,N	NW	13ft.	6.5ft.	72.0	0.0	72.0	29	60	4323 Btuh
5	2, Clear, 0.87, None,N,N	NW	35ft.	6.5ft.	48.0	0.0	48.0	29	60	2882 Btuh
6	2, Clear, 0.87, None,N,N	SW	99ft.	5.5ft.	30.0	30.0	0.0	29	63	869 Btuh
7	2, Clear, 0.87, None,N,N	SW	9ft.	6.5ft.	48.0	48.0	0.0	29	63	1390 Btuh
8	2, Clear, 0.87, None,N,N	W	3ft.	6.5ft.	24.0	8.0	16.0	29	80	1506 Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	72.0	0.0	72.0	29	60	4323 Btuh
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	72.0	24.3	47.7	29	63	3687 Btuh
11	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	20.0	0.0	20.0	29	80	1590 Btuh
14	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	40.0	8.2	31.8	29	63	2227 Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	20.0	20.0	0.0	29	34	579 Btuh
16	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	24.0	3.0	21.0	29	80	1758 Btuh
17	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844 Btuh
18	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	24.0	24.0	0.0	29	34	695 Btuh
19	2, Clear, 0.87, None,N,N	SE	8ft.	6.5ft.	48.0	48.0	0.0	29	63	1390 Btuh
20	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203 Btuh
21	2, Clear, 0.87, None,N,N	E	1.5ft.	2.5ft.	7.0	2.6	4.4	29	80	425 Btuh
22	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203 Btuh
23	2, Clear, 0.87, None,N,N	S	1.5ft.	2.5ft.	7.0	7.0	0.0	29	34	203 Btuh
24	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161 Btuh
25	2, Clear, 0.87, None,N,N	E	1.5ft.	1.5ft.	4.0	3.0	1.0	29	80	167 Btuh
26	2, Clear, 0.87, None,N,N	SE	1.5ft.	1.5ft.	8.0	8.0	0.0	29	63	232 Btuh
27	2, Clear, 0.87, None,N,N	S	1.5ft.	1.5ft.	4.0	4.0	0.0	29	34	116 Btuh
	Window Total				838 (sqft)					42459 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	3282.0	2.1	6846 Btuh
	Wall Total		3282 (sqft)		6846 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	80.0	9.8	784 Btuh
2	Insulated - Exterior	40.0	9.8	392 Btuh
	Door Total	120 (sqft)		1176 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	6107.0	1.7	10114 Btuh
	Ceiling Total		6107 (sqft)		10114 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	424 (ft(p))	0.0	0 Btuh
	Floor Total		424.0 (sqft)		0 Btuh

	Zone Envelope Subtotal:	60595 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Infiltration	Type SensibleNatural	ACH 0.30		Volume(cuft) 56830		CFM= 284.1	Load 5288	Btuh
Internal gain		Occupants 6	X	Btuh/occupant 230	+	Appliance 0	Load 1380	Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)					DGM = 0.00	0.0	Btuh
						Sensible Zone Load	**67263**	**Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**67263 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**67263 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**67263 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	10384 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**11584 Btuh**
	TOTAL GAIN	**78847 Btuh**

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 11/27/2006

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

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	4ft.	6.5ft.	54.0	0.0	54.0	29	60	3242 Btuh
2	2, Clear, 0.87, None,N,N	N	10ft.	6.5ft.	36.0	0.0	36.0	29	29	1043 Btuh
3	2, Clear, 0.87, None,N,N	NW	10ft.	5.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
4	2, Clear, 0.87, None,N,N	NW	13ft.	6.5ft.	72.0	0.0	72.0	29	60	4323 Btuh
5	2, Clear, 0.87, None,N,N	NW	35ft.	6.5ft.	48.0	0.0	48.0	29	60	2882 Btuh
6	2, Clear, 0.87, None,N,N	SW	99ft.	5.5ft.	30.0	30.0	0.0	29	63	869 Btuh
7	2, Clear, 0.87, None,N,N	SW	9ft.	6.5ft.	48.0	48.0	0.0	29	63	1390 Btuh
8	2, Clear, 0.87, None,N,N	W	3ft.	6.5ft.	24.0	8.0	16.0	29	80	1506 Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	72.0	0.0	72.0	29	60	4323 Btuh
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	72.0	24.3	47.7	29	63	3687 Btuh
11	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	20.0	0.0	20.0	29	80	1590 Btuh
14	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	40.0	8.2	31.8	29	63	2227 Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	20.0	20.0	0.0	29	34	579 Btuh
16	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	24.0	3.0	21.0	29	80	1758 Btuh
17	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844 Btuh
18	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	24.0	24.0	0.0	29	34	695 Btuh
19	2, Clear, 0.87, None,N,N	SE	8ft.	6.5ft.	48.0	48.0	0.0	29	63	1390 Btuh
20	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203 Btuh
21	2, Clear, 0.87, None,N,N	E	1.5ft.	2.5ft.	7.0	2.6	4.4	29	80	425 Btuh
22	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203 Btuh
23	2, Clear, 0.87, None,N,N	S	1.5ft.	2.5ft.	7.0	7.0	0.0	29	34	203 Btuh
24	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161 Btuh
25	2, Clear, 0.87, None,N,N	E	1.5ft.	1.5ft.	4.0	3.0	1.0	29	80	167 Btuh
26	2, Clear, 0.87, None,N,N	SE	1.5ft.	1.5ft.	8.0	8.0	0.0	29	63	232 Btuh
27	2, Clear, 0.87, None,N,N	S	1.5ft.	1.5ft.	4.0	4.0	0.0	29	34	116 Btuh
	Window Total				838 (sqft)					42459 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	3282.0	2.1	6846 Btuh
	Wall Total		3282 (sqft)		6846 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	80.0	9.8	784 Btuh
2	Insulated - Exterior	40.0	9.8	392 Btuh
	Door Total	120 (sqft)		1176 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	6107.0	1.7	10114 Btuh
	Ceiling Total		6107 (sqft)		10114 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	424 (ft(p))	0.0	0 Btuh
	Floor Total		424.0 (sqft)		0 Btuh

	Zone Envelope Subtotal:	60595 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Infiltration	Type SensibleNatural	ACH 0.30		Volume(cuft) 56830		CFM= 284.1	Load 5288	Btuh
Internal gain	Occupants 6		Btuh/occupant X 230		+	Appliance 0	Load 1380	Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)					DGM = 0.00	0.0	Btuh
						Sensible Zone Load	**67263**	**Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**67263 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**67263 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**67263 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	10384 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**11584 Btuh**
	TOTAL GAIN	**78847 Btuh**

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

For Florida residences only

Residential Window Diversity

MidSummer

Covert, Michael & Nicole Addition

, FL

Project Title:
610042ZecherBryan

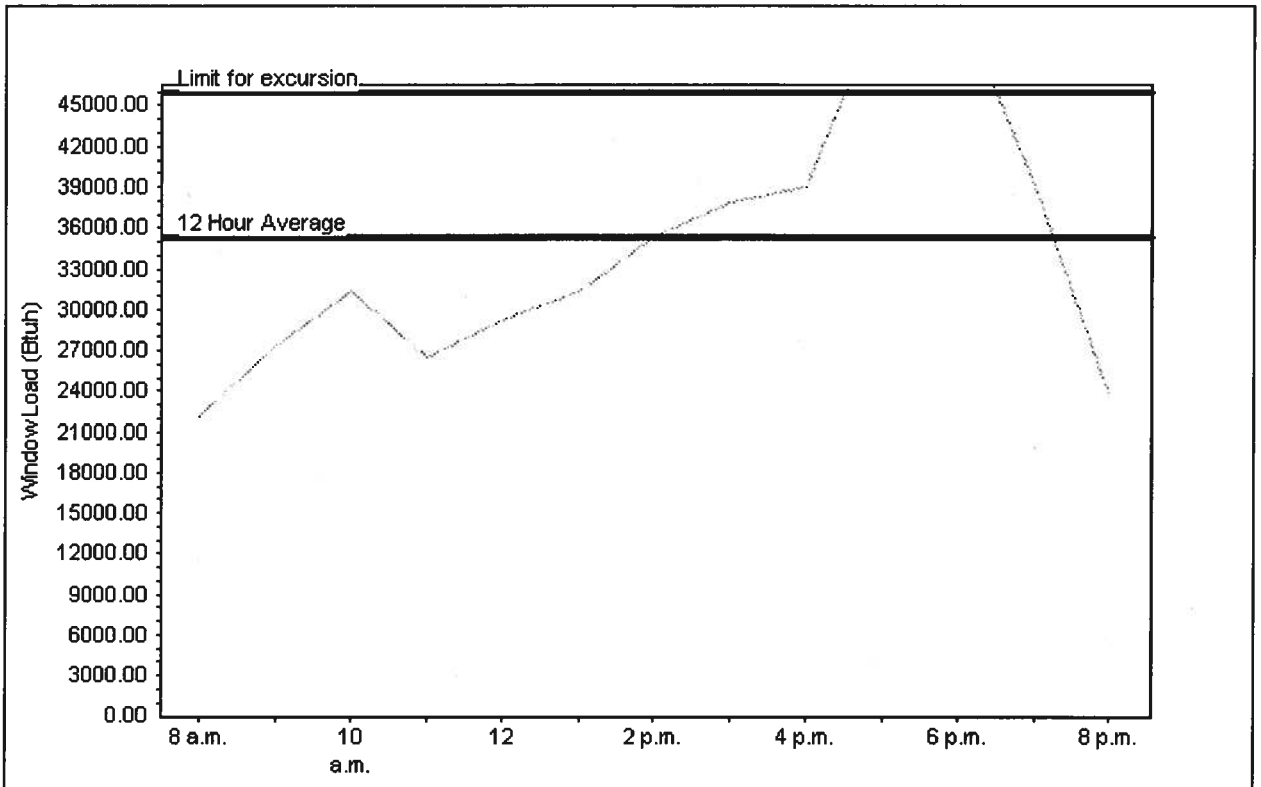
Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	35331 Btu
Summer setpoint	75 F	Peak window load for July	53074 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	45930 Btu
Latitude	29 North	Window excursion (July)	7144 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 11-27-06

25344

PREPARED BY:
Charles Hill
Robertson & Anschutz
10333 Richmond Avenue, Suite 550
Houston, TX 77042

AFTER RECORDED RETURN TO:

Bank of America, N.A.
9000 Southside Blvd., Ste. 700
Jacksonville, FL 32256

Inst:2006029797 Date:12/19/2006 Time:15:23
DC,P.DeWitt Cason,Columbia County B:1105 P:969

NOTICE OF COMMENCEMENT

Permit No. _____ Tax Folio No. _____

State of Florida
County of Columbia

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Legal description of property (include street address, if available)
7734 Southwest County Road 240
Lake City, FL 32055

See Exhibit "A" attached hereto and made a part hereof for all purposes

2. General description of improvement(s)

Improvements to custom home

3. Owner information
Name: **Michael J. Covert and Nicole Covert, husband and wife**
Address: **7734 Southwest County Road 240**
Lake City, FL 32055

4. Contractor information
Name: **Bryan Zecher Construction, Inc.**
Address: **Post Office Box 315**
Lake City FL 32056
Phone:

5. Surety
Name: _____
Address: _____
_____
Phone #: _____ Fax #: _____ Amt. of bond: _____

6. Lender
Name: **Bank of America, N.A.**
Address: **1201 Main Street, 11th Floor, Dallas, TX 75202-0000**
Phone #: **877-719-6142**

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 09-5S-16-03498-102 **Building permit No.** 000025344

Use Classification SFD/UTILITY **Fire:** 0.00

Permit Holder BRYAN ZECHER **Waste:**

Owner of Building MICHAEL & NICOLE COVERT **Total:** 0.00

Location: 7734 SW CR 240, LAKE CITY, FL

Date: 10/10/2008

Wayne A. Russ

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
 Document ID:1T2E487-Z0117140630

Truss Fabricator: Anderson Truss Company
Job Identification: 6-248---- ~~Greg Mulvihill~~ -- , **Bryan Zecher/ Covert Add.ta
Truss Count: 150
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software,Versions 7.24, 7.31.
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. As shown on attached drawings; the drawing number is preceded by: HCUSR487

Details: BRCLBSUB-CNBRGBLK-PIGBACKA-PIGBACKB-

Seal Date: 11/17/2006

-Truss Design Engineer-
Arthur R. Fisher
Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844

#	Ref Description	Drawing#	Date
1	52594--A1	06321035	11/17/06
2	52595--A2	06321144	11/17/06
3	52596--A3	06321026	11/17/06
4	52597--A4	06321025	11/17/06
5	52598--A5	06321024	11/17/06
6	52599--A6	06321145	11/17/06
7	52600--A7	06321064	11/17/06
8	52601--A8	06321036	11/17/06
9	52602--A9	06321037	11/17/06
10	52603--B1	06321001	11/17/06
11	52604--B2	06321073	11/17/06
12	52605--B3	06321141	11/17/06
13	52606--B4	06321019	11/17/06
14	52607--B5	06321020	11/17/06
15	52608--B6	06321021	11/17/06
16	52609--B7	06321022	11/17/06
17	52610--B8	06321031	11/17/06
18	52611--B9	06321033	11/17/06
19	52612--B10	06321034	11/17/06
20	52613--B11	06321030	11/17/06
21	52614--BB1G	06321001	11/17/06
22	52615--C1	06321002	11/17/06
23	52616--C2	06321136	11/17/06
24	52617--C3	06321007	11/17/06
25	52618--C4	06321137	11/17/06
26	52619--C5	06321138	11/17/06
27	52620--C6	06321072	11/17/06
28	52621--C7	06321011	11/17/06
29	52622--C8	06321004	11/17/06
30	52623--C9	06321146	11/17/06
31	52624--C10	06321147	11/17/06
32	52625--C11	06321148	11/17/06
33	52626--C12	06321003	11/17/06
34	52627--C13	06321069	11/17/06
35	52628--C14	06321008	11/17/06
36	52629--C15	06321009	11/17/06
37	52630--C16	06321010	11/17/06
38	52631--D1	06321122	11/17/06

#	Ref Description	Drawing#	Date
39	52632--D2	06321123	11/17/06
40	52633--D3	06321124	11/17/06
41	52634--D4	06321125	11/17/06
42	52635--D5G	06321126	11/17/06
43	52636--EJ8	06321062	11/17/06
44	52637--EJ5	06321041	11/17/06
45	52638--J50	06321056	11/17/06
46	52639--J70	06321057	11/17/06
47	52640--EJ0	06321053	11/17/06
48	52641--MGR	06321091	11/17/06
49	52642--HJ0	06321052	11/17/06
50	52643--AA1G	06321105	11/17/06
51	52644--HJ7	06321039	11/17/06
52	52645--EJ7	06321045	11/17/06
53	52646--HJ5	06321040	11/17/06
54	52647--J5	06321012	11/17/06
55	52648--J3	06321023	11/17/06
56	52649--J1	06321119	11/17/06
57	52650--HJ4	06321116	11/17/06
58	52651--EJ4	06321120	11/17/06
59	52652--HJBB	06321087	11/17/06
60	52653--EJBB	06321088	11/17/06
61	52654--J1BB	06321089	11/17/06
62	52655--J2BB	06321090	11/17/06
63	52656--CC2	06321006	11/17/06
64	52657--CC1	06321005	11/17/06
65	52658--MGC	06321135	11/17/06
66	52659--MGR	06321074	11/17/06
67	52660--MGS	06321066	11/17/06
68	52661--EJ4K	06321121	11/17/06
69	52662--MGK	06321051	11/17/06
70	52663--HJKK	06321071	11/17/06
71	52664--EJKK	06321085	11/17/06
72	52665--J1KK	06321079	11/17/06
73	52666--J2KK	06321083	11/17/06
74	52667--J3KK	06321082	11/17/06
75	52668--J4KK	06321084	11/17/06
76	52669--HJW1	06321094	11/17/06

#	Ref Description	Drawing#	Date
77	52670--HJW2	06321095	11/17/06
78	52671--EJW	06321102	11/17/06
79	52672--J1W	06321097	11/17/06
80	52673--J2W	06321098	11/17/06
81	52674--J3W	06321099	11/17/06
82	52675--J4W	06321100	11/17/06
83	52676--J5W	06321101	11/17/06
84	52677--FGZ	06321042	11/17/06
85	52678--HJZ1	06321106	11/17/06
86	52679--HJZ2	06321108	11/17/06
87	52680--EJZ	06321112	11/17/06
88	52681--J1Z	06321114	11/17/06
89	52682--J2Z	06321110	11/17/06
90	52683--J3Z	06321111	11/17/06
91	52684--J4Z	06321109	11/17/06
92	52685--HJC1	06321015	11/17/06
93	52686--J3C	06321018	11/17/06
94	52687--J5C	06321016	11/17/06
95	52688--EJC1	06321013	11/17/06
96	52689--EJC2	06321017	11/17/06
97	52690--EJC3	06321142	11/17/06
98	52691--EJC4	06321143	11/17/06
99	52692--K1	06321113	11/17/06
100	52693--K2	06321127	11/17/06
101	52694--K3	06321130	11/17/06
102	52695--K4	06321128	11/17/06
103	52696--KK1	06321065	11/17/06
104	52697--KK2G	06321070	11/17/06
105	52698--01	06321140	11/17/06
106	52699--03	06321117	11/17/06
107	52700--04	06321133	11/17/06
108	52701--02	06321104	11/17/06
109	52702--05	06321134	11/17/06
110	52703--AP1	06321050	11/17/06
111	52704--AP2	06321038	11/17/06
112	52705--AP3	06321032	11/17/06
113	52706--AP4	06321049	11/17/06
114	52707--AP5	06321048	11/17/06

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
 Document ID:1T2E487-Z0117140630

Truss Fabricator:	Anderson Truss Company
Job Identification:	6-248---- Greg Mulvihill -- , **
Truss Count:	150
Model Code:	Florida Building Code 2004
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Versions 7.24, 7.31.
Minimum Design Loads:	Roof - 32.0 PSF @ 1.25 Duration Floor - N/A Wind - 110 MPH ASCE 7-02 -Closed

Seal Date: 11/17/2006

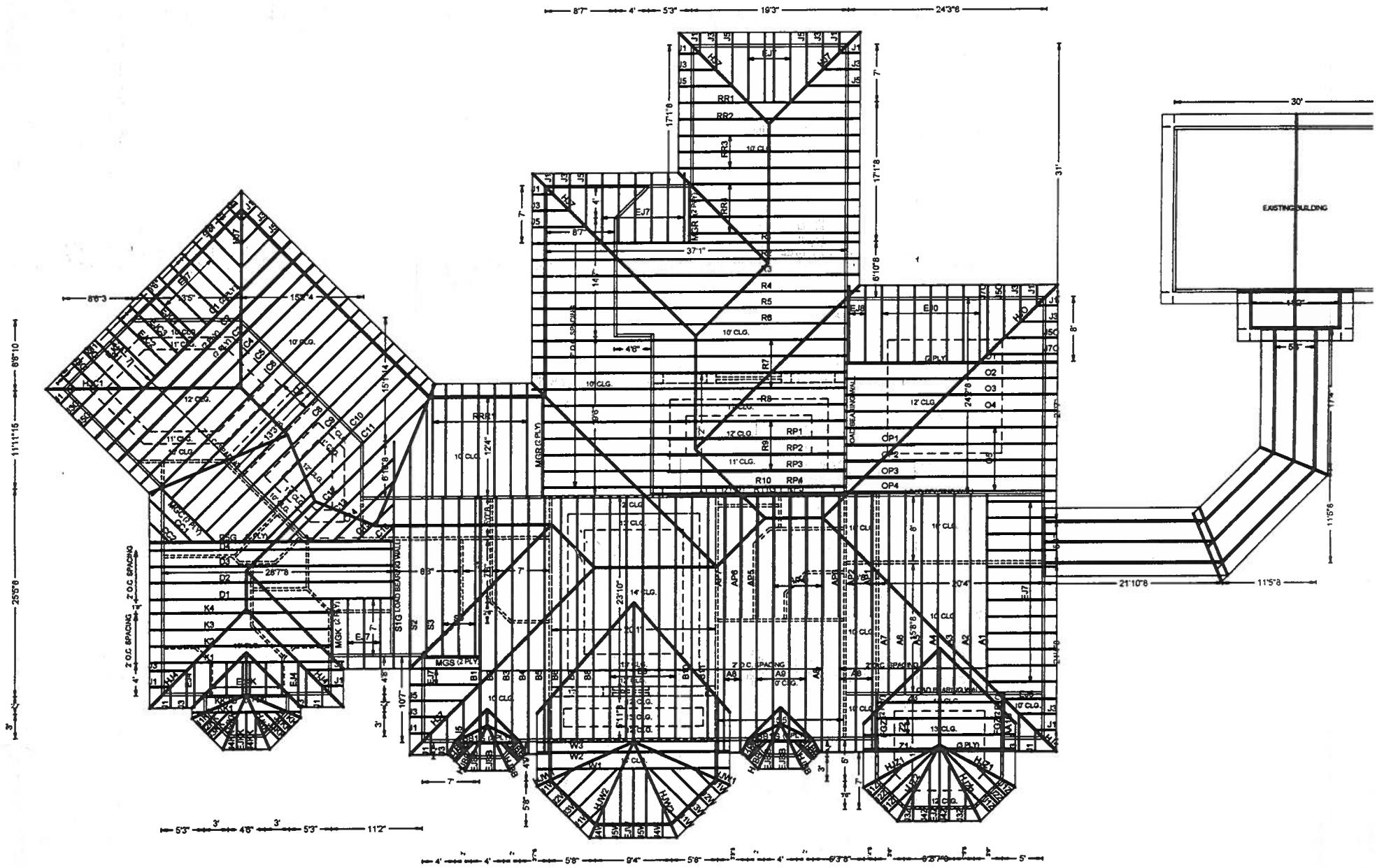
-Truss Design Engineer-
Arthur R. Fisher
Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844

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. As shown on attached drawings; the drawing number is preceded by: HCUSR487

Details: BRCLBSUB-CNBRGBLK-PIGBACKA-PIGBACKB-

#	Ref	Description	Drawing#	Date
115	52708	--AP6	06321047	11/17/06
116	52709	--AP7	06321046	11/17/06
117	52710	--OP1	06321055	11/17/06
118	52711	--OP2	06321058	11/17/06
119	52712	--OP3	06321059	11/17/06
120	52713	--OP4	06321060	11/17/06
121	52714	--RP1	06321080	11/17/06
122	52715	--RP2	06321078	11/17/06
123	52716	--RP3	06321081	11/17/06
124	52717	--RP5	06321115	11/17/06
125	52718	--RR1	06321054	11/17/06
126	52719	--RR2	06321061	11/17/06
127	52720	--RR3	06321063	11/17/06
128	52721	--RR4	06321068	11/17/06
129	52722	--RRR1	06321014	11/17/06
130	52723	--R1	06321086	11/17/06
131	52724	--R2	06321096	11/17/06
132	52725	--R3	06321107	11/17/06
133	52726	--R4	06321118	11/17/06
134	52727	--R5	06321139	11/17/06
135	52728	--R6	06321002	11/17/06
136	52729	--R7	06321076	11/17/06
137	52730	--R8	06321067	11/17/06
138	52731	--R9	06321077	11/17/06
139	52732	--R10	06321075	11/17/06
140	52733	--R11G	06321129	11/17/06
141	52734	--S1G	06321131	11/17/06
142	52735	--S2	06321132	11/17/06
143	52736	--S3	06321028	11/17/06
144	52737	--S4	06321029	11/17/06
145	52738	--W1	06321092	11/17/06
146	52739	--W2	06321103	11/17/06
147	52740	--W3	06321093	11/17/06
148	52741	--Z1	06321027	11/17/06
149	52742	--Z2	06321044	11/17/06
150	52743	--Z3	06321043	11/17/06



#6-248 GREG MULVIHILL - COVERT ADDITION 10/27/06

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W11 2x4 SP #2 Dense:

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

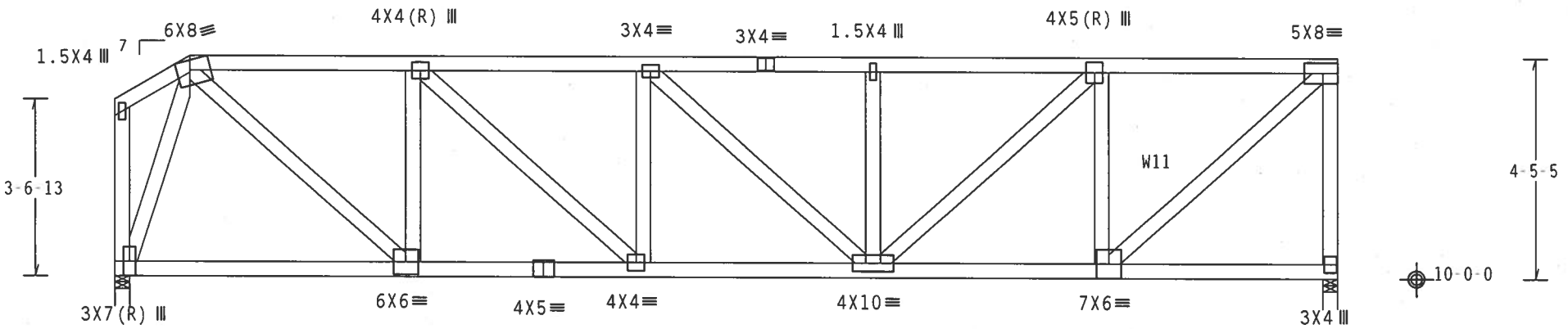
Wind reactions based on MWFRS pressures.

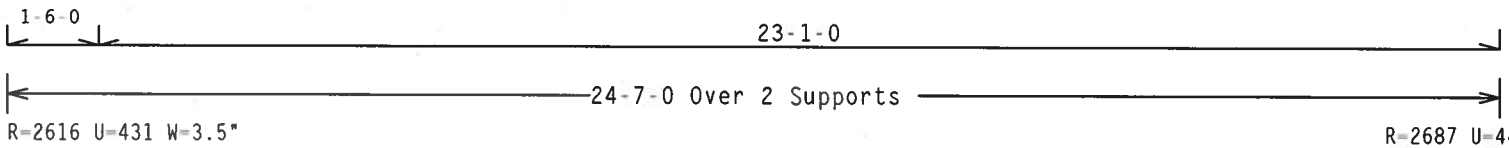
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 24.58
BC - From 20 PLF at 0.00 to 20 PLF at 24.58
TC - 190 LB Conc. Load at 1.56, 3.56, 5.56, 7.56, 9.56 11.56, 13.56, 15.56, 17.56, 19.56, 21.56, 23.56
BC - 82 LB Conc. Load at 1.56, 3.56, 5.56, 7.56, 9.56 11.56, 13.56, 15.56, 17.56, 19.56, 21.56, 23.56

End verticals not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6627

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52594
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321035
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137243
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

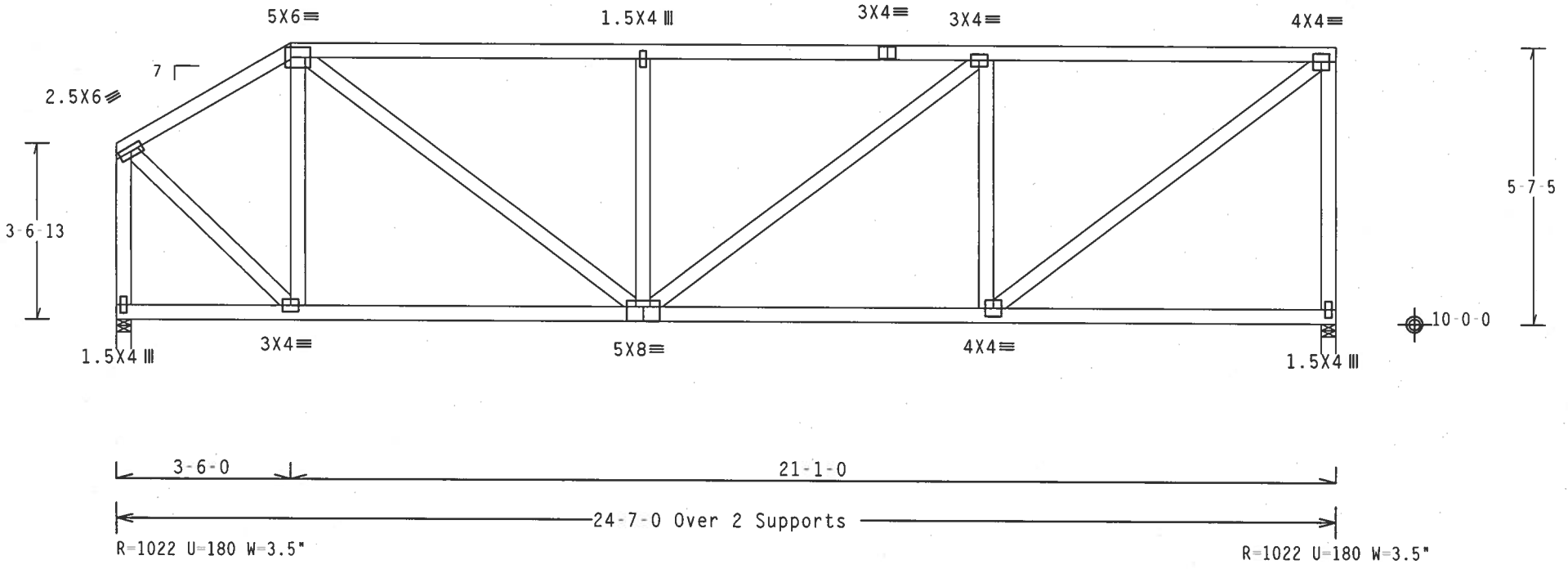
Wind reactions based on MWFRS pressures.

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

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

End verticals not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

PLT TYP. Wave

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 667

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52595
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321144
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137251
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

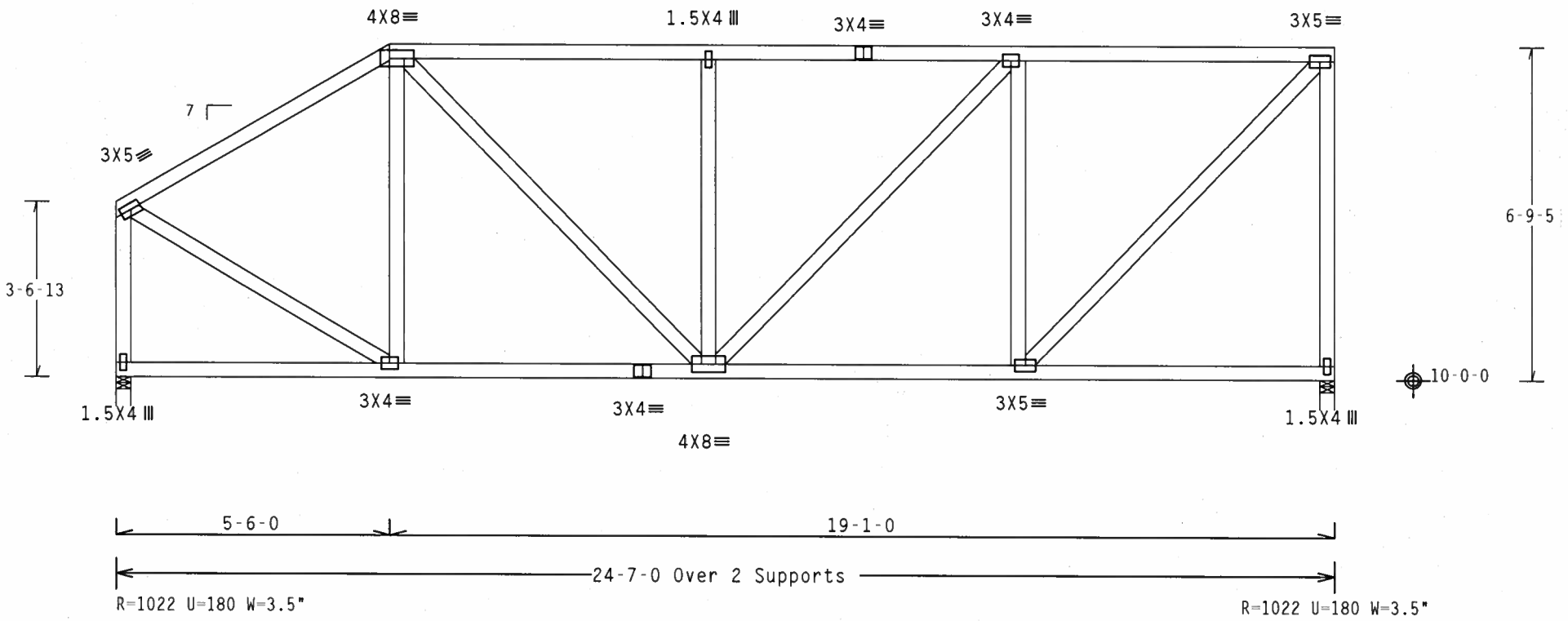
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.17 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.3125"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52596
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321026
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137258
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

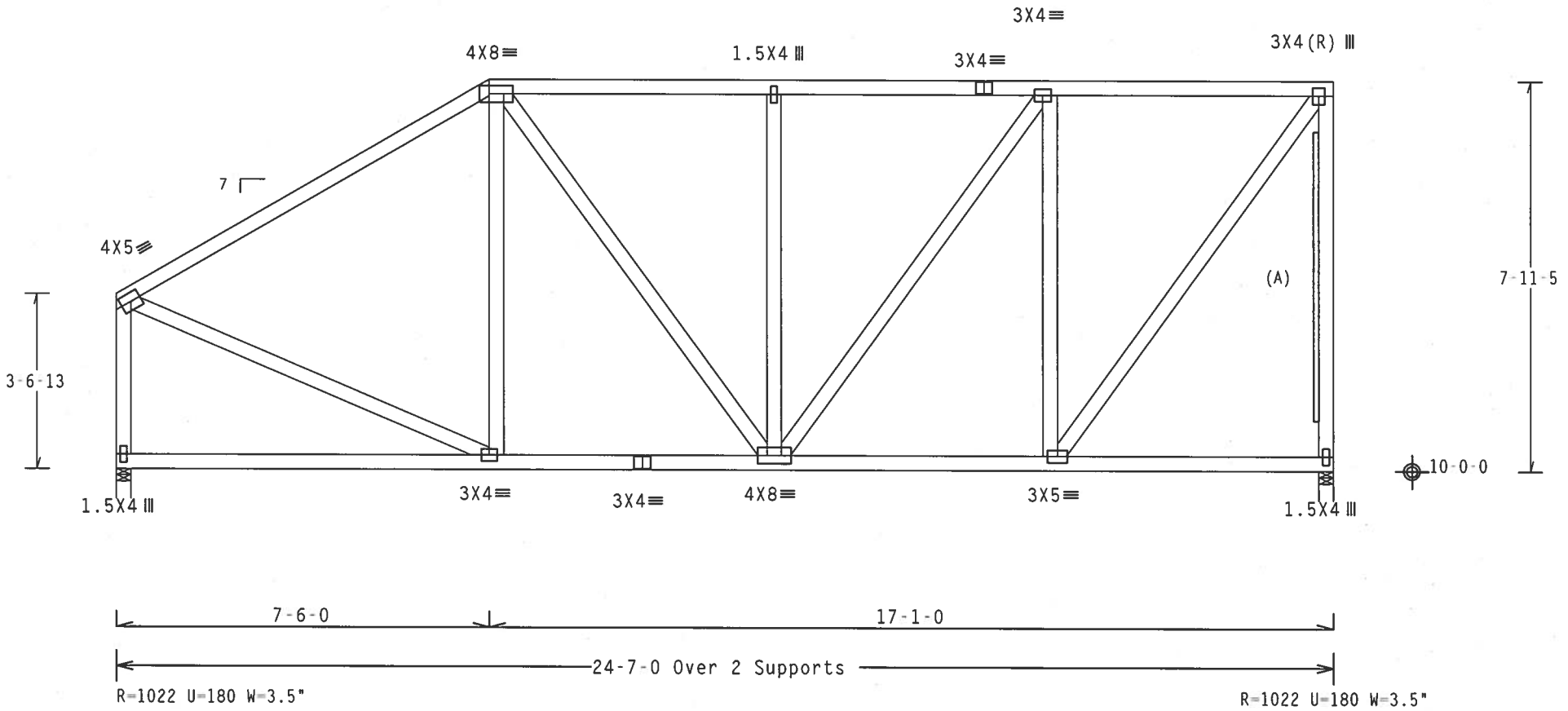
(A) 1x4 SP #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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

110 mph wind, 15.75 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # 6[illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52597
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321025
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137264
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

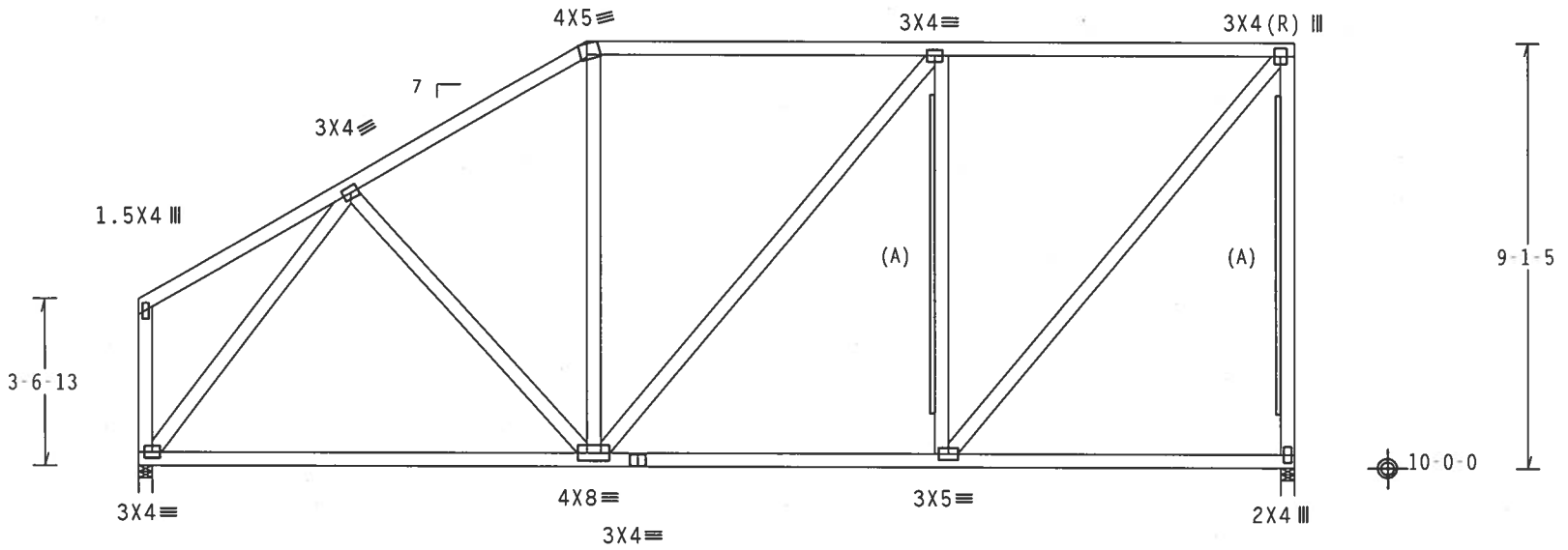
(A) 1x4 SP #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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

110 mph wind, 16.34 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

Scale =.25"/Ft.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52598
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321024
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137271
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

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

Wind reactions based on MWFRS pressures.

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

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

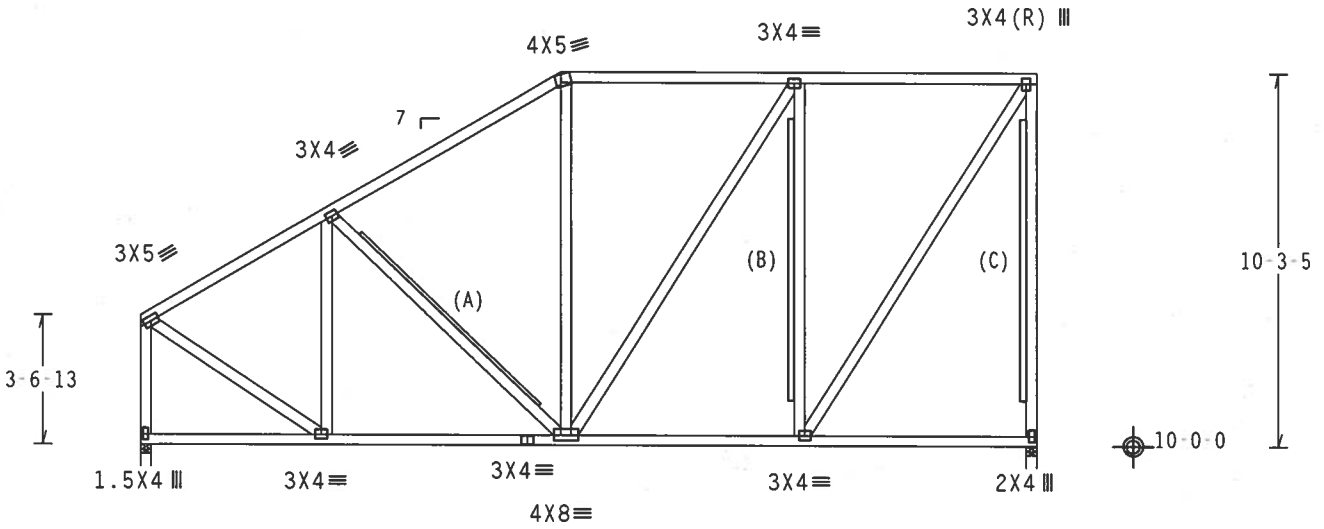
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

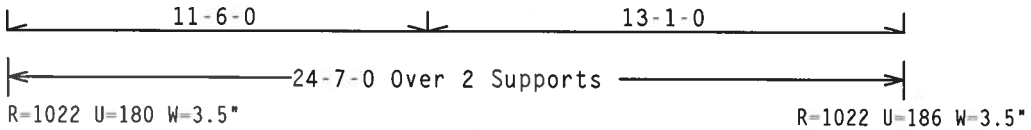
110 mph wind, 16.92 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

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

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52599
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321145
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137280
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

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

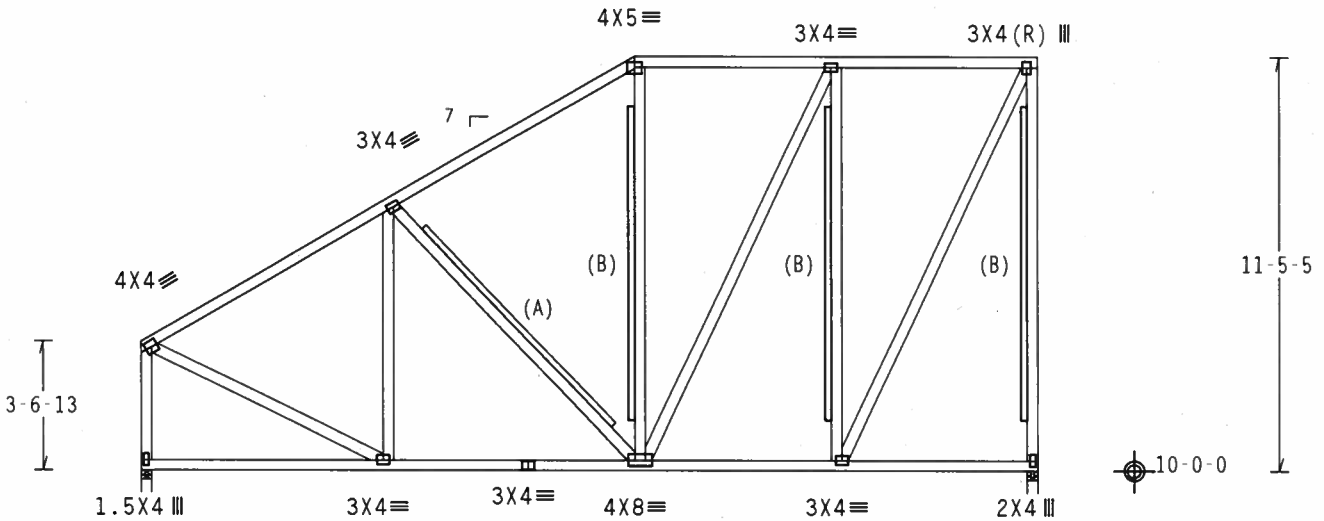
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 17.50 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 KAY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

Nov 17 '06

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate Authorization #

TC LL	20.0 PSF	REF R487-- 52600
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321064
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137286
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

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

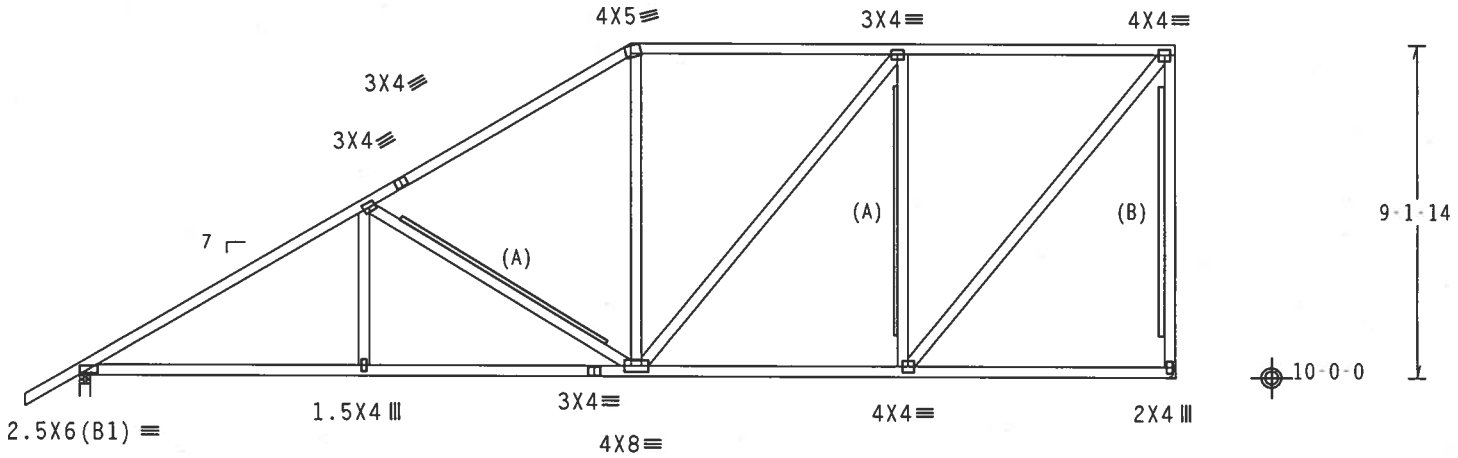
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

Right end vertical not exposed to wind pressure.

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 [illegible] KEY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
[illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

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

Nov 17 06

TC LL	20.0 PSF	REF R487-- 52601
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321036
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137291
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

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

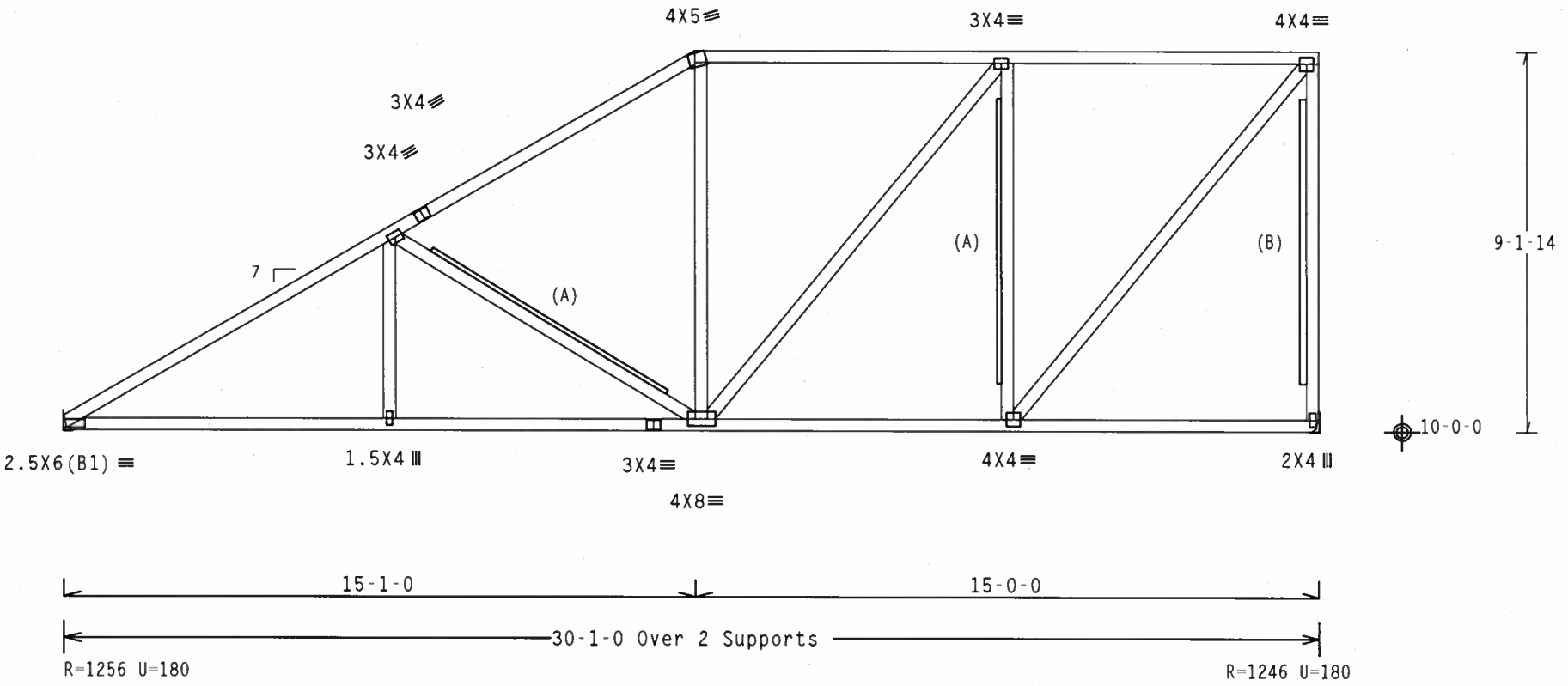
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

Right end vertical not exposed to wind pressure.

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 1 '06

TC LL	20.0 PSF	REF	R487-- 52602
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321037
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137299
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_Z01

Top chord 2x6 SP #2 :T1 2x4 SP #2 Dense:
Bot chord 2x8 SP SS
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 30.08
BC - From 20 PLF at 0.00 to 20 PLF at 30.08
TC - 190 LB Conc. Load at 7.06, 9.06
BC - 428 LB Conc. Load at 7.00
BC - 82 LB Conc. Load at 9.06
BC - 1876 LB Conc. Load at 10.46

Wind reactions based on MWFRS pressures.

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

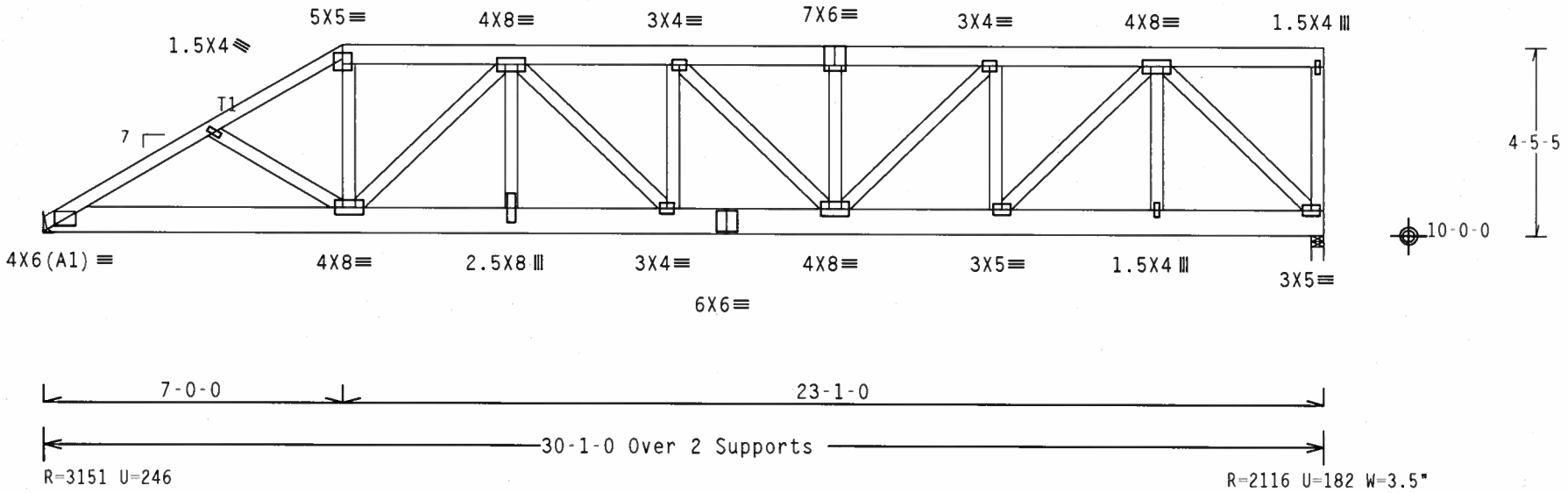
2 COMPLETE TRUSSES REQUIRED

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

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

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # [illegible]

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52603
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321001
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137709
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

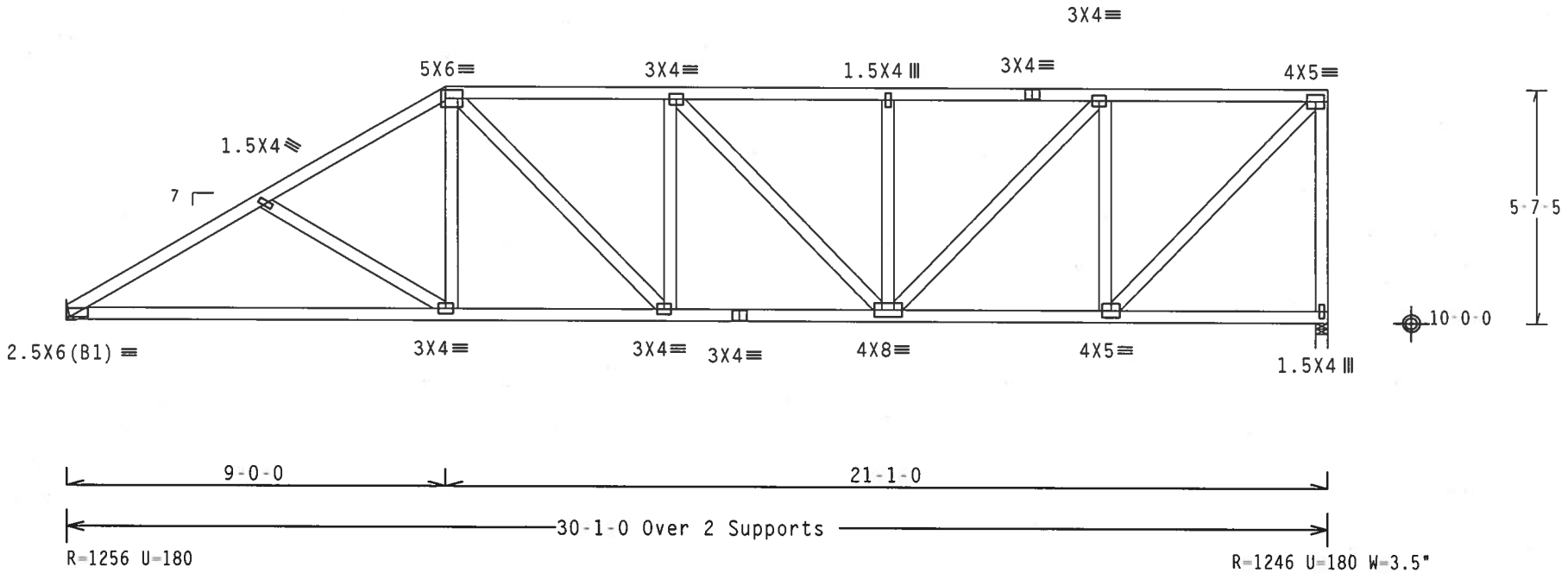
Wind reactions based on MWFRS pressures.

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

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

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52604
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321073
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137506
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_Z01

(6-248---- Greg Mulvihill -- , ** - B3)

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

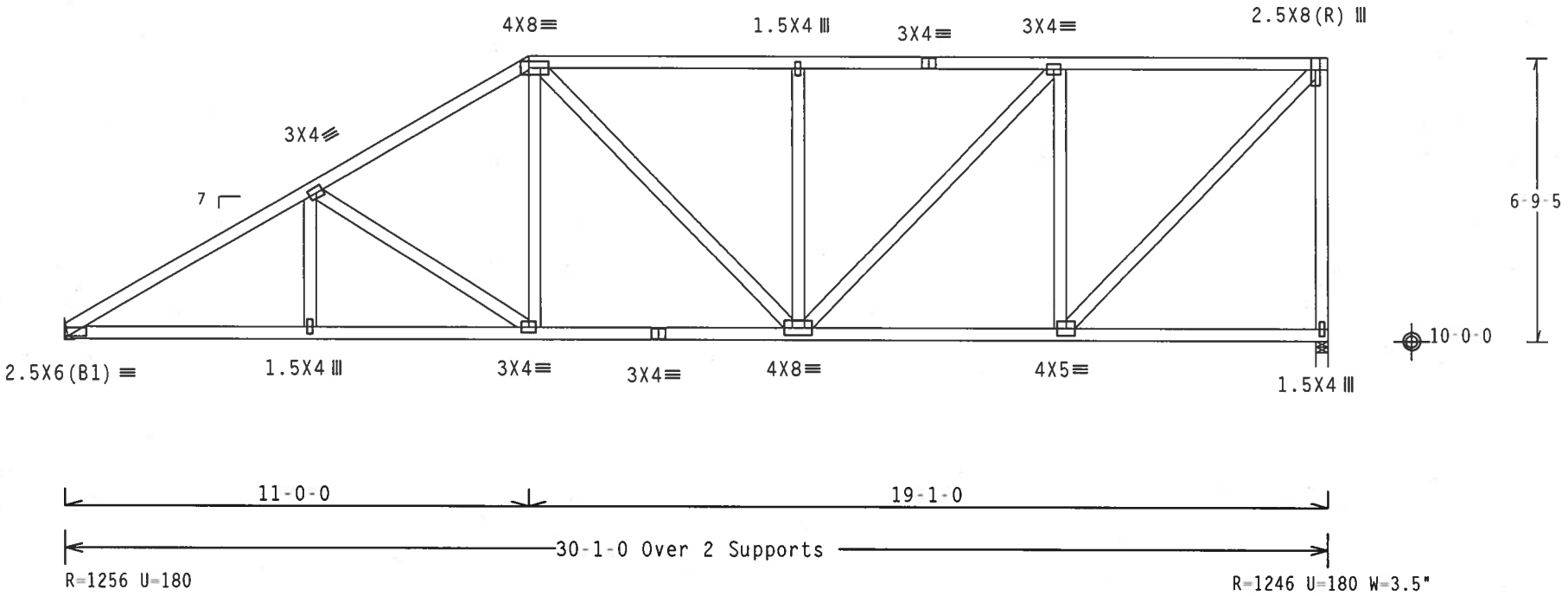
Wind reactions based on MWFRS pressures.

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

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

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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ARTHUR R. FISHER
LICENSE
No.59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52605
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321141
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137500
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

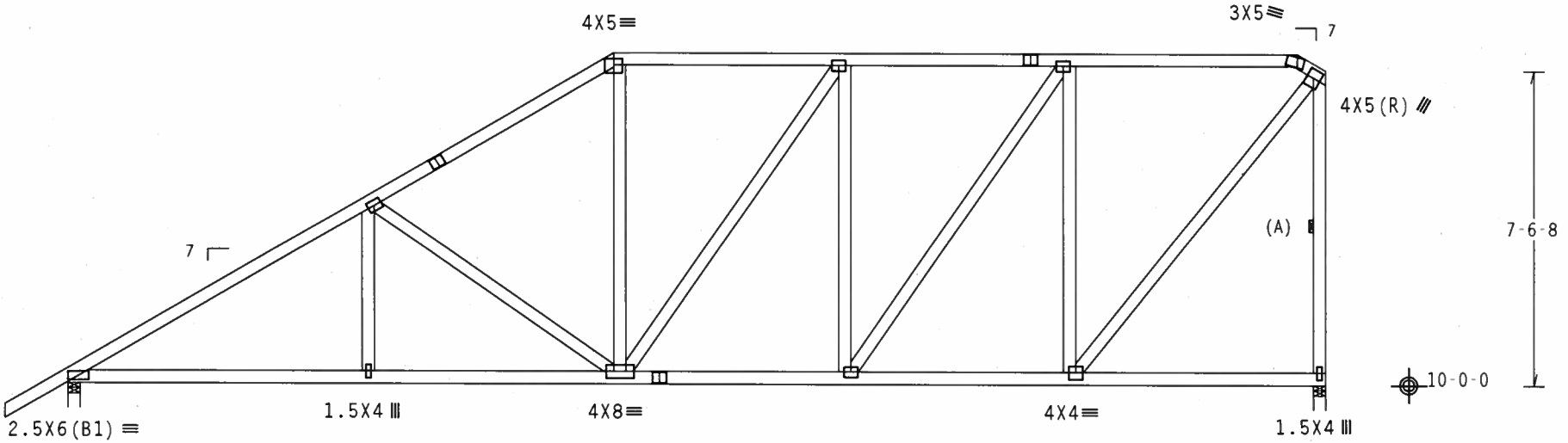
(A) Continuous lateral bracing equally spaced on member.

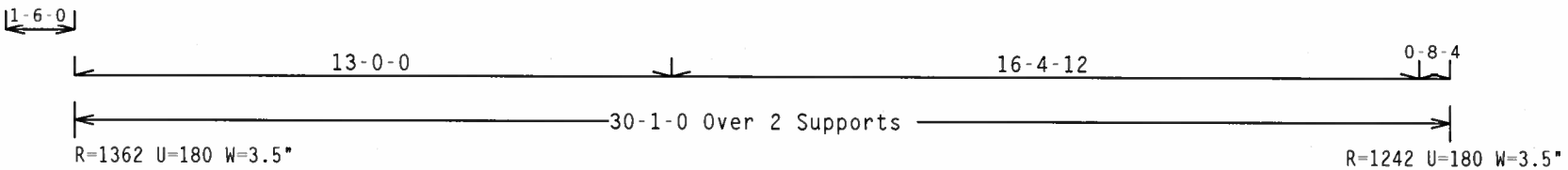
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

Right end vertical not exposed to wind pressure.

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





Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

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Certificate of Authorization #

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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52606
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321019
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137494
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T?F487_Z01

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

Wind reactions based on MWFRS pressures.

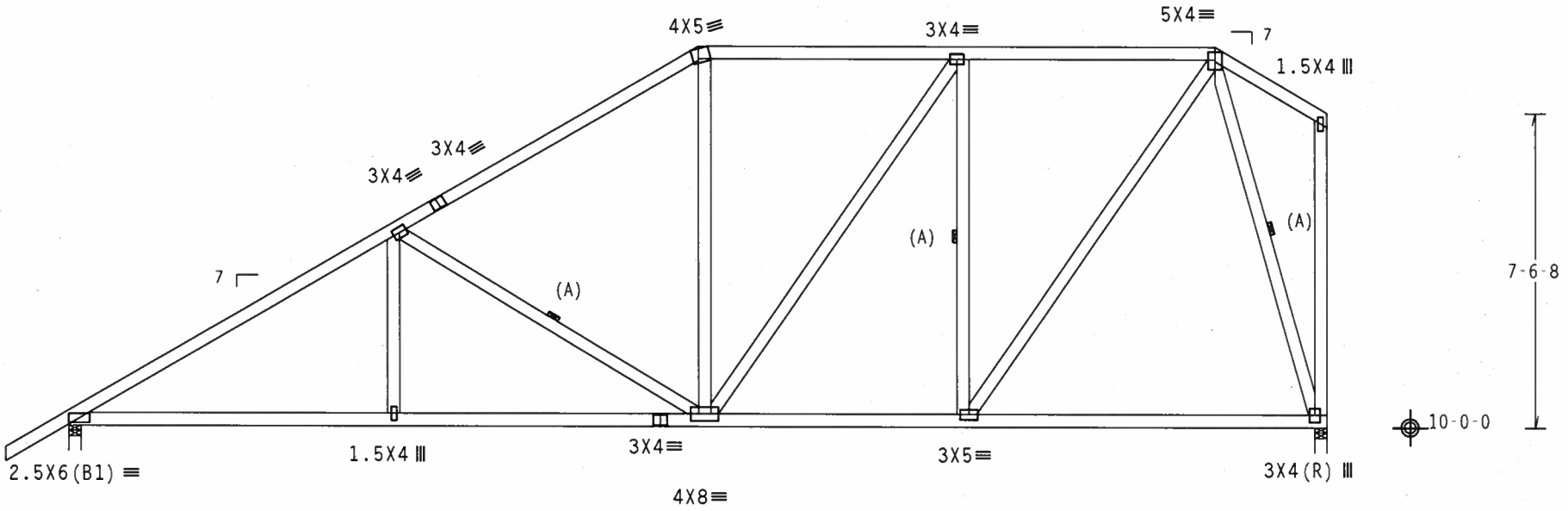
(A) Continuous lateral bracing equally spaced on member.

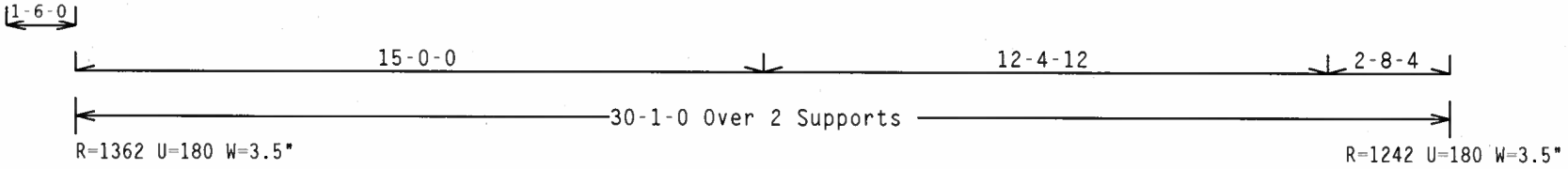
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

Right end vertical not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cg/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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

Nov 17 '06

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
The Certificate of Authorization # [illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/SS/K) ASTM A653 GRADE 40/60 (W. K/H.SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

TC LL	20.0 PSF	REF R487-- 52607
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321020
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137484
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

Max JT VERT DEFL: LL: 0.20" DL: 0.33" recommended camber 1/2"

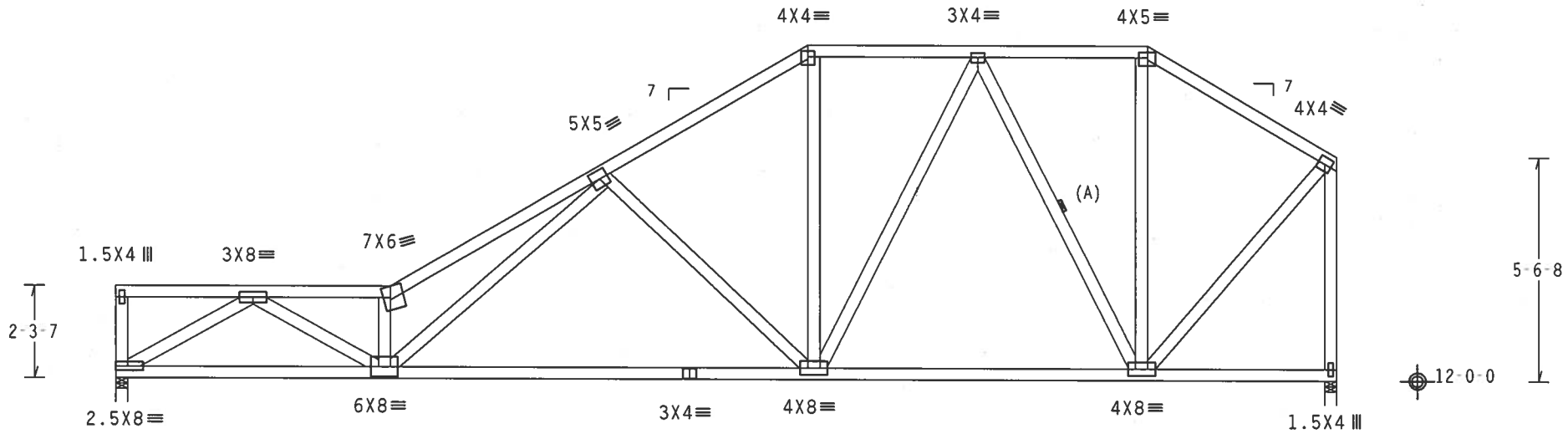
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

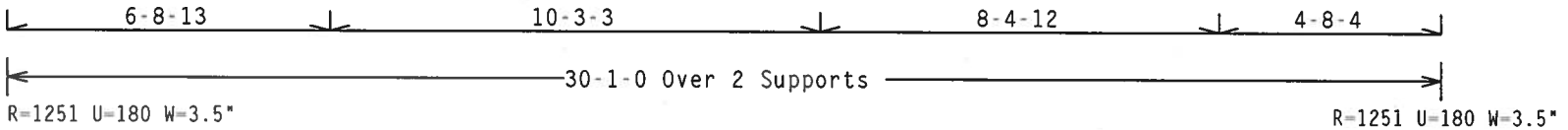
110 mph wind, 17.28 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

ARTHUR R. FISHER LICENSE No.59987 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52608
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321021
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137475
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

Max JT VERT DEFL: LL: 0.15" DL: 0.24" recommended camber 3/8"

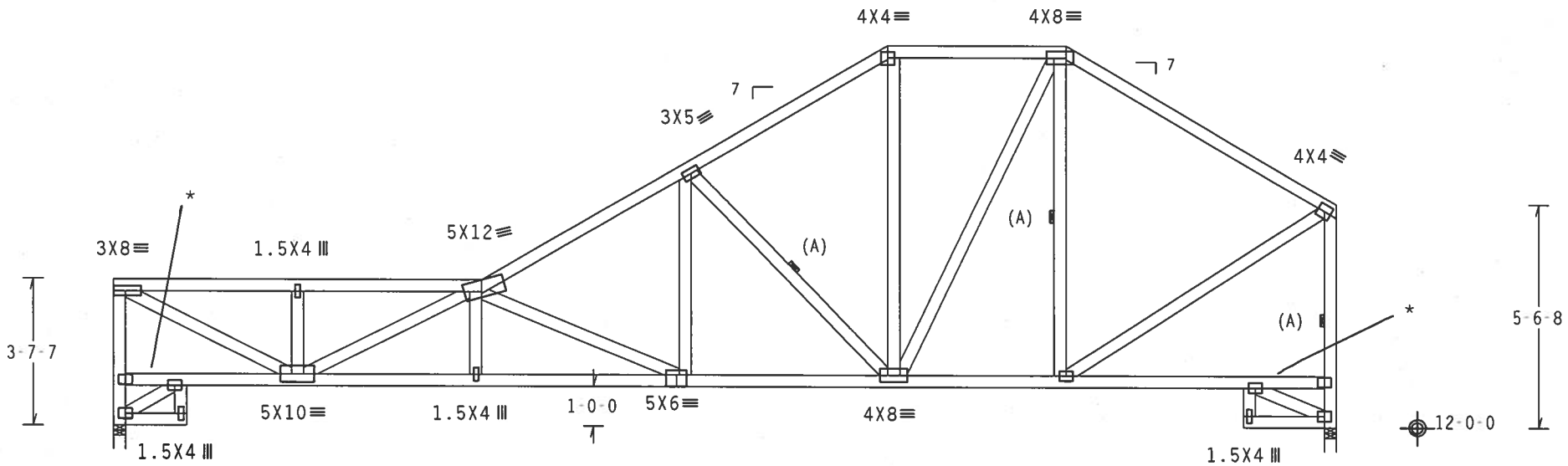
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

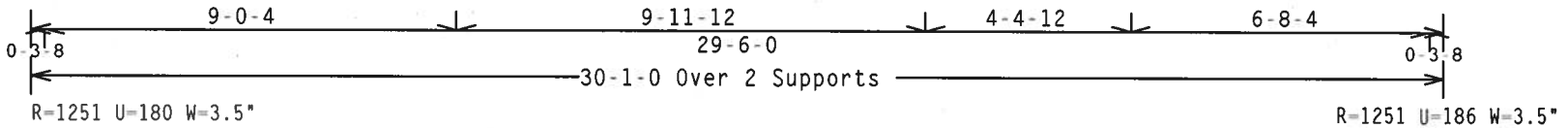
* MEMBER MUST BE BRACED @ 24"OC.

110 mph wind, 18.53 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.





Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52609
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321022
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137466
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

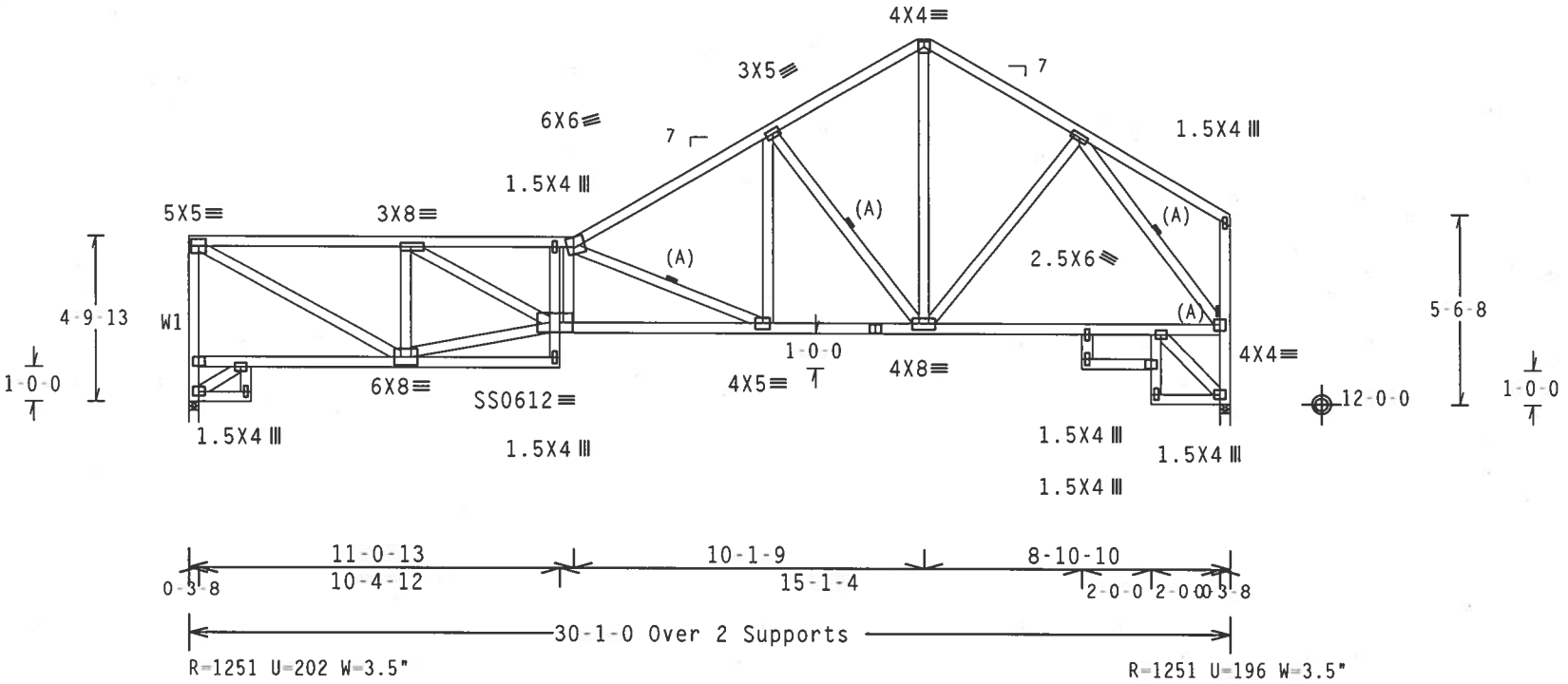
Calculated horizontal deflection is 0.14" due to live load and 0.22" due to dead load.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

110 mph wind, 19.71 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

Max JT VERT DEFL: LL: 0.19" DL: 0.31" recommended camber 1/2"



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. 18 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.24.[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate [illegible]zation #

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
NOV 17 '06

TC LL	20.0 PSF	REF R487-- 52610
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321031
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137458
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

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

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

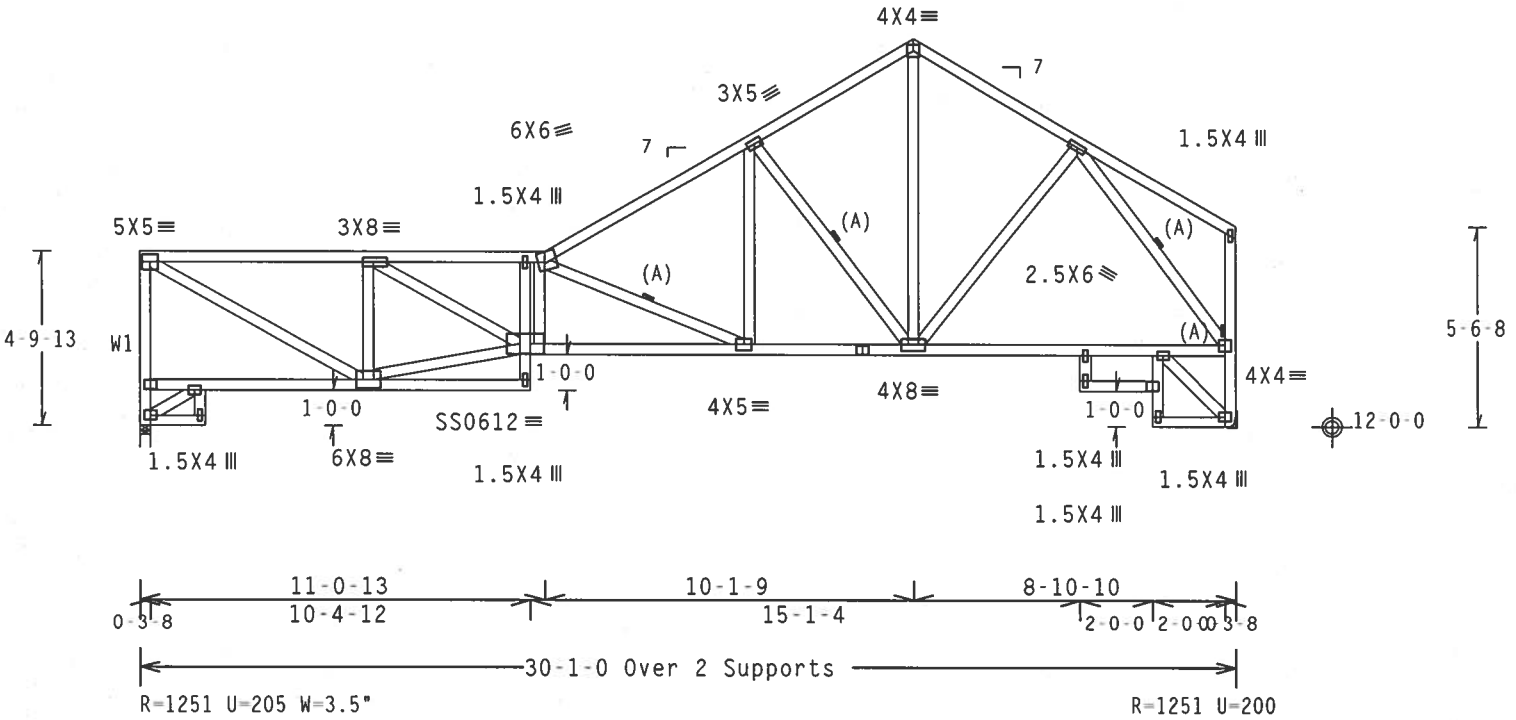
SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

110 mph wind, 19.77 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

Max JT VERT DEFL: LL: 0.19" DL: 0.31" recommended camber 1/2"

(A) Continuous lateral bracing equally spaced on member.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. 18 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate Authorization #

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER
LICENSE
No.59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52611
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321033
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137451
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

Max JT VERT DEFL: LL: 0.25" DL: 0.40" recommended camber 5/8"

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

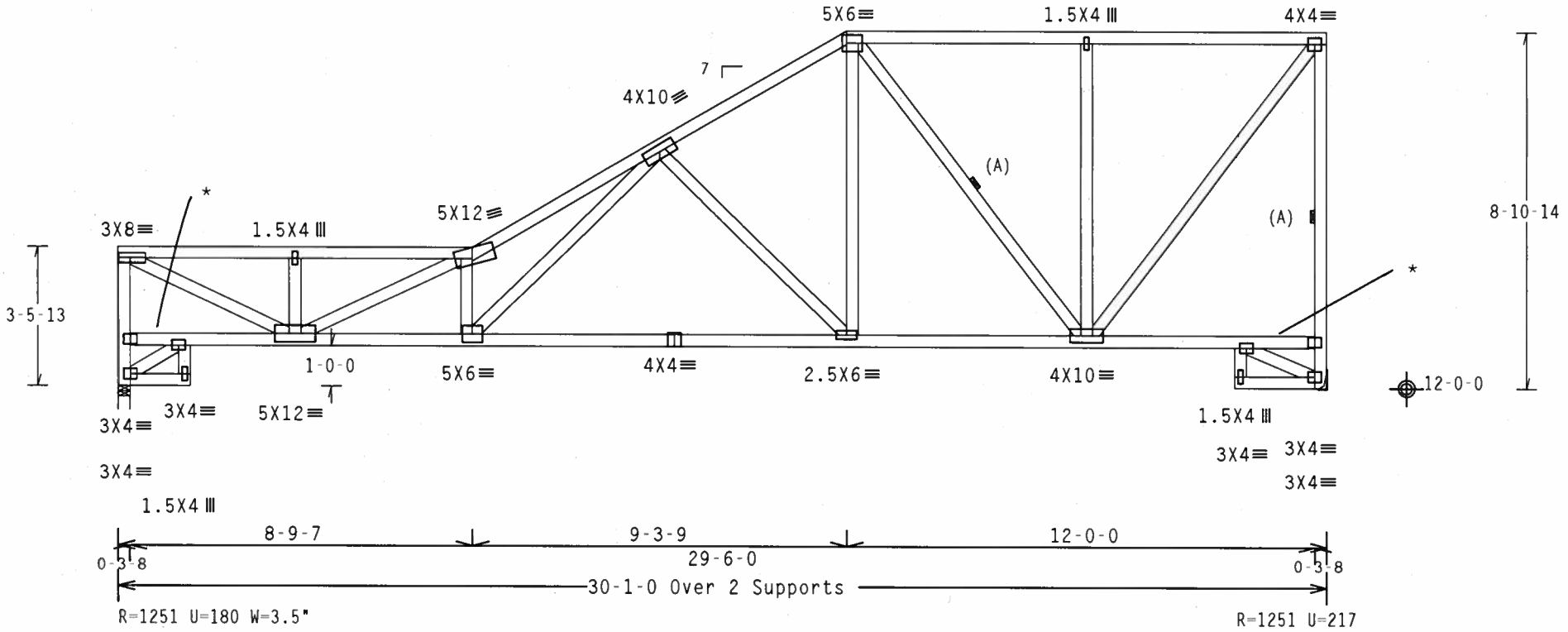
* MEMBER MUST BE BRACED @ 24"OC.

110 mph wind, 18.19 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

Provide for complete drainage of roof.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 662

ARTHUR R. FISHER LICENSE No 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17, 06

TC LL	20.0 PSF	REF R487-- 52612
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321034
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137517
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

Max JT VERT DEFL: LL: 0.17" DL: 0.27" recommended camber 1/2"

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

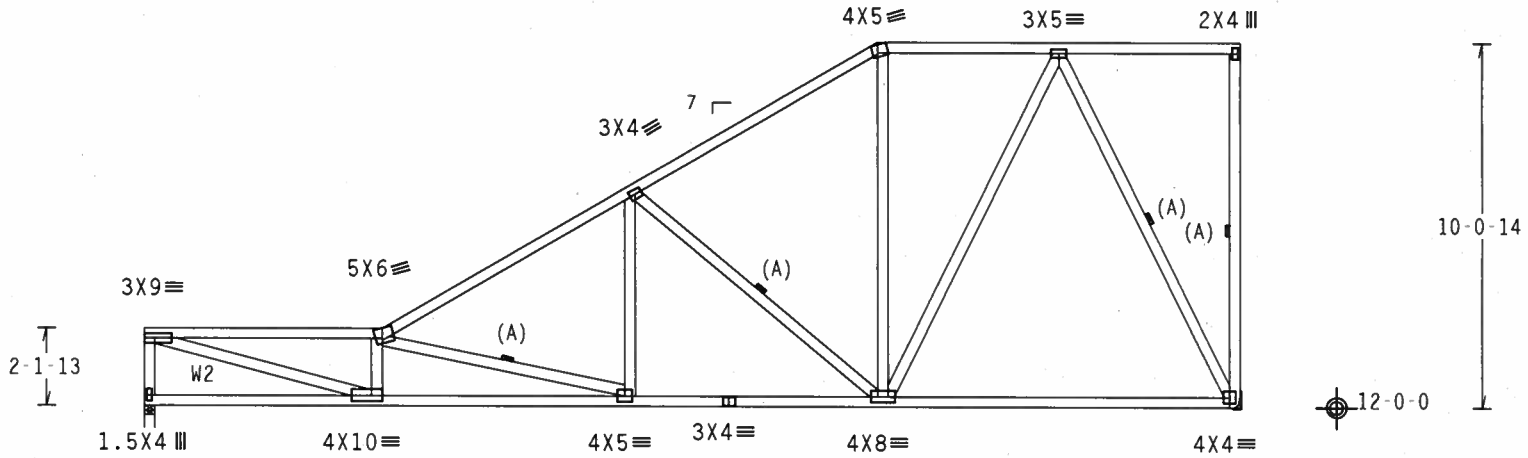
Provide for complete drainage of roof.

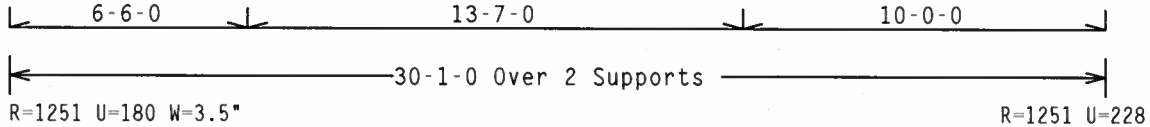
110 mph wind, 18.11 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

PLT TYP. Wave

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 562

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52613
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321030
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137524
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_Z01

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 61 PLF at 0.00 to 61 PLF at 7.50
BC - From 20 PLF at 0.00 to 20 PLF at 7.50
TC - -61 LB Conc. Load at 1.54, 5.96
TC - -26 LB Conc. Load at 1.98, 5.52
TC - -5 LB Conc. Load at 2.63, 4.87
TC - 7 LB Conc. Load at 2.85, 4.65
BC - -17 LB Conc. Load at 1.54, 5.96
BC - -9 LB Conc. Load at 1.98, 5.52
BC - -5 LB Conc. Load at 2.63, 4.87
BC - 3153 LB Conc. Load at 2.87
BC - 2 LB Conc. Load at 4.65
BC - 1256 LB Conc. Load at 4.81, 6.81

-----OR-----

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at 0.00 to 62 PLF at 7.50
BC - From 619 PLF at 0.00 to 619 PLF at 7.50

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 5.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT I, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

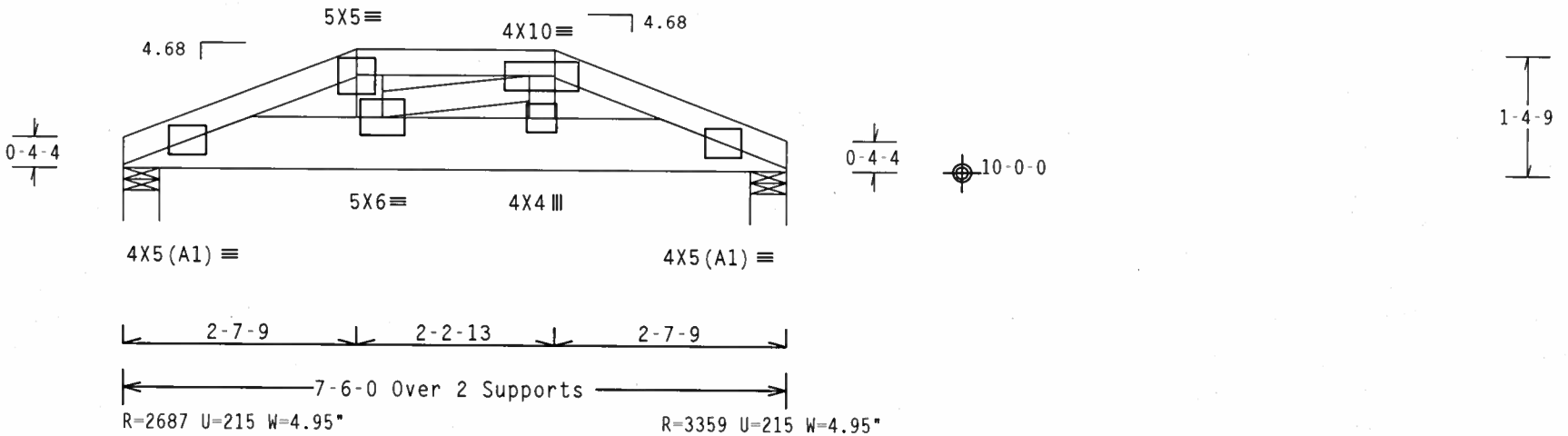
Wind reactions based on MWFRS pressures.

Wind load based on ASCE 7-02 category I occupancy. Restricted to non-residential use with low hazard to human life, such as agricultural use.

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

Girder supports 31-1-0 span to BC one face and 2-0-0 span to TC/BC split opposite face.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/SS/K) ASTM A653 GRADE 40/60 (W. K/H.SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52614
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321001
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEQN- 17540
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2FA87_Z01

Top chord 2x4 SP #2 Dense :T1 2x8 SP SS:
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W9 2x4 SP #2 Dense:

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

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

TC - From	63 PLF	at	0.00	to	63 PLF at 7.00
TC - From	151 PLF	at	7.00	to	151 PLF at 24.17
TC - From	63 PLF	at	24.17	to	63 PLF at 32.67
BC - From	20 PLF	at	0.00	to	20 PLF at 7.00
BC - From	89 PLF	at	7.00	to	89 PLF at 24.17
BC - From	20 PLF	at	24.17	to	20 PLF at 31.17
BC - From	5 PLF	at	31.17	to	5 PLF at 32.67
BC -	500 LB Conc. Load	at	7.00, 24.17		

NOTE:LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 2'0" O.C. MAX. INCLUDING A LATERAL BRACE AT CHORD ENDS.

2 COMPLETE TRUSSES REQUIRED

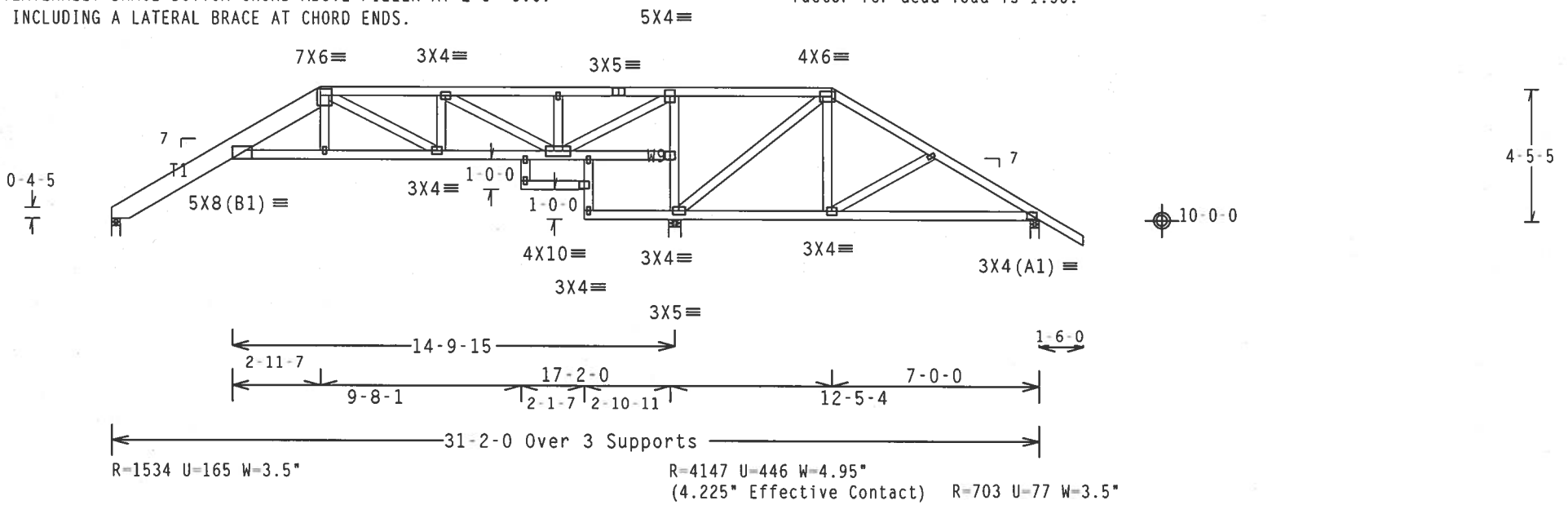
Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.17" due to live load and 0.25" due to dead load.

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



Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.31.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

Nov 17 '06

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 667

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

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TC LL	20.0	PSF	REF R487-- 52615
TC DL	10.0	PSF	DATE 11/17/06
BC DL	10.0	PSF	DRW HCUSR487 06321002
BC LL	0.0	PSF	HC-ENG DAL/AF
TOT.LD.	40.0	PSF	SEQN- 13401 REV
DUR.FAC.	1.25		
SPACING	24.0"		JRFF- 1T2F487_Z01

Top chord 2x4 SP #2 Dense :T1 2x8 SP #1 Dense:
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

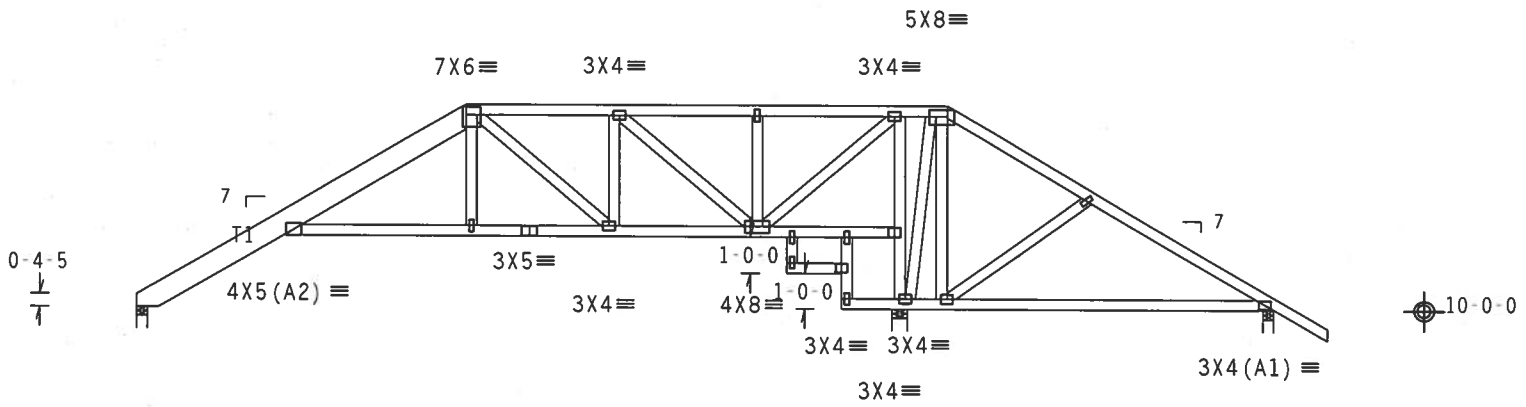
Wind reactions based on MWFRS pressures.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

2 COMPLETE TRUSSES REQUIRED

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

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 562

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION. HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52616
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321136
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137955
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

(6-248---- Greg Mulvihill -- , ** - C3)

Top chord 2x4 SP #2 Dense :T1 2x8 SP #1 Dense:
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

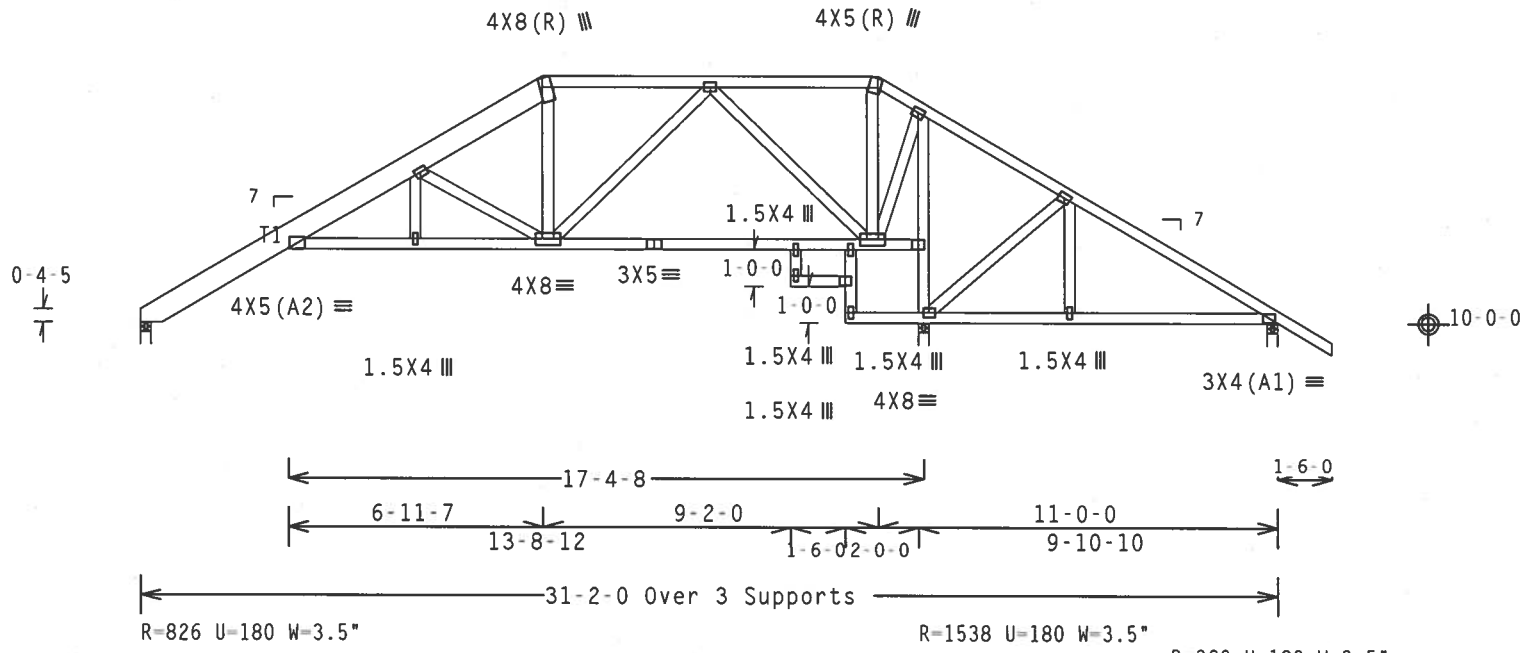
Wind reactions based on MWFRS pressures.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT CHORD ENDS.

2 COMPLETE TRUSSES REQUIRED

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

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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

NOV 17 '06

TC LL	20.0 PSF	REF R487-- 52617
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321007
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137948
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W11 2x4 SP #2 Dense:

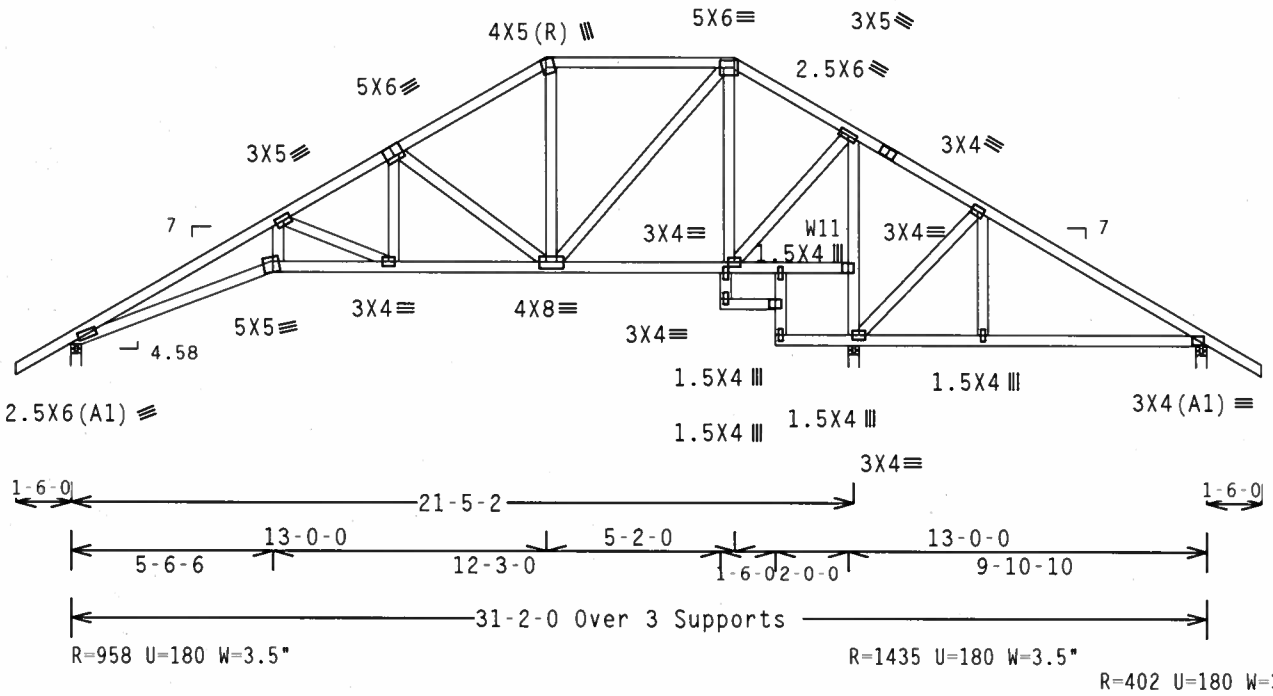
Wind reactions based on MWFRS pressures.

Shim all supports to solid bearing.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6[illegible]

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Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52618
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321137
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137925
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

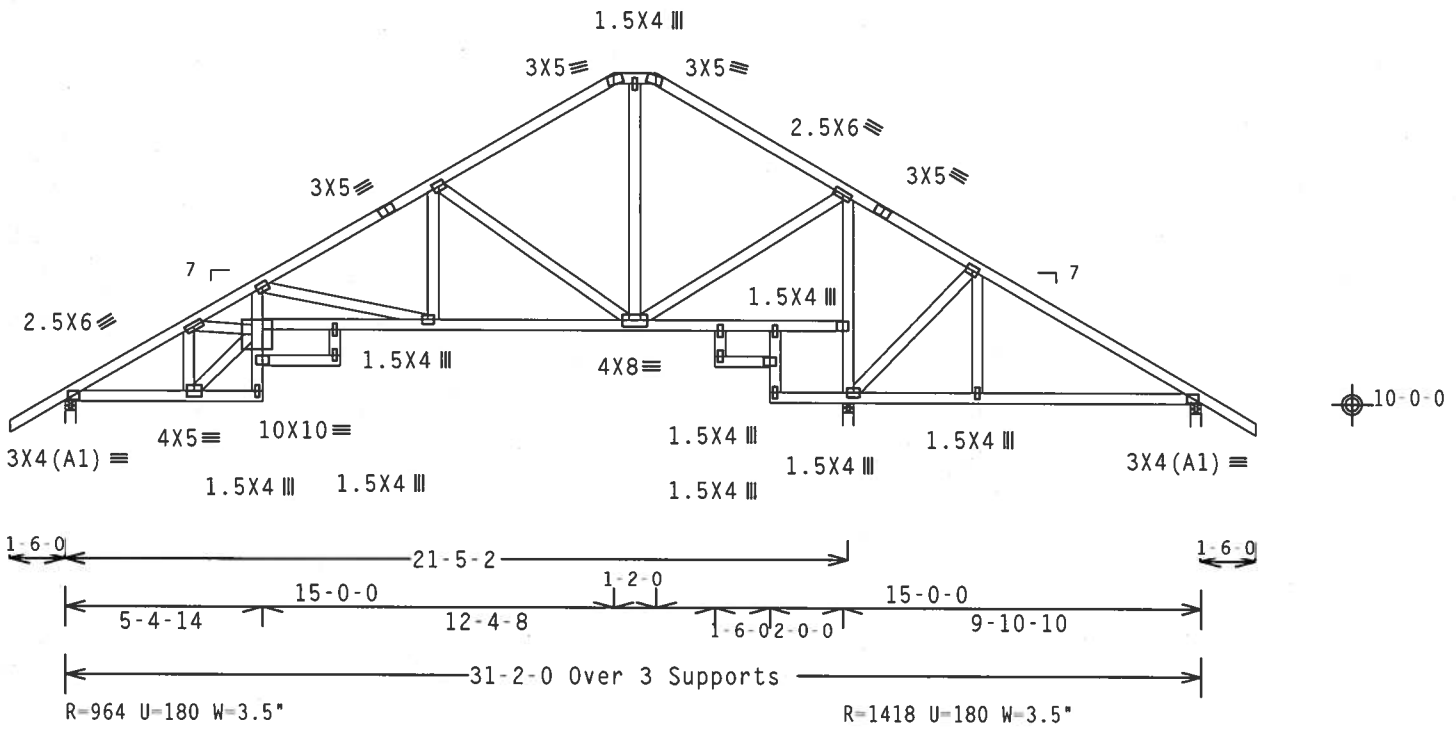
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

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

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6[illegible]

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

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52619
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321138
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137916
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

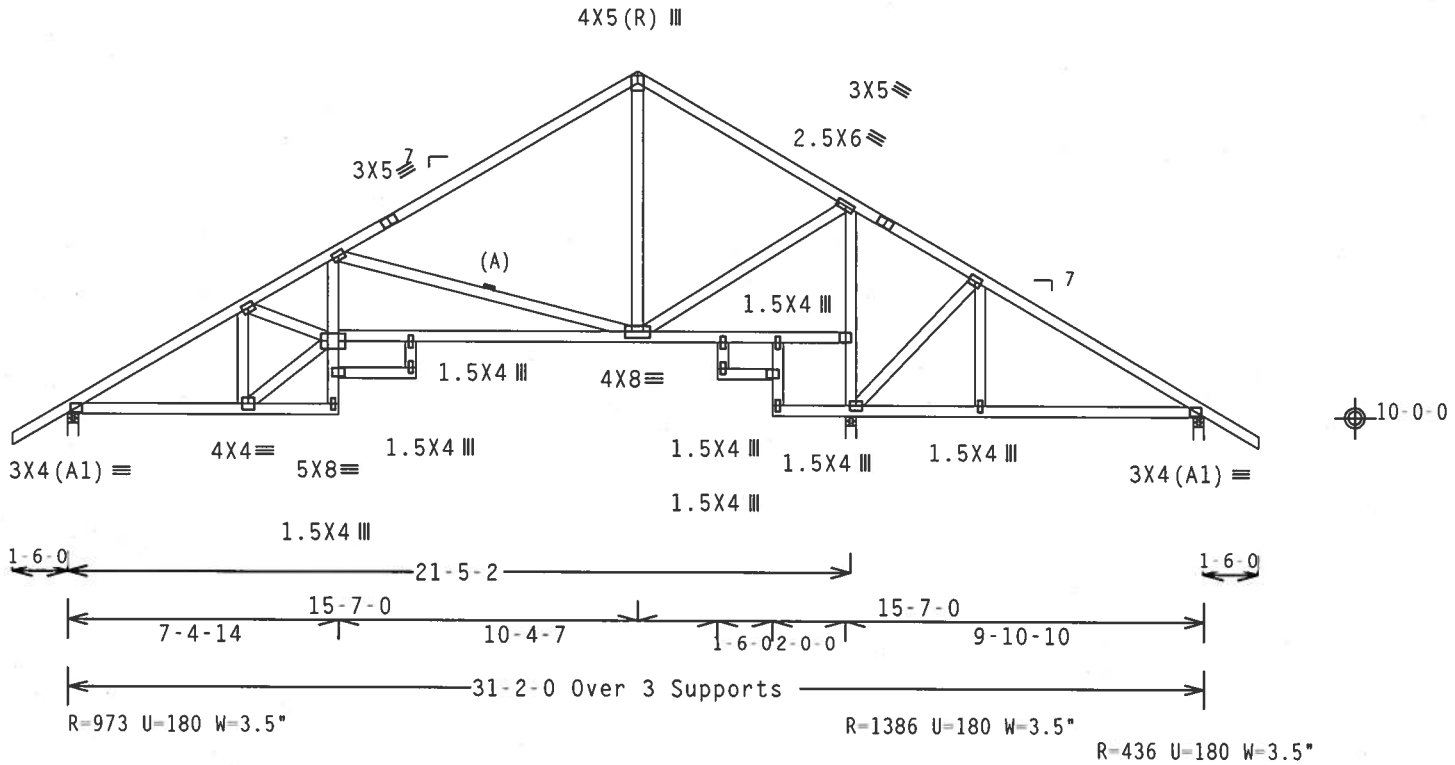
Wind reactions based on MWFRS pressures.

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

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

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

(A) Continuous lateral bracing equally spaced on member. Or 2x4 SP #3 or better "T" brace. 80% length of web member. Attached with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

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Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 06

TC LL	20.0 PSF	REF R487-- 52620
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321072
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137903
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

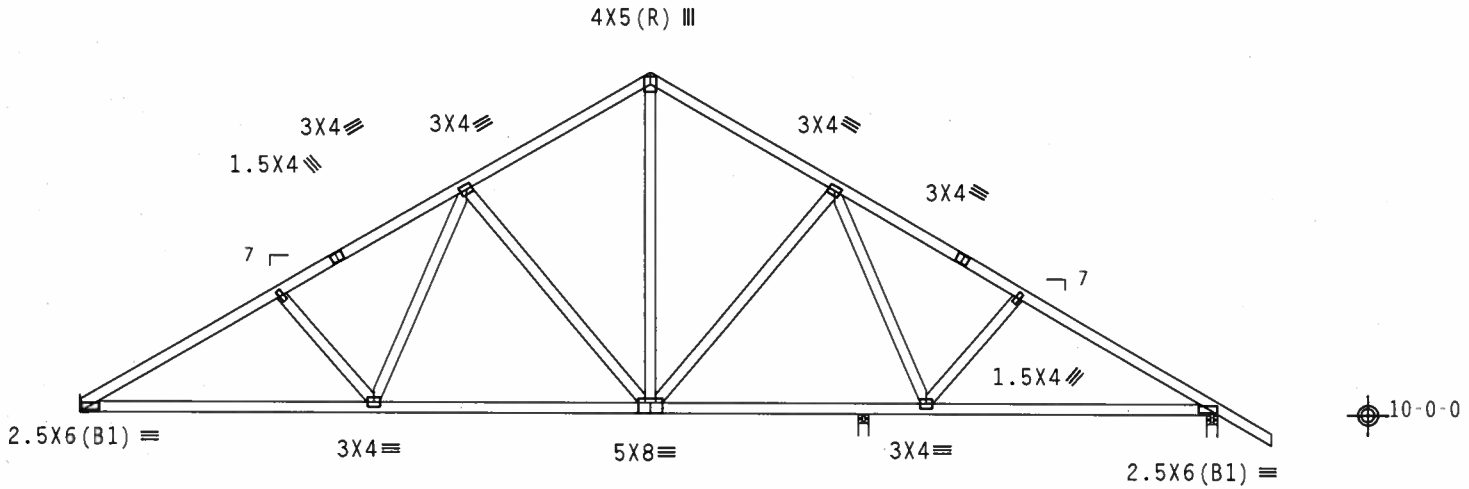
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

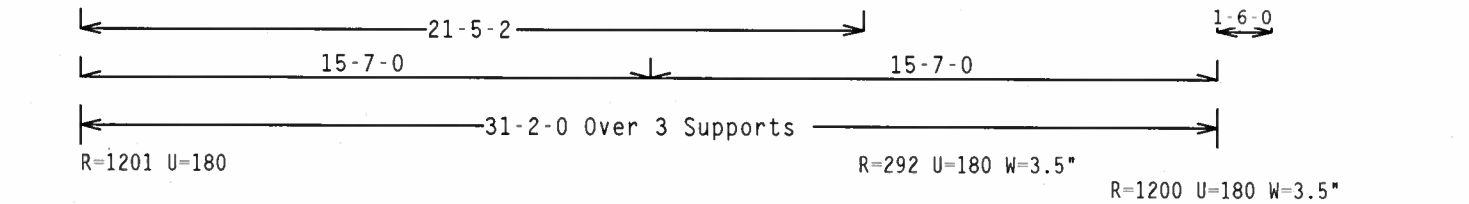
Wind reactions based on MWFRS pressures.

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

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

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 562

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52621
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321011
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137874
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

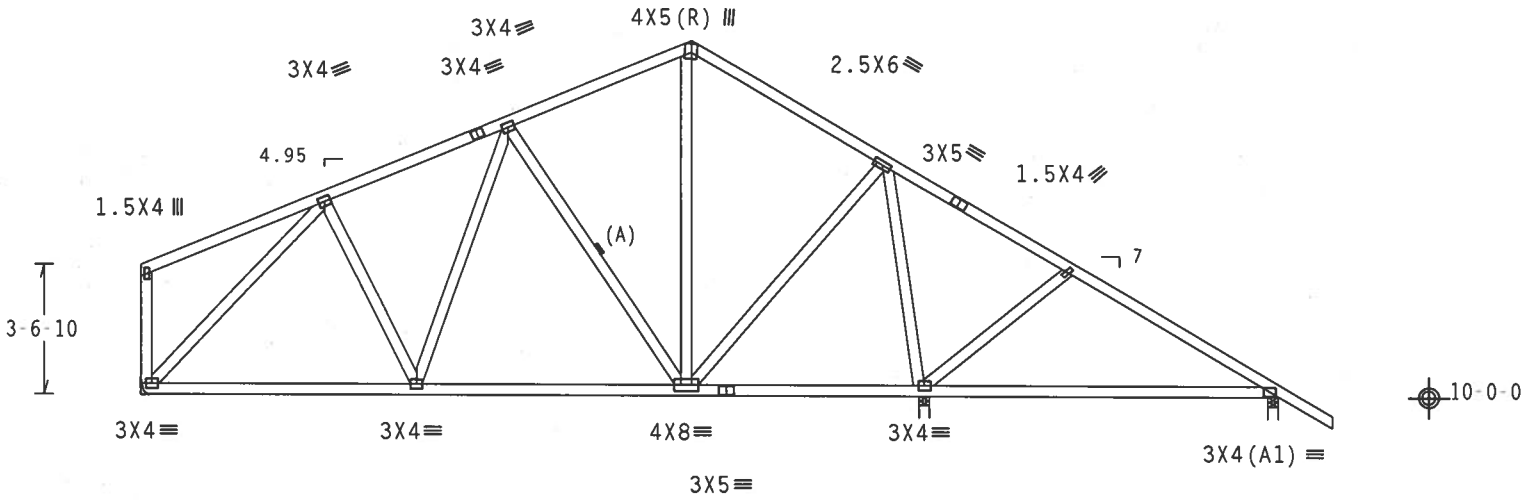
Left end vertical not exposed to wind pressure.

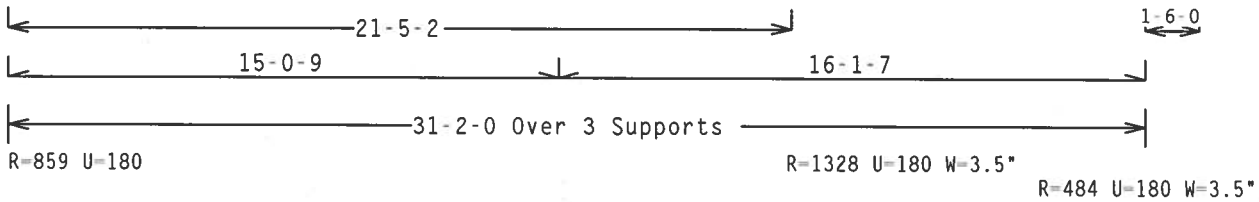
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

(A) Continuous lateral bracing equally spaced on member. Or 1x4 SP #3 or better "T" brace. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6673

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

Nov 17 06

TC LL	20.0 PSF	REF R487-- 52622
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321004
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137869
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

(6-248---- Greg Mulvihill -- , ** - C9)

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

Wind reactions based on MWFRS pressures.

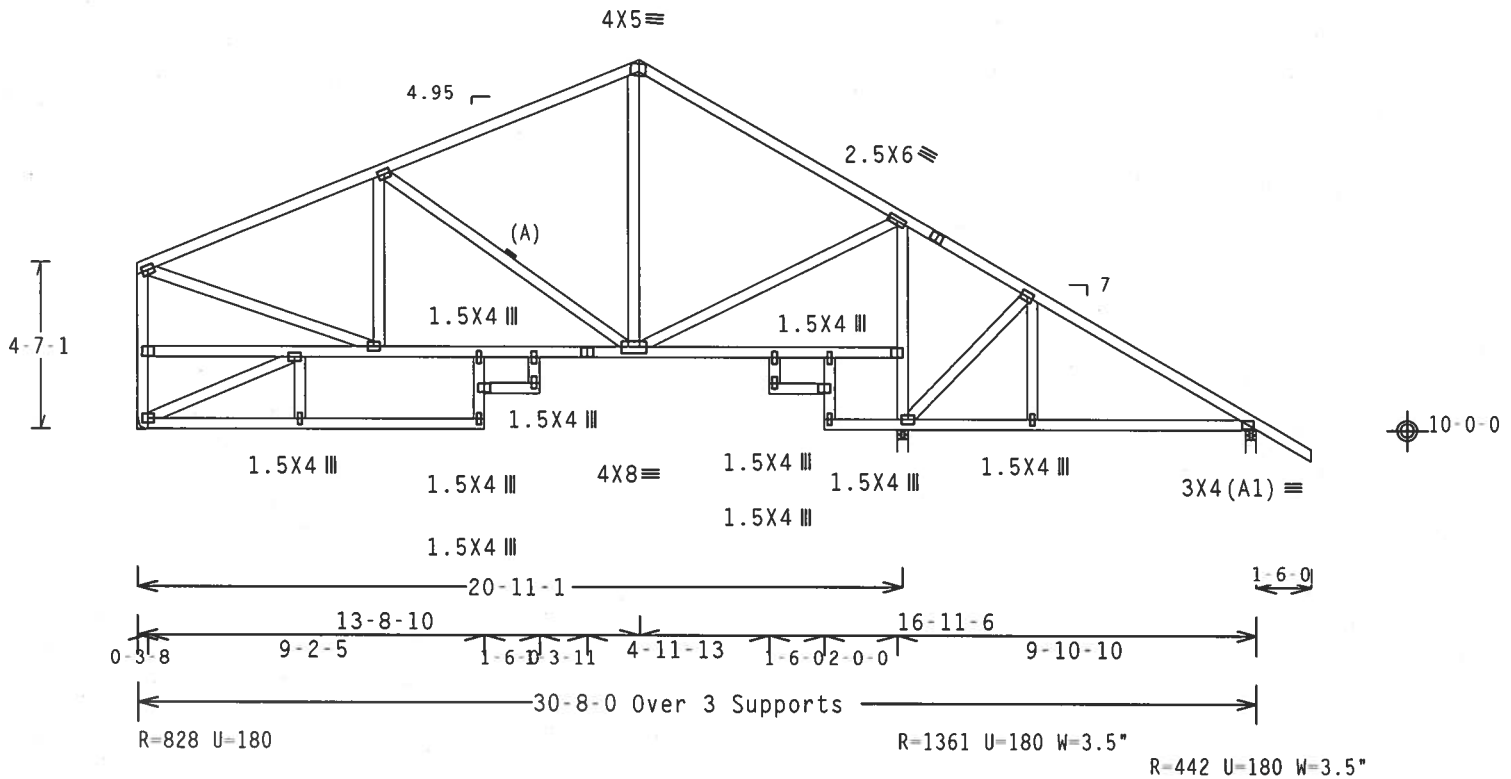
Left end vertical not exposed to wind pressure.

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

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

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

(A) Continuous lateral bracing equally spaced on member. Or 1x4 SP #3 or better "T" brace. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization #

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 17 '06

TC LL	20.0 PSF	REF R487-- 52623
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321146
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137859
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T?F487_Z01

(6-248---- Greg Mulvihill -- , ** - C10)

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

Wind reactions based on MWFRS pressures.

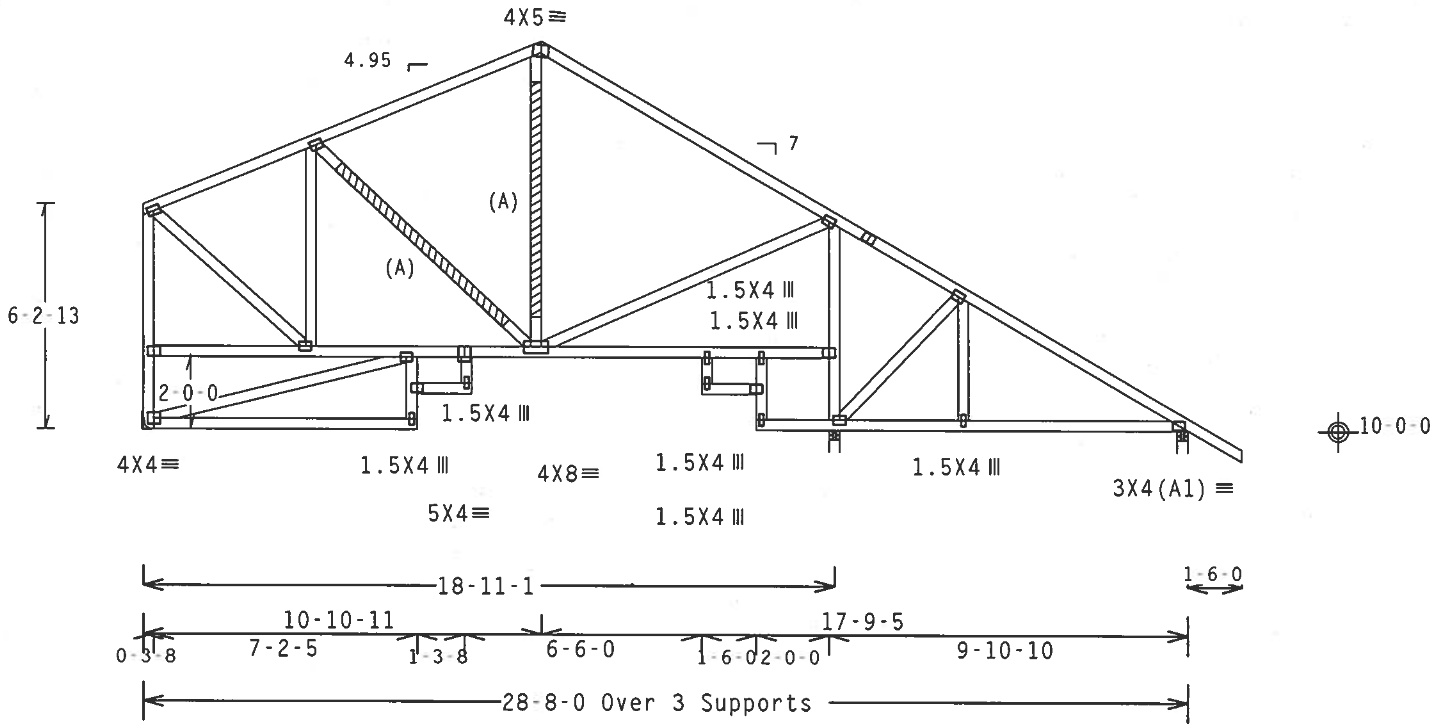
Left end vertical not exposed to wind pressure.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

110 mph wind, 15.11 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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



Note: All Plates Are 3X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1[illegible] FY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

PLT TYP. Wave

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52624
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321147
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137852
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

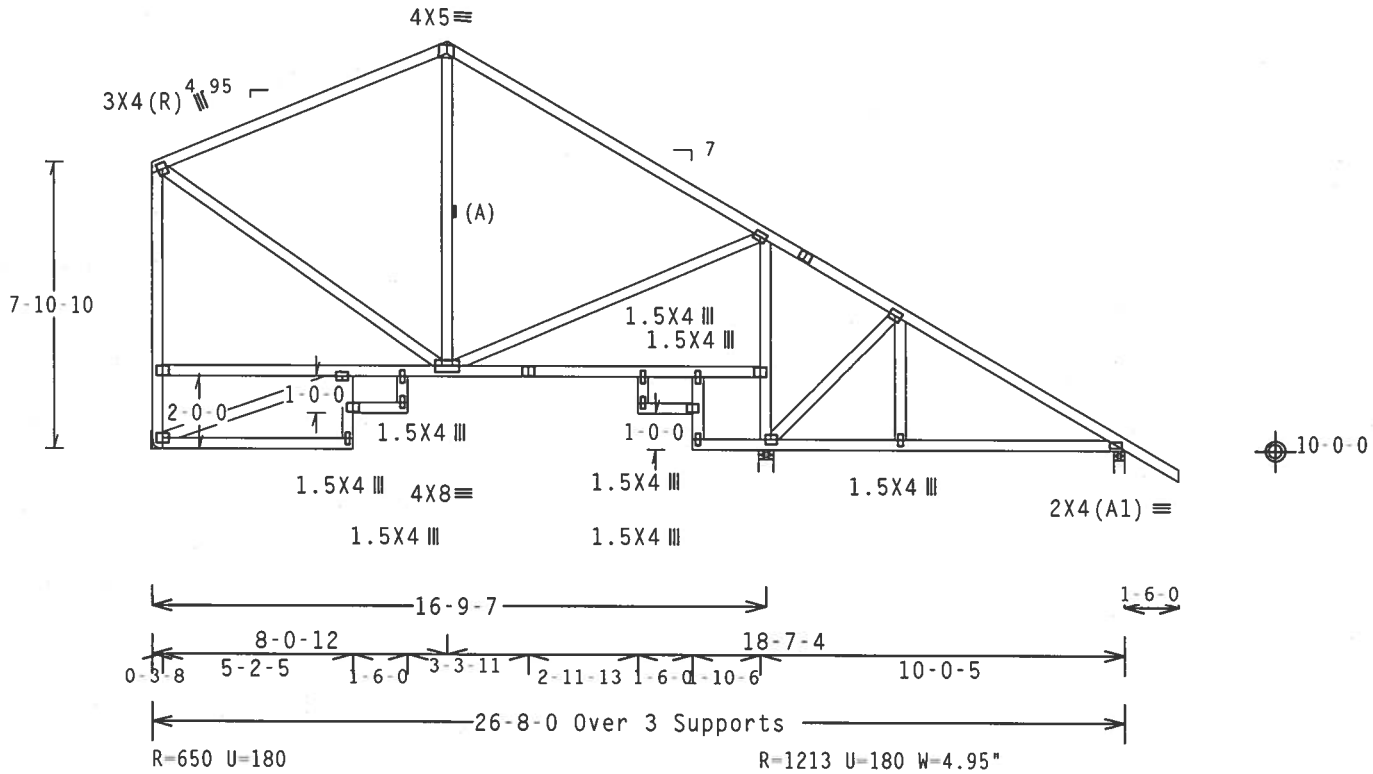
Left end vertical not exposed to wind pressure.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

110 mph wind, 15.35 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization #6[illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52625
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321148
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137830
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

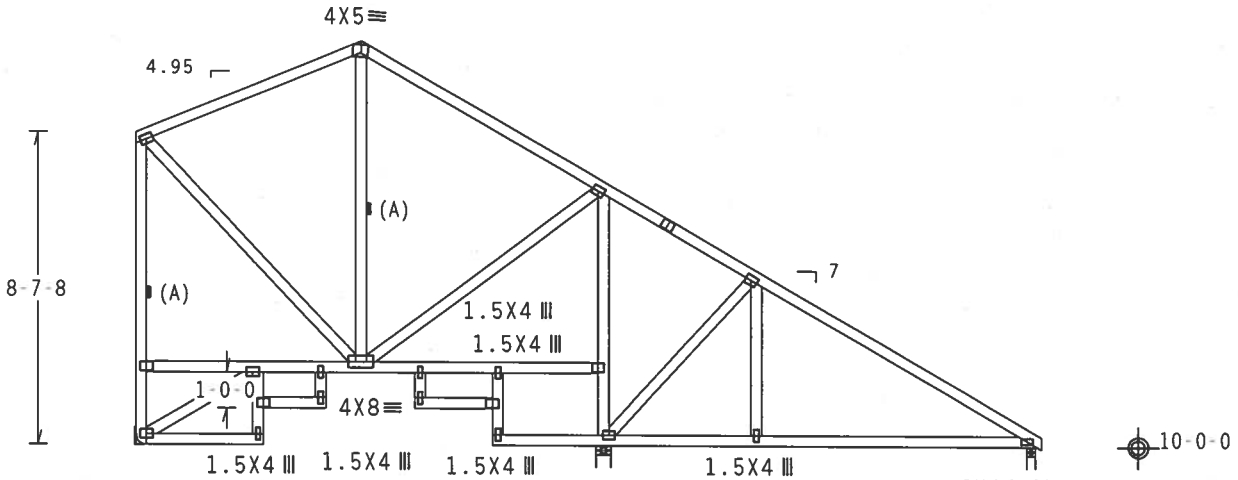
Left end vertical not exposed to wind pressure.

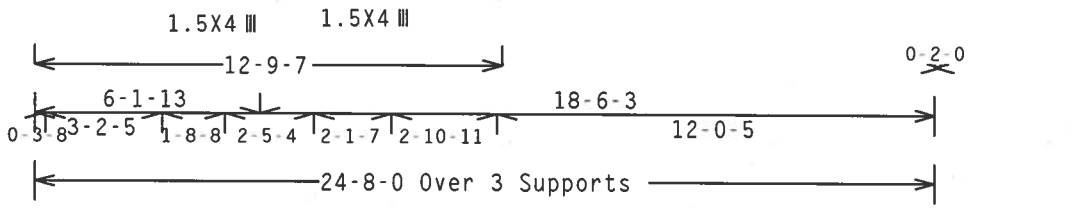
SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

110 mph wind, 15.71 ft mean hgt, ASCE 7-02, CLOSED bldg, not
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC
DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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





Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
The Certificate of Authorization #[illegible]

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52626
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321003
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137824
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

(6-248---- Greg Mulvihill -- , ** - C13)

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

Wind reactions based on MWFRS pressures.

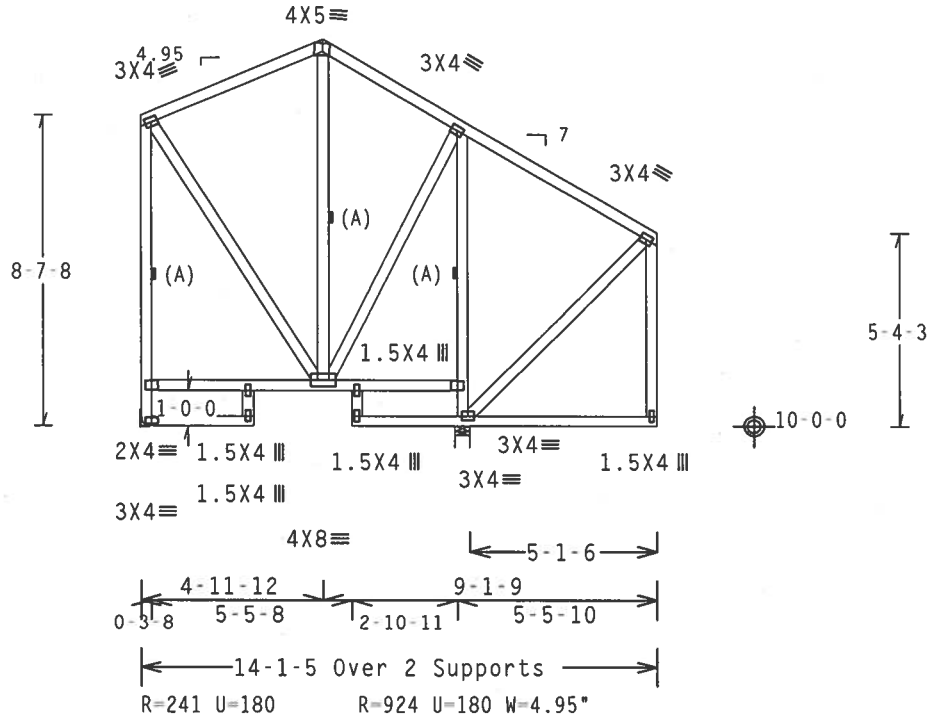
(A) Continuous lateral bracing equally spaced on member.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

110 mph wind, 18.01 ft mean hgt, ASCE 7-02, CLOSED bldg, not
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC
DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12[illegible] TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate [illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
No[illegible] '06

TC LL	20.0 PSF	REF R487-- 52627
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321069
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137820
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

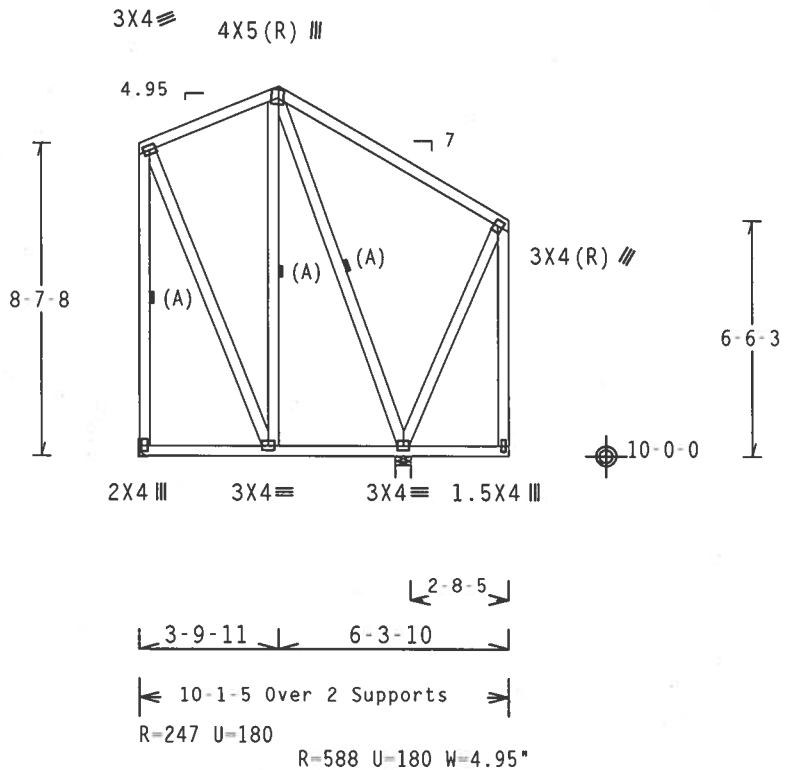
(A) Continuous lateral bracing equally spaced on member.

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

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

End verticals not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

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ARTHUR R. FISHER
LICENSE
No.59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 1 '06

TC LL	20.0 PSF	REF R487-- 52628
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321008
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137815
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

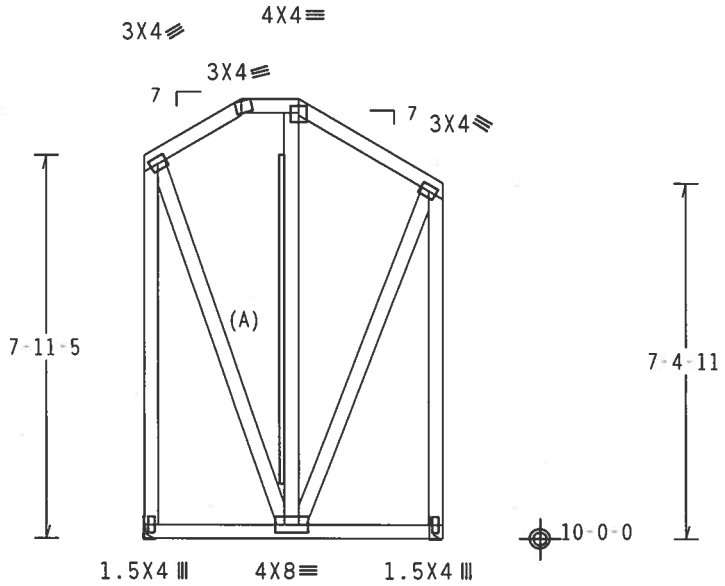
(A) 1x4 SP #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

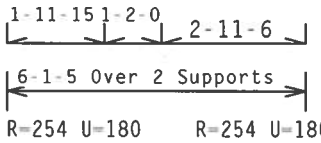
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 18.25 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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Alpine Engineered Products, Inc.
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FL Certificate of Authorization # 56

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52629
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321009
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137810
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.27" due to live load and 0.16" due to dead load.

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

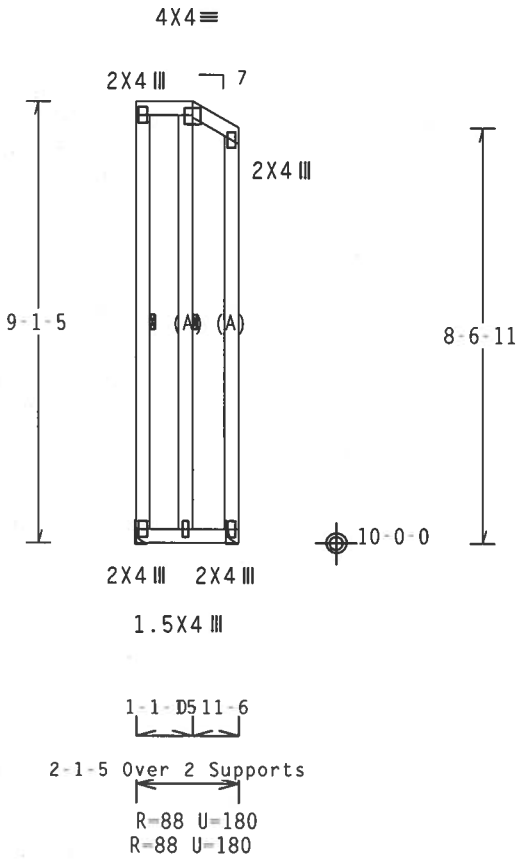
110 mph wind, 18.83 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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

Fasten rated sheathing to one face of this frame.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.25"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 662

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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52630
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321010
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137812
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_Z01

Top chord 2x6 SP #2 :T1 2x4 SP #2 Dense:
Bot chord 2x8 SP #1 Dense :B2 2x8 SP SS:
Webs 2x4 SP #3 :W9 2x4 SP #2 Dense:

Bearing blocks: Nail type: 12d_Common_(0.148"x3.25",_min.)_nails

BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
2	28.333'	1	12"	4	Match Truss

Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK1103 for additional information.

Wind reactions based on MWFRS pressures.

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

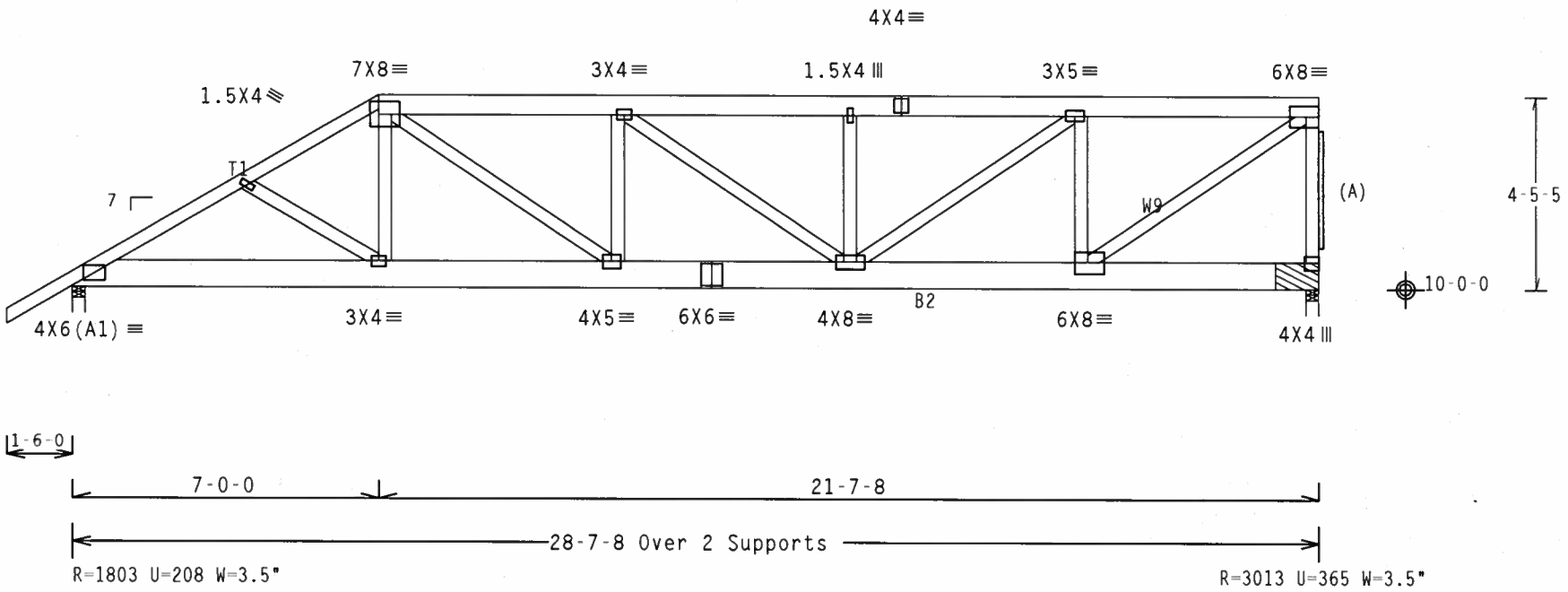
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at -1.50 to 63 PLF at 28.63
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 28.63
TC - 190 LB Conc. Load at 23.06, 25.06, 27.06
BC - 1519 LB Conc. Load at 21.13
BC - 82 LB Conc. Load at 23.06, 25.06, 27.06

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

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
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Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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ARTHUR R. FISHER LICENSE No. 52631 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52631
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321122
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137759
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

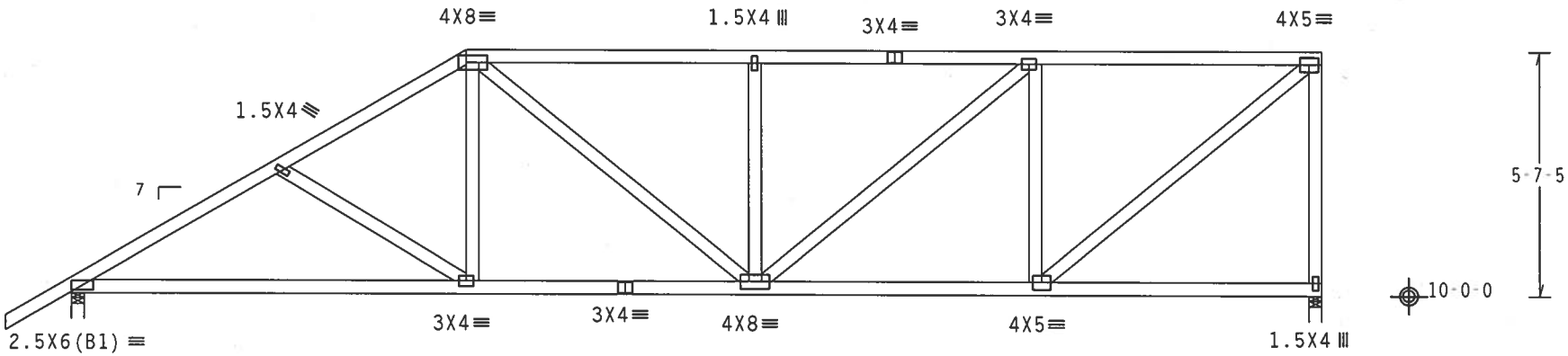
Wind reactions based on MWFRS pressures.

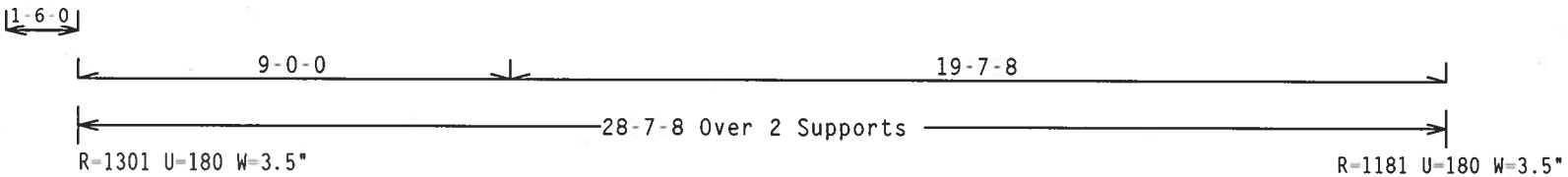
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

Right end vertical not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.25"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
The Certificate of Authorization # [illegible]

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

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52632
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321123
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137788
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

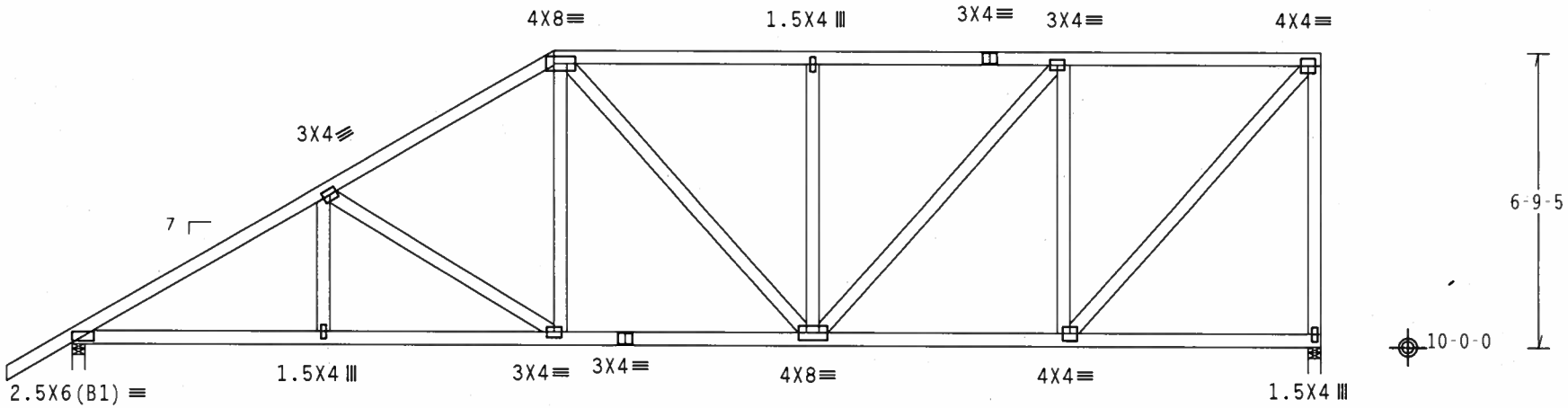
Wind reactions based on MWFRS pressures.

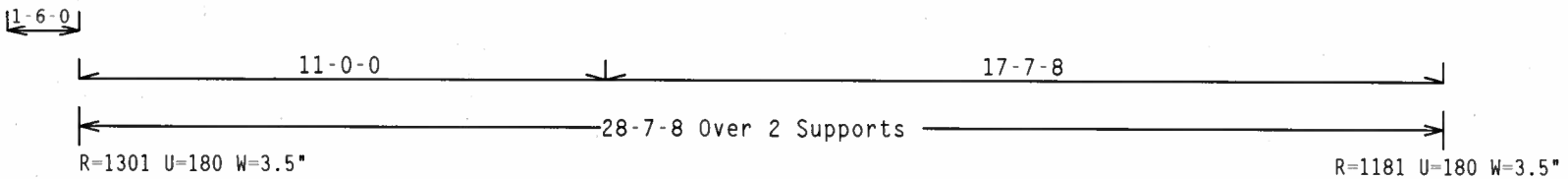
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

Right end vertical not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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Alpine Engineered Products, Inc.
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Haines City, FL 33844
Certificate of Authorization # 662

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF	R487-- 52633
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321124
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	137791
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

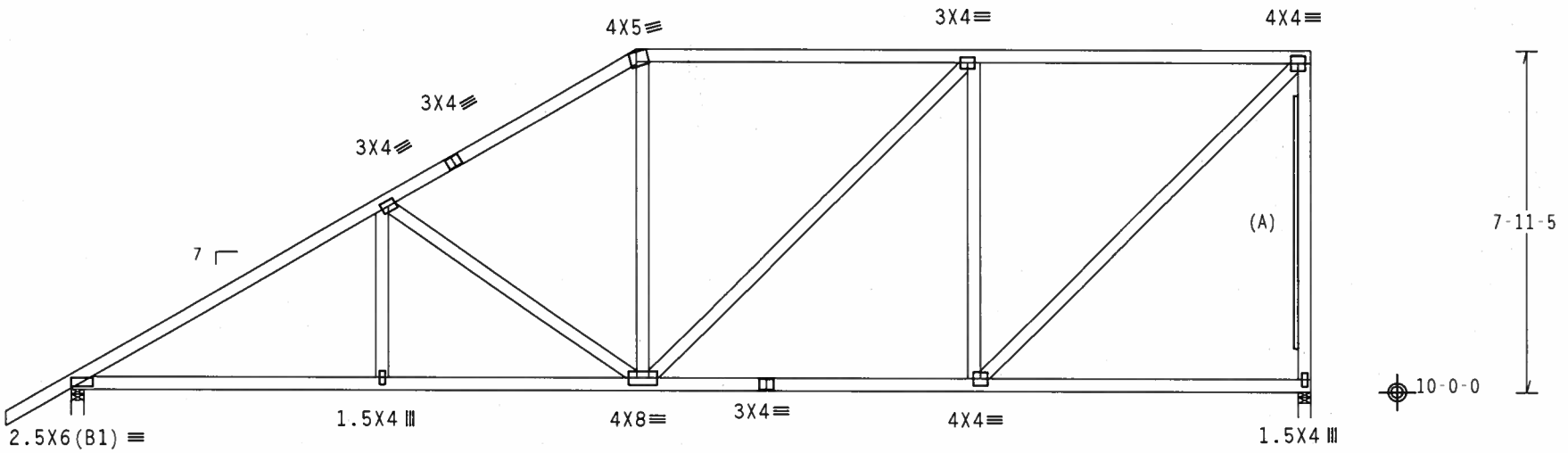
(A) 1x4 SP #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

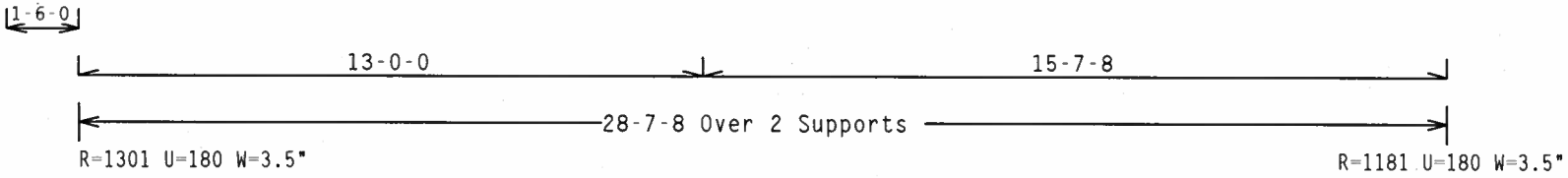
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

Right end vertical not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No 17 '06

TC LL	20.0 PSF	REF	R487-- 52634
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321125
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	137799
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T?F487_Z01

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at -1.50 to 63 PLF at 28.63
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 28.63
BC - -37 LB Conc. Load at 0.88
BC - 48 LB Conc. Load at 3.71
BC - 2571 LB Conc. Load at 6.45
BC - 828 LB Conc. Load at 7.25
BC - 742 LB Conc. Load at 10.08
BC - 650 LB Conc. Load at 12.90
BC - 498 LB Conc. Load at 15.73
BC - 241 LB Conc. Load at 18.56
BC - 247 LB Conc. Load at 21.39
BC - 254 LB Conc. Load at 24.22
BC - 88 LB Conc. Load at 27.05

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

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25"._min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 8.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

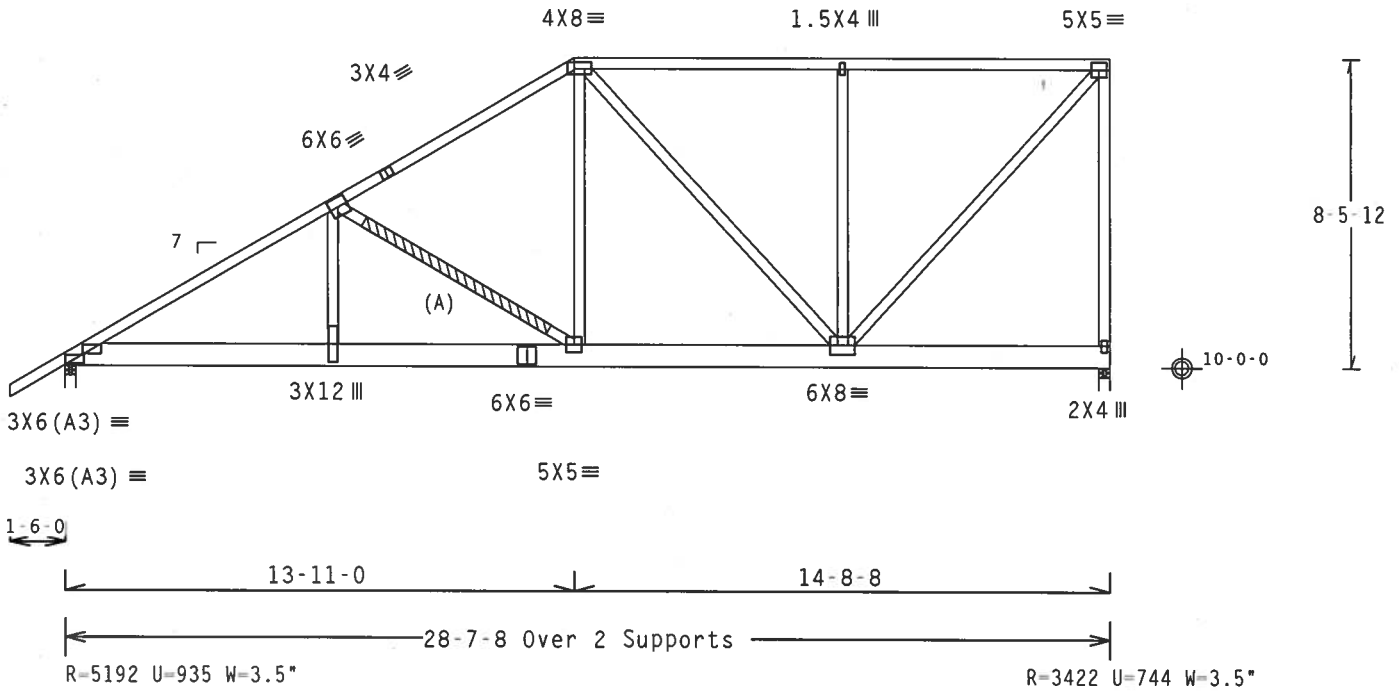
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # 662

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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52635
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321126
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137999
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

(6 248 Greg Mulvihill , ** EJ8)

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

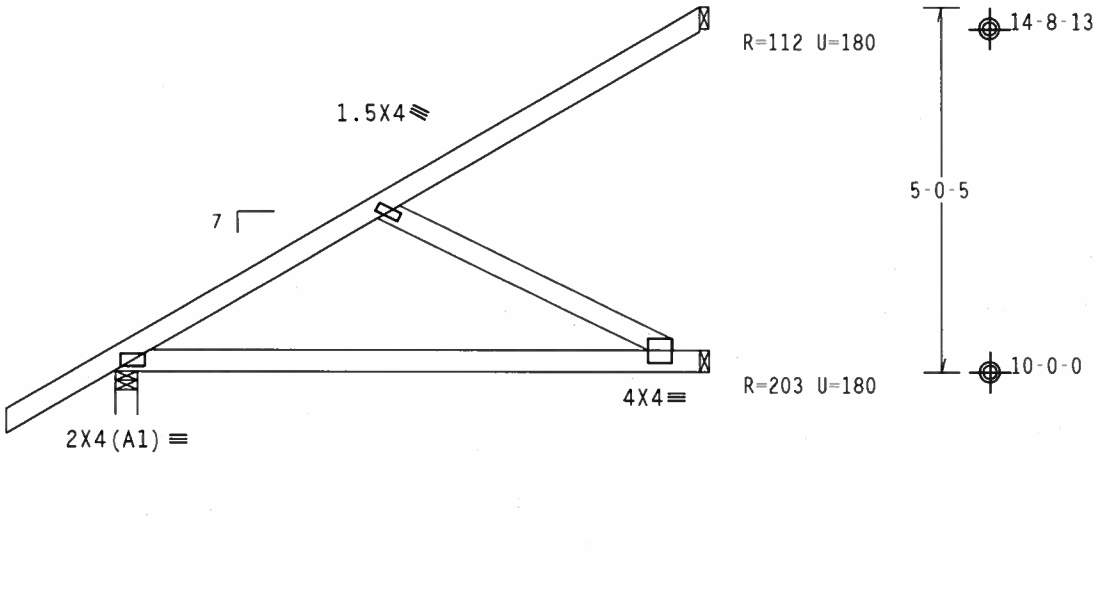
Wind reactions based on MWFRS pressures.

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

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

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52636
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321062
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137089
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

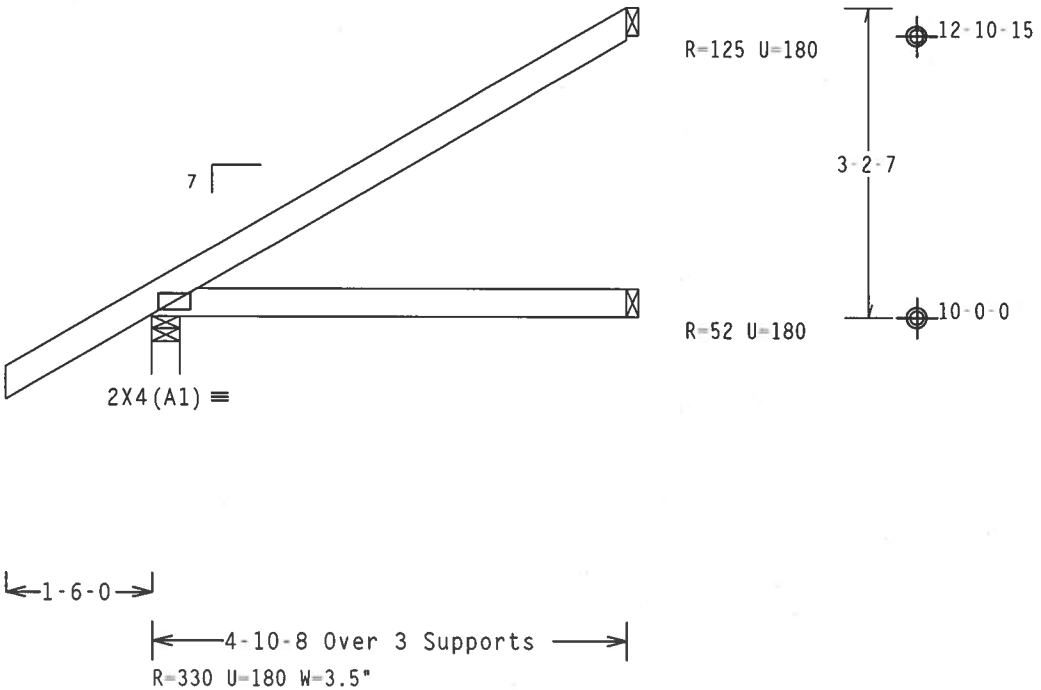
Wind reactions based on MWFRS pressures.

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

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

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

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.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

Scale =.5"/Ft.

ALPINE
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1950 Marley Drive
Haines City, FL 33844

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ARTHUR R. FISHER
No.59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52637
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321041
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137060
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

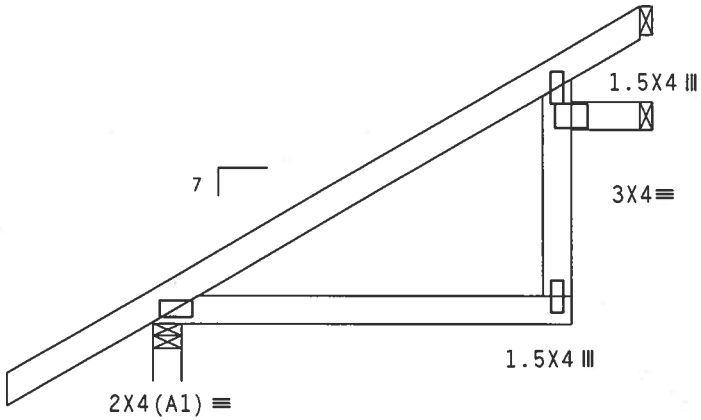
Wind reactions based on MWFRS pressures.

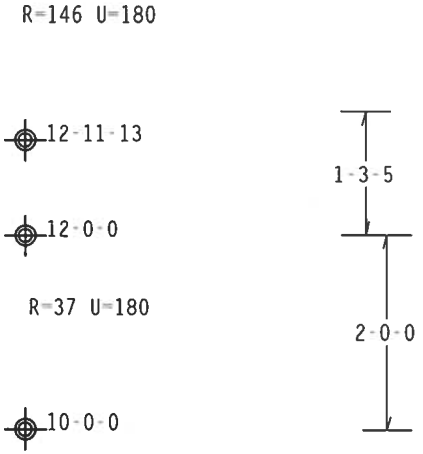
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

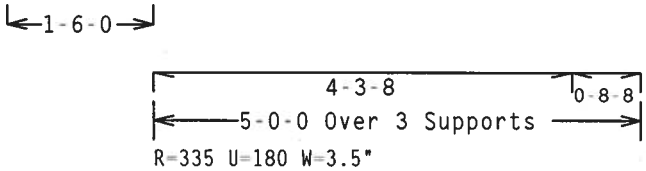
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.







Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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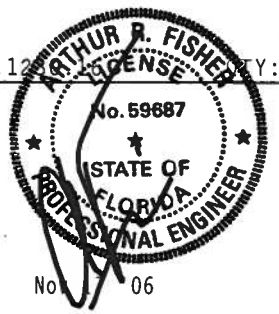


TC LL	20.0 PSF	REF R487-- 52638
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321056
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 136916
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

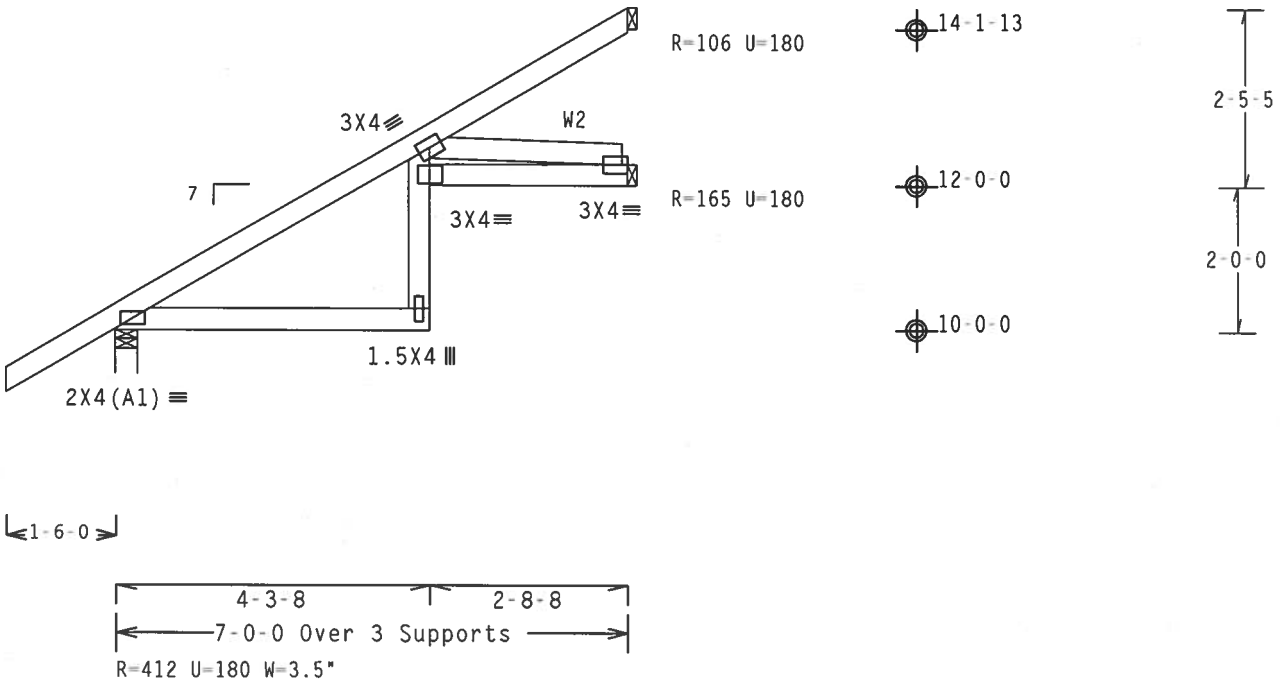
Wind reactions based on MWFRS pressures.

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

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

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

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.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

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ARTHUR R. FISHER
LICENSE
No.59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52639
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321057
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 136913
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

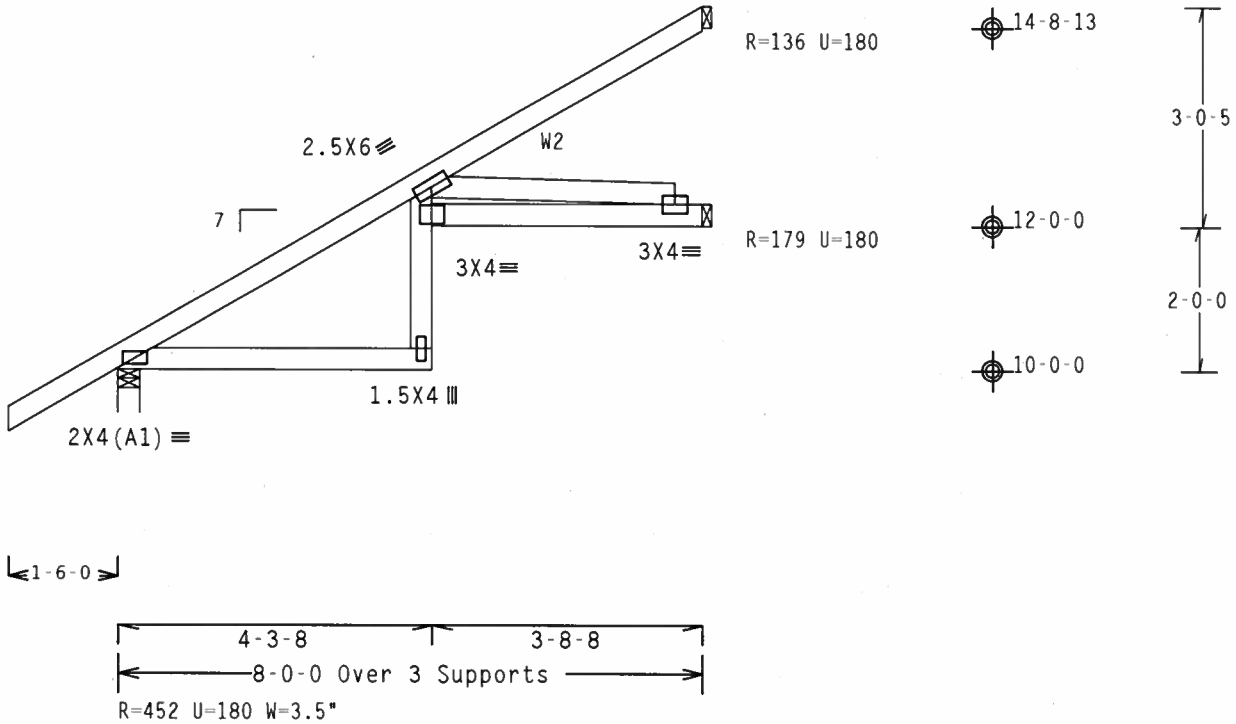
Wind reactions based on MWFRS pressures.

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

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

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 662

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52640
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321053
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 136909
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_Z01

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 7.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.00
BC - 795 LB Conc. Load at 1.94, 3.94, 5.94

Wind reactions based on MWFRS pressures.

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

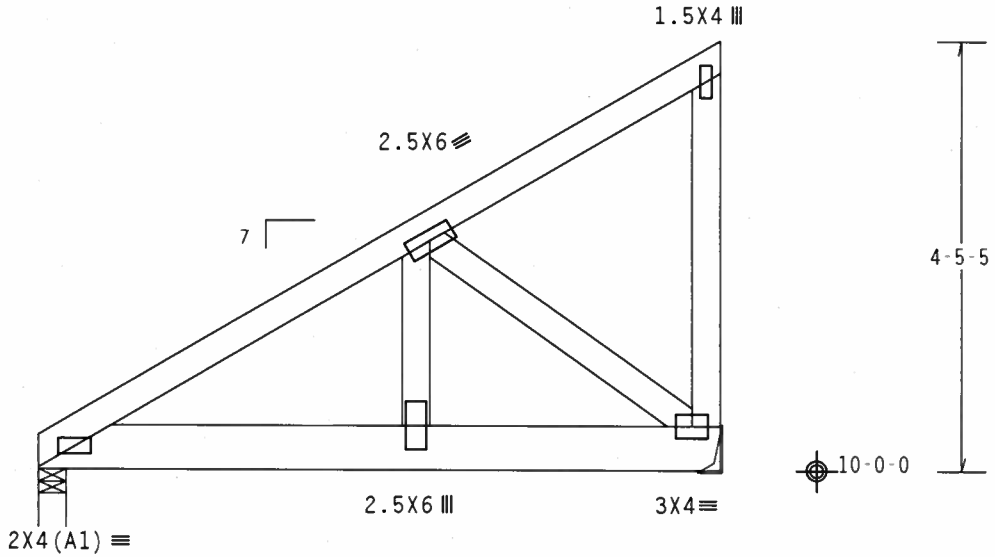
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 5.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

Right end vertical not exposed to wind pressure.



7-0-0 Over 2 Supports

R=1362 U=180 W=3.5" R=1604 U=180

Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 5[illegible]

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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52641
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321091
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17522
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

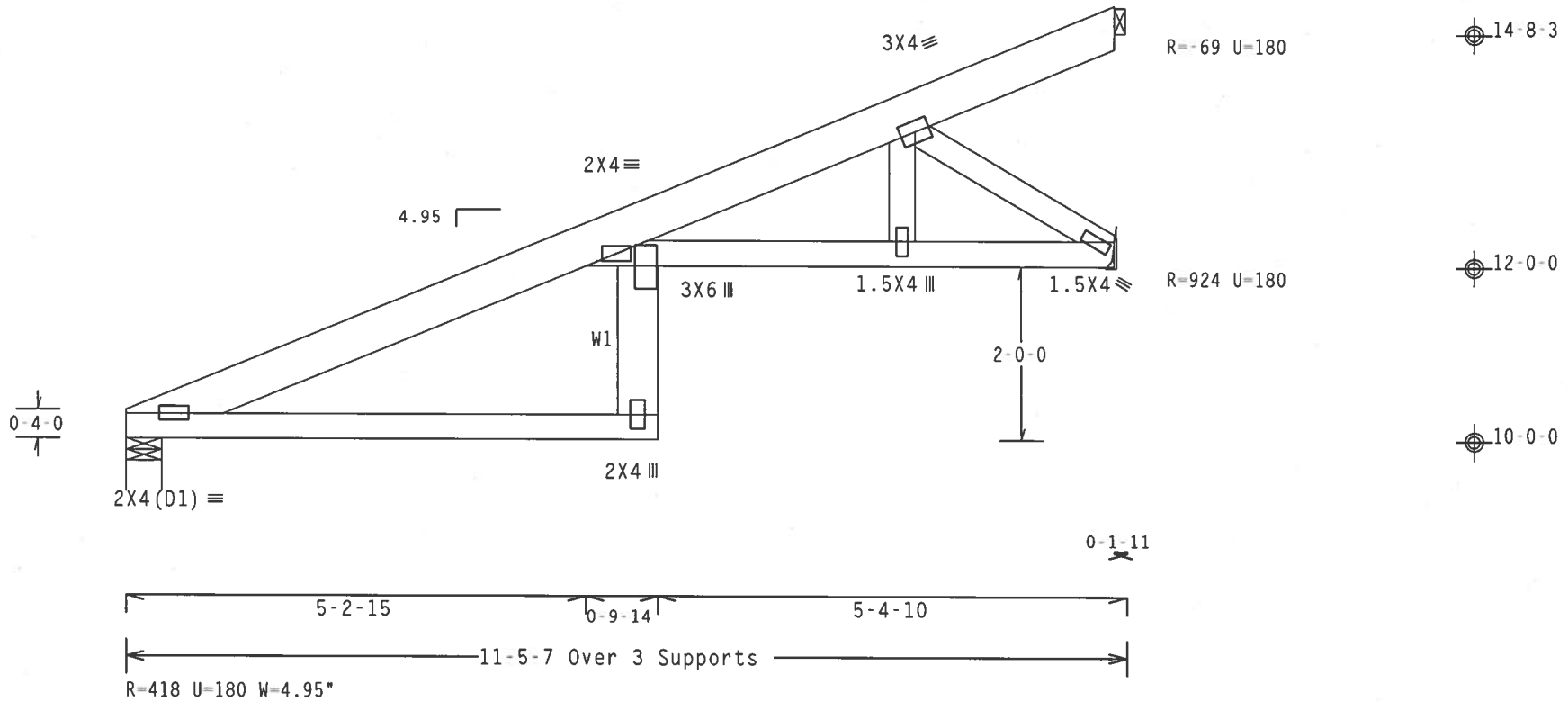
Calculated horizontal deflection is 0.12" due to live load and 0.19" due to dead load.

Hipjack supports 8-0-0 setback jacks with no webs.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
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Certificate of Authorization #

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

Nov [illegible] '06

TC LL	20.0 PSF	REF R487-- 52642
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321052
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137084
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

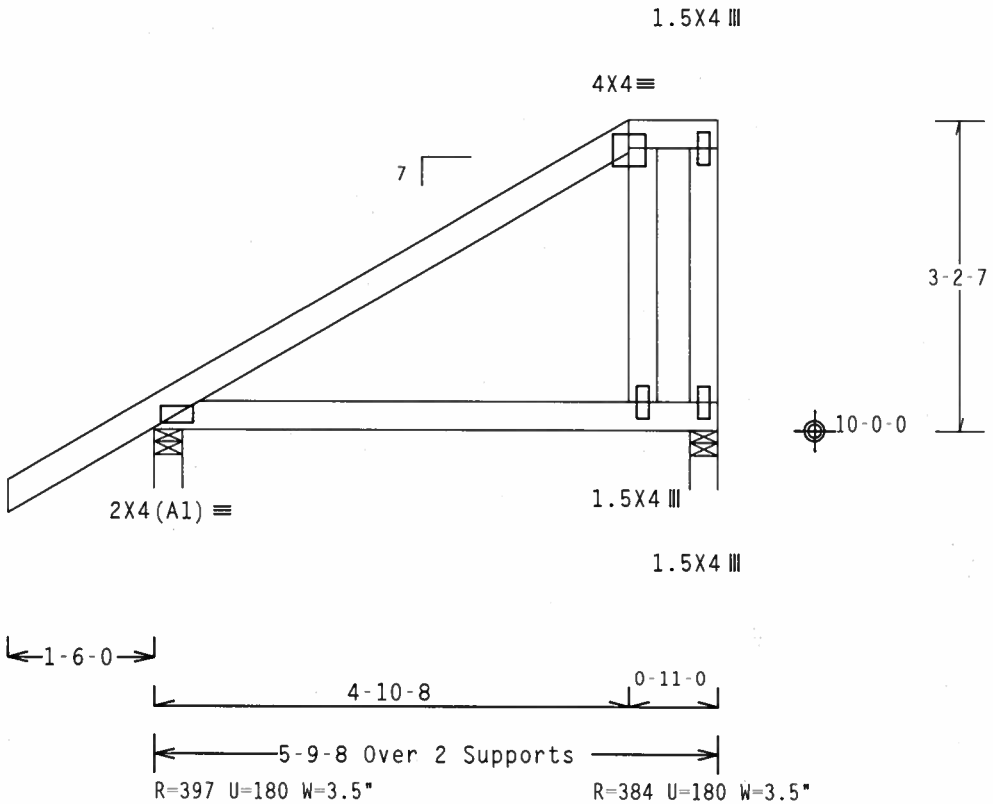
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

#1 hip supports 4-10-8 jacks with no webs.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ARTHUR B. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization #

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TC LL	20.0 PSF	REF	R487-- 52643
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321105
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	137069
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

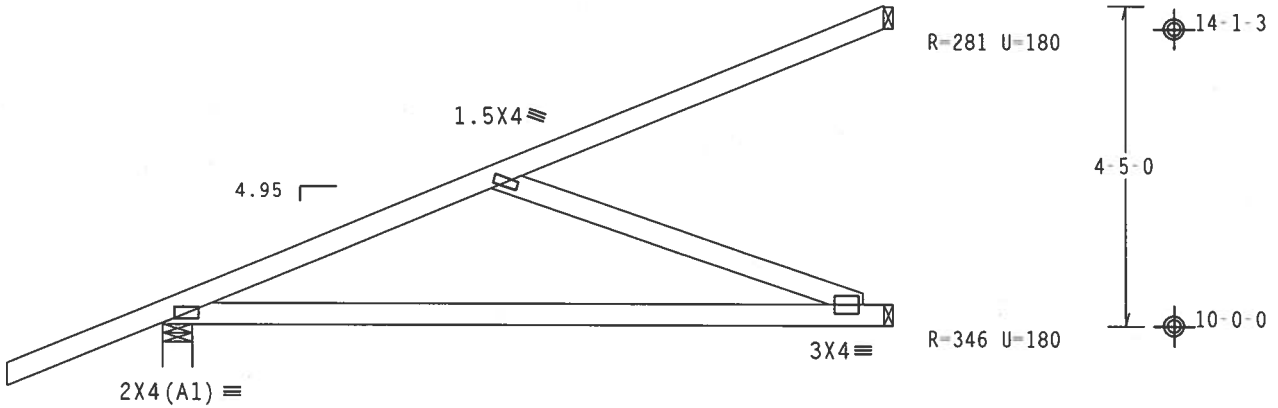
Hipjack supports 7-0-0 setback jacks with no webs.

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6[illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Nov 17 '06

TC LL	20.0 PSF	REF	R487-- 52644
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321039
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	17471
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1T2F487_Z01

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

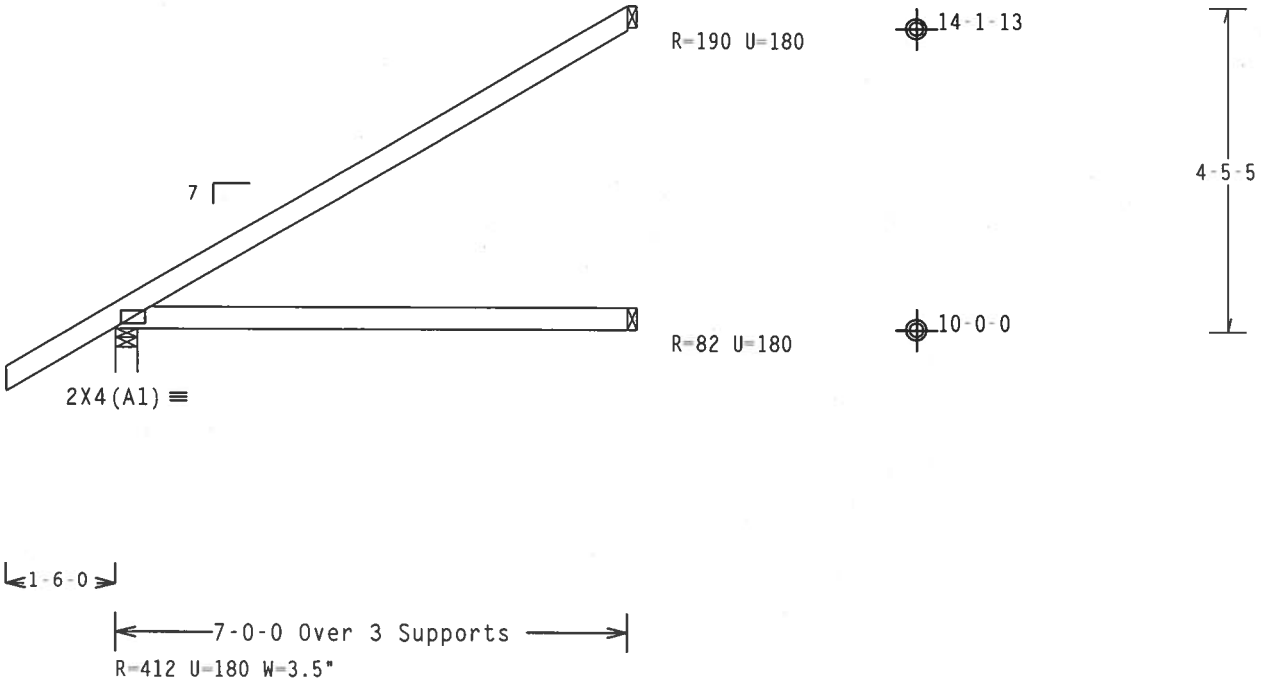
Wind reactions based on MWFRS pressures.

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

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

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 5...

ARTHUR B. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52645
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321045
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 17450
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

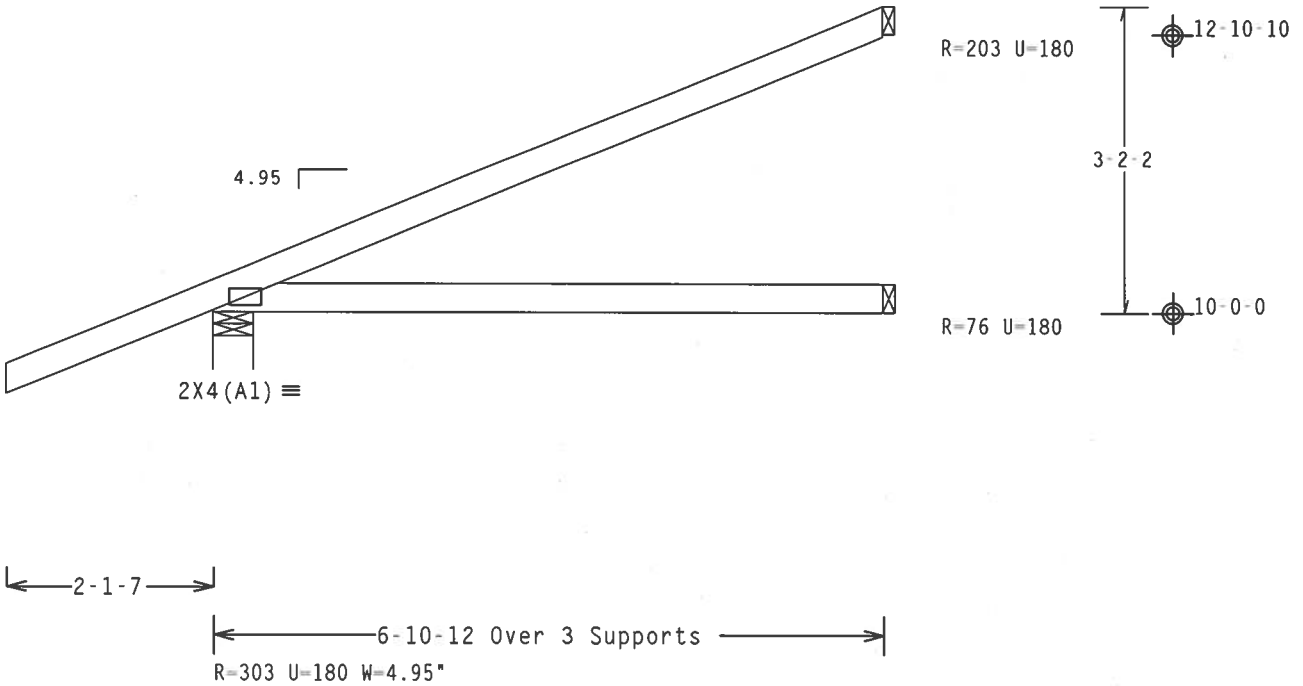
Hipjack supports 4-10-8 setback jacks with no webs.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate Authorization # [illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52646
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321040
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17492
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

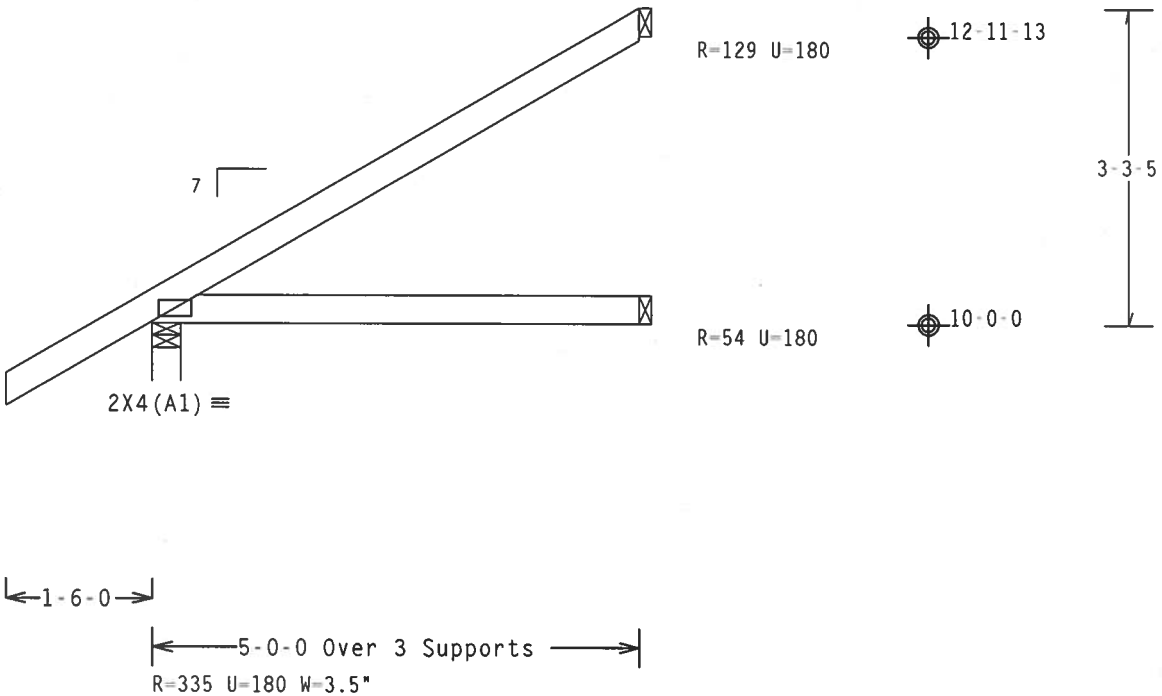
Wind reactions based on MWFRS pressures.

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

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

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

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.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 [illegible]TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52647
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321012
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 17458
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

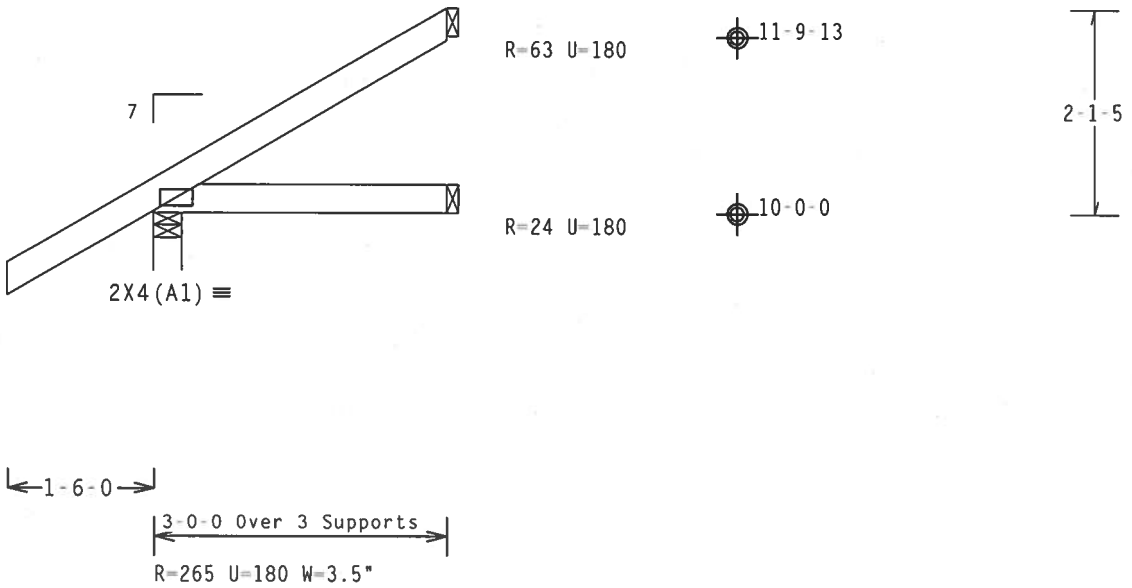
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 667

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17,'06

TC LL	20.0 PSF	REF R487-- 52648
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321023
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 17461
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

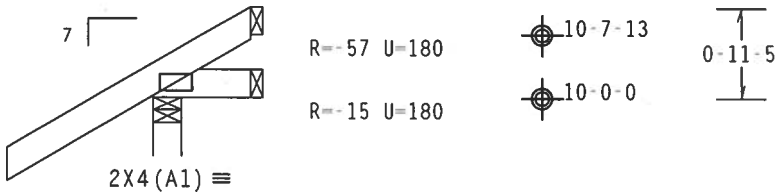
Wind reactions based on MWFRS pressures.

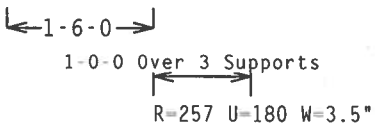
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 5[illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52649
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321119
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17466
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

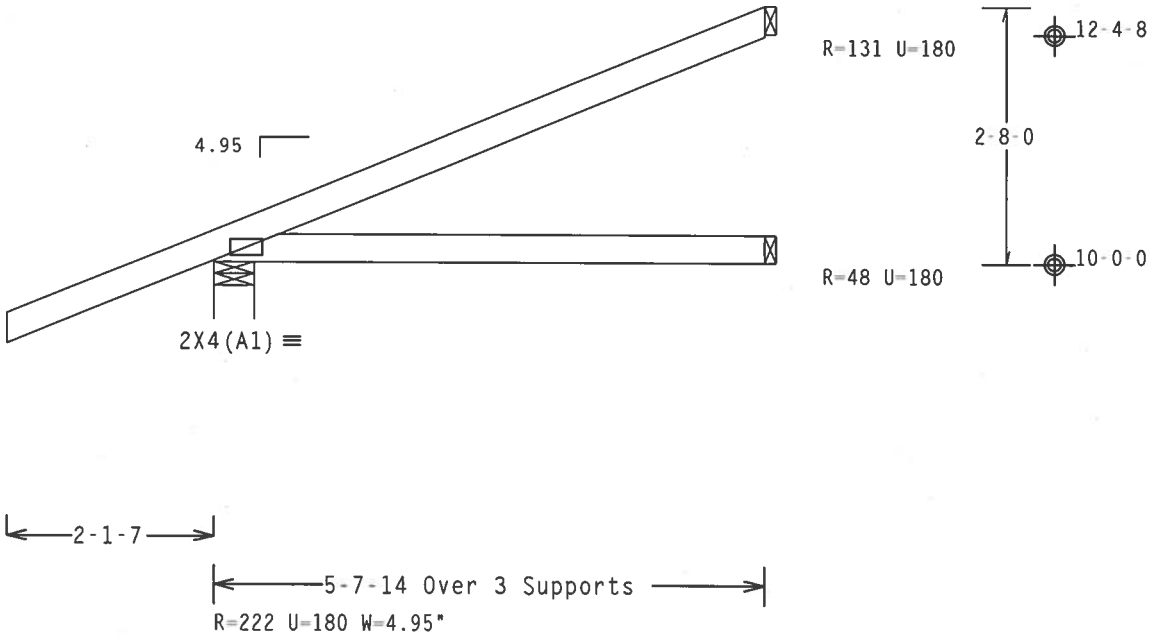
Hipjack supports 4-0-0 setback jacks with no webs.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.[illegible]10 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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ARTHUR R. FISHER LICENSE No. 39687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52650
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321116
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17495
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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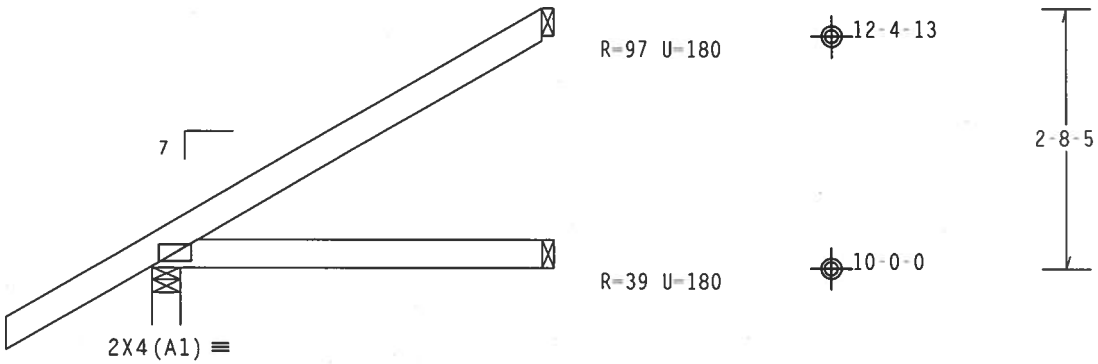

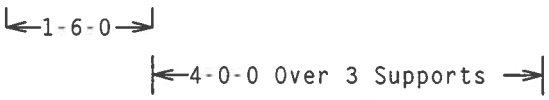

Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
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1950 Marley Drive
Haines City, FL 33844

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
No '06

TC LL	20.0 PSF	REF R487-- 52651
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321120
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 17498
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

Hipjack supports 1-4-5 setback jacks with no webs.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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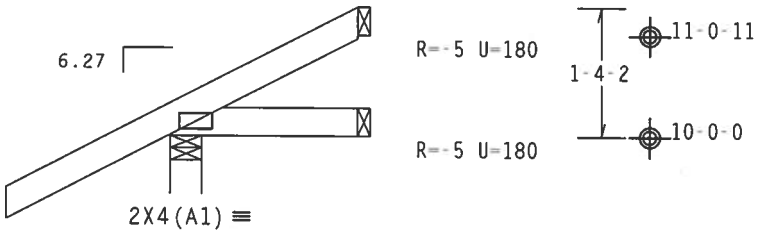

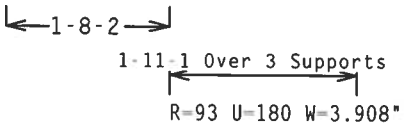

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER
LICENSE
No. 39687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52652
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321087
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137054
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

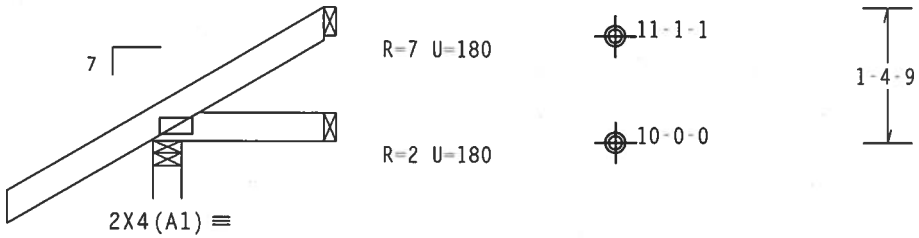
Wind reactions based on MWFRS pressures.

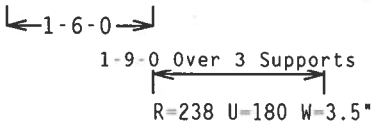
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

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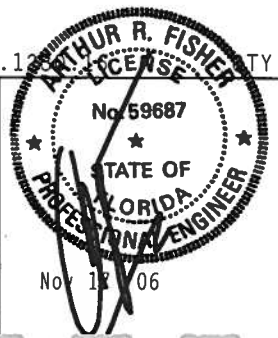


TC LL	20.0 PSF	REF R487-- 52653
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321088
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137045
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

(6-248---- Greg Mulvihill -- , ** - J1BB)

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

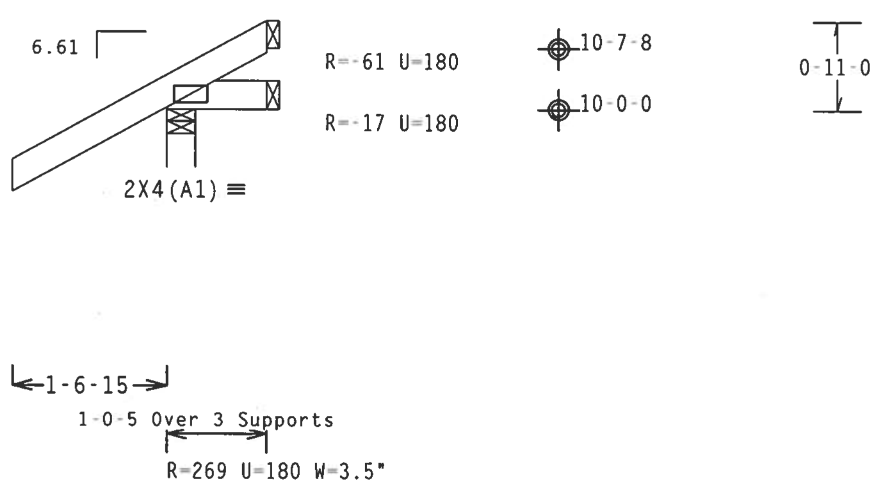
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52654
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321089
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137051
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

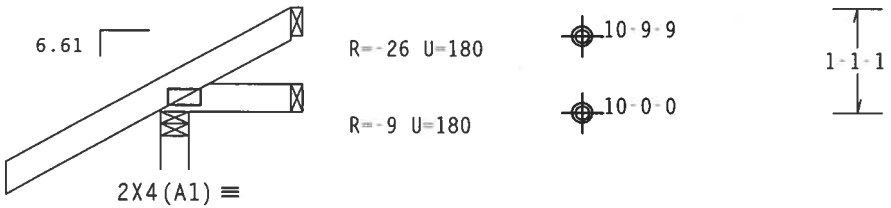
Wind reactions based on MWFRS pressures.

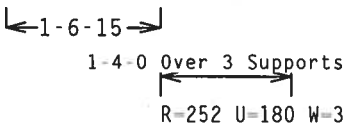
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
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Certificate Organization #

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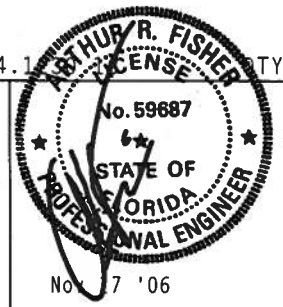


TC LL	20.0 PSF	REF R487-- 52655
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321090
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137049
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

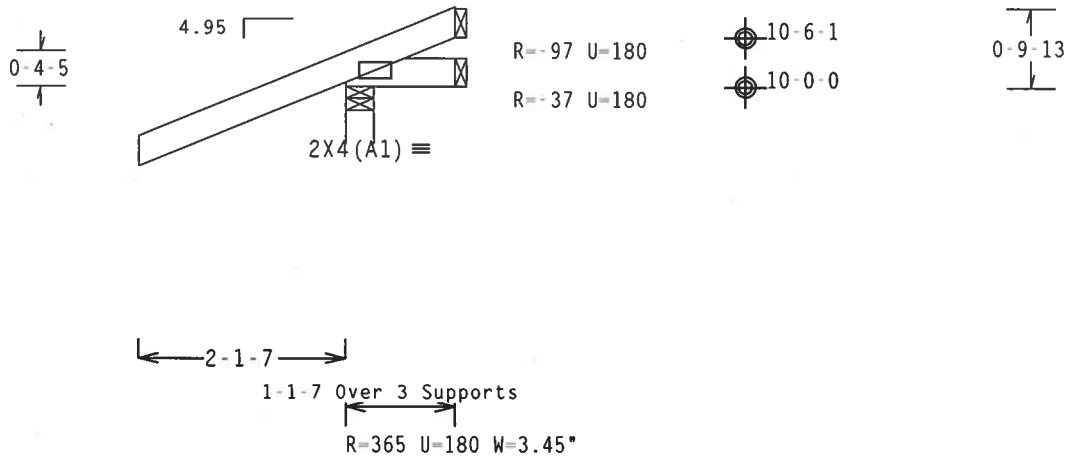
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 [illegible] TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
The Certificate of Authorization #

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 06

TC LL	20.0 PSF	REF R487-- 52656
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321006
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137733
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

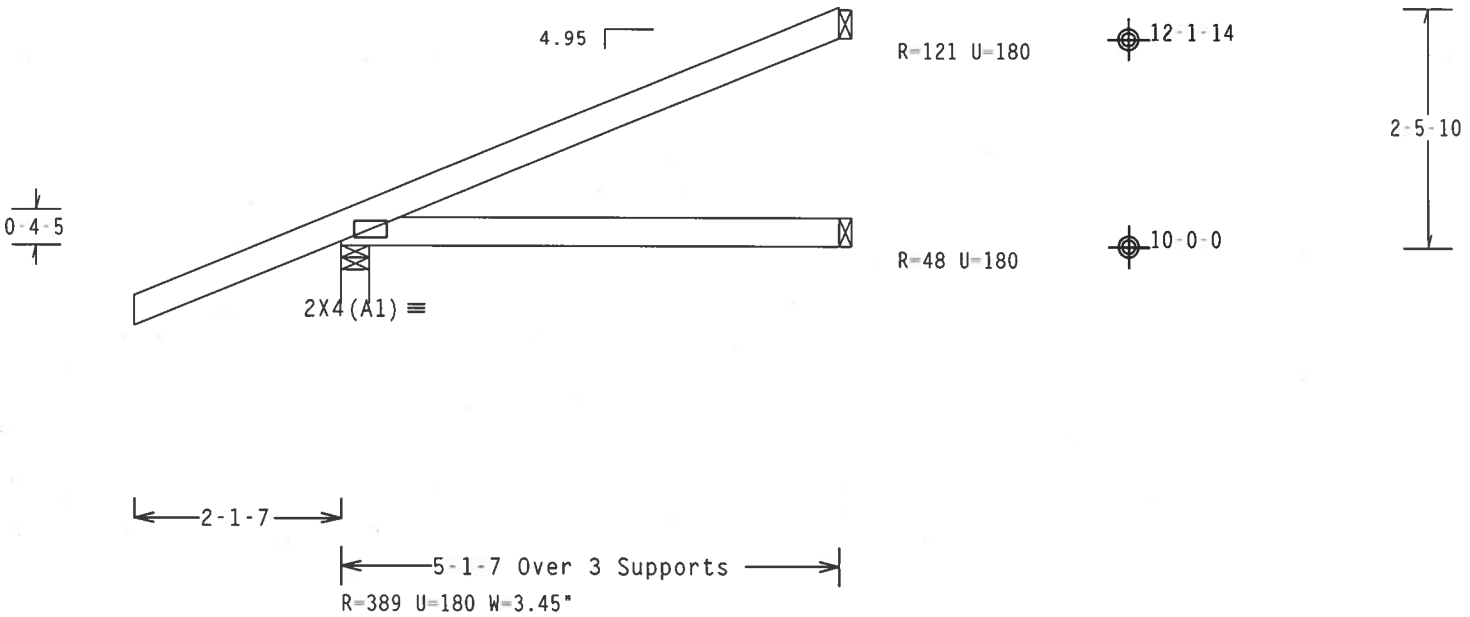
Wind reactions based on MWFRS pressures.

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

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

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

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.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

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1950 Marley Drive
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Certificate of Authorization # [illegible]

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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52657
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321005
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137738
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

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

Wind reactions based on MWFRS pressures.

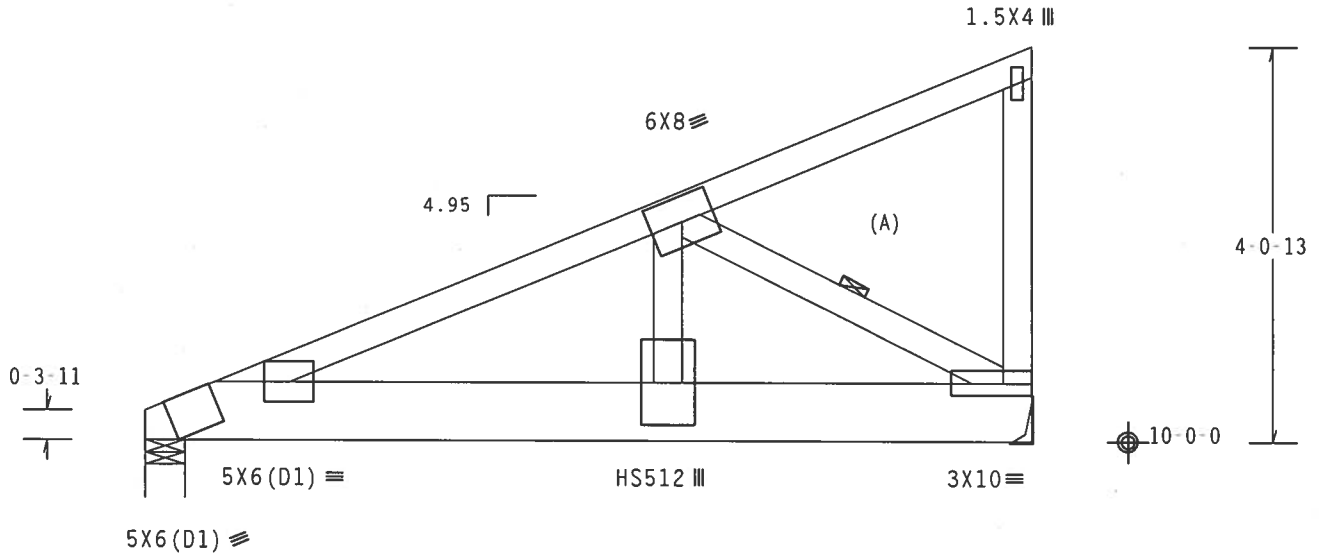
(A) Continuous lateral bracing equally spaced on member.

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at 0.00 to 62 PLF at 9.12
BC - From 80 PLF at 0.00 to 80 PLF at 0.85
BC - From 20 PLF at 0.85 to 20 PLF at 9.12
PLB- 1201 LB Conc. Load at (1.81,10.04), (3.81,10.04), (5.81,10.04)
PLB- 859 LB Conc. Load at (7.81,10.04)

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 5[illegible]

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov [illegible] '06

TC LL	20.0 PSF	REF R487-- 52658
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321135
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137983
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 12.61
BC - From 20 PLF at 0.00 to 20 PLF at 12.61
BC - 426 LB Conc. Load at 1.29
BC - 477 LB Conc. Load at 3.29, 5.29, 7.29, 9.29
BC - 465 LB Conc. Load at 11.29

Wind reactions based on MWFRS pressures.

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

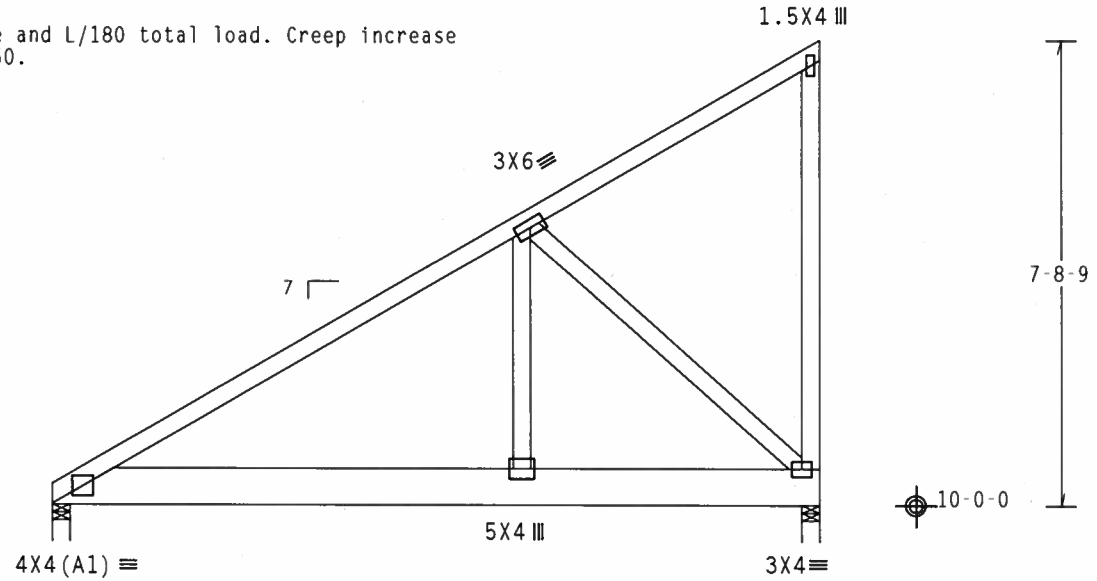
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 8.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

Right end vertical not exposed to wind pressure.



12-7-4 Over 2 Supports

R=1932 U=376 W=3.5"

R=1915 U=310 W=3.5"

Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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Haines City, FL 33844
The Certificate of Authorization # [illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52659
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321074
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137742
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_Z01

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 7.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.00
BC - 528 LB Conc. Load at 0.52
BC - 816 LB Conc. Load at 2.52, 4.52, 6.52

Wind reactions based on MWFRS pressures.

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

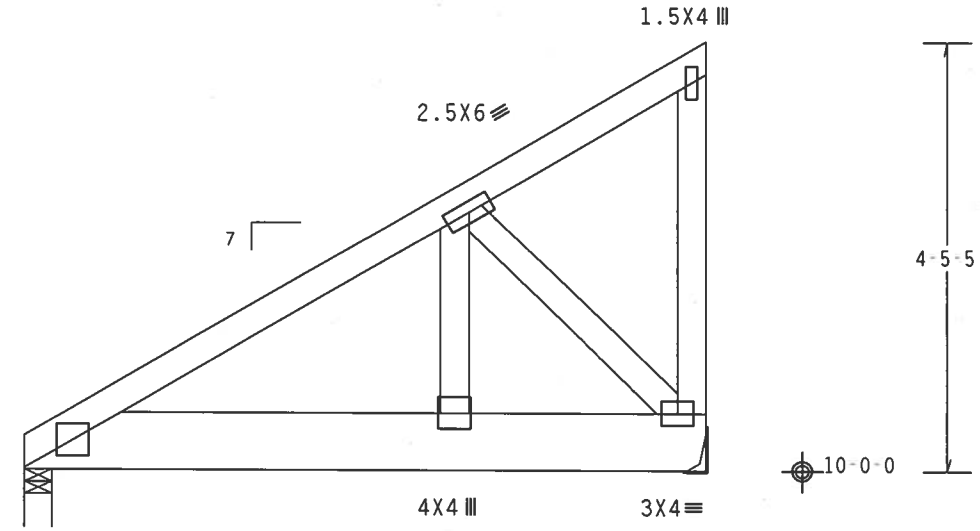
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

Right end vertical not exposed to wind pressure.

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



7-0-0 Over 2 Supports

R=1681 U=180 W=3.5" R=1876 U=180

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6672

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52660
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321066
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137673
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

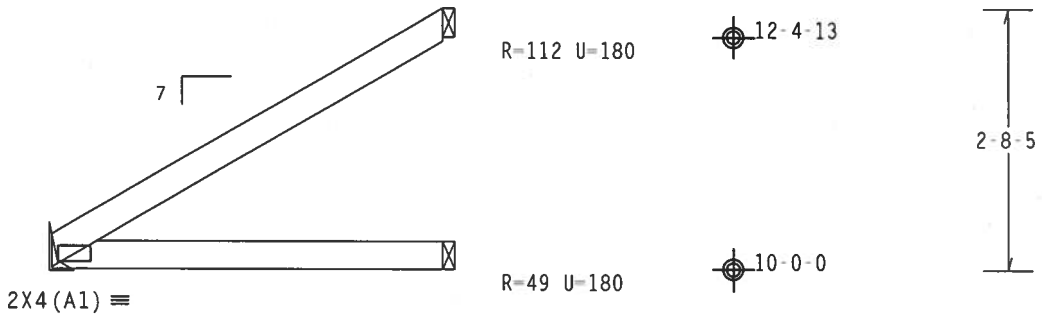
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



←4-0-0 Over 3 Supports→
R=172 U=180

Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

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ARTHUR B. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52661
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321121
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 17501
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 7.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.00
BC - 868 LB Conc. Load at 1.40, 3.40, 5.40

Wind reactions based on MWFRS pressures.

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

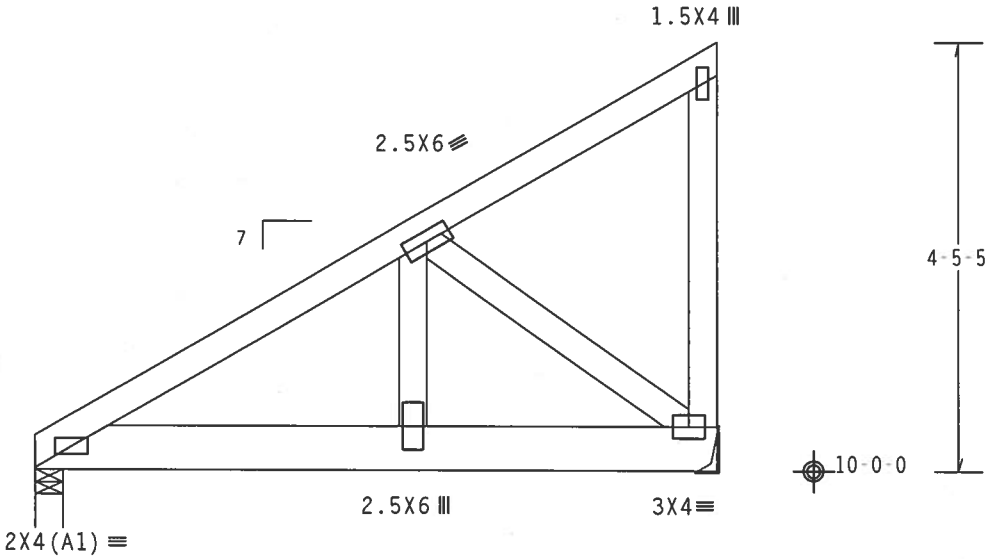
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 5.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 17 '06

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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TC LL	20.0 PSF	REF R487-- 52662
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321051
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137753
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

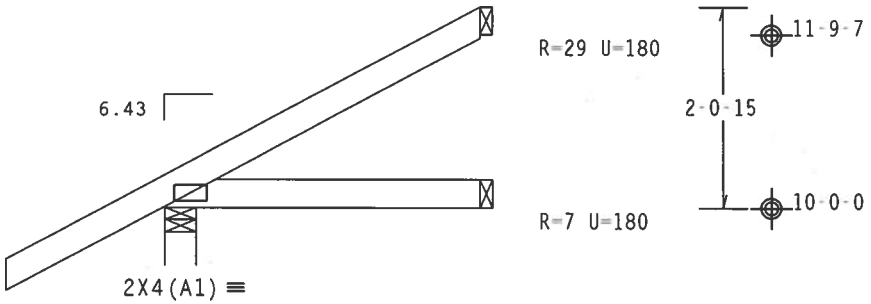
Hipjack supports 2-3-7 setback jacks with no webs.

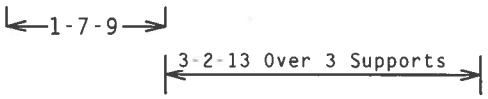
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate Authorization #

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF	R487-- 52663
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321071
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	137774
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_Z01

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

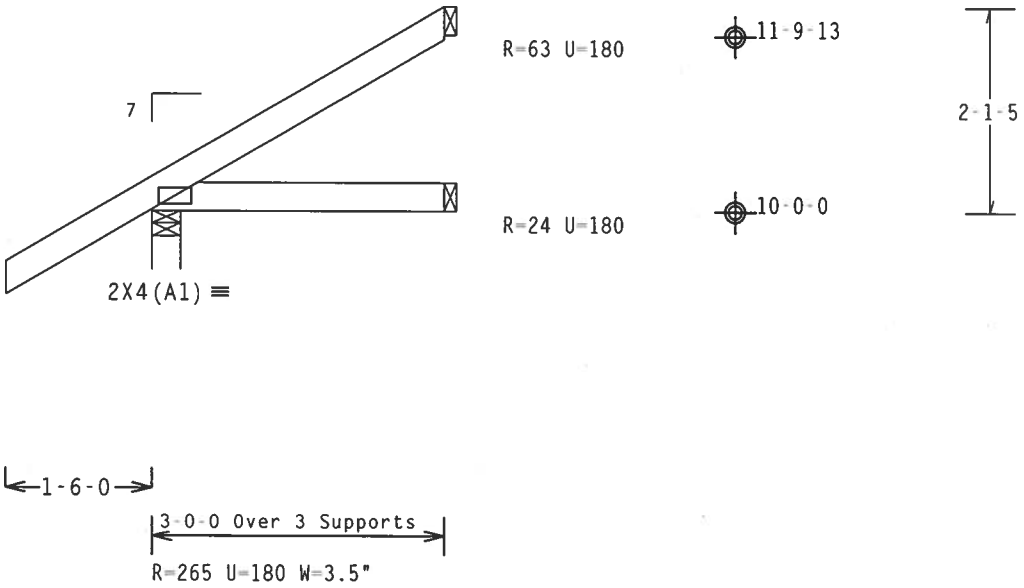
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

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ARTHUR B. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
No 11/17/06

TC LL	20.0 PSF	REF R487-- 52664
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321085
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137772
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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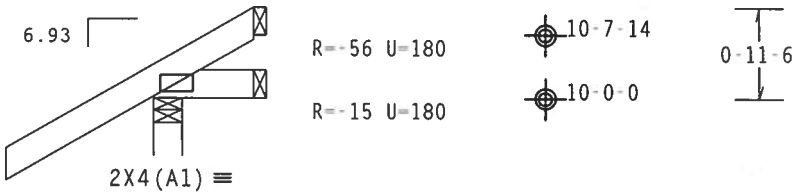

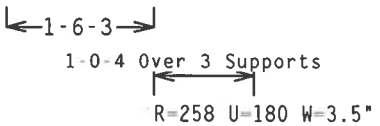

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
[illegible] Certificate [illegible] zation # [illegible]

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ARTHUR K. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52665
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321079
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137762
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

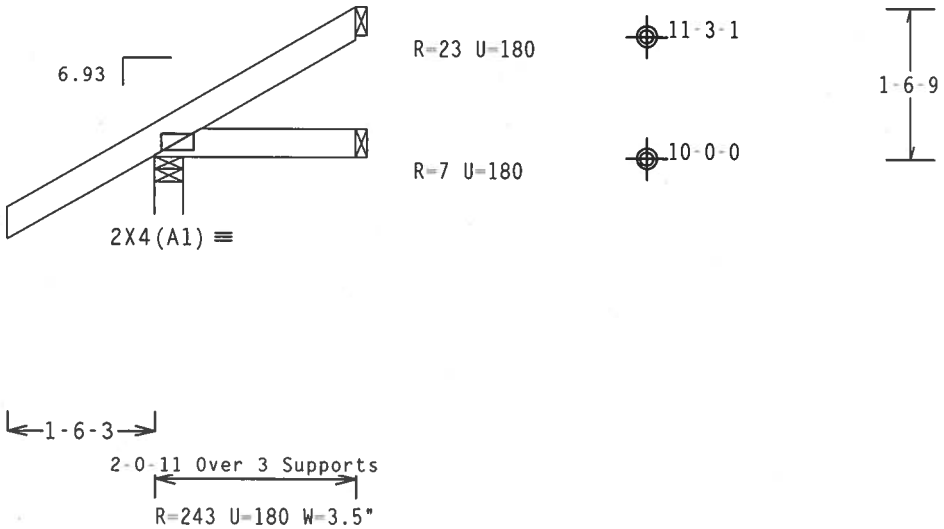
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER LICENSE No 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
No 11 '06

TC LL	20.0 PSF	REF R487-- 52666
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321083
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137765
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

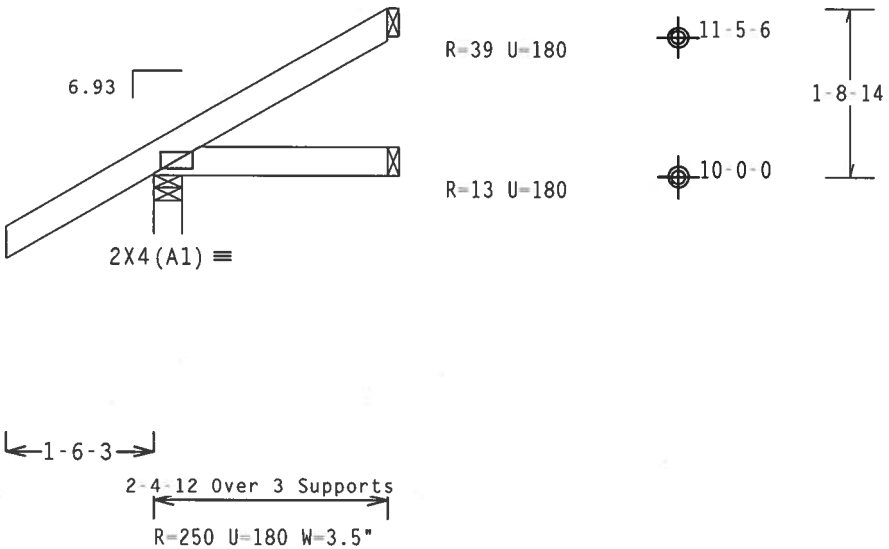
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 [illegible] Y:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

Nov 17 '06

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
[illegible] Certificate of Authorization # [illegible]

TC LL	20.0 PSF	REF R487-- 52667
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321082
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137767
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

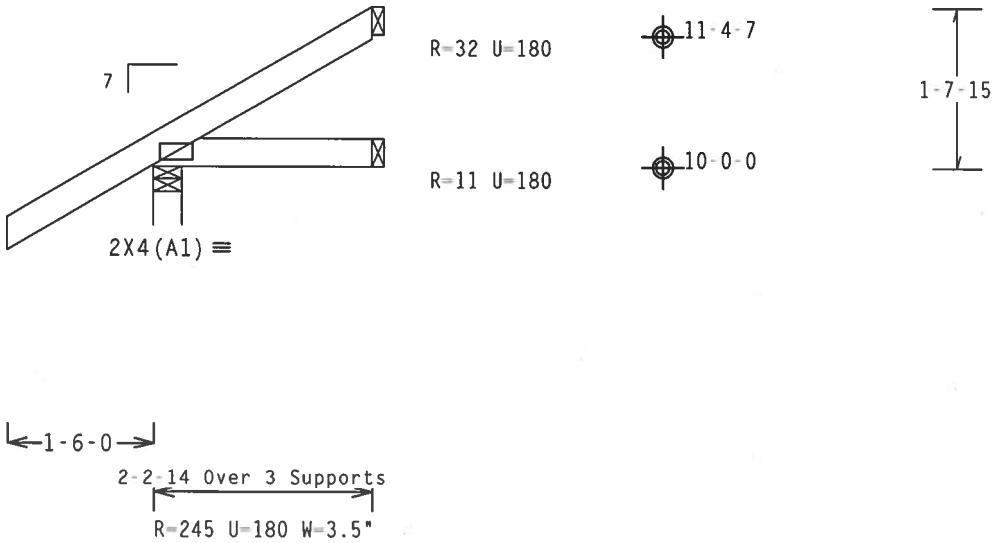
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.13 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6627

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52668
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321084
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137770
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

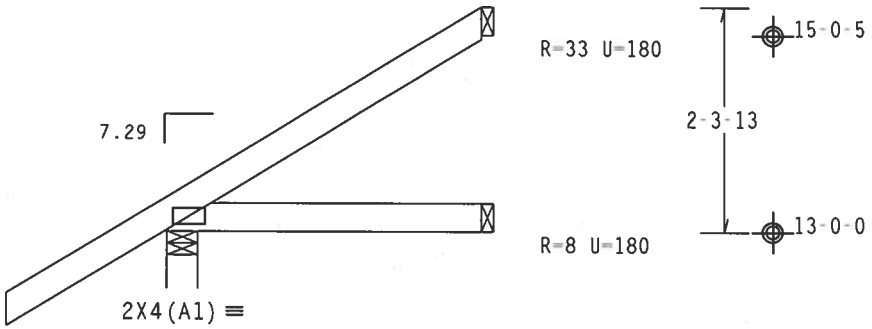
Hipjack supports 2-3-7 setback jacks with no webs.

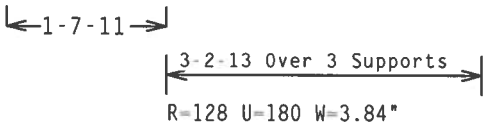
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 667

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52669
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321094
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137042
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

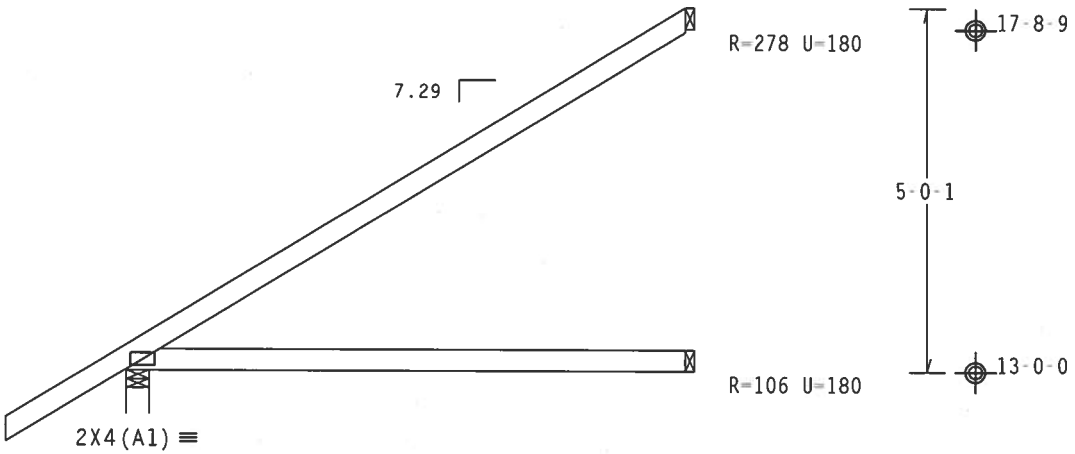
Hipjack supports 5-4-15 setback jacks with no webs.

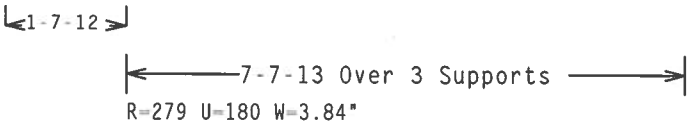
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.18 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov [illegible] '06

TC LL	20.0 PSF	REF R487-- 52670
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321095
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137057
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

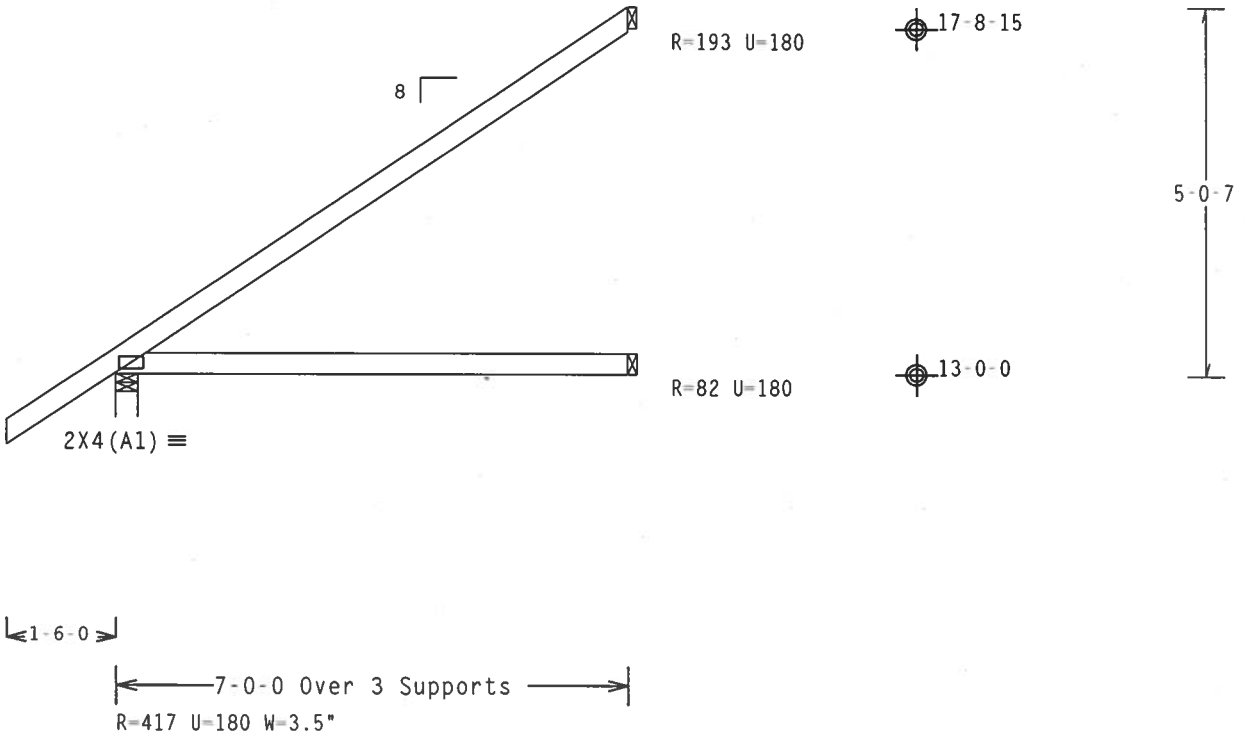
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.20 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

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TC LL	20.0 PSF	REF R487-- 52671
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321102
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137040
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

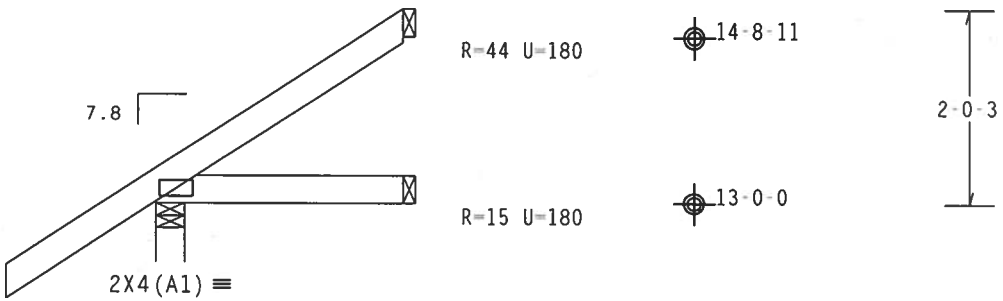
Wind reactions based on MWFRS pressures.

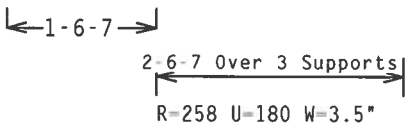
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

Scale =.5"/Ft.

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

NOV 17 '06

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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TC LL	20.0 PSF	REF R487-- 52672
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321097
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137027
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

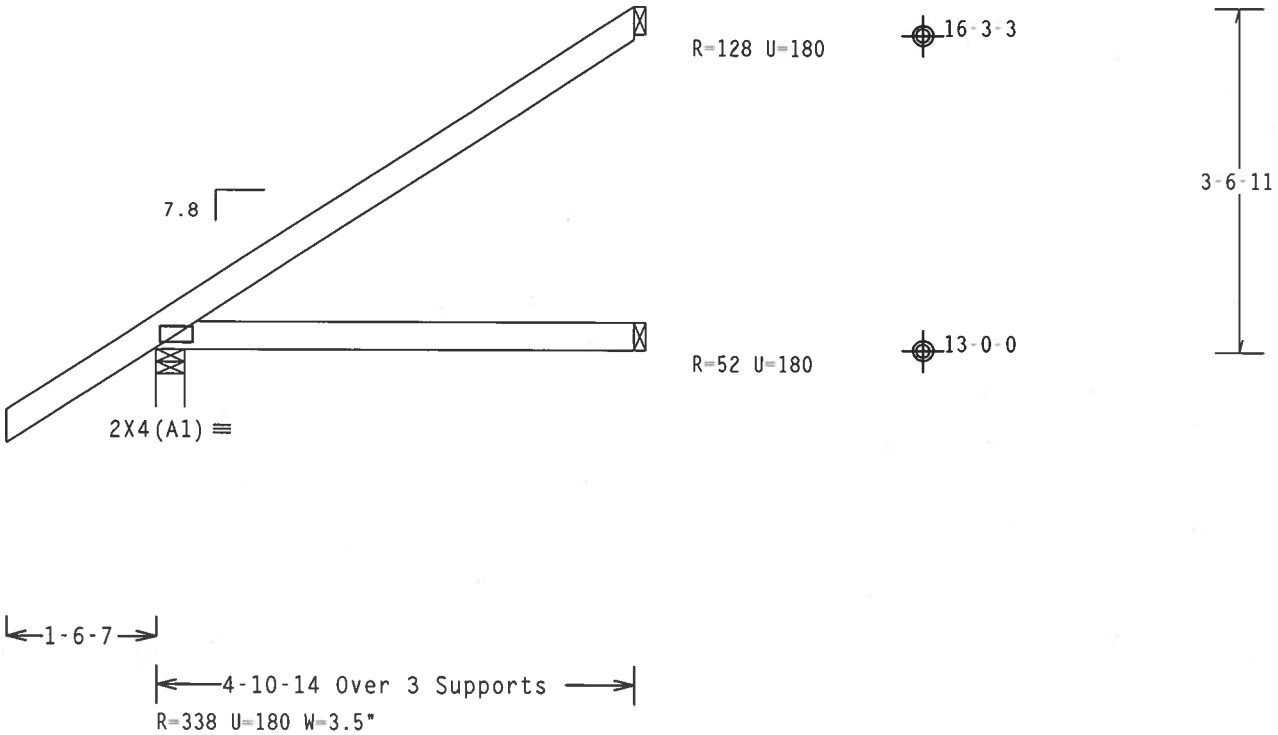
Wind reactions based on MWFRS pressures.

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

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

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

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.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
The Certificate of Authorization # [illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52673
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321098
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137031
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

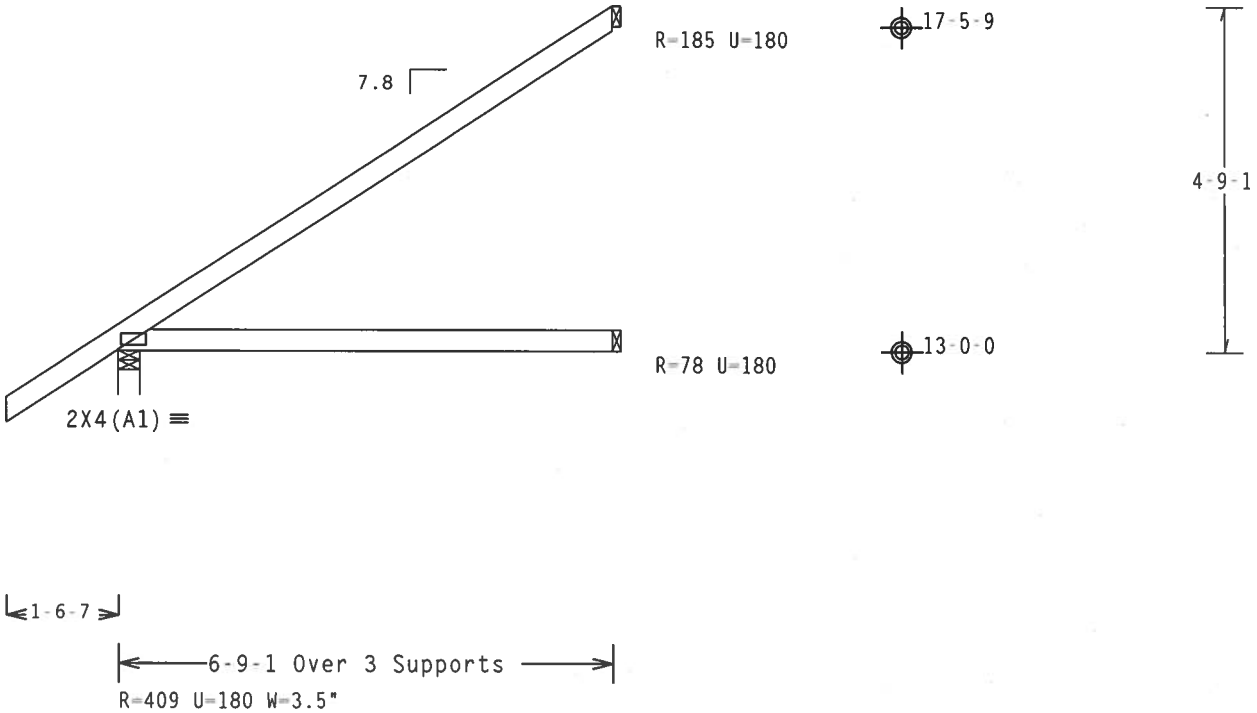
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.06 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate Authorization #

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

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52674
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321099
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137034
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

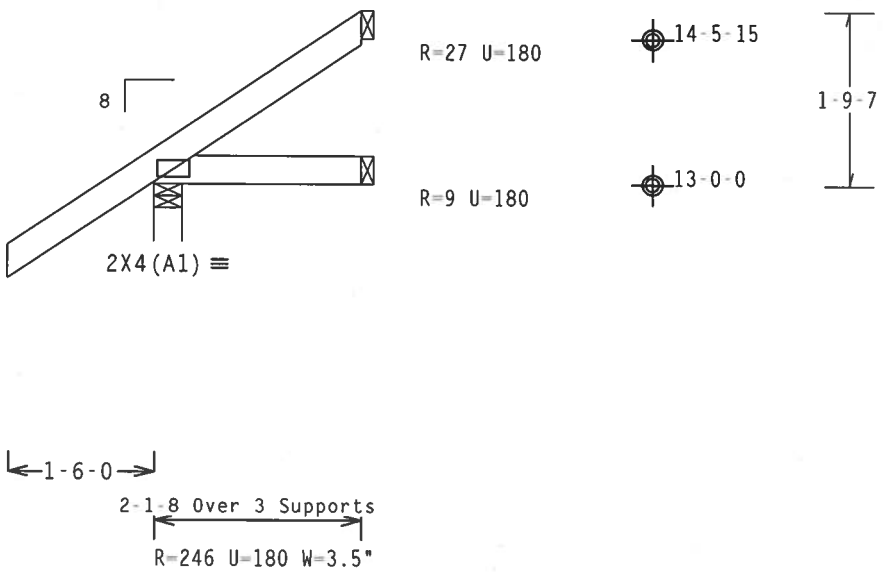
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12[illegible]TY:1 FL/-/4/-/-/R/-

Scale =.5"/Ft.

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ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 662

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17, 06

TC LL	20.0 PSF	REF R487-- 52675
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321100
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137036
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

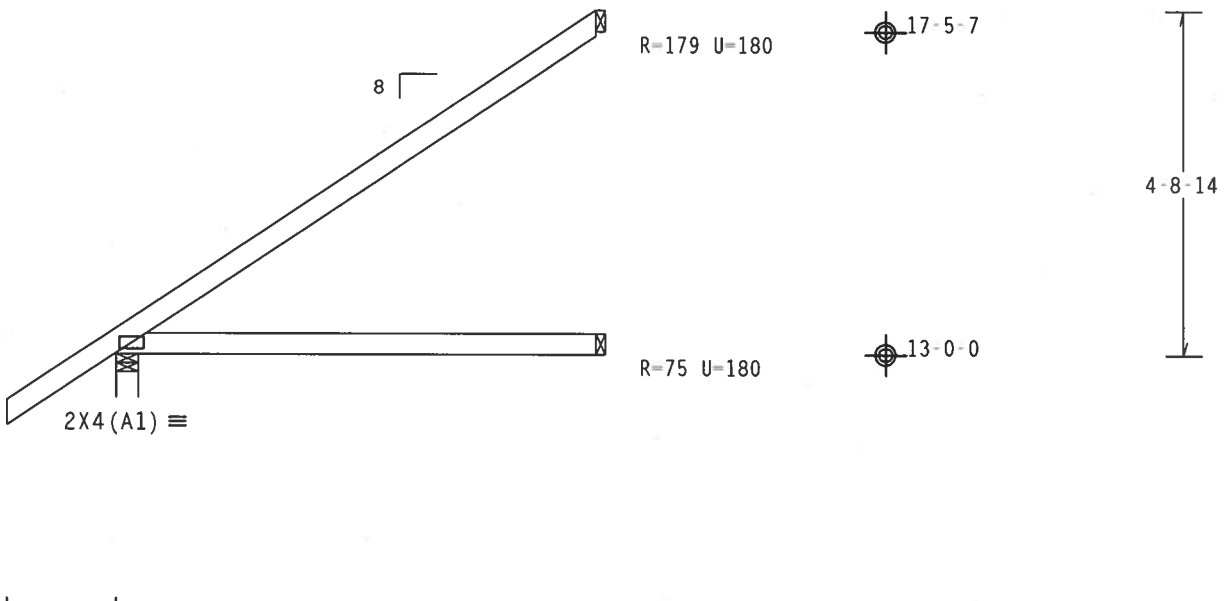
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.06 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52676
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321101
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137038
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T?F487_Z01

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 60 PLF at 0.00 to 60 PLF at 5.79
BC - From 20 PLF at 0.00 to 20 PLF at 5.79
TC - 650 LB Conc. Load at 0.56, 2.56, 4.56

Wind reactions based on MWFRS pressures.

End verticals not exposed to wind pressure.

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

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

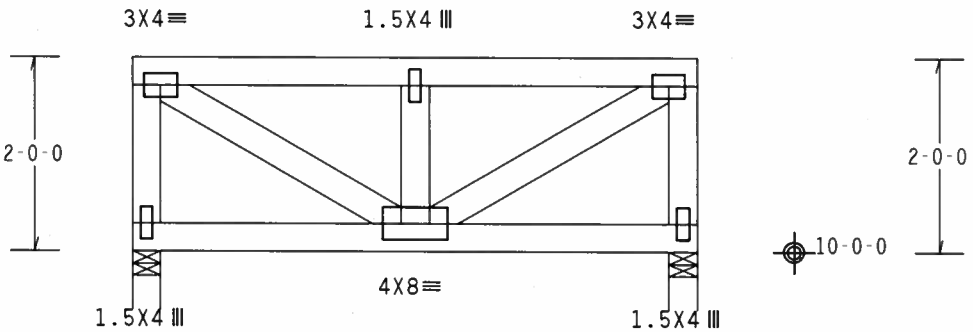
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @ 5.25" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

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

Truss must be installed as shown with top chord up.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 563

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
No 17 '06

TC LL	20.0 PSF	REF R487-- 52677
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321042
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137327
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

(6 248 Greg Mulvihill , ** HJZ1)

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

Wind reactions based on MWFRS pressures.

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

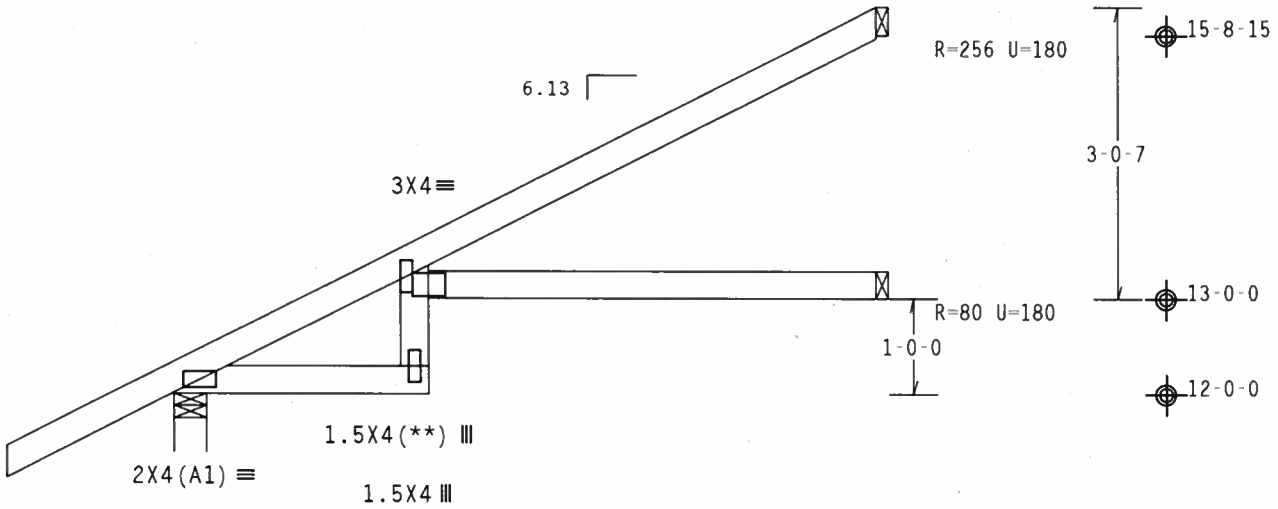
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

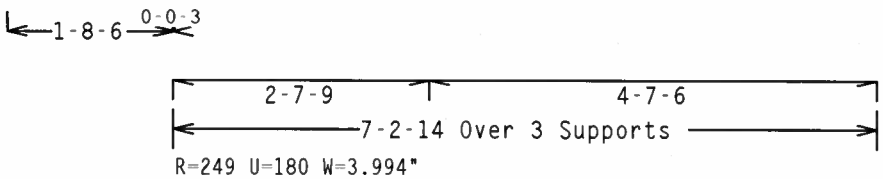
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Hipjack supports 5-1-7 setback jacks with no webs.

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.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6673

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 17 '06

TC LL	20.0 PSF	REF R487-- 52678
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321106
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17537
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

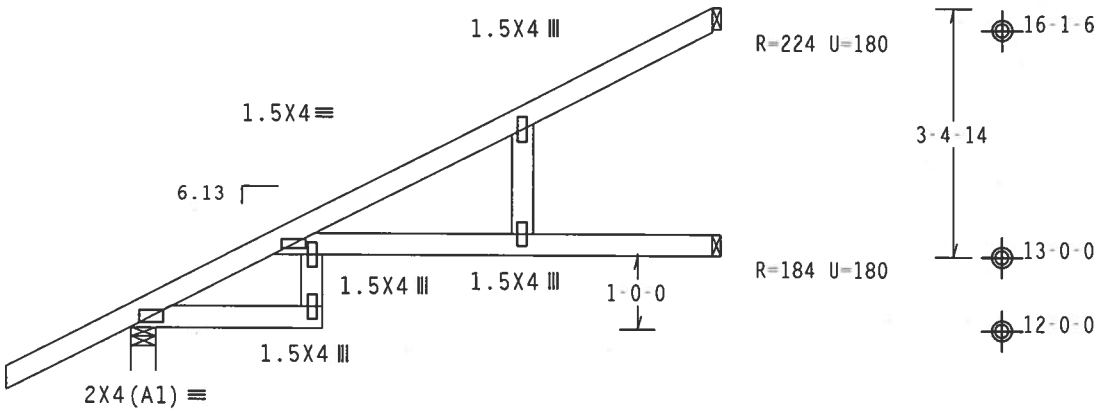
Hipjack supports 5-7-8 setback jacks with no webs.

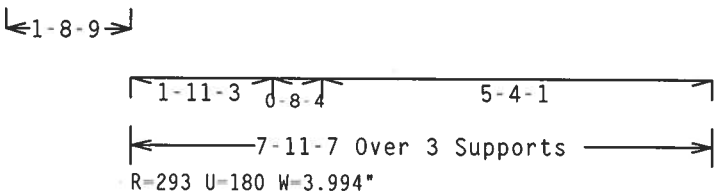
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER
LICENSE
No.59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF	R487-- 52679
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321108
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	136930
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

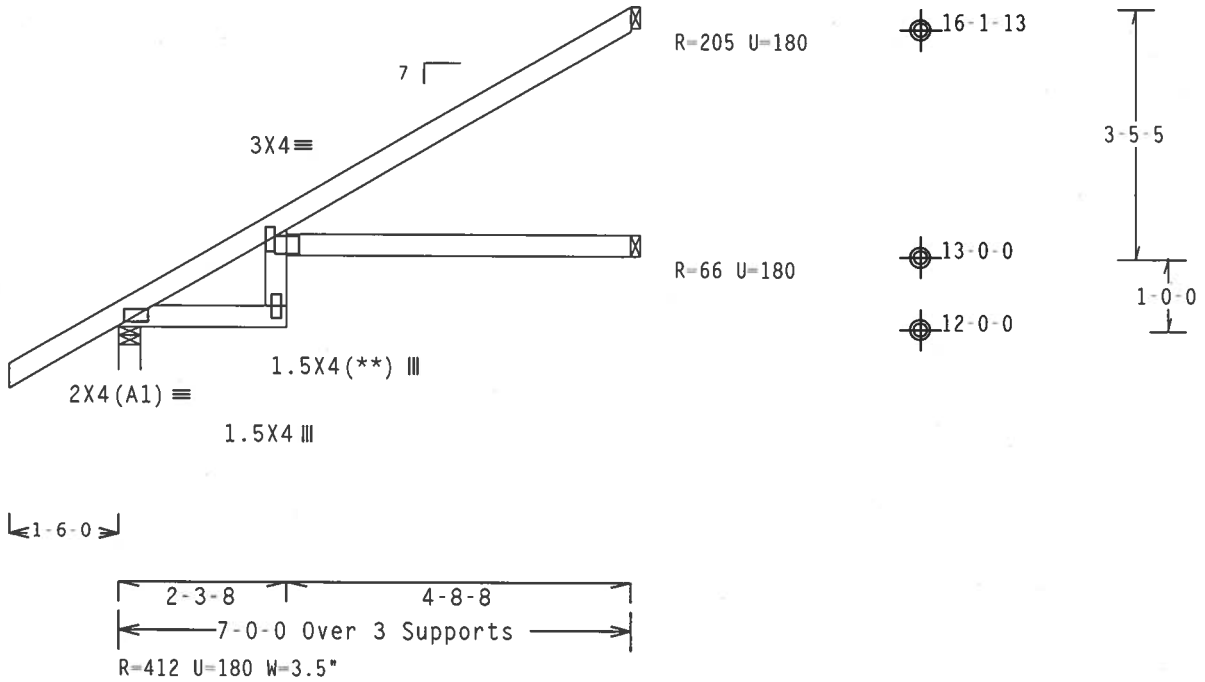
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1[illegible]TY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

PLT TYP. Wave

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52680
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321112
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17535
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

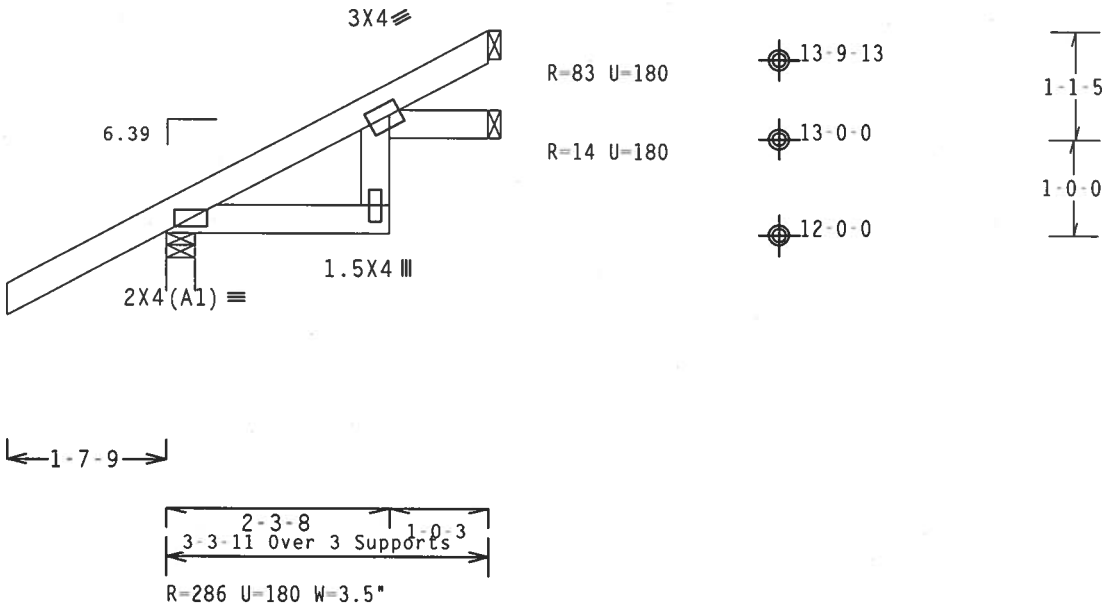
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF	R487-- 52681
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321114
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	17524
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

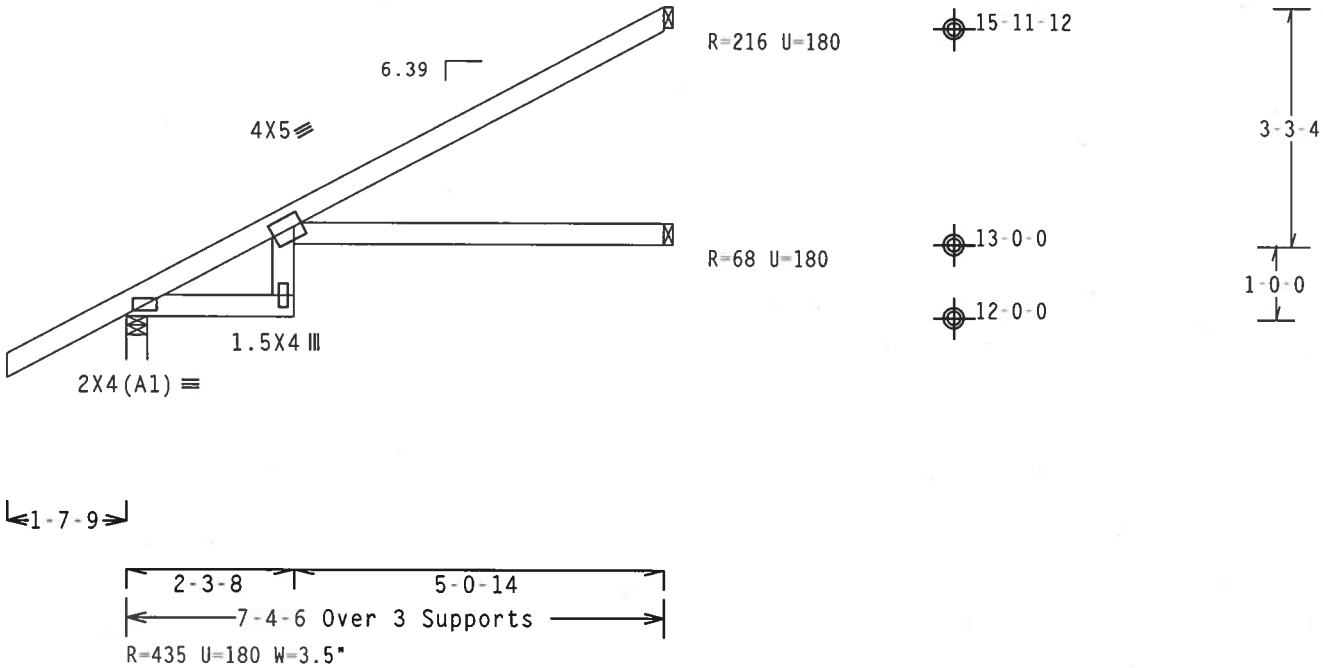
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Calculated horizontal deflection is 0.11" due to live load and 0.16" due to dead load.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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Nov 17 '06

TC LL	20.0 PSF	REF	R487-- 52682
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321110
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	17528
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_Z01

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

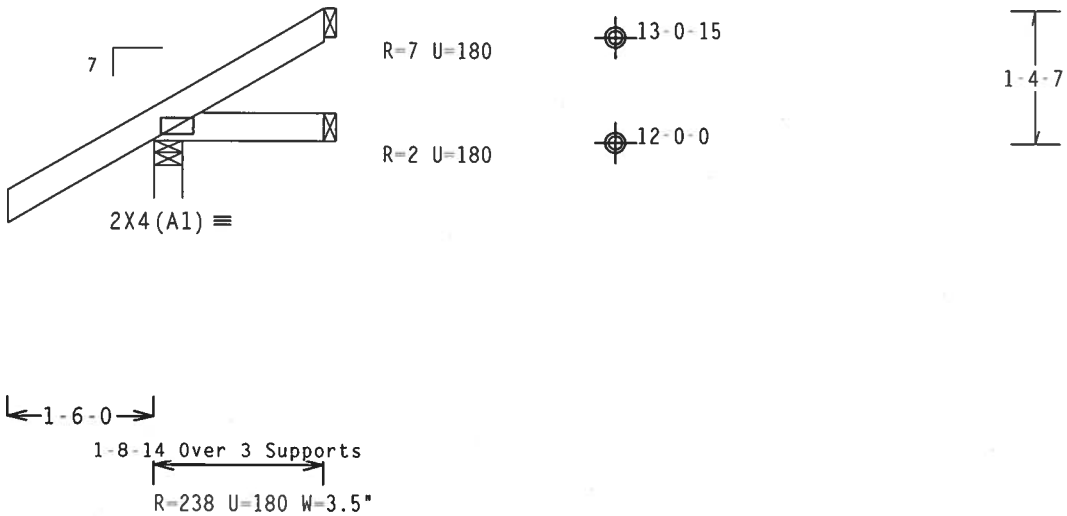
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52683
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321111
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 17531
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

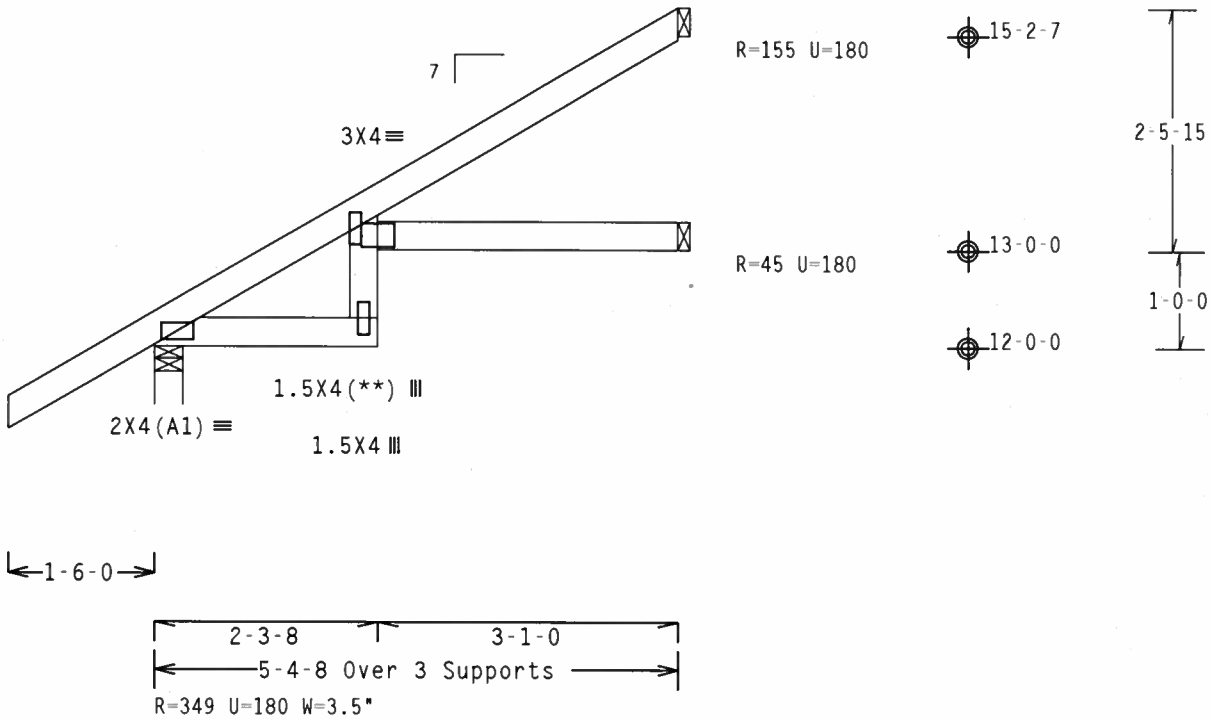
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

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Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52684
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321109
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17533
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.10" due to live load and 0.16" due to dead load.

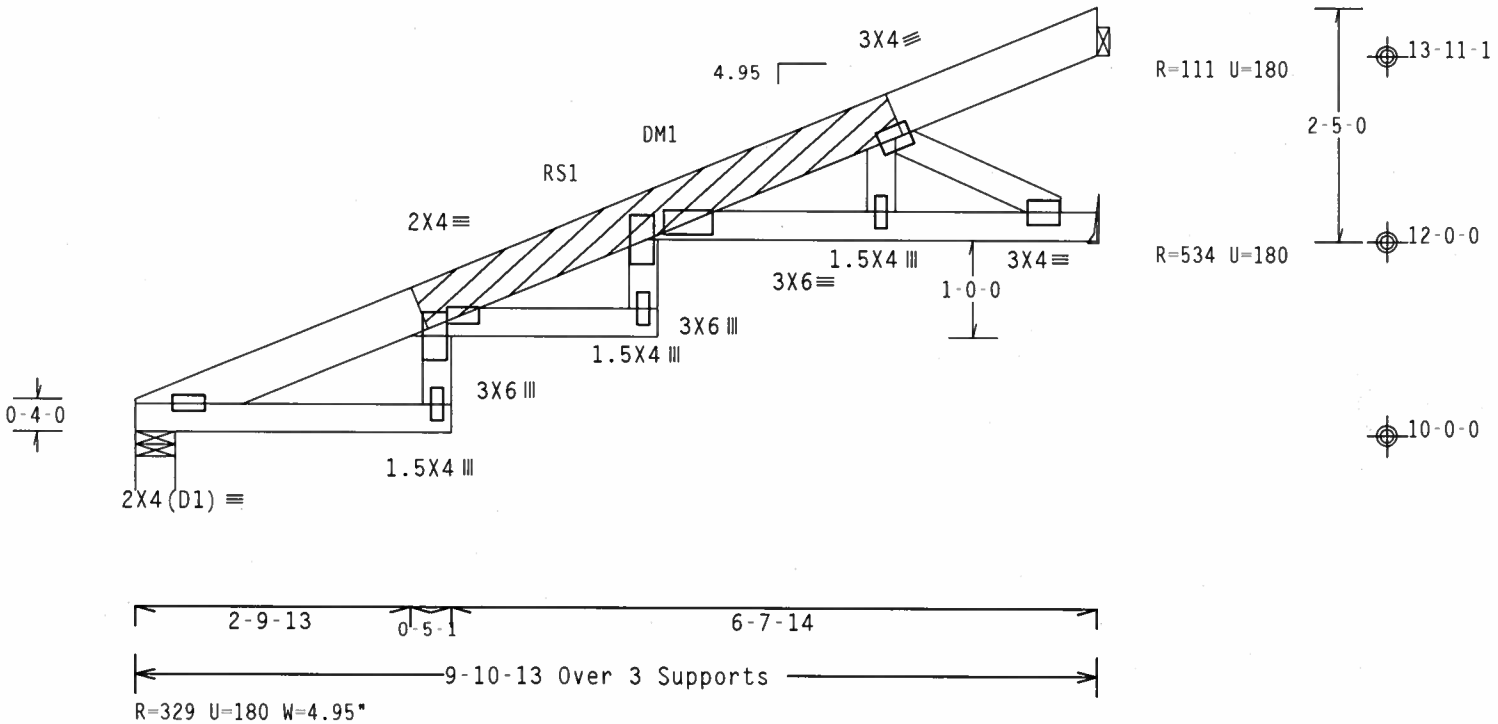
Hipjack supports 7-0-0 setback jacks with no webs.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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

RS1 (1) 2x6X5-3-7 SP #2 Top chord scab centered 5-5-5 from left end. Attach to one face of chord with (3) rows of 12d_Common_(0.148"x3.25",_min.)_nails @ 6" O.C., staggered 3".



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 [illegible]TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

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Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52685
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321015
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137000
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

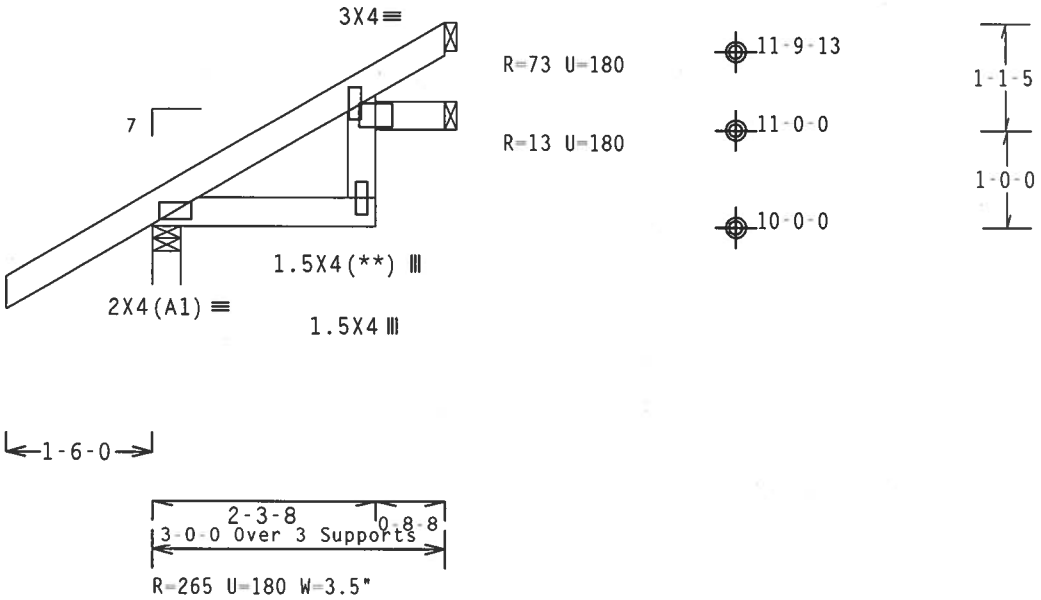
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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



Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.24.12[illegible] TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 1[illegible] '06

TC LL	20.0 PSF	REF R487-- 52686
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321018
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 136925
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

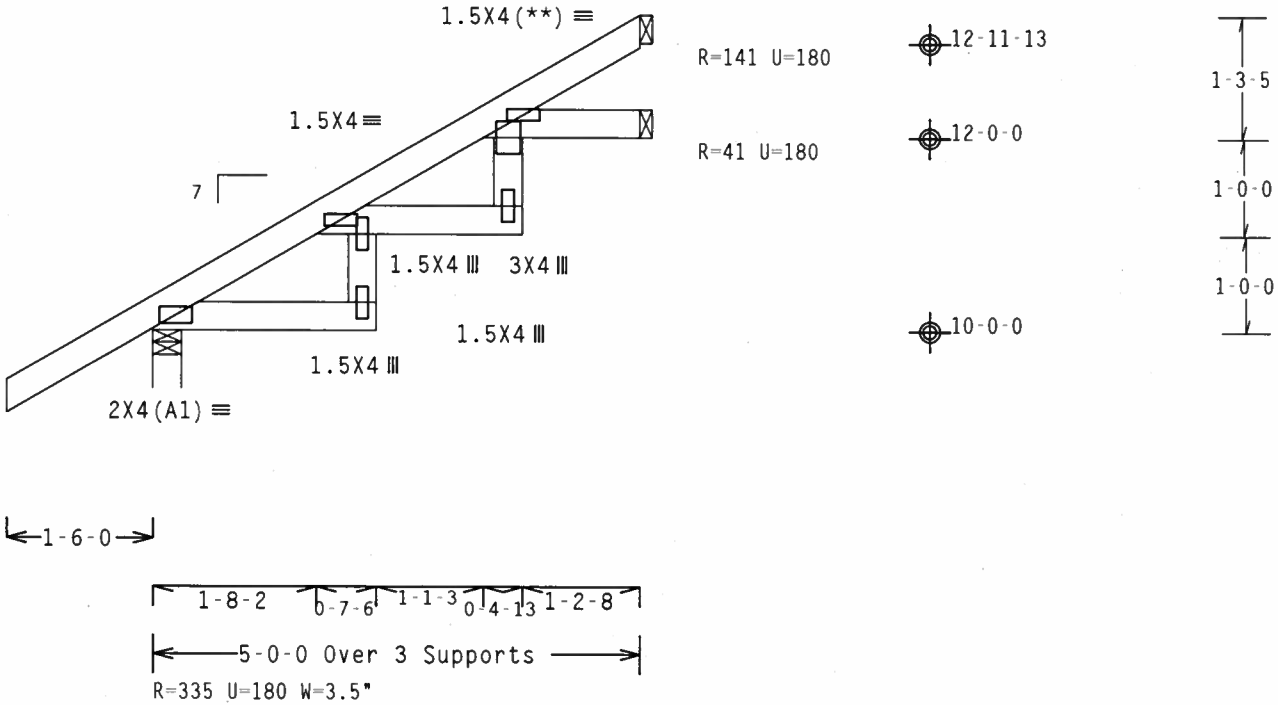
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6[illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 17 '06

TC LL	20.0 PSF	REF	R487-- 52687
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321016
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	136923
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.11" due to live load and 0.17" due to dead load.

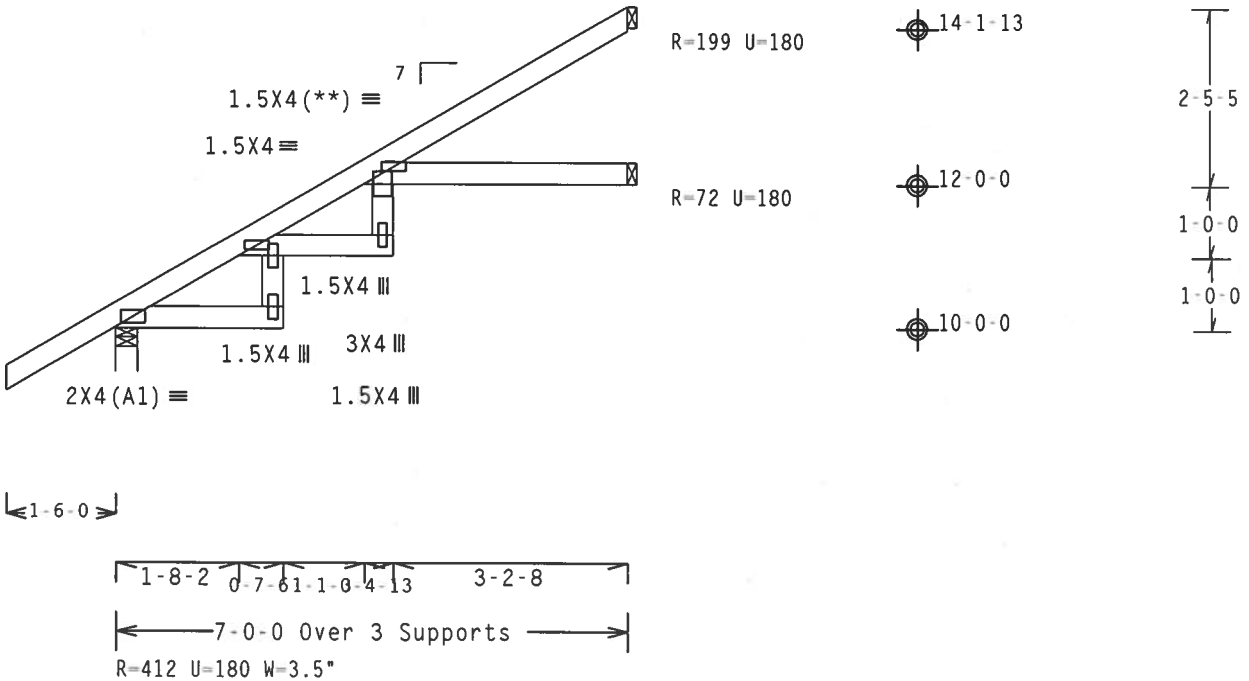
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

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

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

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.



Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.24.1 [illegible]TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.375"/Ft.

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

Nov 17 '06

TC LL	20.0 PSF	REF	R487-- 52688
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321013
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	136919
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_Z01

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization #

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

Wind reactions based on MWFRS pressures.

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

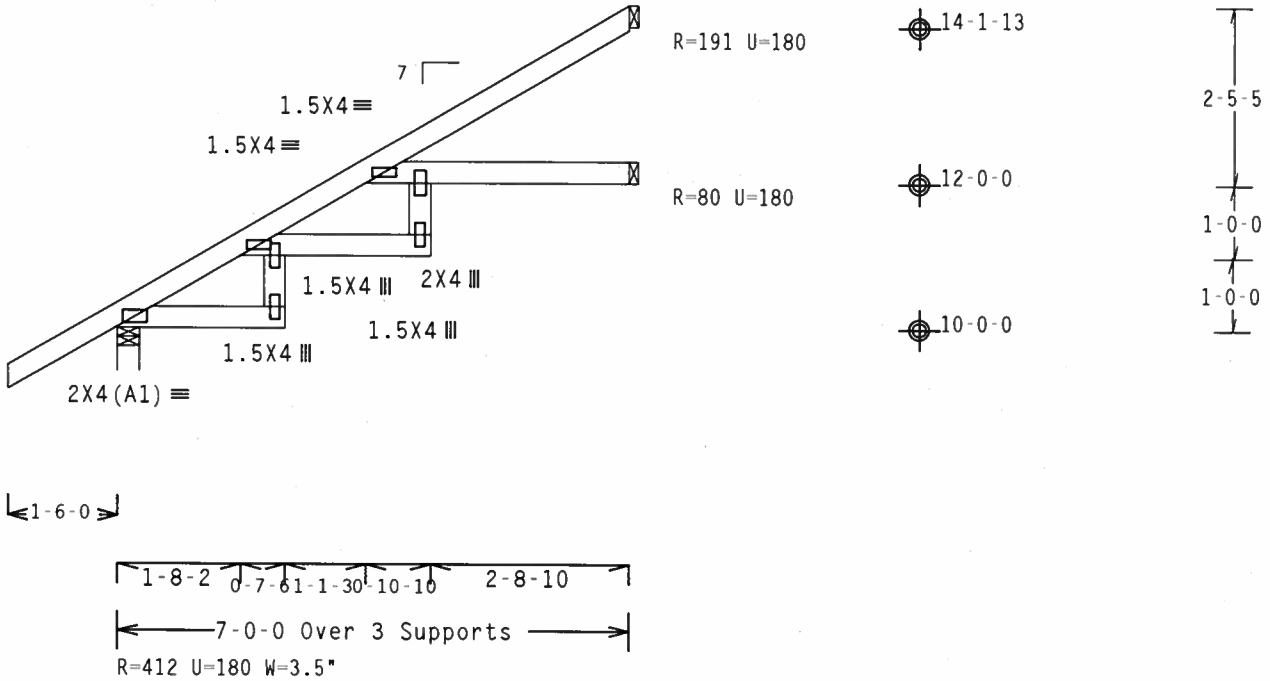
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT CHORD ENDS.

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

Calculated horizontal deflection is 0.10" due to live load and 0.16" due to dead load.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 [illegible] TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 662

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 06

TC LL	20.0 PSF	REF R487-- 52689
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321017
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 136921
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

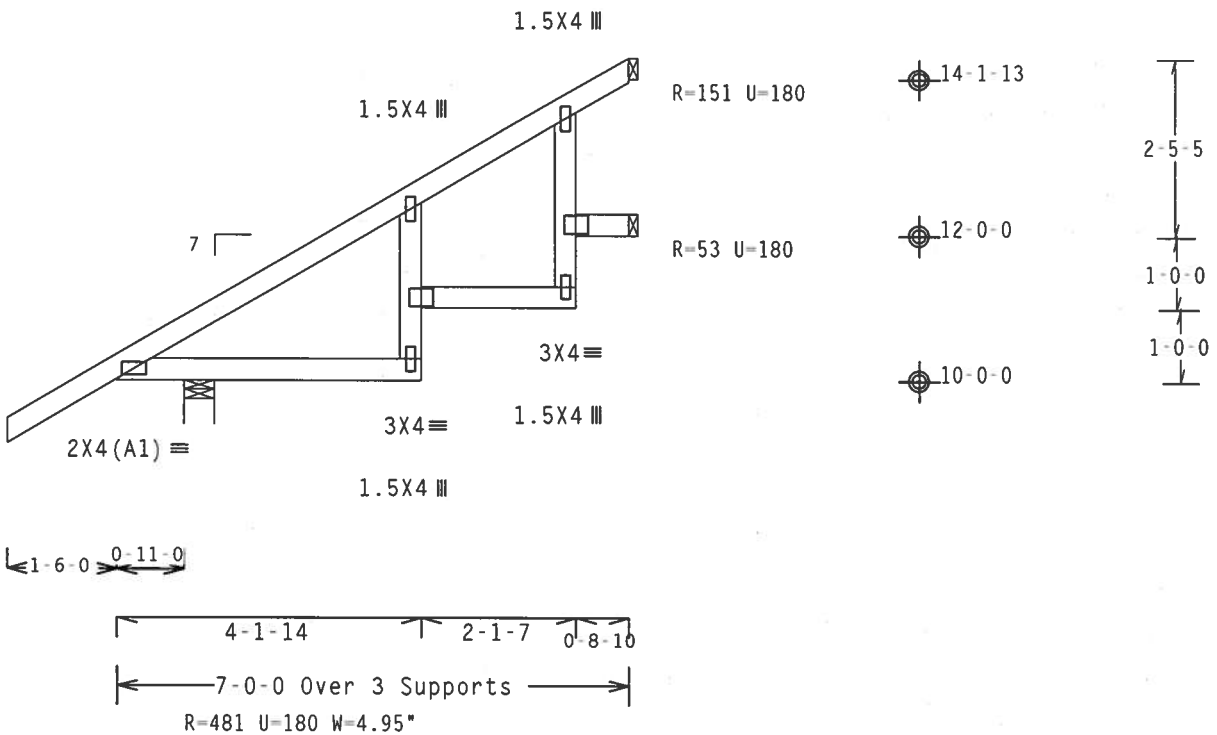
Wind reactions based on MWFRS pressures.

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

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

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

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.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1[illegible] QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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ARTHUR R. FISHER
LICENSE
No.39687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52690
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321142
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17508
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

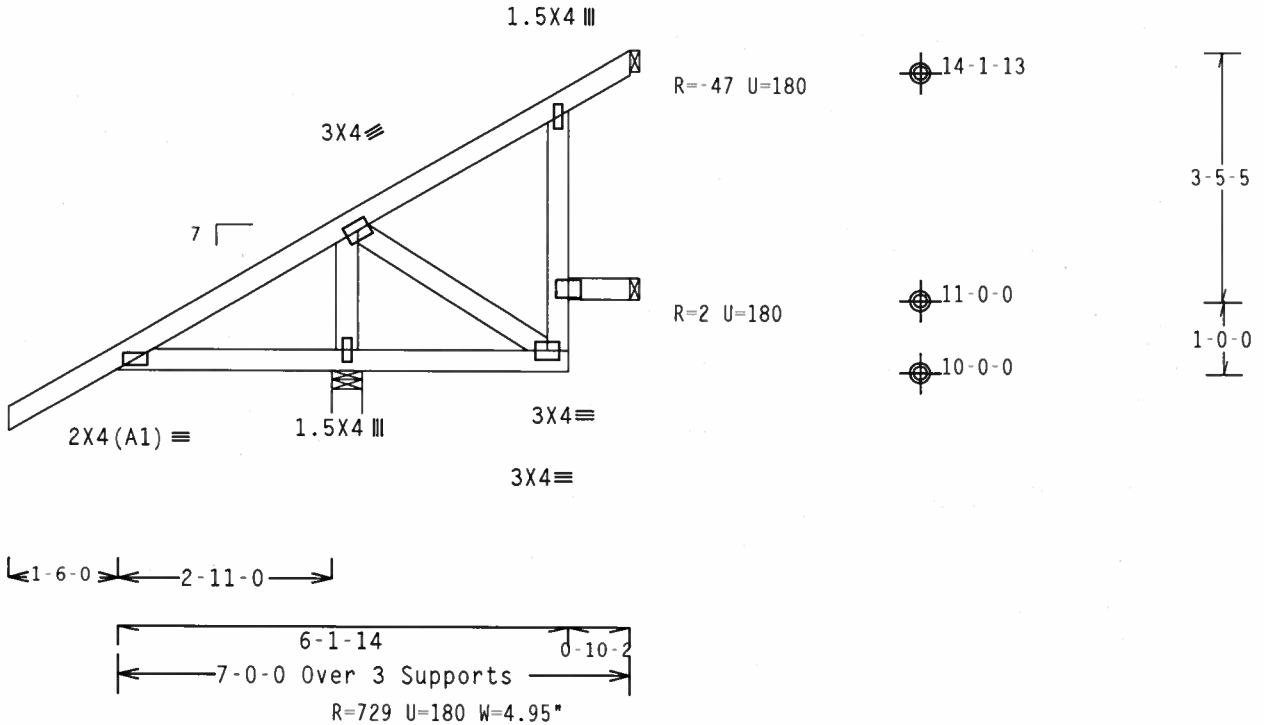
Wind reactions based on MWFRS pressures.

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

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

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

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.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

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ARTHUR R. FISHER LICENSE No 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52691
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321143
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17506
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

(6 248 Greg Mulvihill , ** K1)

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

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

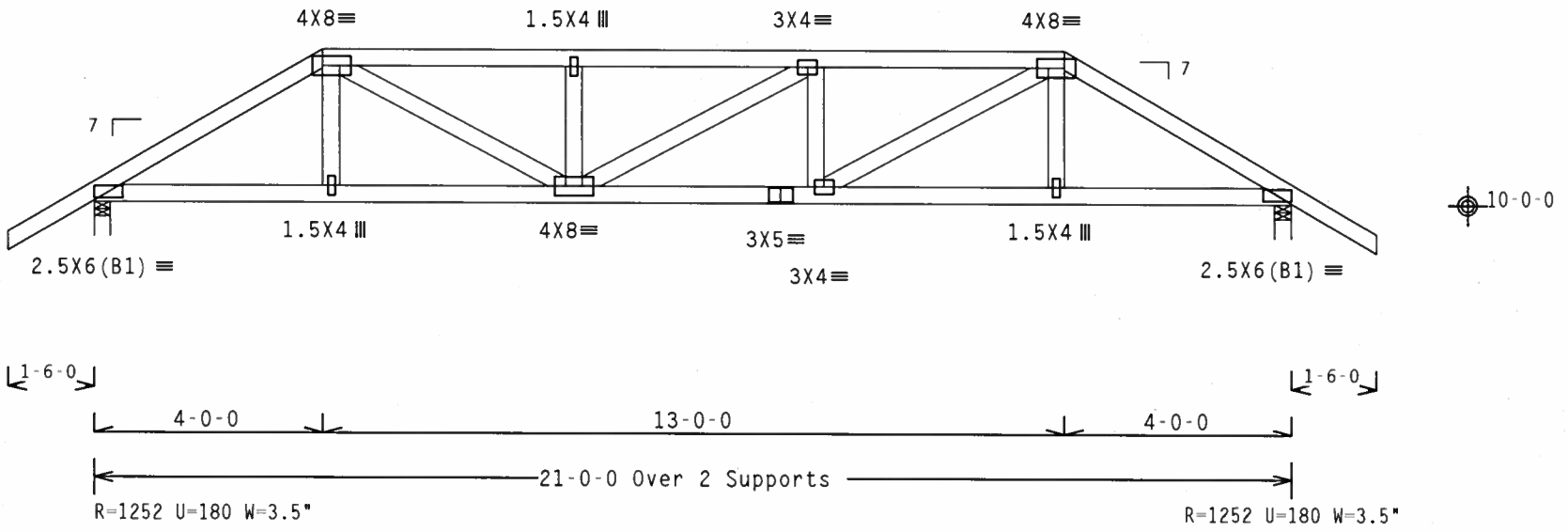
Wind reactions based on MWFRS pressures.

#1 hip supports 4-0-0 jacks with no webs.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate [illegible]ization #

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

NOV 17 '06

TC LL	20.0 PSF	REF R487-- 52692
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321113
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137008
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

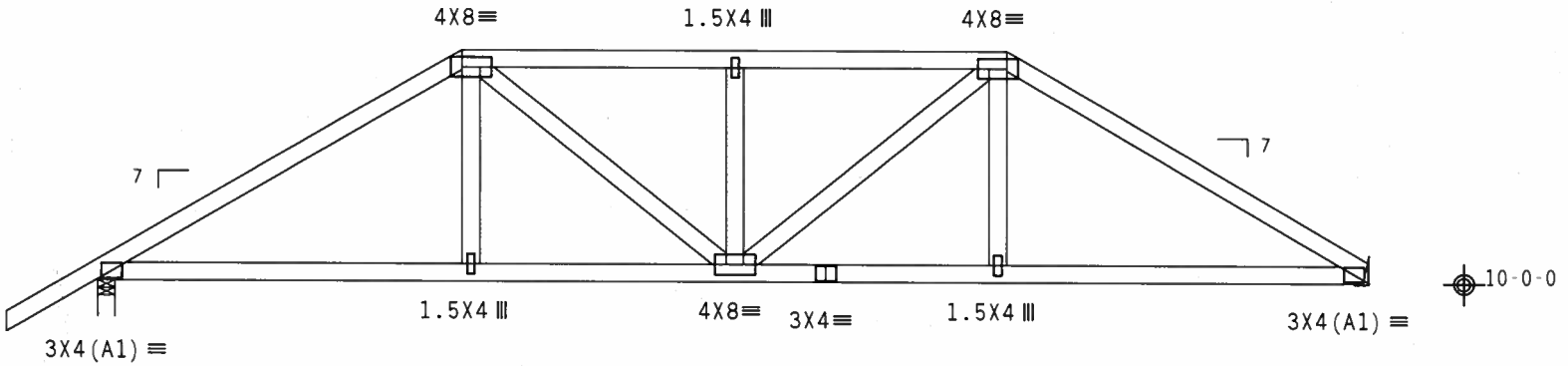
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

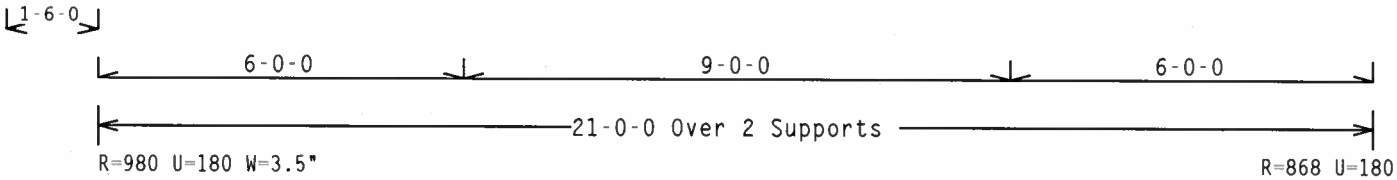
Wind reactions based on MWFRS pressures.

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

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

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # [illegible]

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52693
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321127
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137016
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_Z01

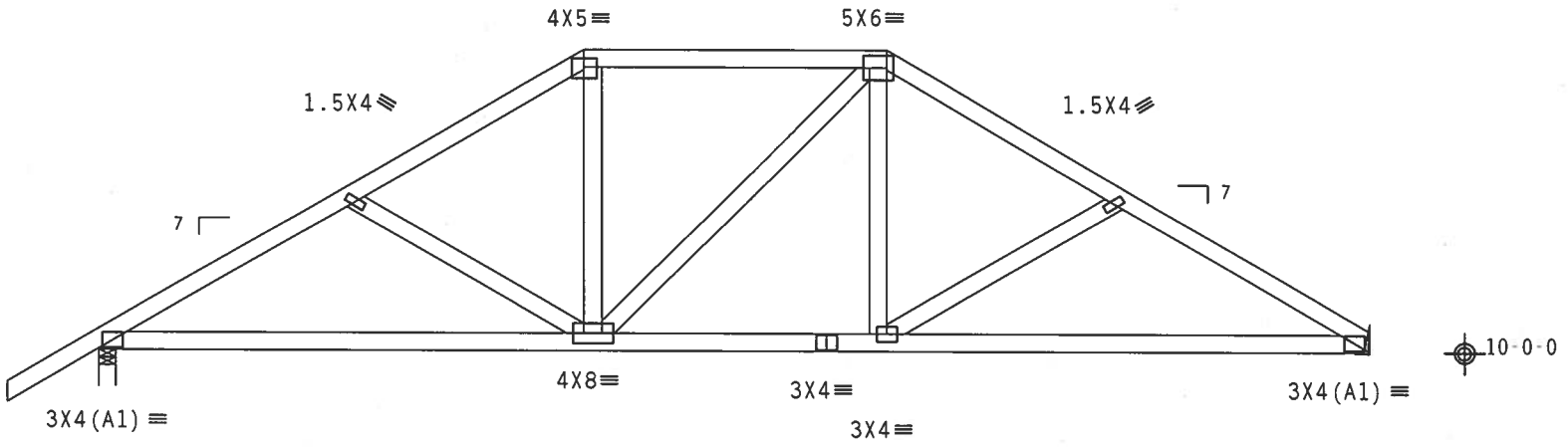
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

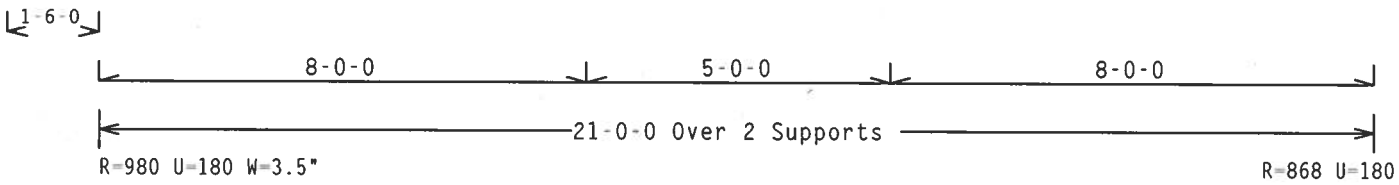
Wind reactions based on MWFRS pressures.

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

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

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
The Certificate [illegible]zation #

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52694
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321130
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137024
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

(6-248---- Greg Mulvihill -- , ** - K4)

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

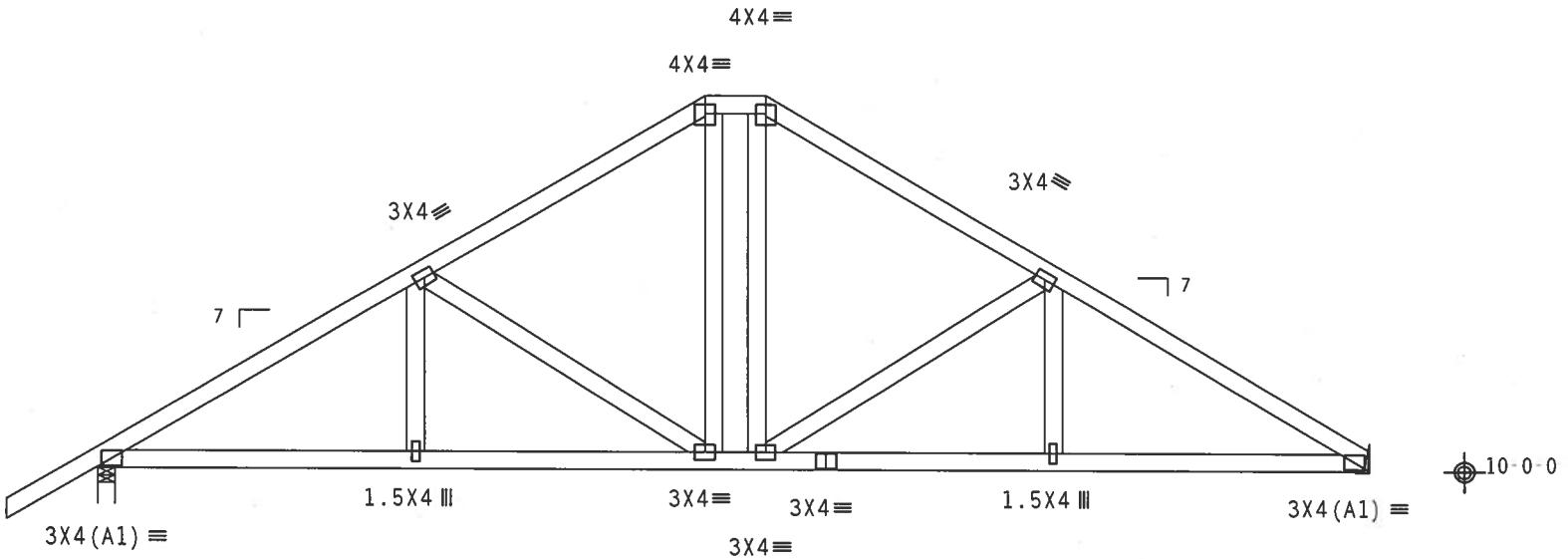
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

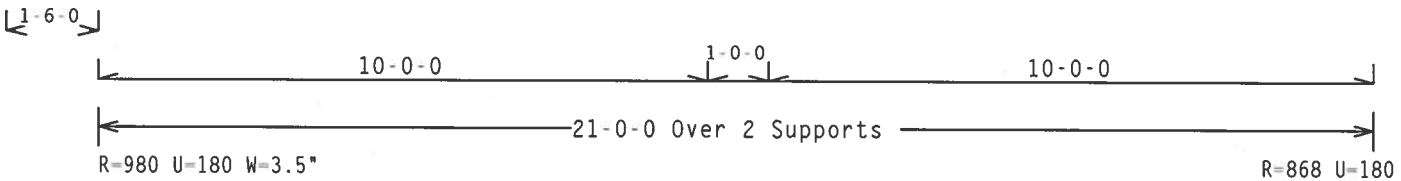
Wind reactions based on MWFRS pressures.

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

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

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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

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ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52695
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321128
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137427
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

(6 248 Greg Mulvihill , ** KK1)

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

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

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

Wind reactions based on MWFRS pressures.

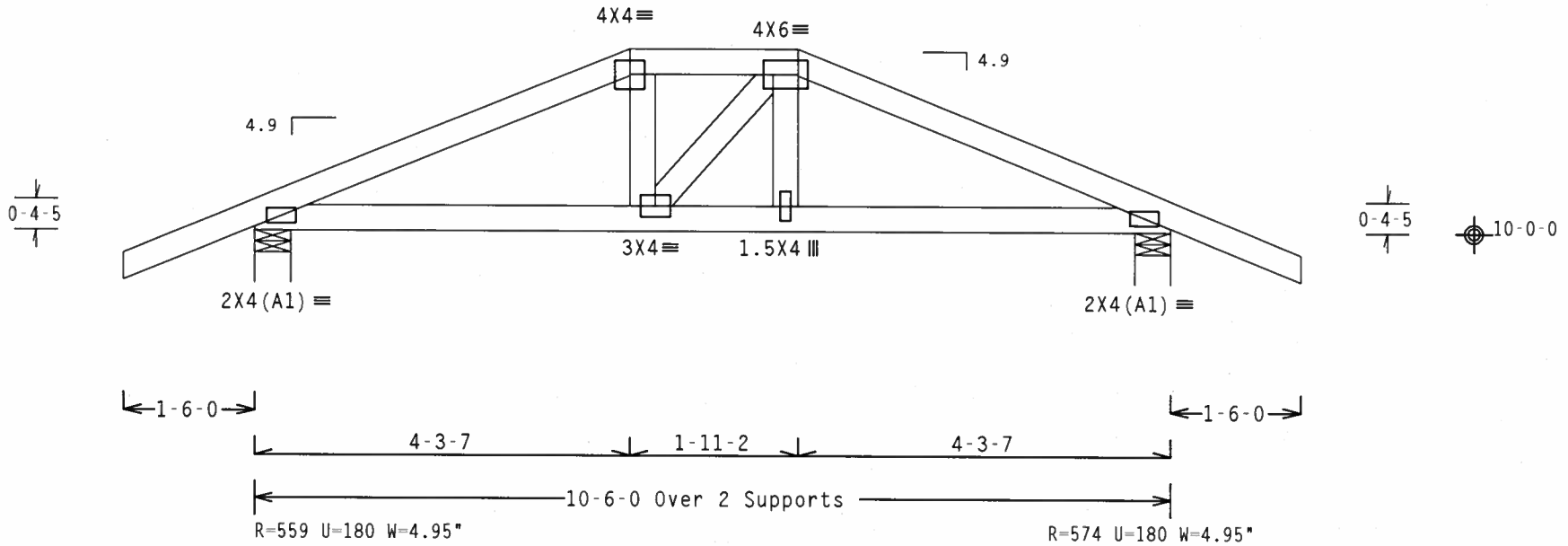
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

TC -	From	62 PLF	at	-1.50	to	62 PLF	at	12.00
BC -	From	4 PLF	at	-1.50	to	4 PLF	at	0.00
BC -	From	20 PLF	at	0.00	to	20 PLF	at	10.50
BC -	From	4 PLF	at	10.50	to	4 PLF	at	12.00

TC -	-56 LB	Conc. Load	at	1.54,	8.96	
TC -	23 LB	Conc. Load	at	3.00,	7.50	
TC -	29 LB	Conc. Load	at	4.29,	6.21	
TC -	63 LB	Conc. Load	at	5.25		
BC -	-15 LB	Conc. Load	at	1.54,	8.96	
BC -	7 LB	Conc. Load	at	3.00,	4.29,	6.21, 7.50
BC -	24 LB	Conc. Load	at	5.25		



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6[illegible]

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52696
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321065
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137777
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 10.50
BC - From 20 PLF at 0.00 to 20 PLF at 10.50
PLB- 172 LB Conc. Load at (0.81,10.04), (2.81,10.04), (4.81,10.04) (5.69,10.04), (7.69,10.04), (9.69,10.04)

Wind reactions based on MWFRS pressures.

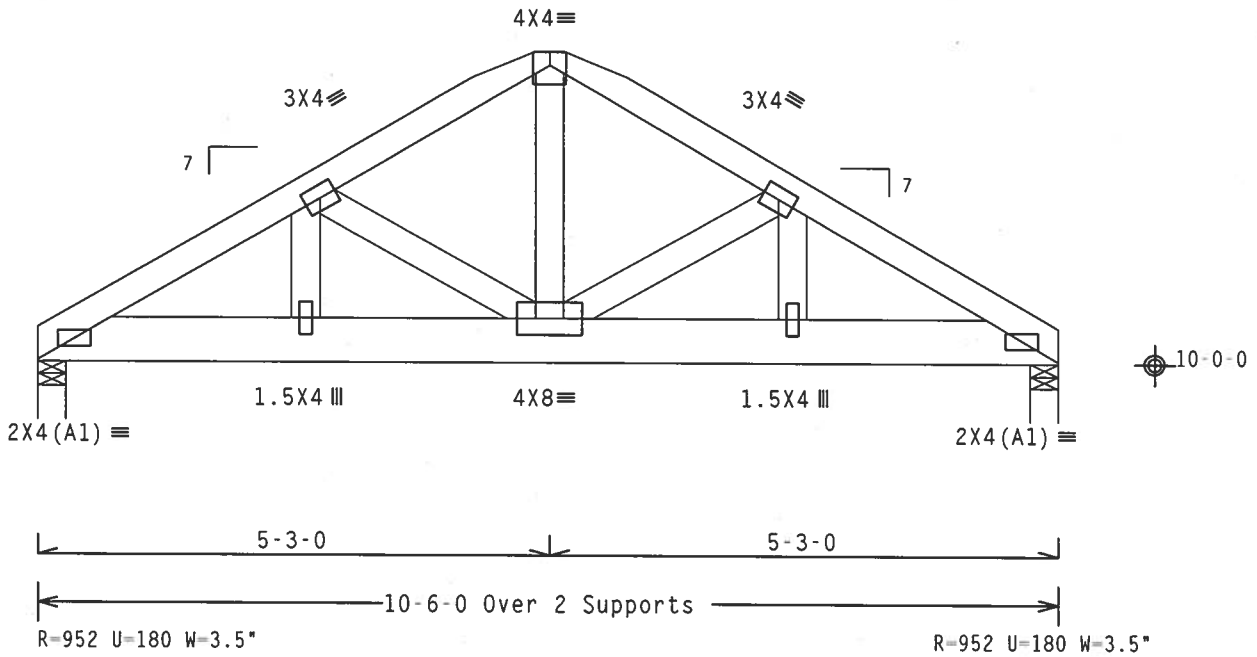
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

2 COMPLETE TRUSSES REQUIRED

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

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6627

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52697
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321070
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137782
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2 :B1, B5 2x4 SP #2 Dense:
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

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

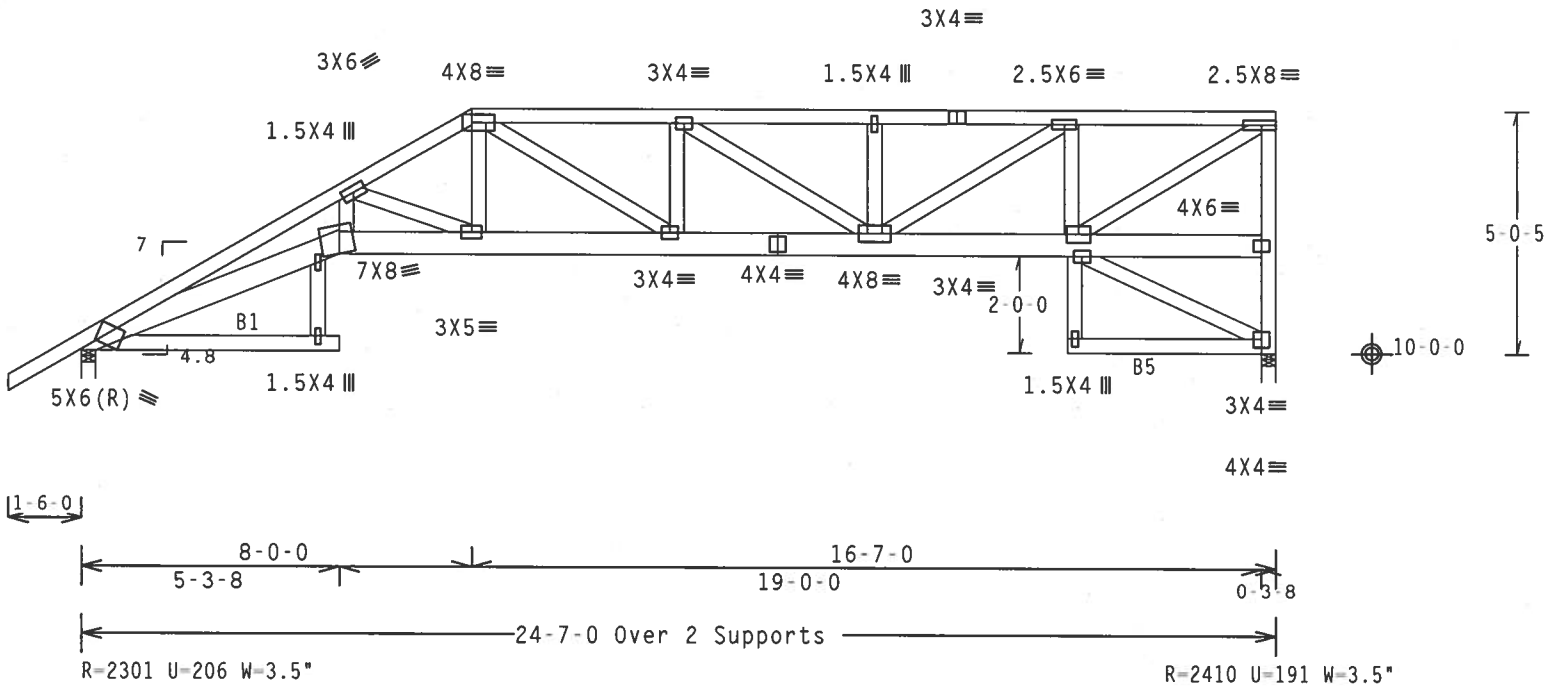
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

2 COMPLETE TRUSSES REQUIRED

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

Right end vertical not exposed to wind pressure.

#1 hip supports 8-0-0 jacks W/2 panel TC and no end vert.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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

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ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6[illegible]

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52698
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321140
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137233
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W10 2x4 SP #2 Dense:

Wind reactions based on MWFRS pressures.

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

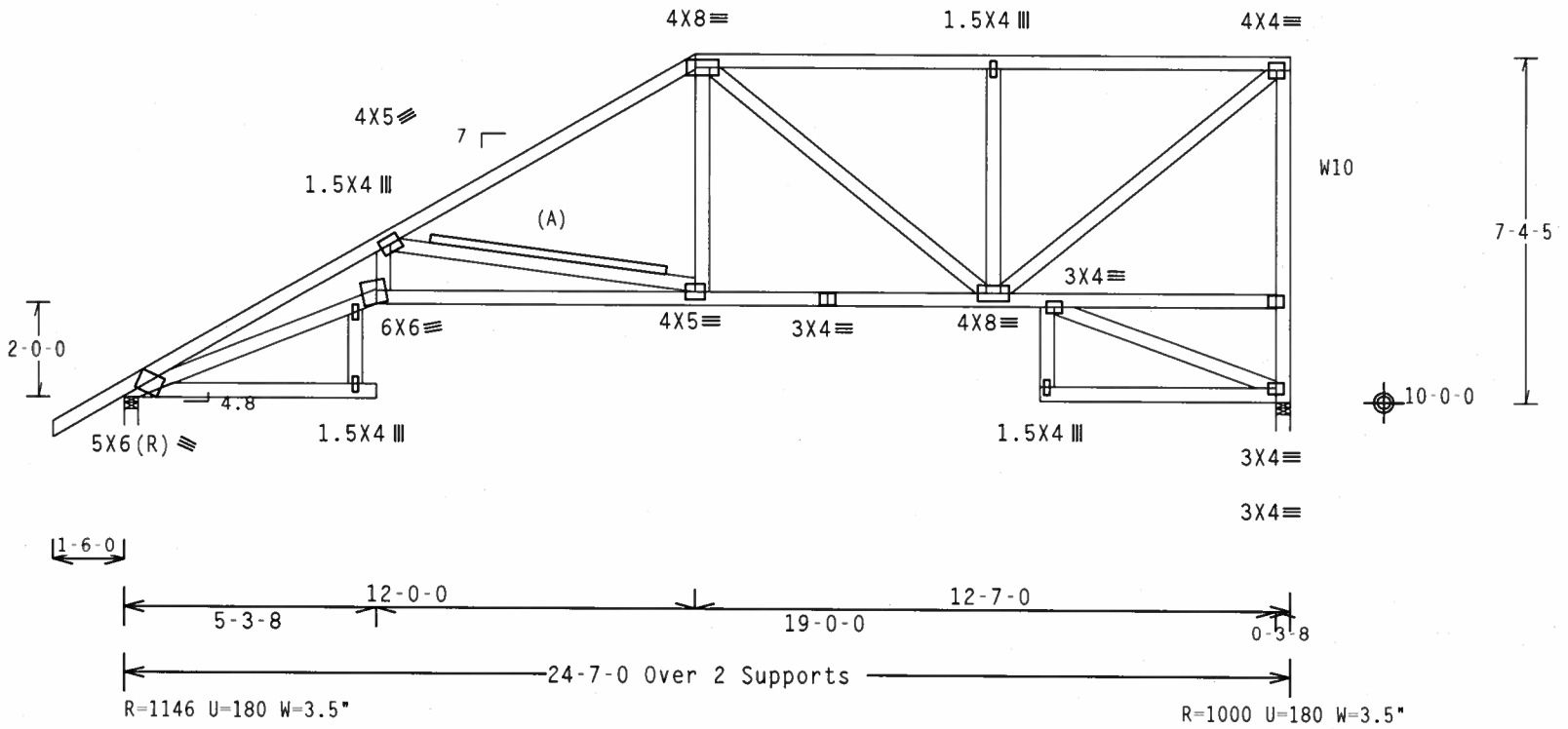
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

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

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # 662

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF	R487-- 52699
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321117
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137203
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

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

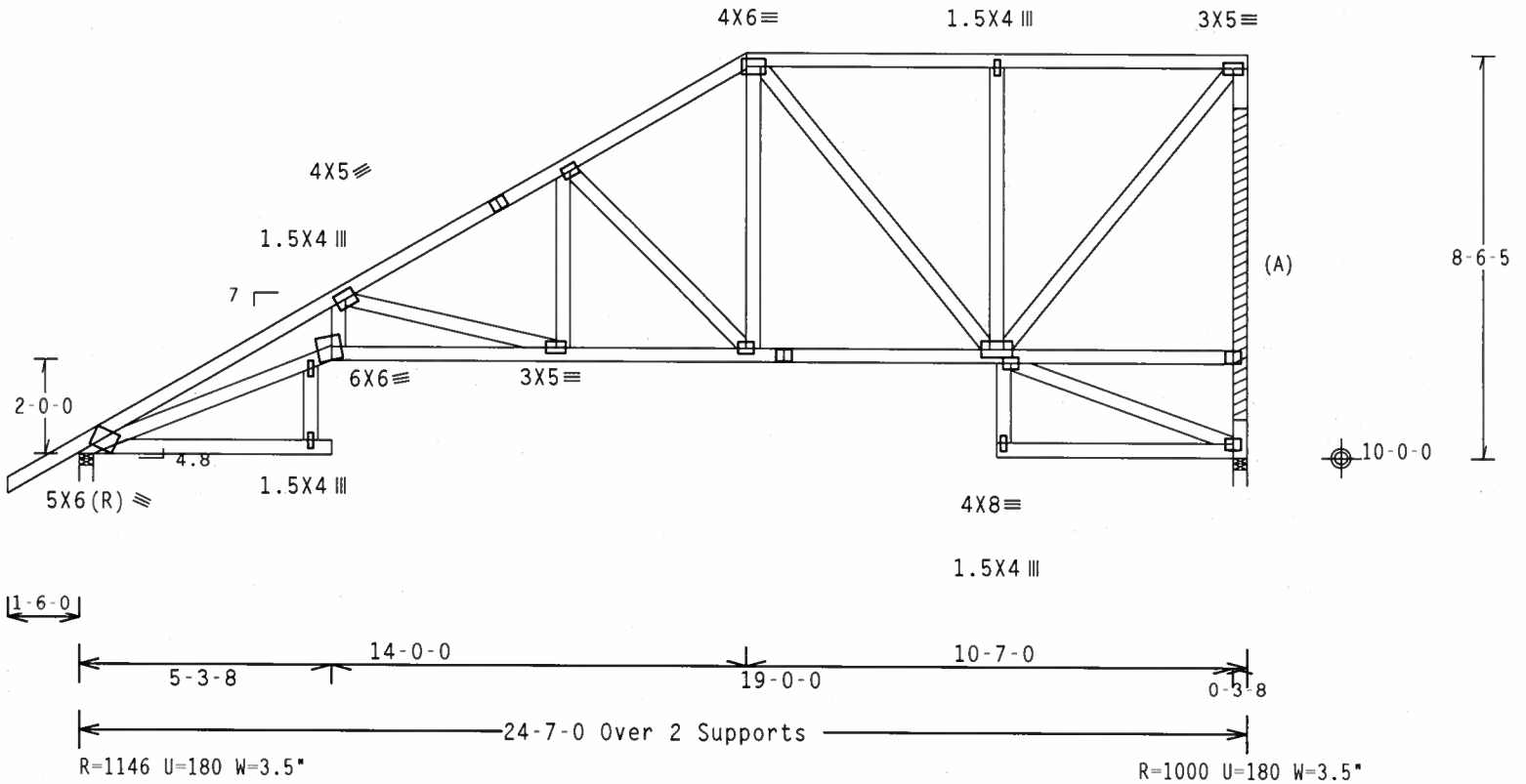
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

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

Right end vertical not exposed to wind pressure.

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 06

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 667

TC LL	20.0 PSF	REF R487-- 52700
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321133
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137195
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W12 2x4 SP #2 Dense:

Wind reactions based on MWFRS pressures.

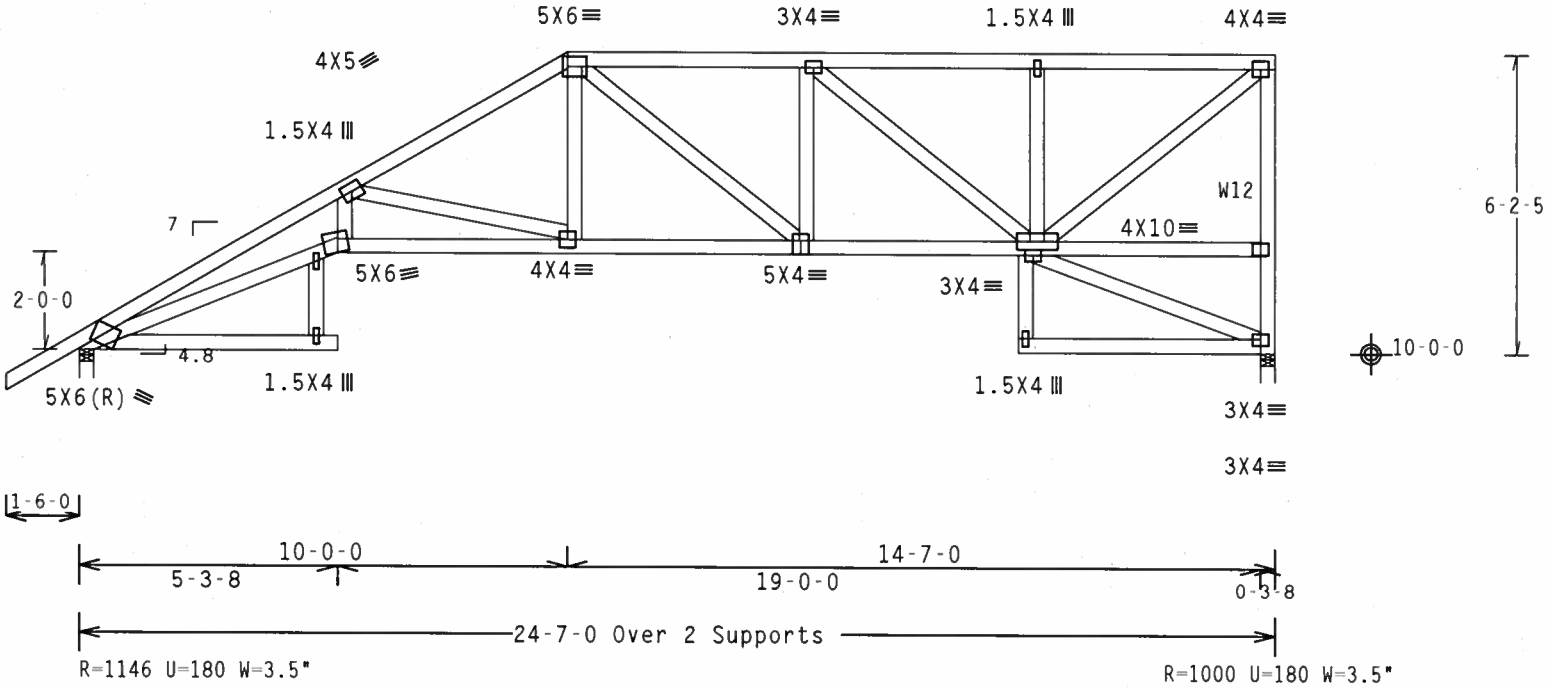
Calculated horizontal deflection is 0.12" due to live load and 0.19" due to dead load.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

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

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 17 '06

TC LL	20.0 PSF	REF R487-- 52701
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321104
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137211
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

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

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.14" due to live load and 0.21" due to dead load.

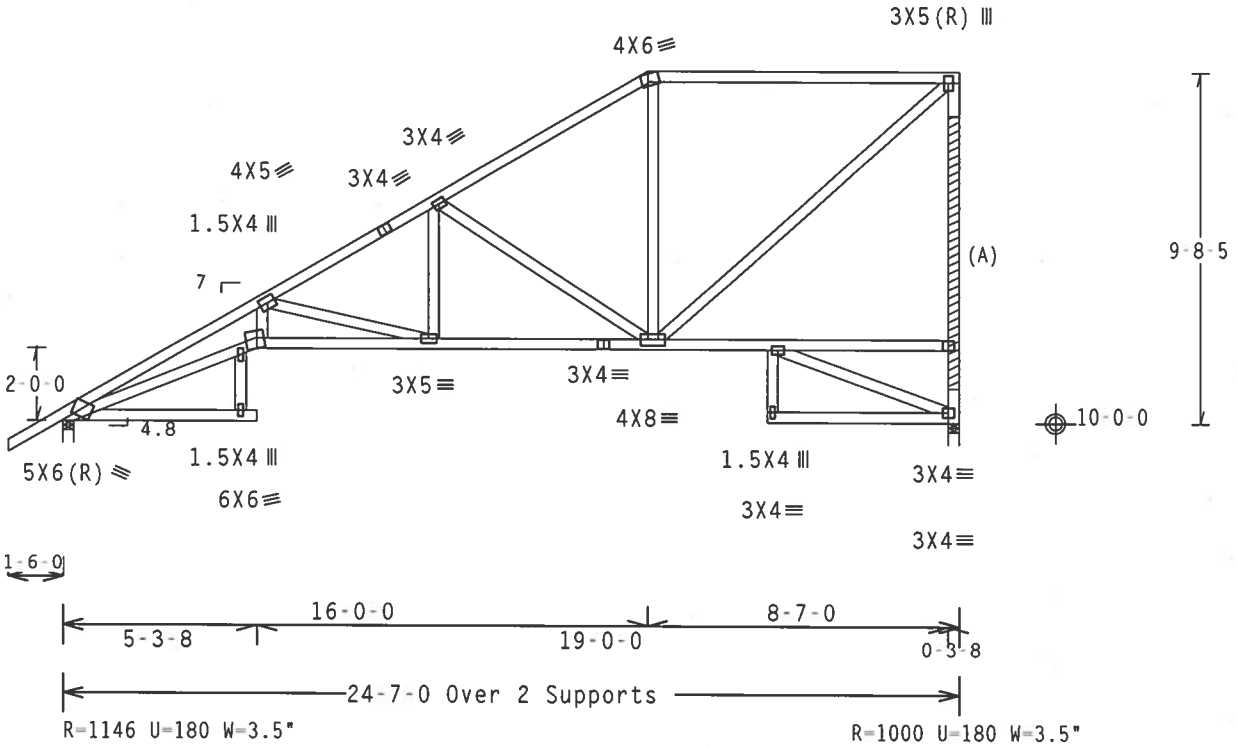
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

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

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
The Certificate of Authorization #

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52702
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321134
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137187
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

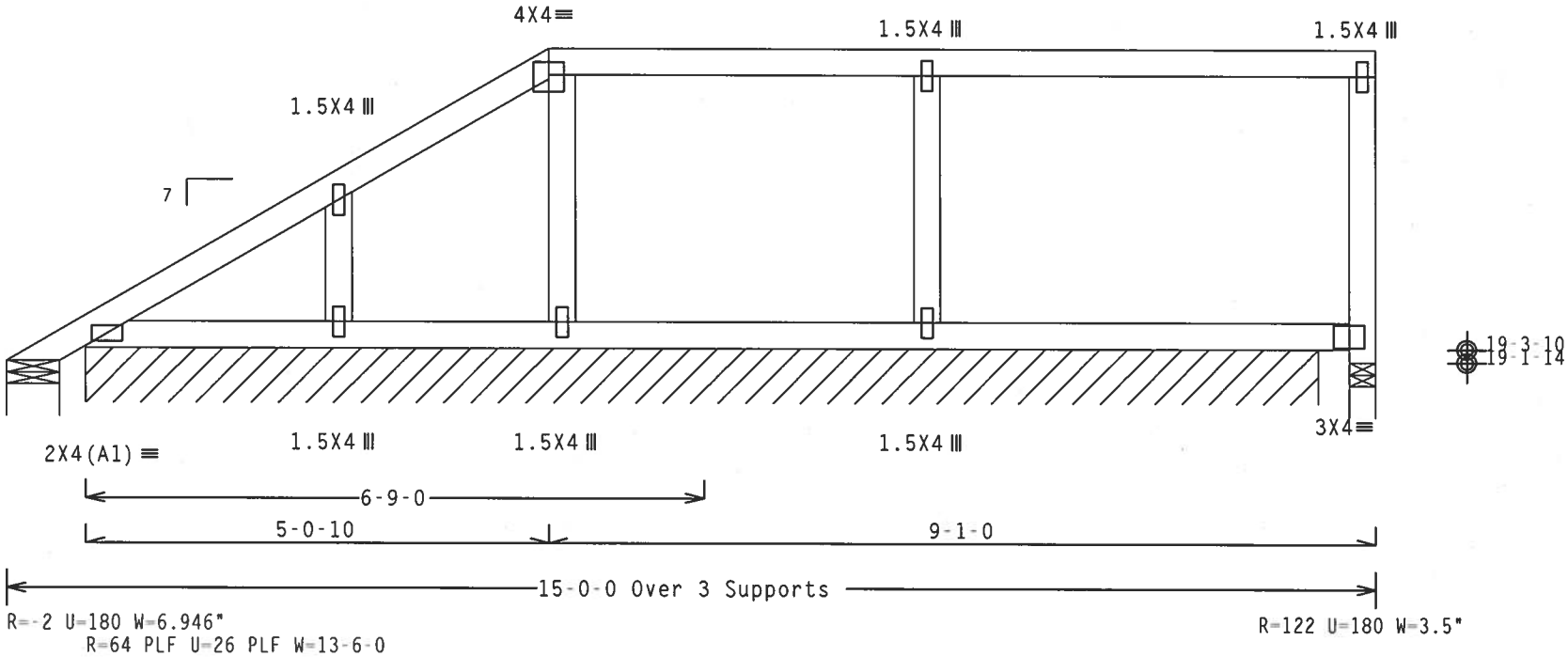
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.88 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

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1950 Marley Drive
Haines City, FL 33844
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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52703
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321050
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137357
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

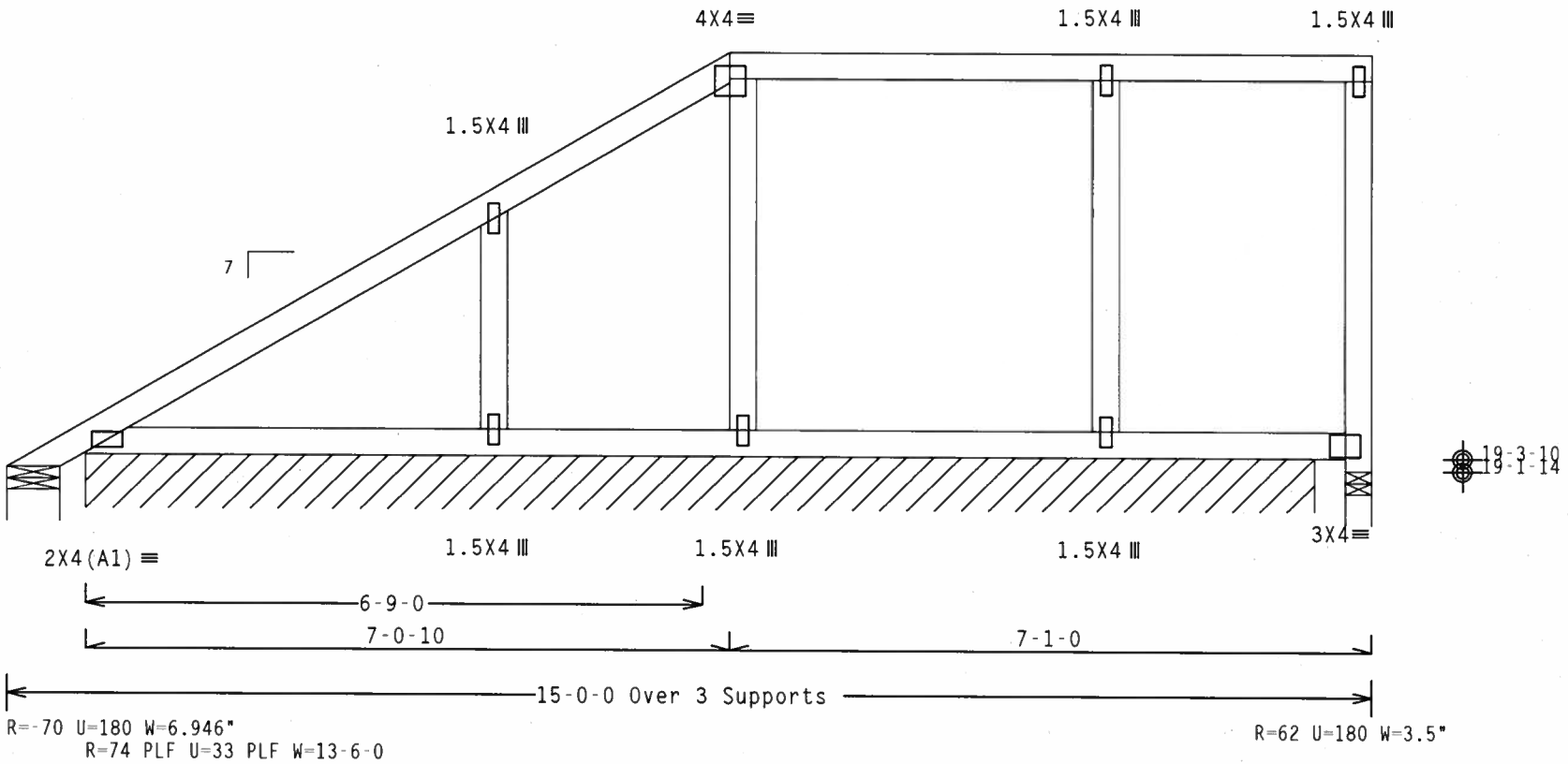
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.47 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
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1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 667

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER LICENSE No:59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52704
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321038
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137362
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

(6 248 Greg Mulvihill , ** AP3)

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

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

Wind reactions based on MWFRS pressures.

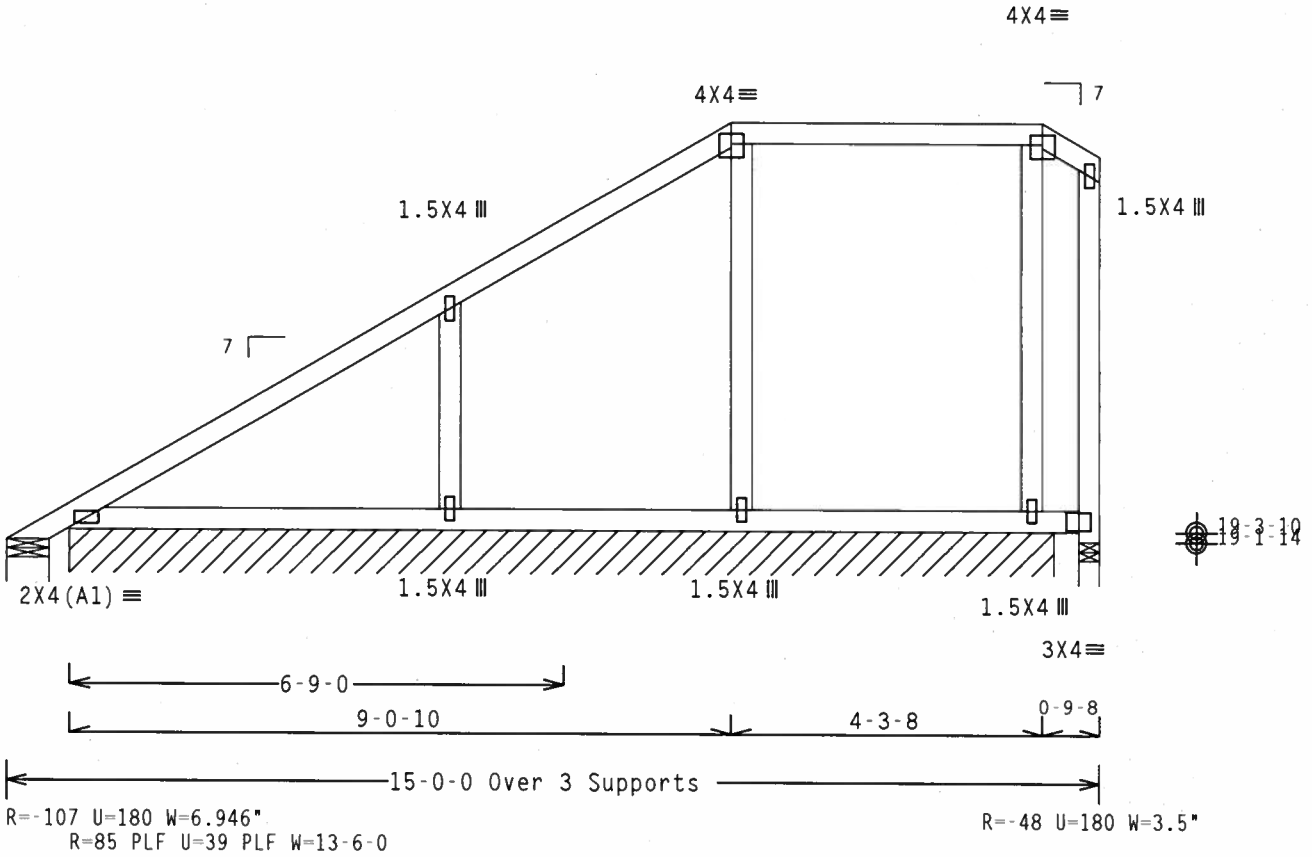
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 22.05 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.375"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov [illegible] '06

TC LL	20.0 PSF	REF R487-- 52705
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321032
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137367
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

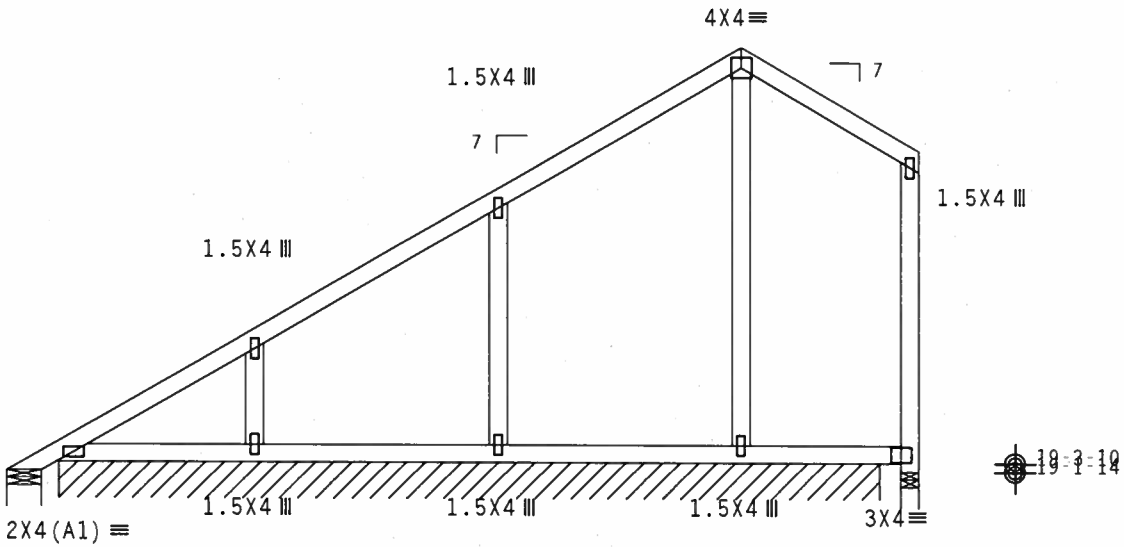
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 22.68 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.3125"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 6626

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52706
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321049
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137372
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

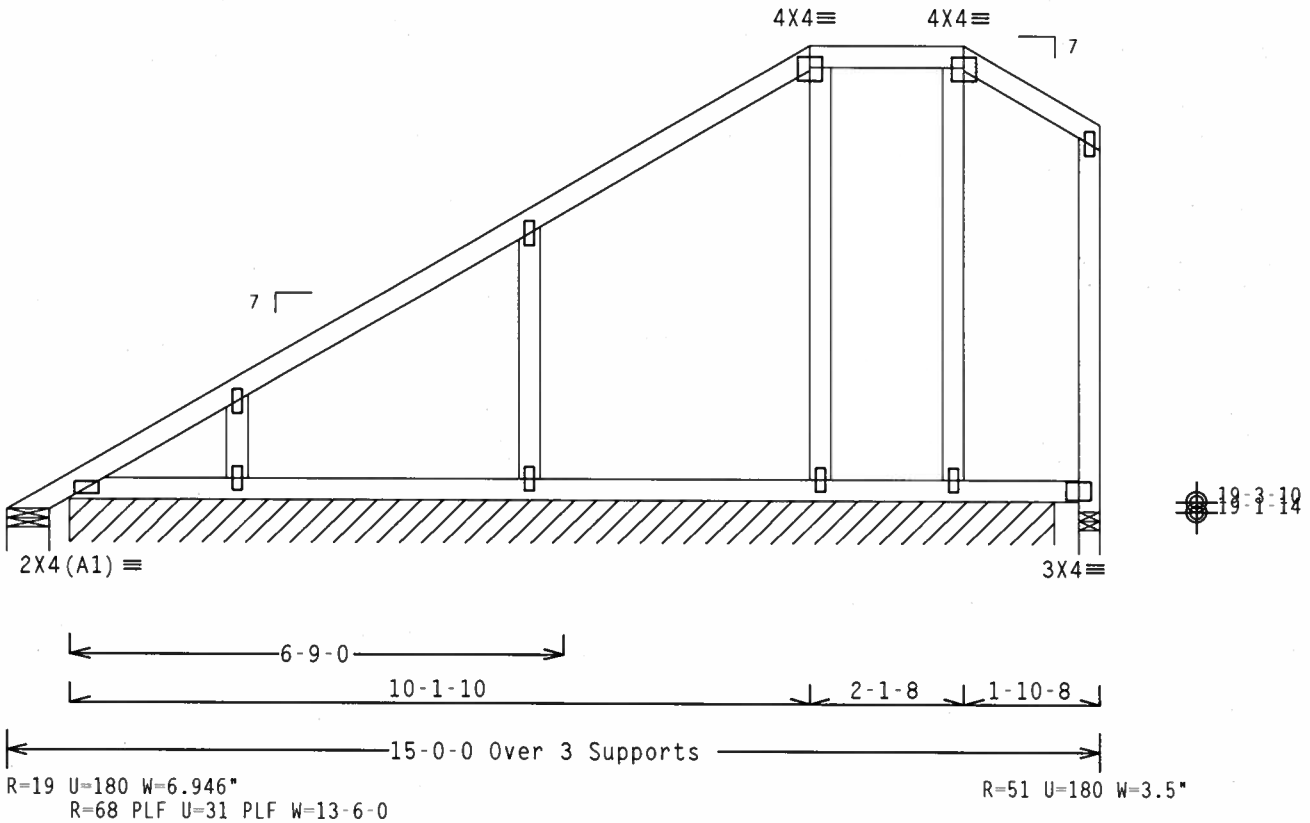
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 22.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR B. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52707
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321048
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137377
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

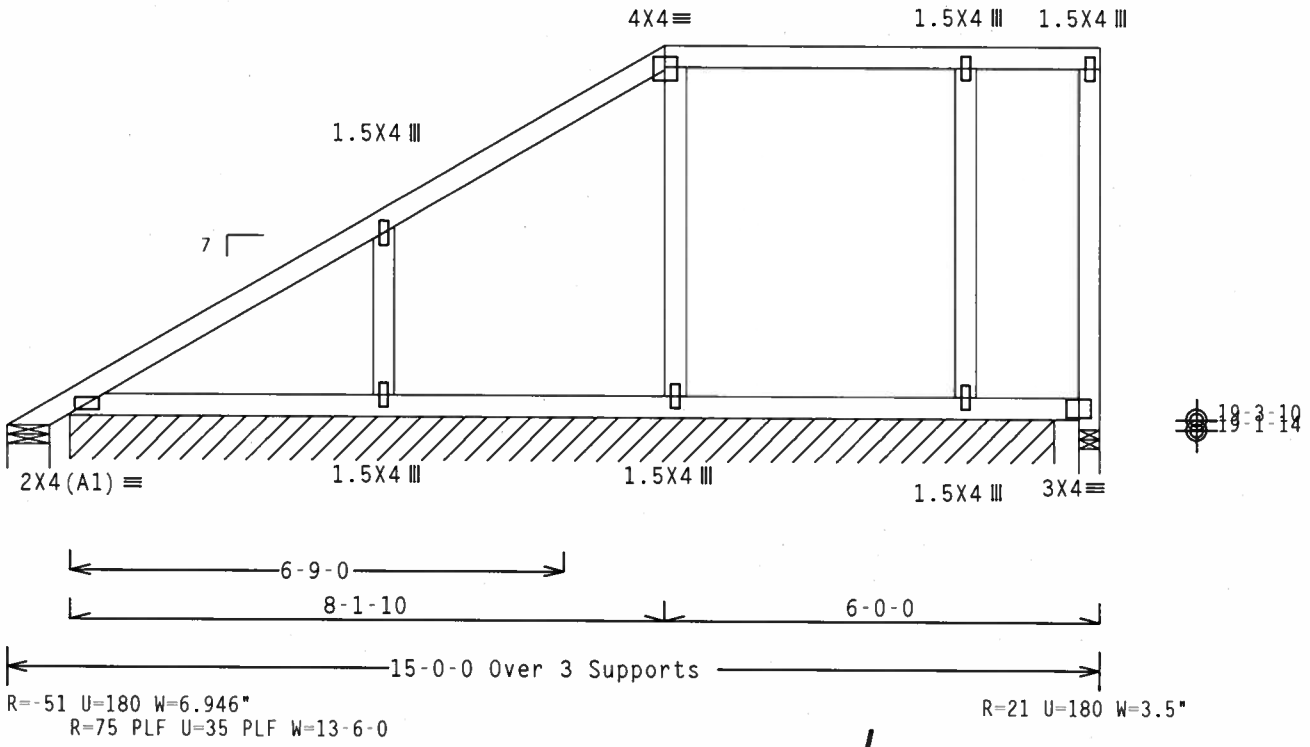
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.78 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

PLT TYP. Wave

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 562

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52708
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321047
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137382
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

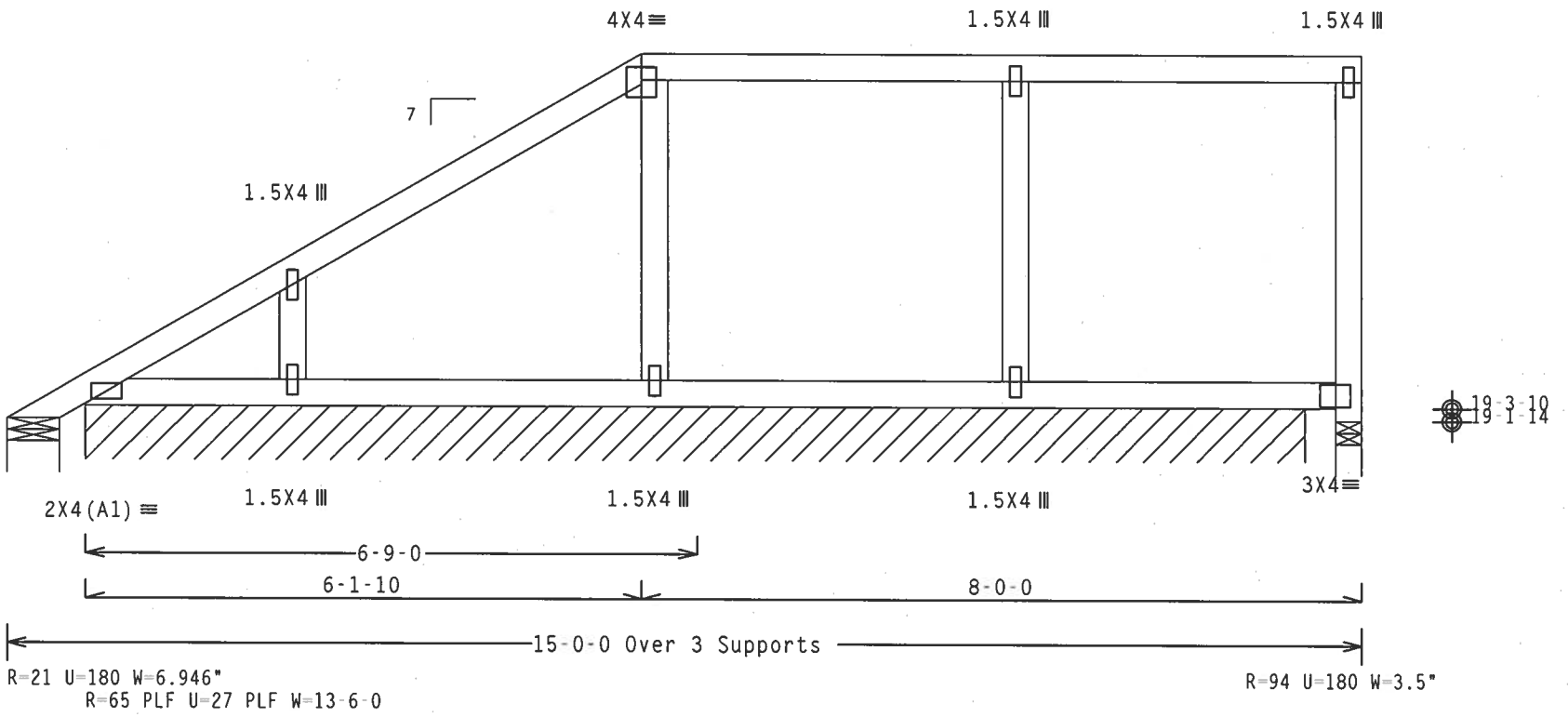
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.20 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52709
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321046
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137388
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

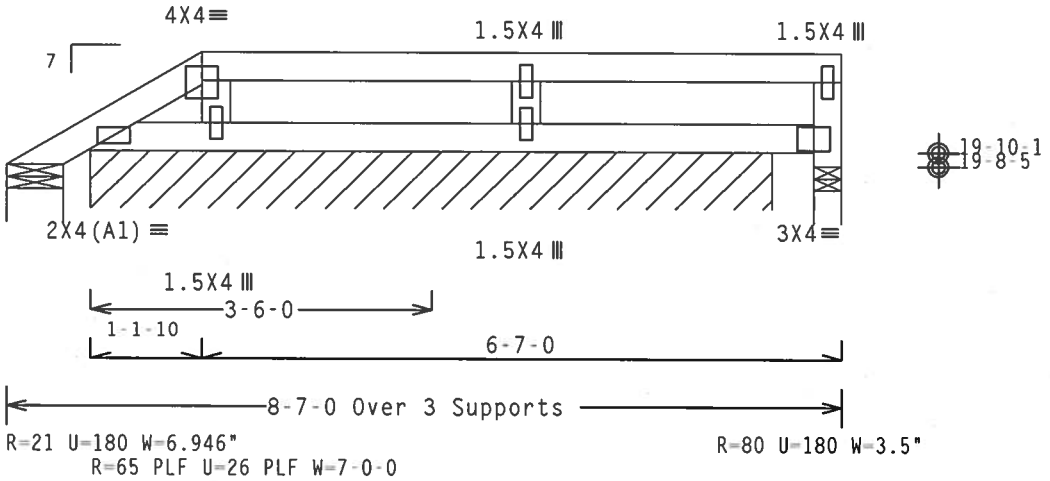
Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.28 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 5[illegible]

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

NOV 17 '06

TC LL	20.0 PSF	REF R487-- 52710
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321055
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137408
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

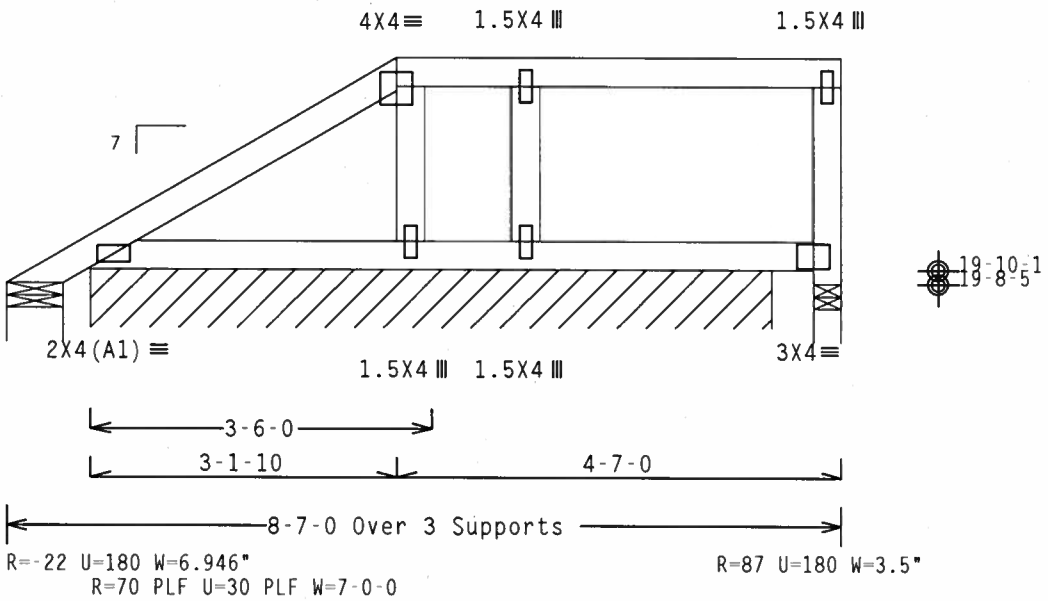
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.86 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 [illegible]TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
[illegible]Certificate of Authorization # [illegible]

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

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52711
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321058
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137404
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

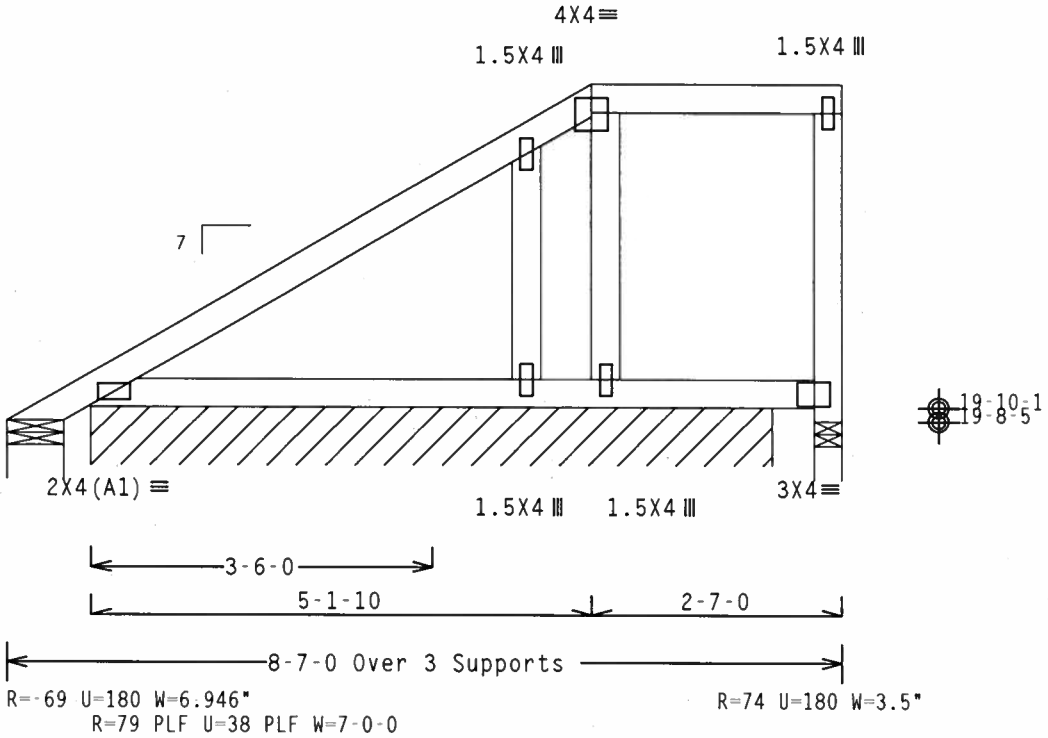
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.44 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52712
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321059
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137414
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

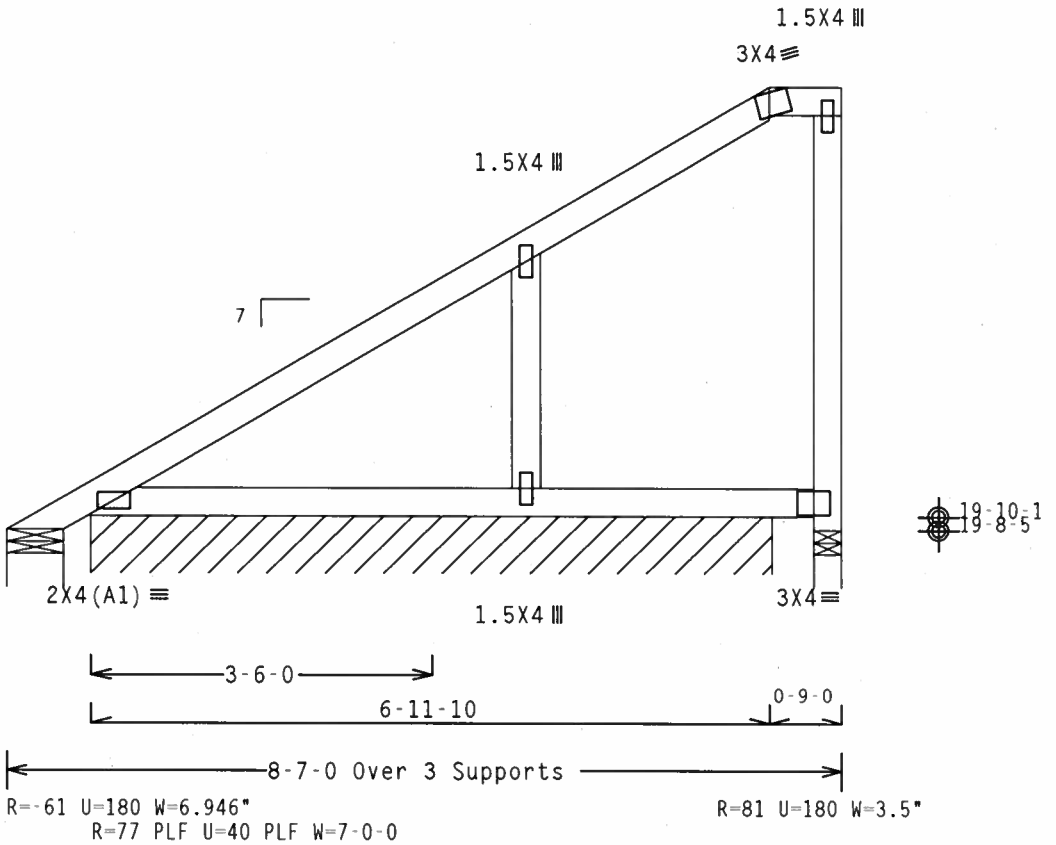
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.98 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52713
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321060
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137420
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_Z01

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

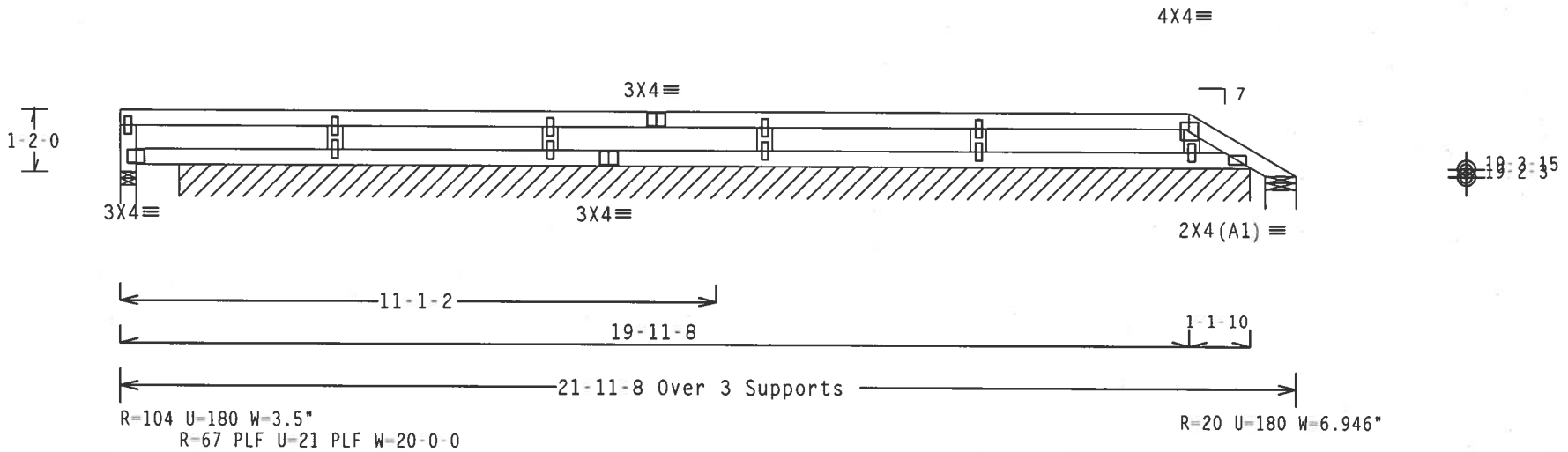
Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 19.77 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No.59697 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52714
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321080
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137628
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

110 mph wind, 20.35 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Left end vertical not exposed to wind pressure.

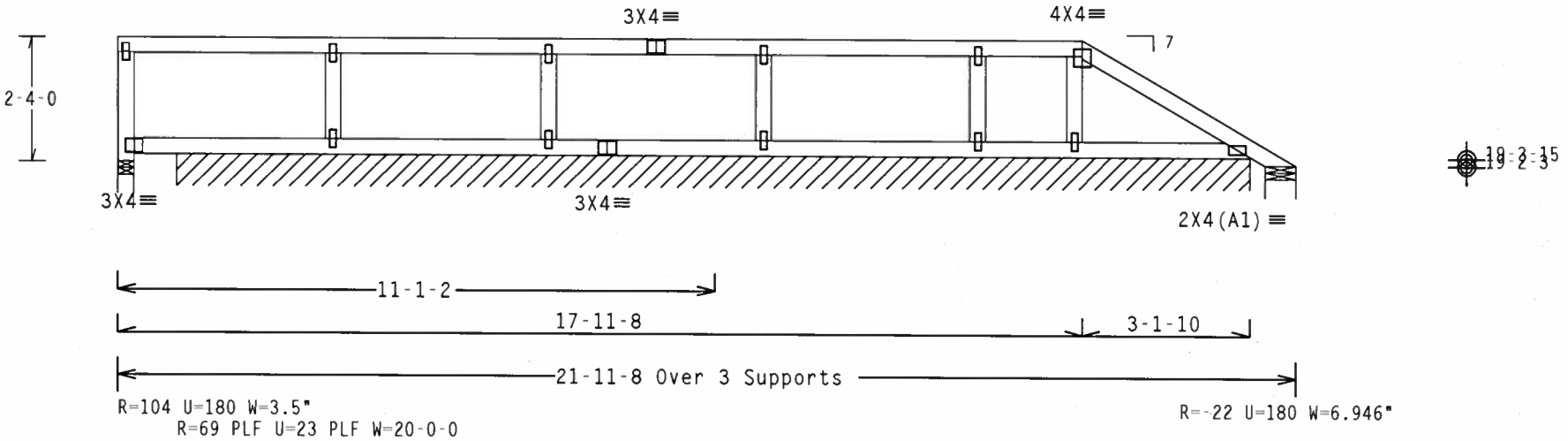
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 21.96
BC - From 4 PLF at 0.00 to 4 PLF at 21.96

Wind reactions based on MWFRS pressures.

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
The Certificate of Authorization # [illegible]

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/SS/K) ASTM A653 GRADE 40/60 (W. K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT 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.

ARTHUR B. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52715
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321078
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137635
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

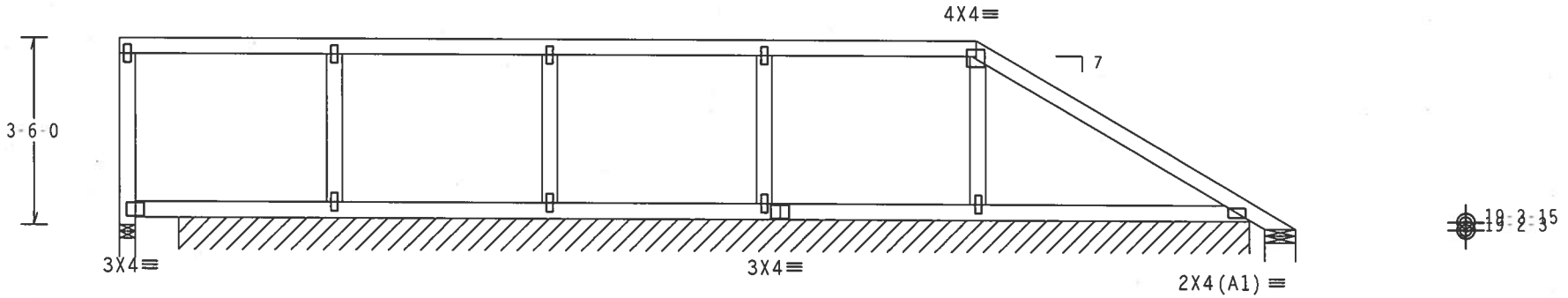
Left end vertical not exposed to wind pressure.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.93 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52716
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321081
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137640
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

110 mph wind, 21.76 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Left end vertical not exposed to wind pressure.

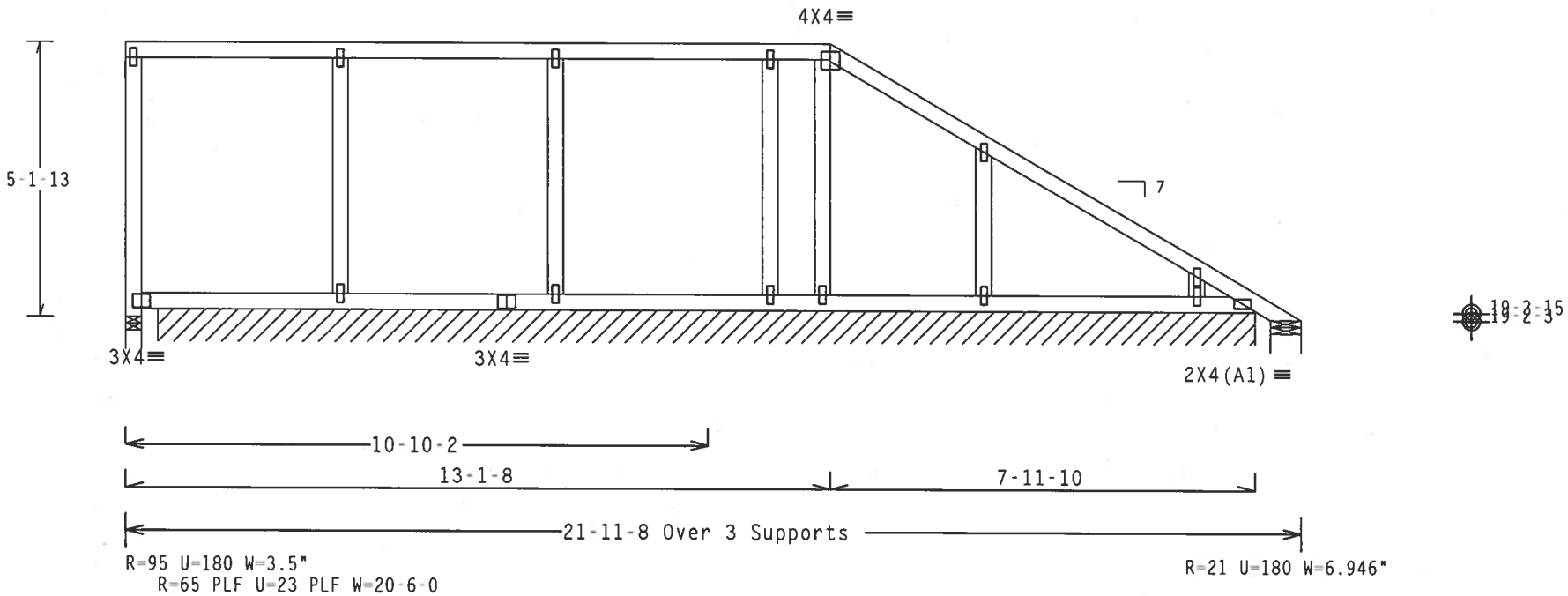
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 21.96
BC - From 4 PLF at 0.00 to 4 PLF at 21.96

Wind reactions based on MWFRS pressures.

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE

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1950 Marley Drive
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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

No[illegible] 17 '06

TC LL	20.0 PSF	REF R487-- 52717
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321115
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137541
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

(6 248 Greg Mulvihill , ** RR1)

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

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

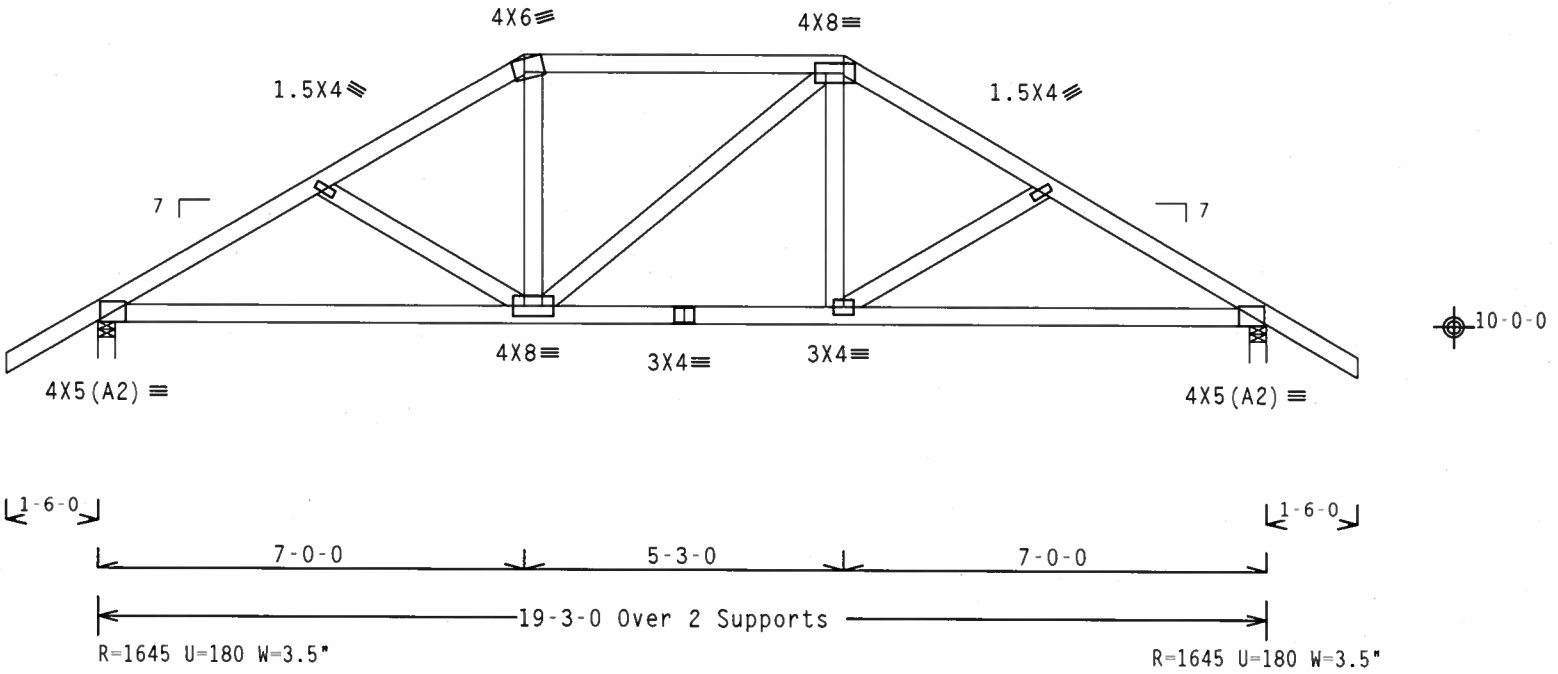
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52718
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321054
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17479
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

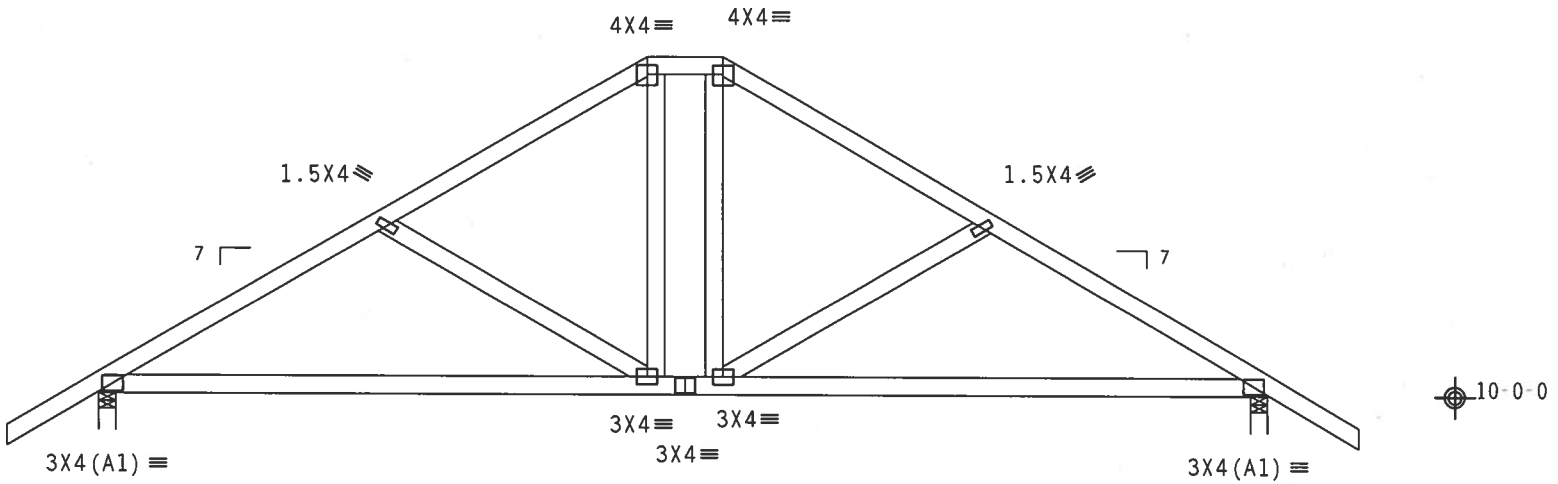
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

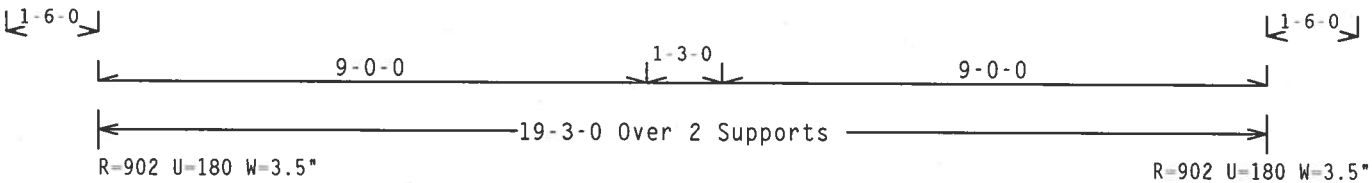
Wind reactions based on MWFRS pressures.

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

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

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 5[illegible]

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

Nov 17 06

TC LL	20.0 PSF	REF R487-- 52719
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321061
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 17483
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

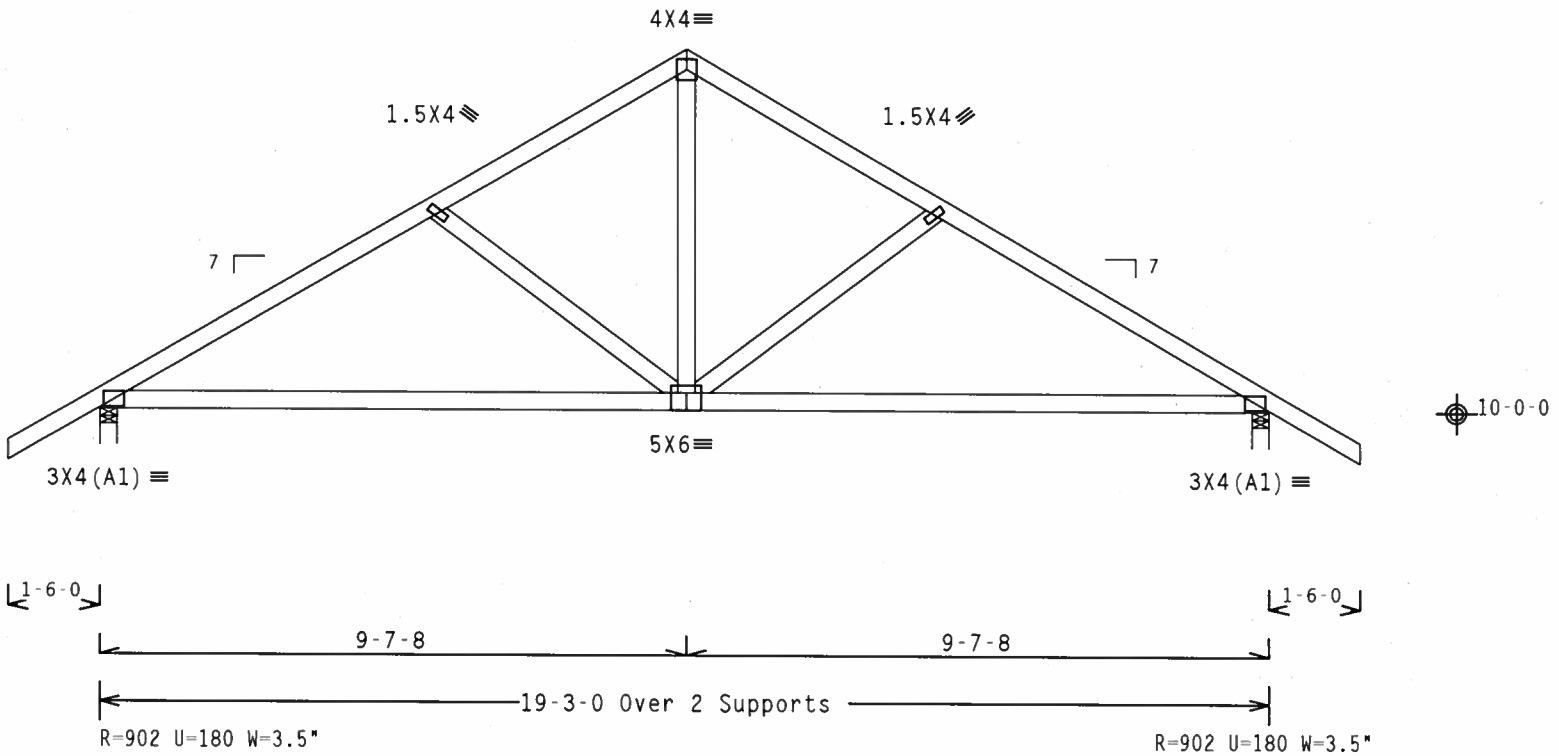
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
NOV 17 '06

TC LL	20.0 PSF	REF	R487-- 52720
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321063
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	17490
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

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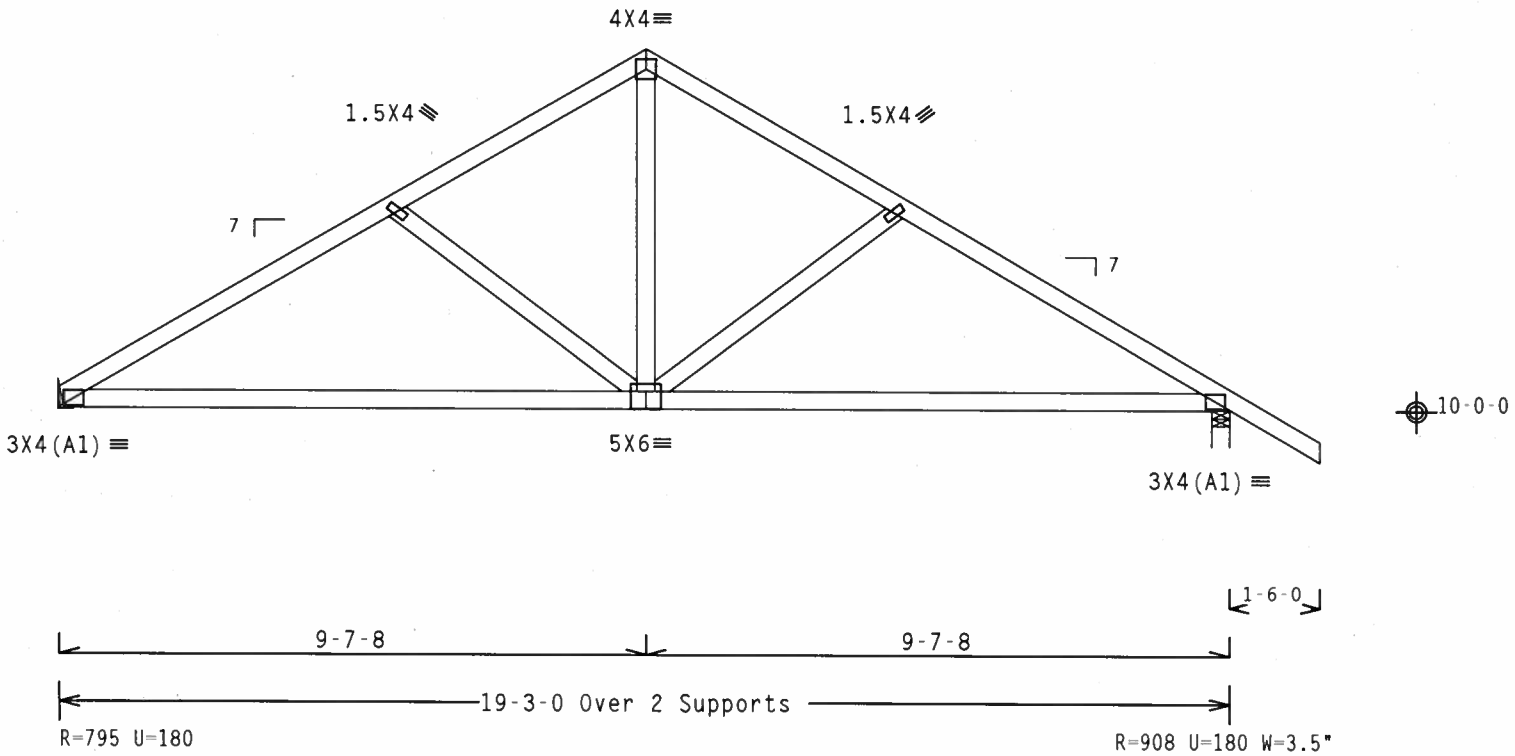

Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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FL Certificate of Authorization # 5677

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52721
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321068
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17514
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

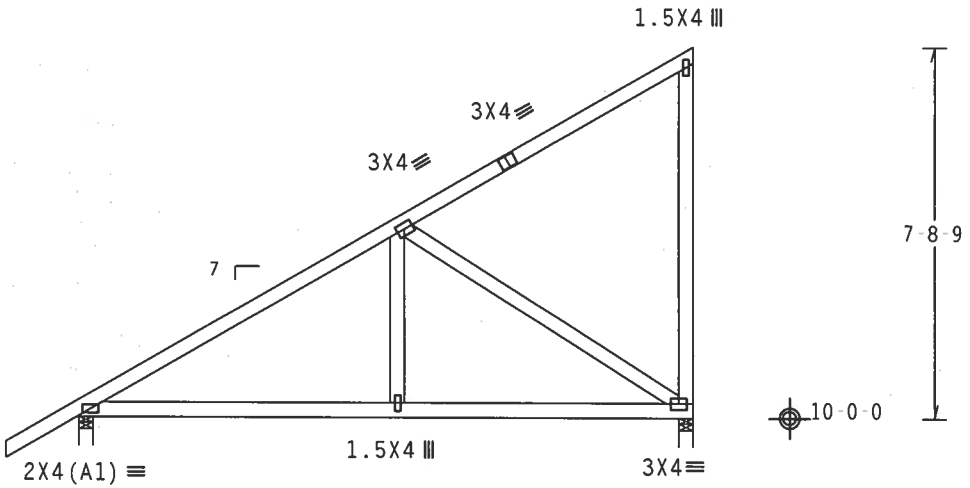
Wind reactions based on MWFRS pressures.

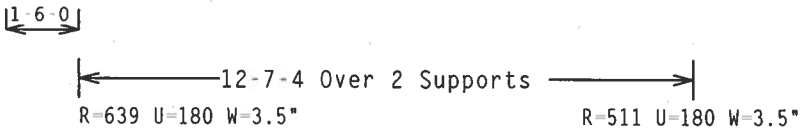
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

Right end vertical not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
The Certificate of Authorization # [illegible]

TC LL	20.0 PSF	REF R487-- 52722
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321014
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 138013
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #2:
Bot chord 2x8 SP #1 Dense :B2 2x8 SP SS:
Webs 2x4 SP #3 :W9 2x4 SP #2 Dense:

Bearing blocks: Nail type: 12d_Common_(0.148"x3.25",_min.)_nails

BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
2	28.208'	1	12"	9	Match Truss

Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK1103 for additional information.

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

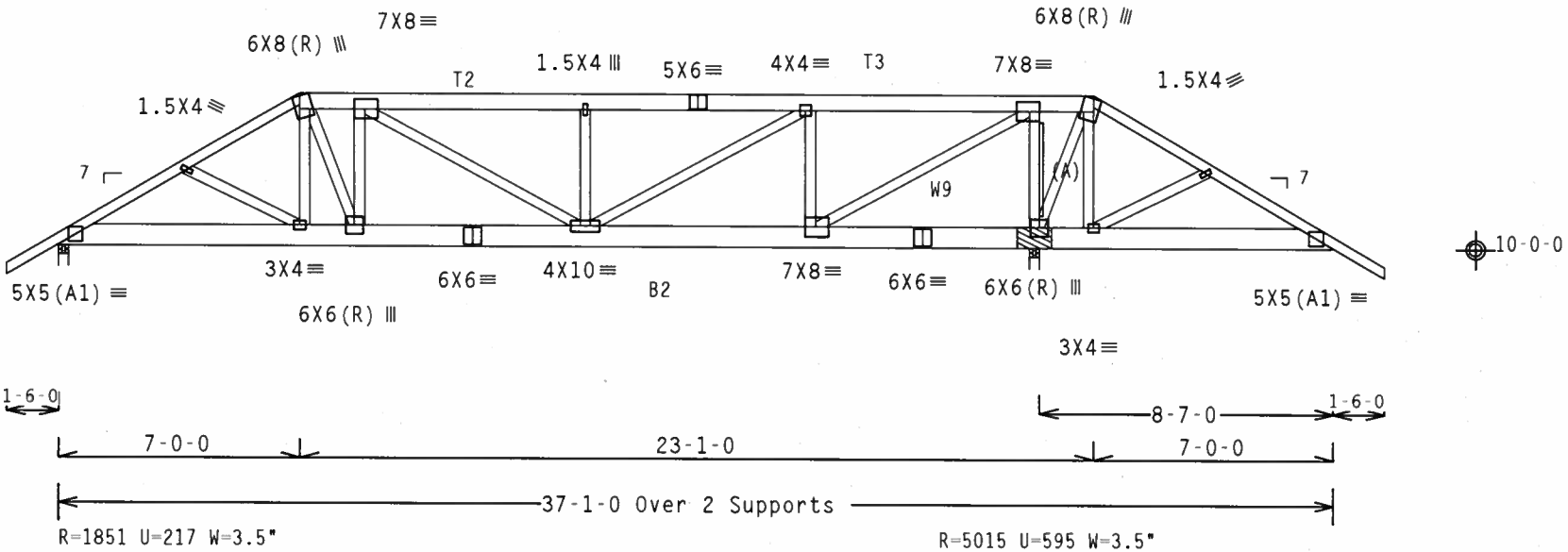
(A) 1x4 SP #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at -1.50 to 63 PLF at 38.58
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 37.08
BC - From 5 PLF at 37.08 to 5 PLF at 38.58
TC - 190 LB Conc. Load at 20.02, 22.02, 24.02, 26.02, 28.02 30.02
BC - 1604 LB Conc. Load at 19.38
BC - 82 LB Conc. Load at 20.02, 22.02, 24.02, 26.02, 28.02
BC - 428 LB Conc. Load at 30.08

Wind reactions based on MWFRS pressures.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/-

Scale =.1875"/Ft.

ALPINE
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1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52723
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321086
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137622
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

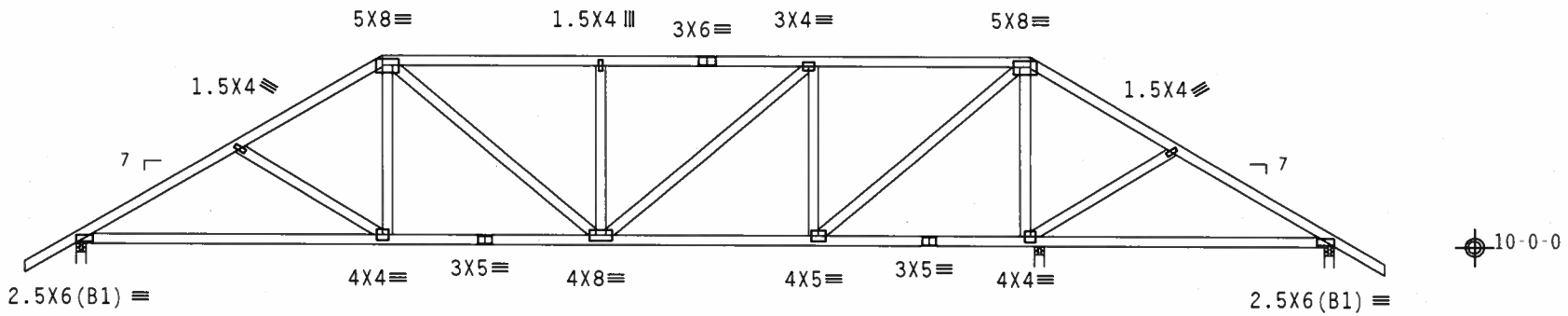
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

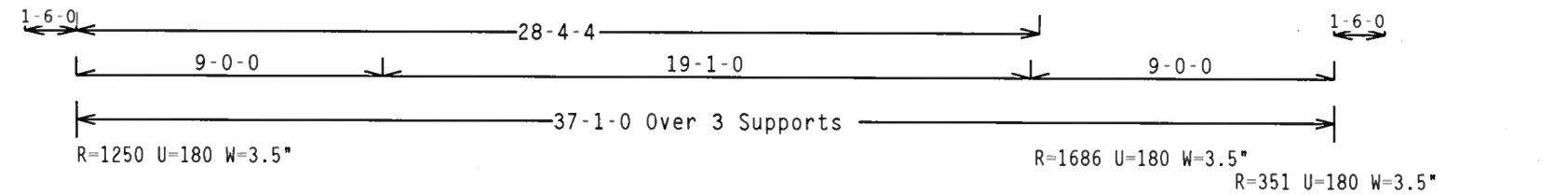
Wind reactions based on MWFRS pressures.

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

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

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





PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/-

Scale =.1875"/Ft.

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF	R487-- 52724
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321096
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	137615
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_Z01

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

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

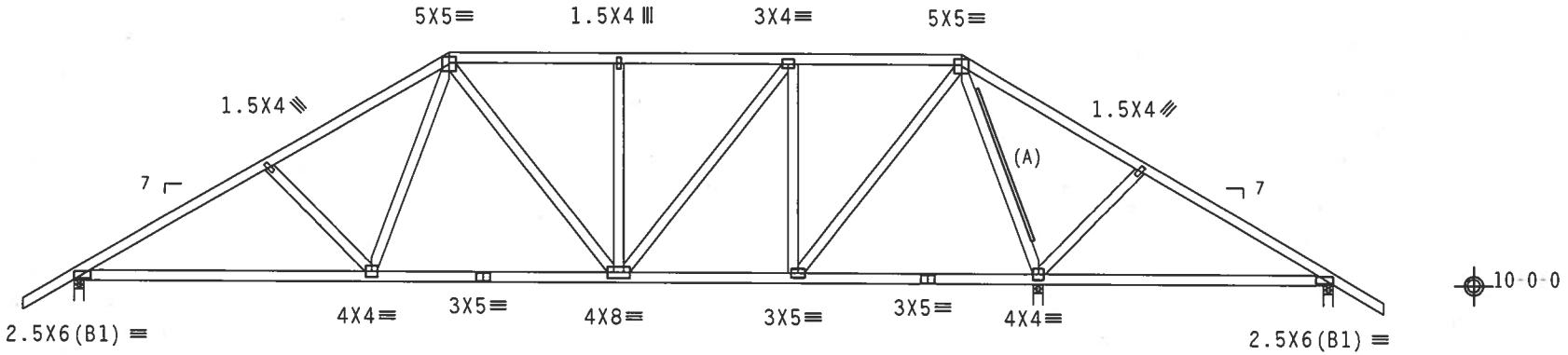
Wind reactions based on MWFRS pressures.

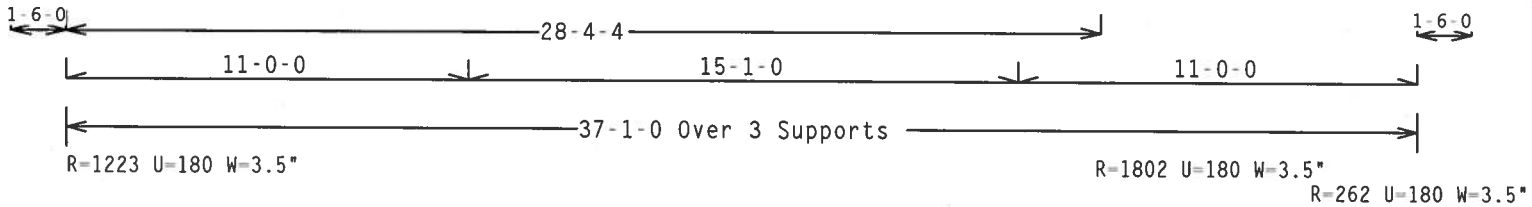
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/-

Scale =.1875"/Ft.

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ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # 5[illegible]

ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52725
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321107
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137609
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

Wind reactions based on MWFRS pressures.

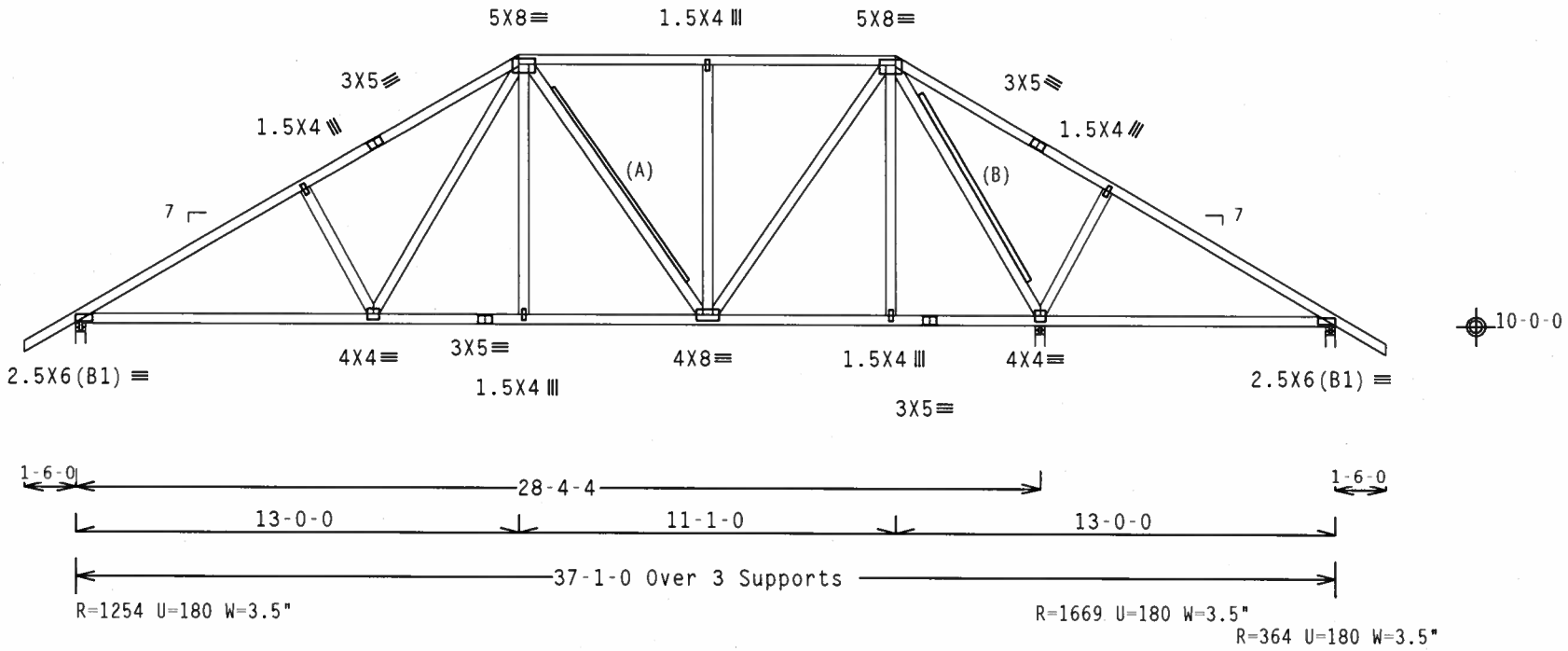
(B) 2x6 SP #3 or better "T" brace. 80% length of web member.
Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

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

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

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52726
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321118
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137605
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2E487_Z01

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

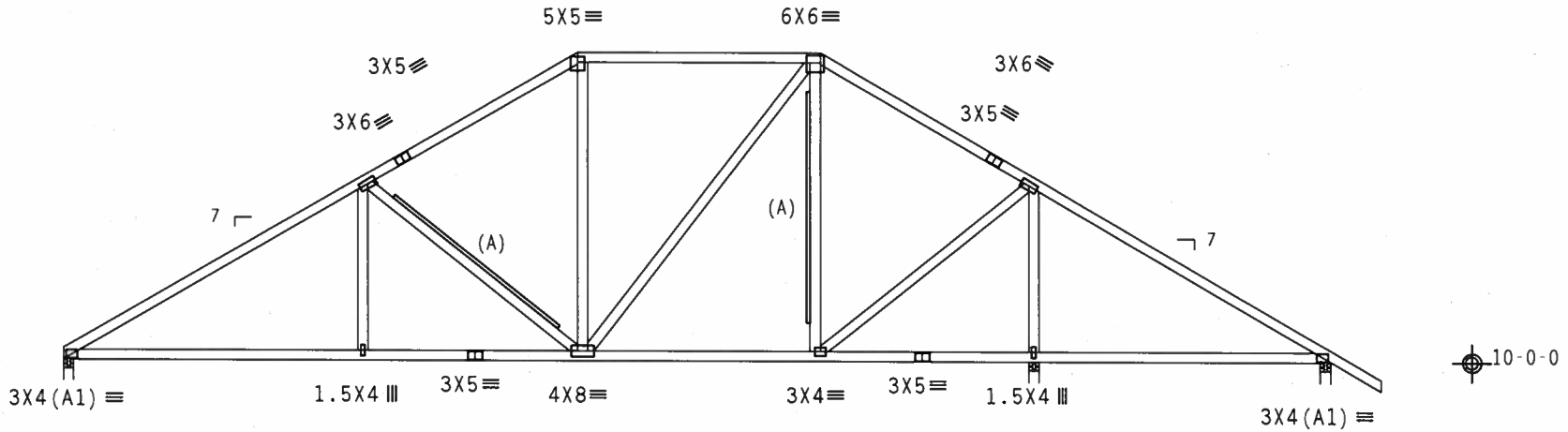
Wind reactions based on MWFRS pressures.

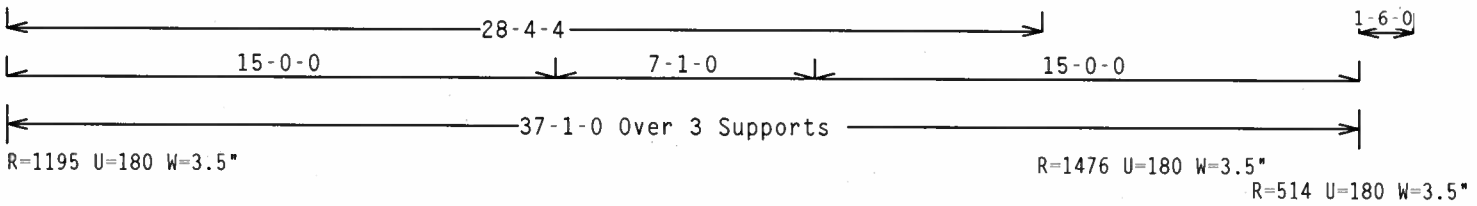
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/-

Scale =.1875"/Ft.

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

Nov 17 '06

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
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Certificate [illegible] zation #

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TC LL	20.0 PSF	REF R487-- 52727
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321139
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137601
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

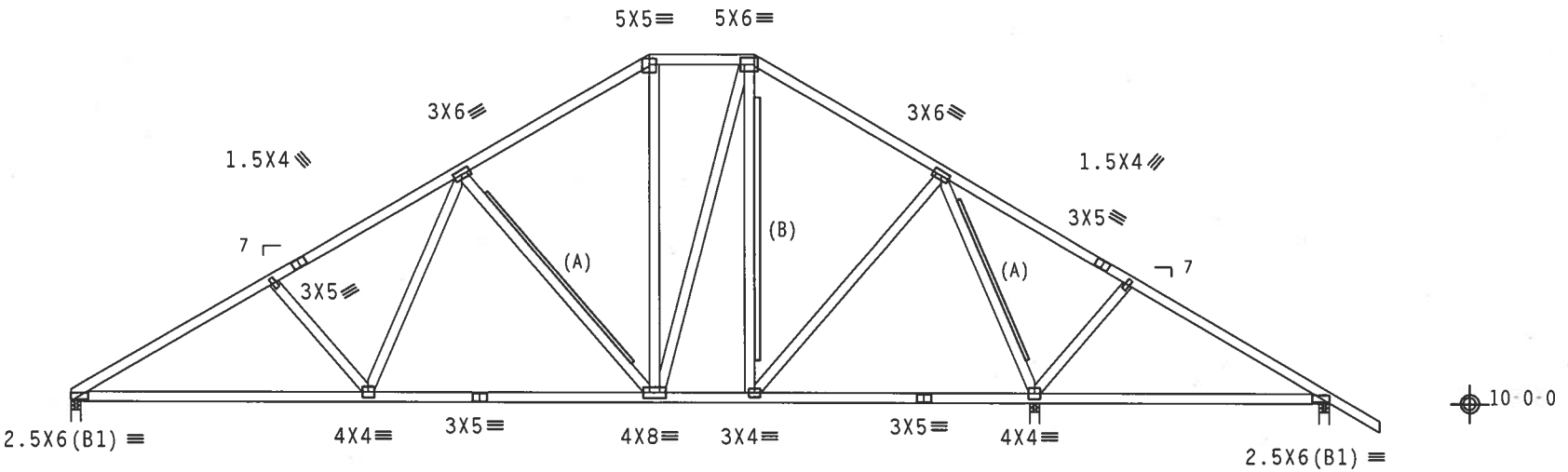
(B) 2x4 SP #3 or better "T" brace. 80% length of web member.
Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

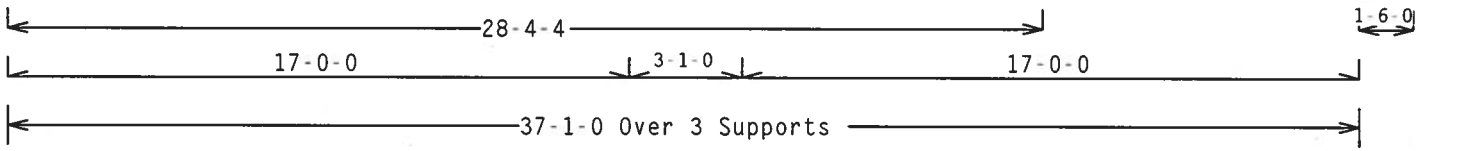
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

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

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

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1950 Marley Drive
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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52728
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321002
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137597
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

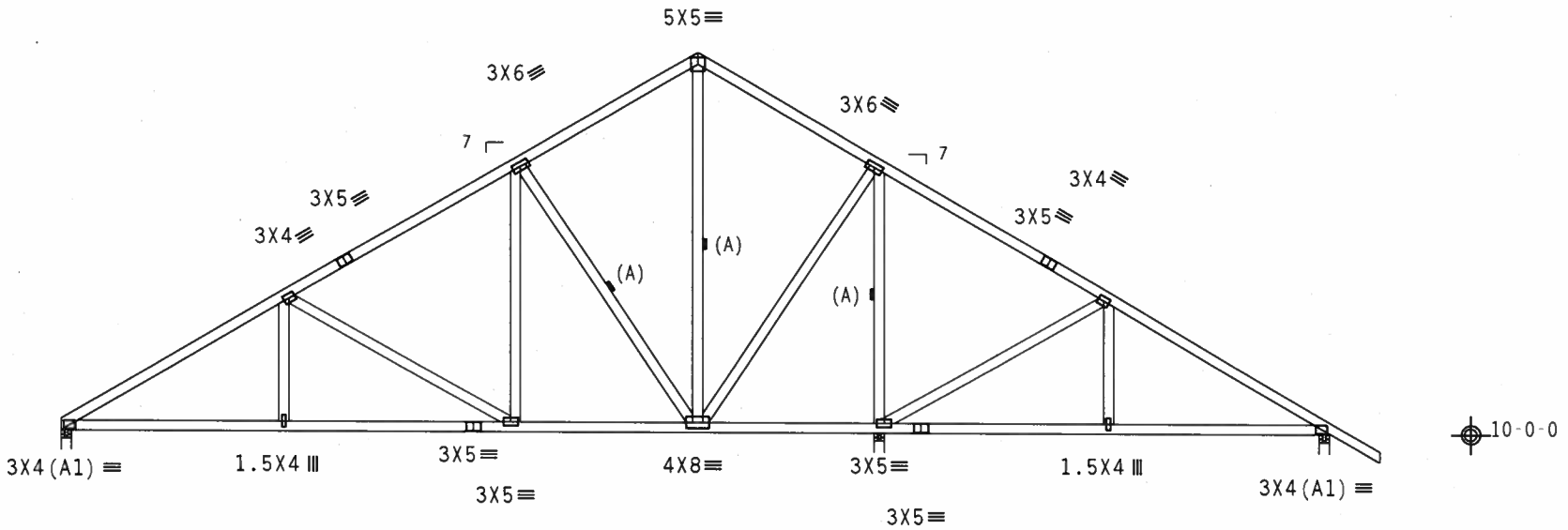
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.33 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (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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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52729
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321076
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137589
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

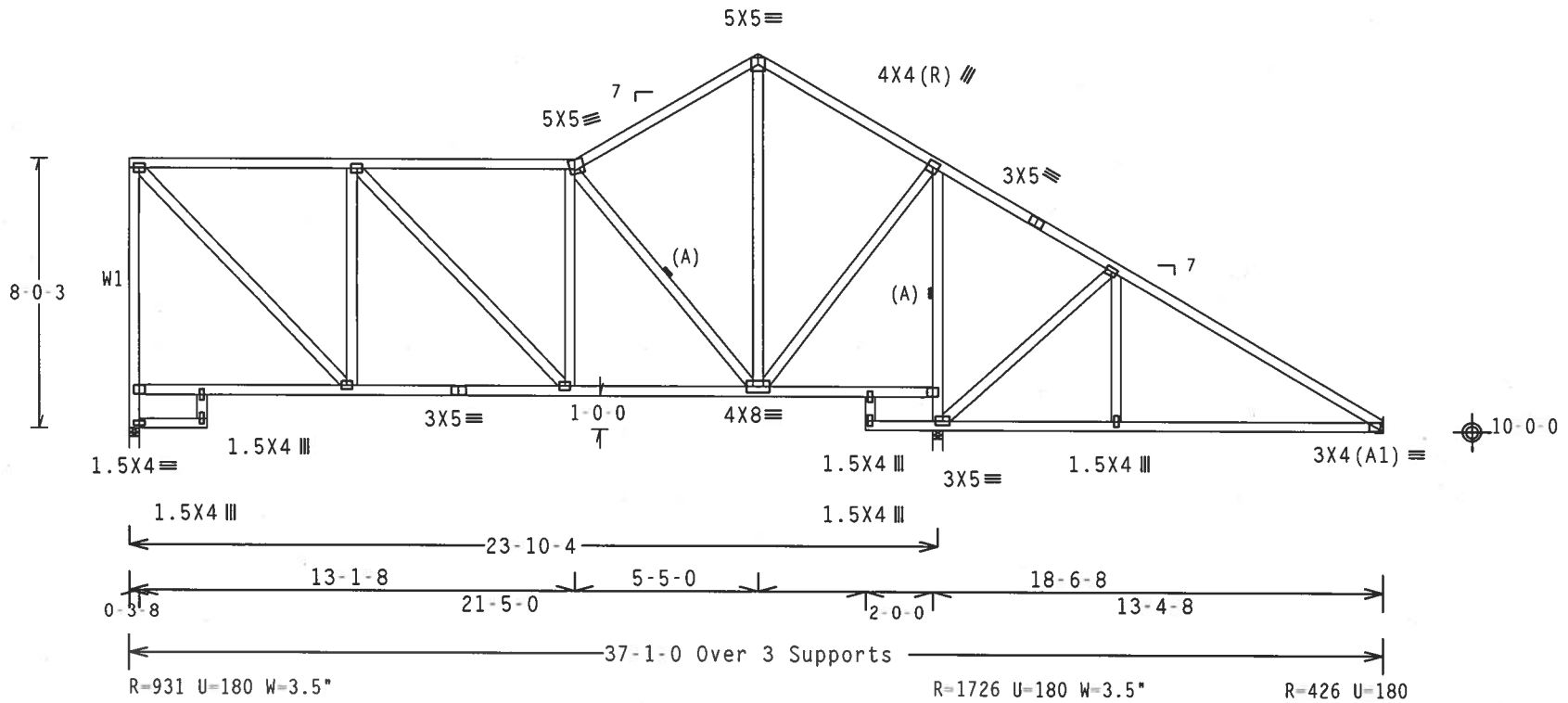
Left end vertical not exposed to wind pressure.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

110 mph wind, 15.77 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

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1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #

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

NOV 17 '06

TC LL	20.0 PSF	REF R487-- 52730
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321067
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137582
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

Left end vertical not exposed to wind pressure.

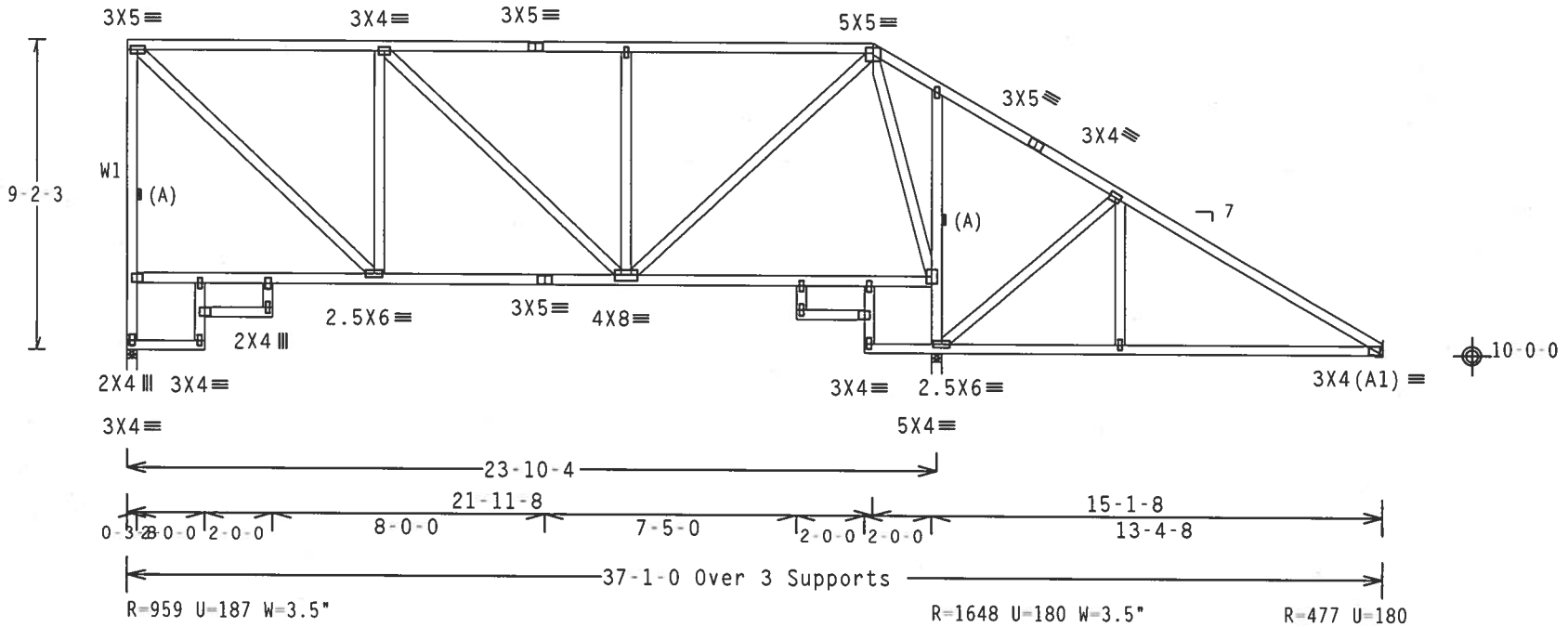
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C,AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

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

Calculated horizontal deflection is 0.16" due to live load and 0.11" due to dead load.

(A) Continuous lateral bracing equally spaced on member.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 667

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

Nov 17 '06

TC LL	20.0 PSF	REF	R487-- 52731
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321077
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	137571
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

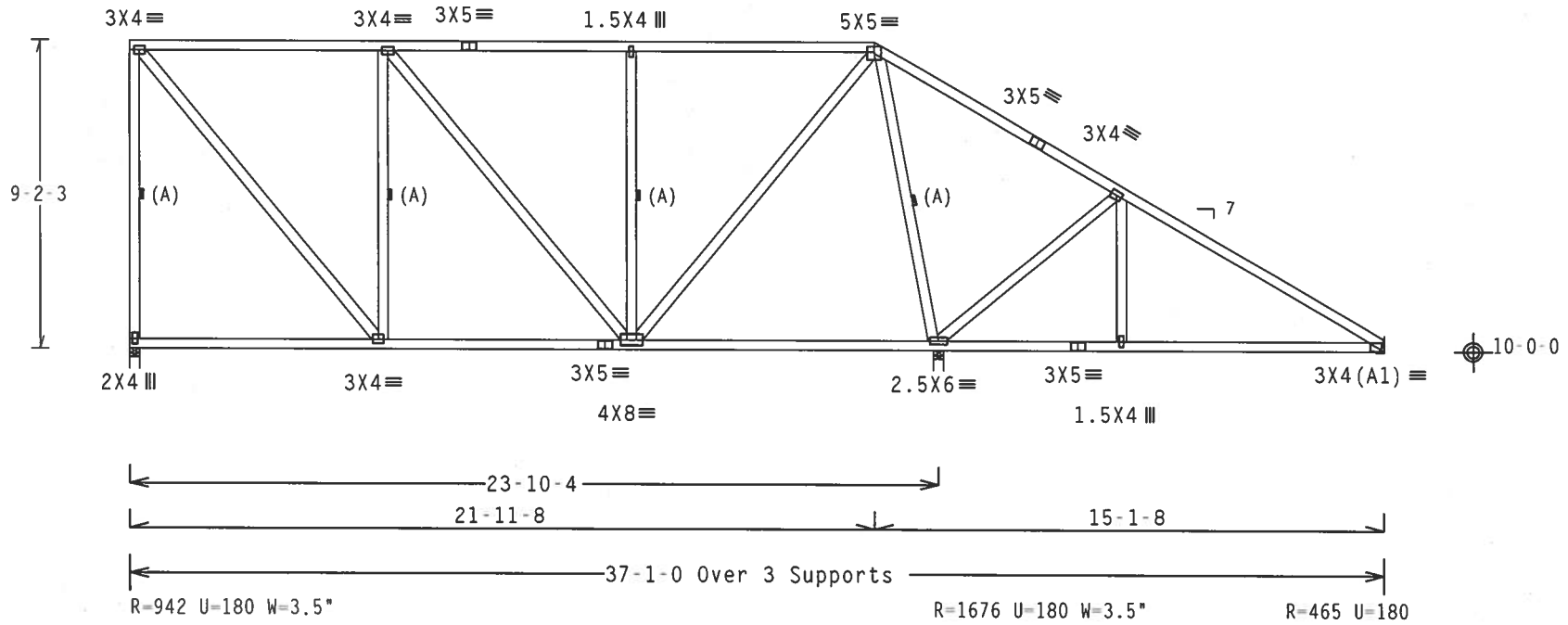
Left end vertical not exposed to wind pressure.

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

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

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

NOV 17 '06

ALPINE

Alpine Engineered Products, Inc.
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Haines City, FL 33844
The Certificate of Authorization # E

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TC LL	20.0 PSF	REF R487-- 52732
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321075
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137561
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

(6-248---- Greg Mulvihill -- , ** - R11G)

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

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP #1 Dense :B2 2x8 SP SS:
Webs 2x4 SP #3 :W2, W6 2x4 SP #2 Dense:

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 24.00
BC - From 20 PLF at 0.00 to 20 PLF at 24.00
BC - 1242 LB Conc. Load at 0.77, 2.94, 12.94, 14.94
BC - 1246 LB Conc. Load at 4.94, 6.94, 8.94, 10.94
BC - 1251 LB Conc. Load at 16.94, 18.94, 20.94, 22.94

110 mph wind, 18.59 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

Max JT VERT DEFL: LL: 0.10" DL: 0.15" recommended camber 1/4"

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

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25"._min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Bearing blocks: Nail type: 12d_Common_(0.148"x3.25"._min.)_nails

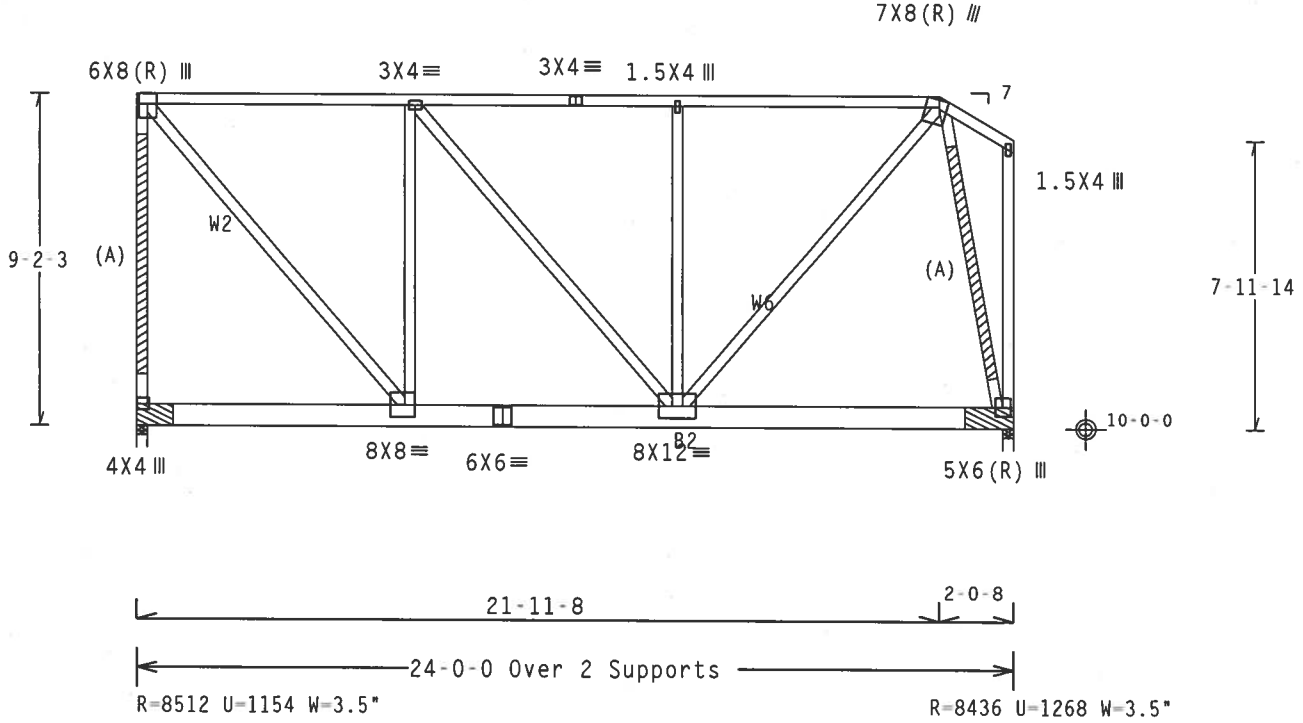
BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
1	0.000'	1	12"	12	Match Truss
2	23.708'	1	16"	19	Match Truss

Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK1103 for additional information.

End verticals not exposed to wind pressure.

(A) (2) SP #3 or better scab braces. Same size & 80% length of web member. Attach one to each face w/10d Box or Gun (0.128"x3",min.)nails @ 6" OC.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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Certificate of Authorization #

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52733
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321129
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137529
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

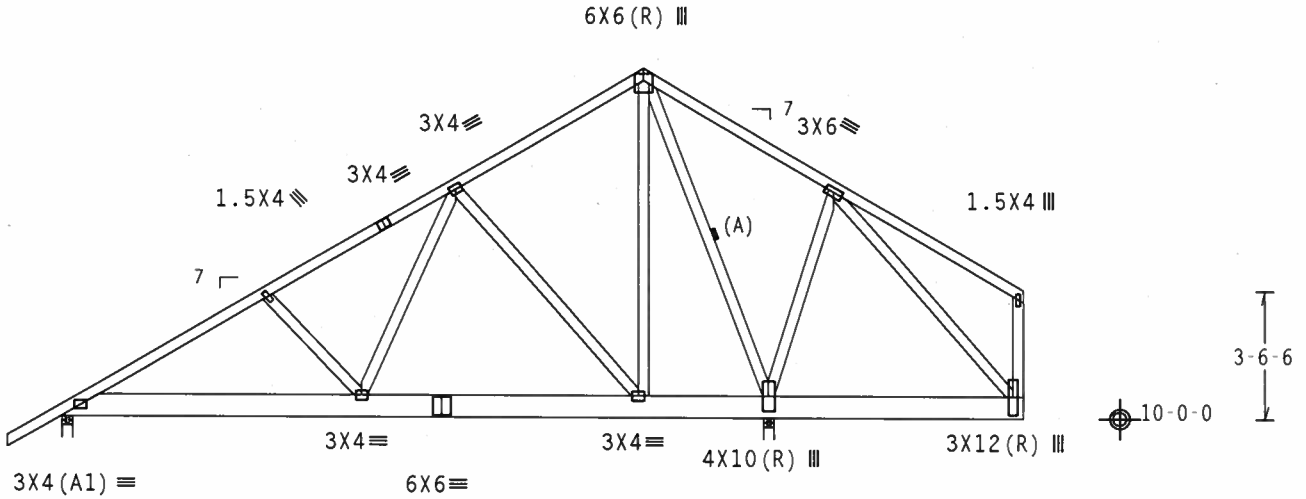
(A) Continuous lateral bracing equally spaced on member.

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at -1.50 to 63 PLF at 26.38
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 26.38
BC - 88 LB Conc. Load at 15.75
BC - 254 LB Conc. Load at 18.57
BC - 588 LB Conc. Load at 21.40
BC - 924 LB Conc. Load at 24.23

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov '06

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TC LL	20.0 PSF	REF	R487-- 52734
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321131
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	138006
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T?E487_Z01

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

Wind reactions based on MWFRS pressures.

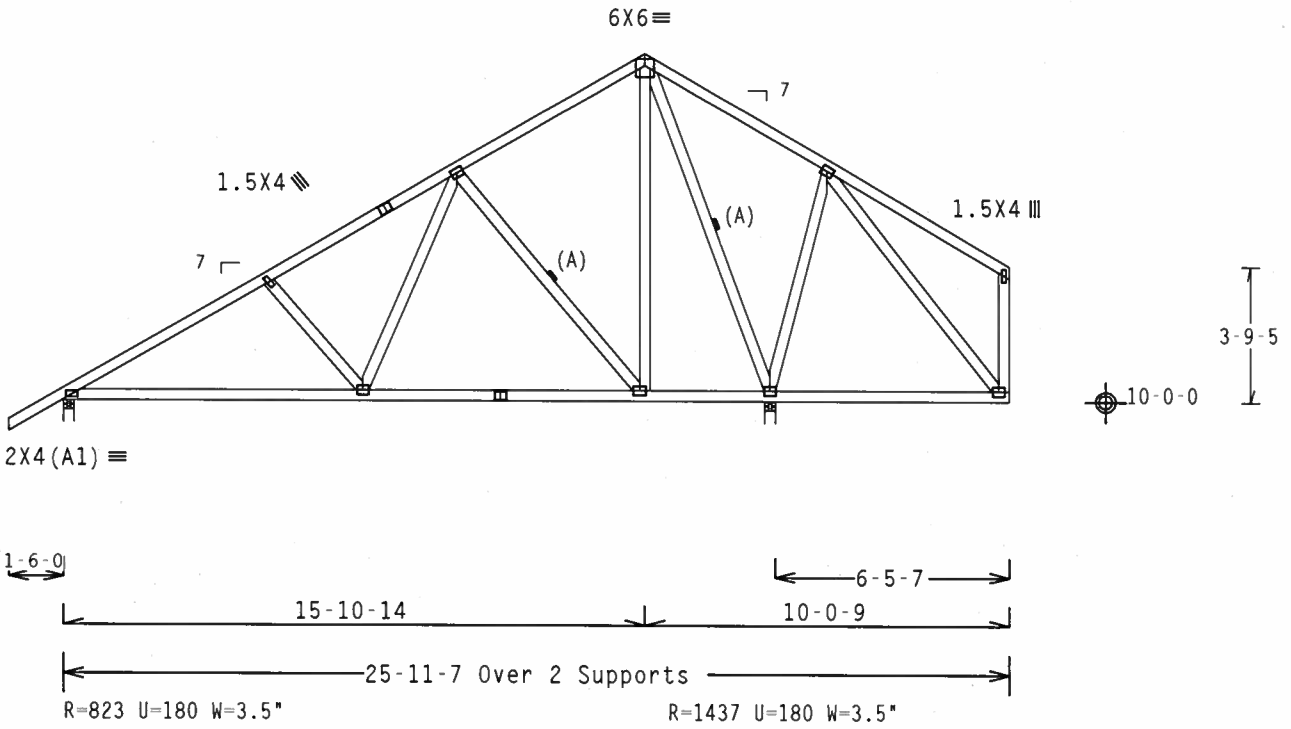
(A) Continuous lateral bracing equally spaced on member.

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

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

Right end vertical not exposed to wind pressure.

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

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1950 Marley Drive
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FL Certificate of Authorization # 5[illegible]

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ARTHUR B. FISHER
LICENSE
No.59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52735
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321132
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137643
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

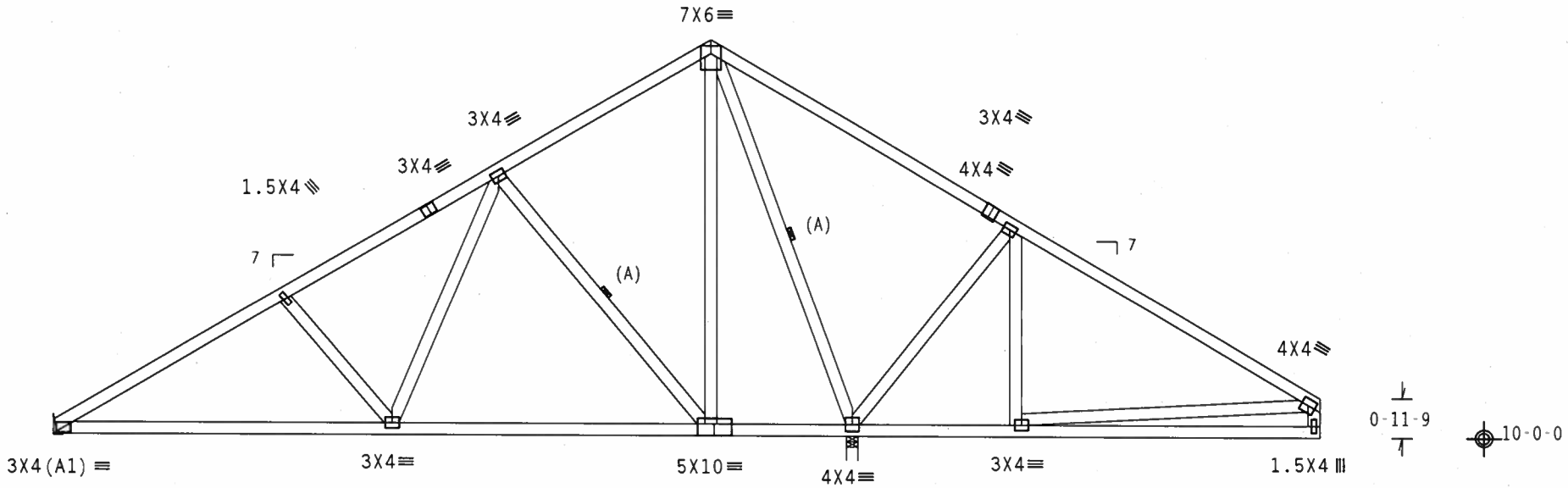
Wind reactions based on MWFRS pressures.

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

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

(A) Continuous lateral bracing equally spaced on member.

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



11-3-6

15-10-14 14-10-8

30-9-6 Over 2 Supports

R=528 U=180 R=2032 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
The Certificate of Authorization # [illegible]

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ARTHUR R. FISHER
LICENSE
No. 59697
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
Nov 17 06

TC LL	20.0 PSF	REF R487-- 52736
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321028
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137655
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

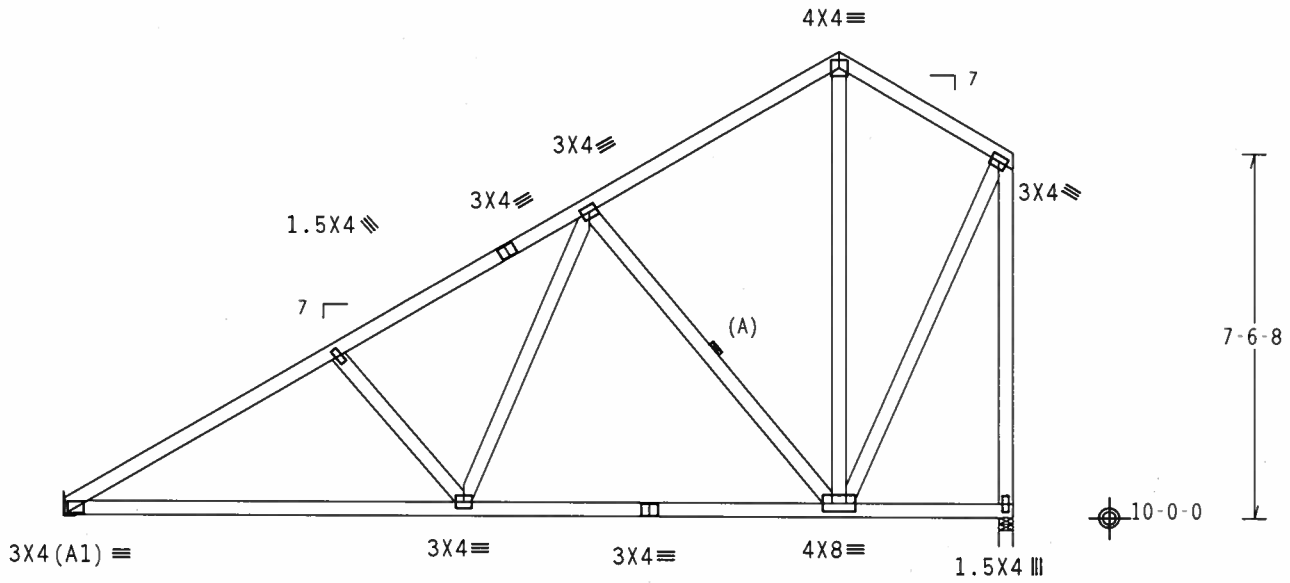
(A) Continuous lateral bracing equally spaced on member.

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

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

Right end vertical not exposed to wind pressure.

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



15-10-14 | 3-7-2

19-6-0 Over 2 Supports

R=816 U=180

R=806 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.25"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # 5[illegible]

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

Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52737
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321029
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137667
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T?F487_Z01

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

110 mph wind, 15.20 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

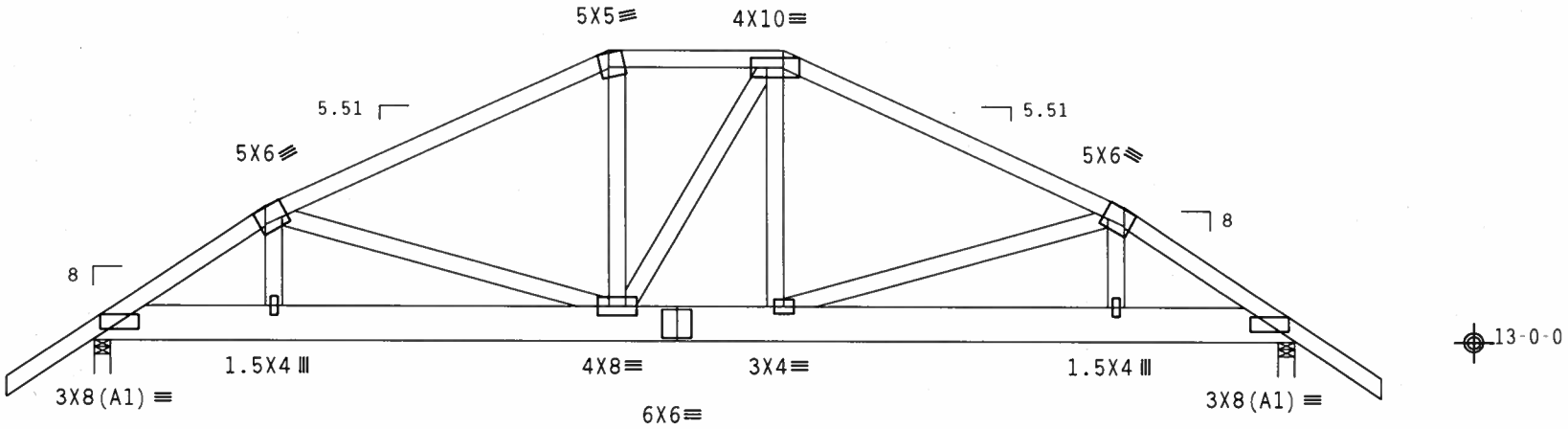
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

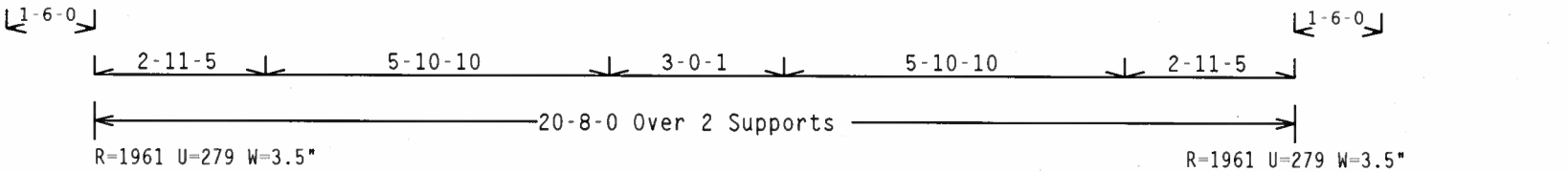
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

TC	- From	64 PLF	at	-1.50	to	64 PLF	at	2.94
TC	- From	62 PLF	at	2.94	to	62 PLF	at	8.83
TC	- From	62 PLF	at	8.83	to	62 PLF	at	17.72
TC	- From	64 PLF	at	17.72	to	64 PLF	at	22.17
BC	- From	5 PLF	at	-1.50	to	5 PLF	at	0.00
BC	- From	20 PLF	at	0.00	to	20 PLF	at	20.67
BC	- From	5 PLF	at	20.67	to	5 PLF	at	22.17

TC	-	33 LB	Conc. Load at	2.94, 17.72
TC	-	128 LB	Conc. Load at	5.69, 14.97
TC	-	185 LB	Conc. Load at	8.31, 12.36
TC	-	278 LB	Conc. Load at	8.83, 11.84
TC	-	193 LB	Conc. Load at	10.33
BC	-	8 LB	Conc. Load at	2.94, 17.72
BC	-	52 LB	Conc. Load at	5.69, 14.97
BC	-	78 LB	Conc. Load at	8.31, 12.36
BC	-	106 LB	Conc. Load at	8.83, 11.84
BC	-	82 LB	Conc. Load at	10.33





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate # Authorization #

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF	R487-- 52738
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321092
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137746
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_Z01

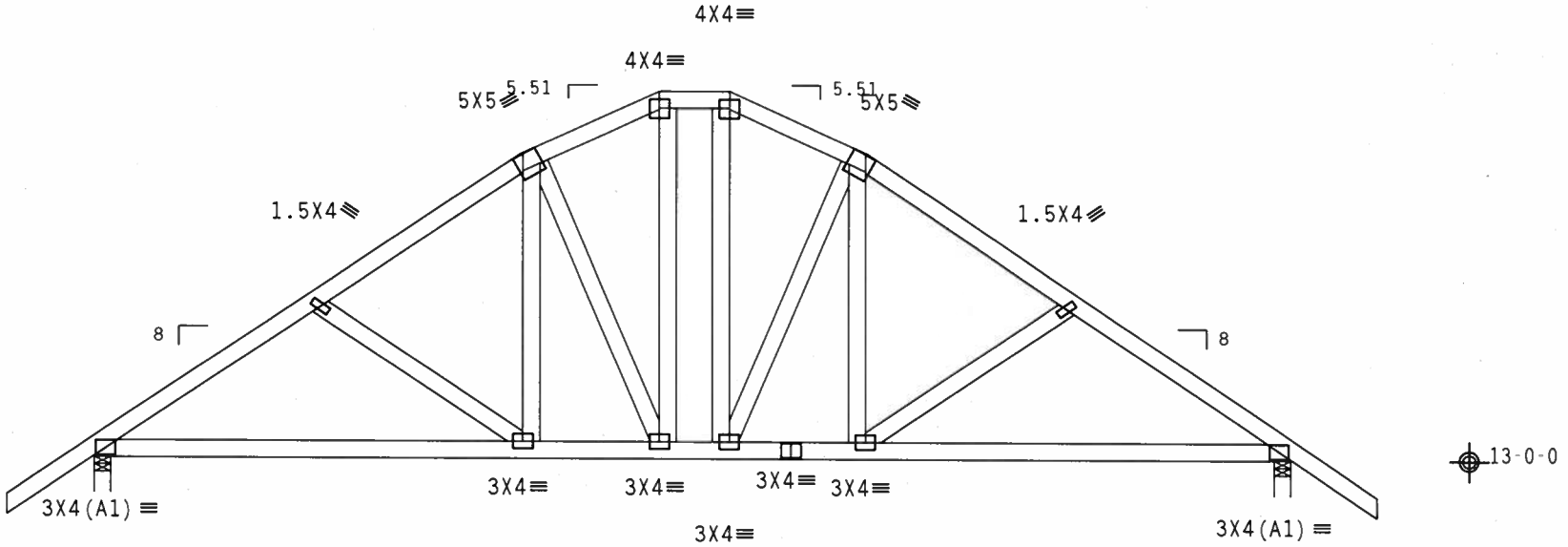
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

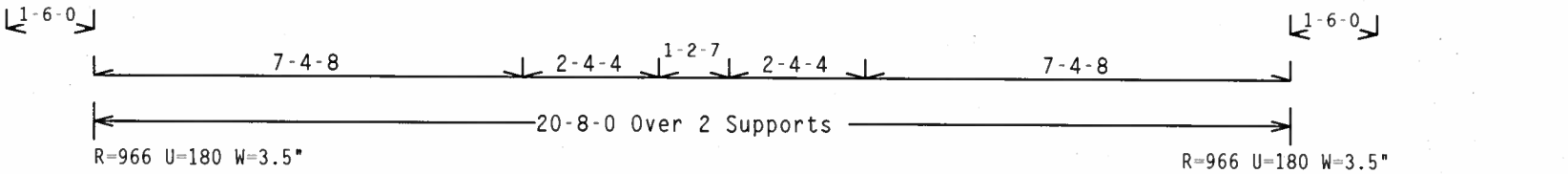
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.87 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

PLT TYP. Wave

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # [illegible]

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov [illegible] '06

TC LL	20.0 PSF	REF	R487-- 52739
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321103
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	137723
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_Z01

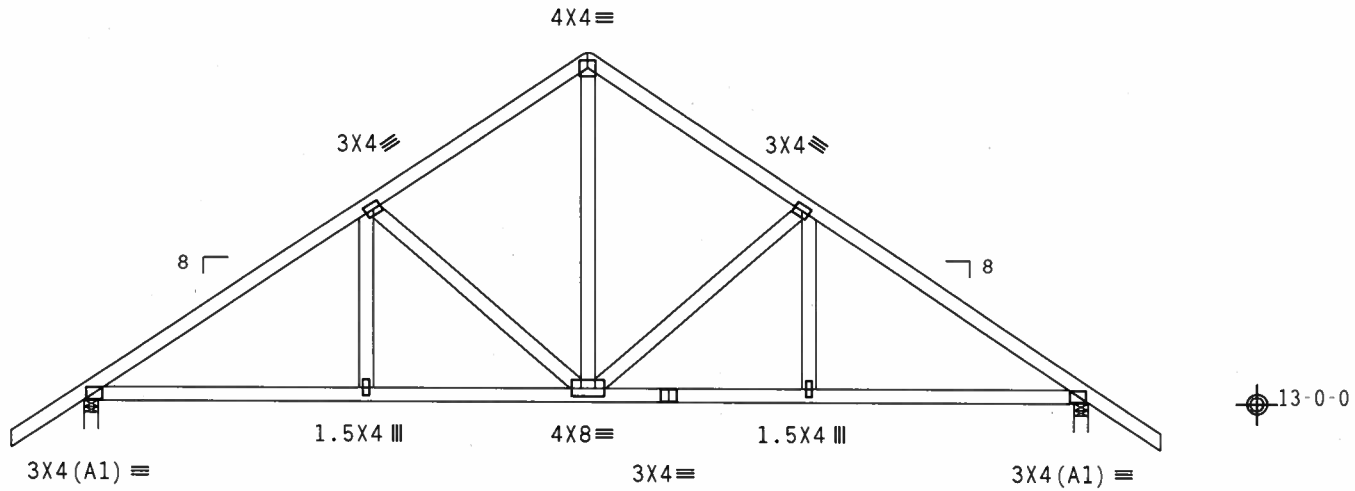
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

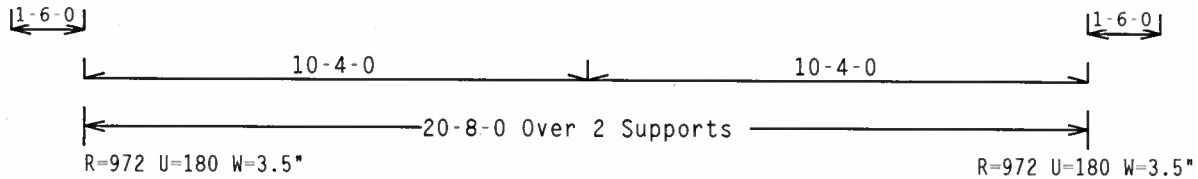
Wind reactions based on MWFRS pressures.

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

110 mph wind, 16.28 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24. QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 17 '06

TC LL	20.0 PSF	REF R487-- 52740
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321093
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 138020
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

Top chord 2x6 SP #2 :T1, T5 2x8 SP #1 Dense:
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 6.33
TC - From 61 PLF at 6.33 to 61 PLF at 7.37
TC - From 61 PLF at 7.37 to 61 PLF at 9.29
TC - From 63 PLF at 9.29 to 63 PLF at 15.63
BC - From 20 PLF at 0.00 to 20 PLF at 15.63
PLT- 256 LB Conc. Load at (6.33,16.01), (9.29,16.01)
PLT- 216 LB Conc. Load at (7.00,16.26), (8.63,16.26)
PLT- 224 LB Conc. Load at (7.37,16.40), (8.26,16.40)
PLT- 205 LB Conc. Load at (7.81,16.40)
PLB- 80 LB Conc. Load at (6.33,13.04), (9.29,13.04)
PLB- 68 LB Conc. Load at (7.00,13.04), (8.63,13.04)
PLB- 184 LB Conc. Load at (7.37,13.04), (8.26,13.04)
PLB- 66 LB Conc. Load at (7.81,13.04)

3 COMPLETE TRUSSES REQUIRED

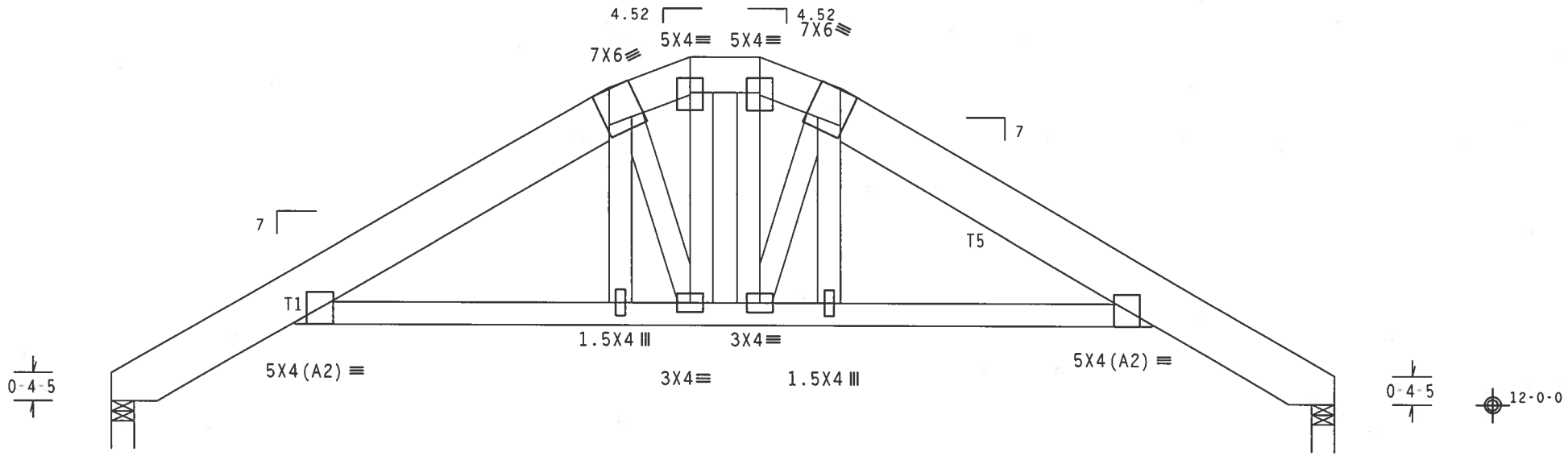
Nailing Schedule: (12d_Common_(0.148"x3.25"_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

Wind reactions based on MWFRS pressures.

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave

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

Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

TC LL	20.0 PSF	REF R487-- 52741
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321027
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137347
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

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

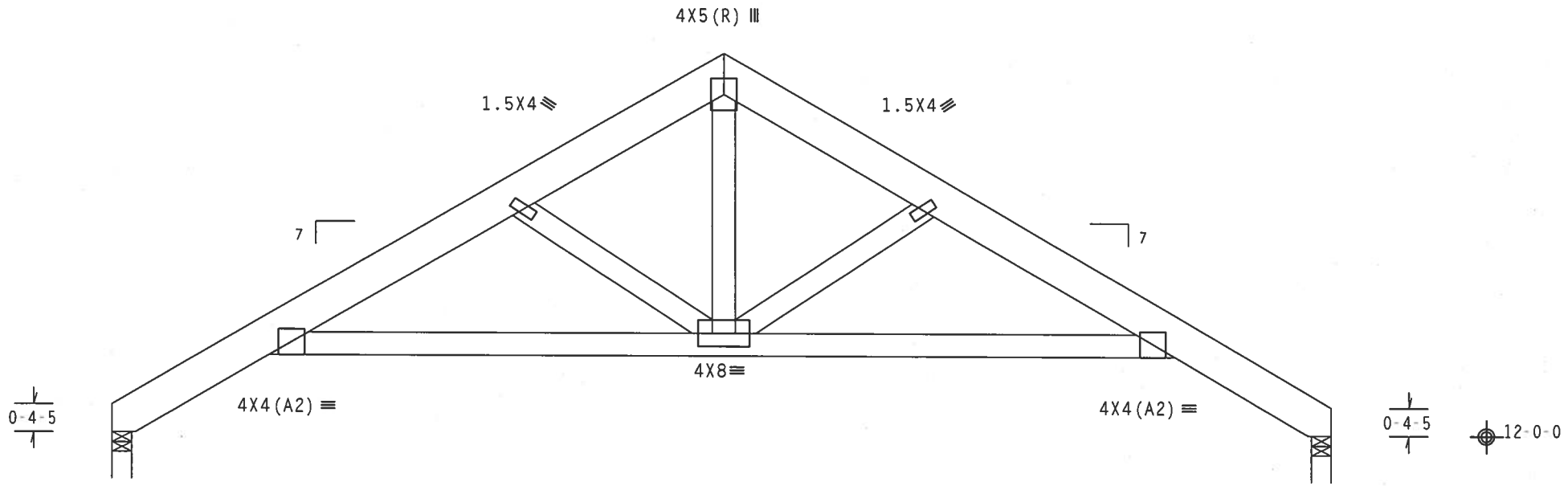
Wind reactions based on MWFRS pressures.

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

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

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.[illegible] QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # 667

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

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 17 '06

TC LL	20.0 PSF	REF R487-- 52742
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321044
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137313
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_Z01

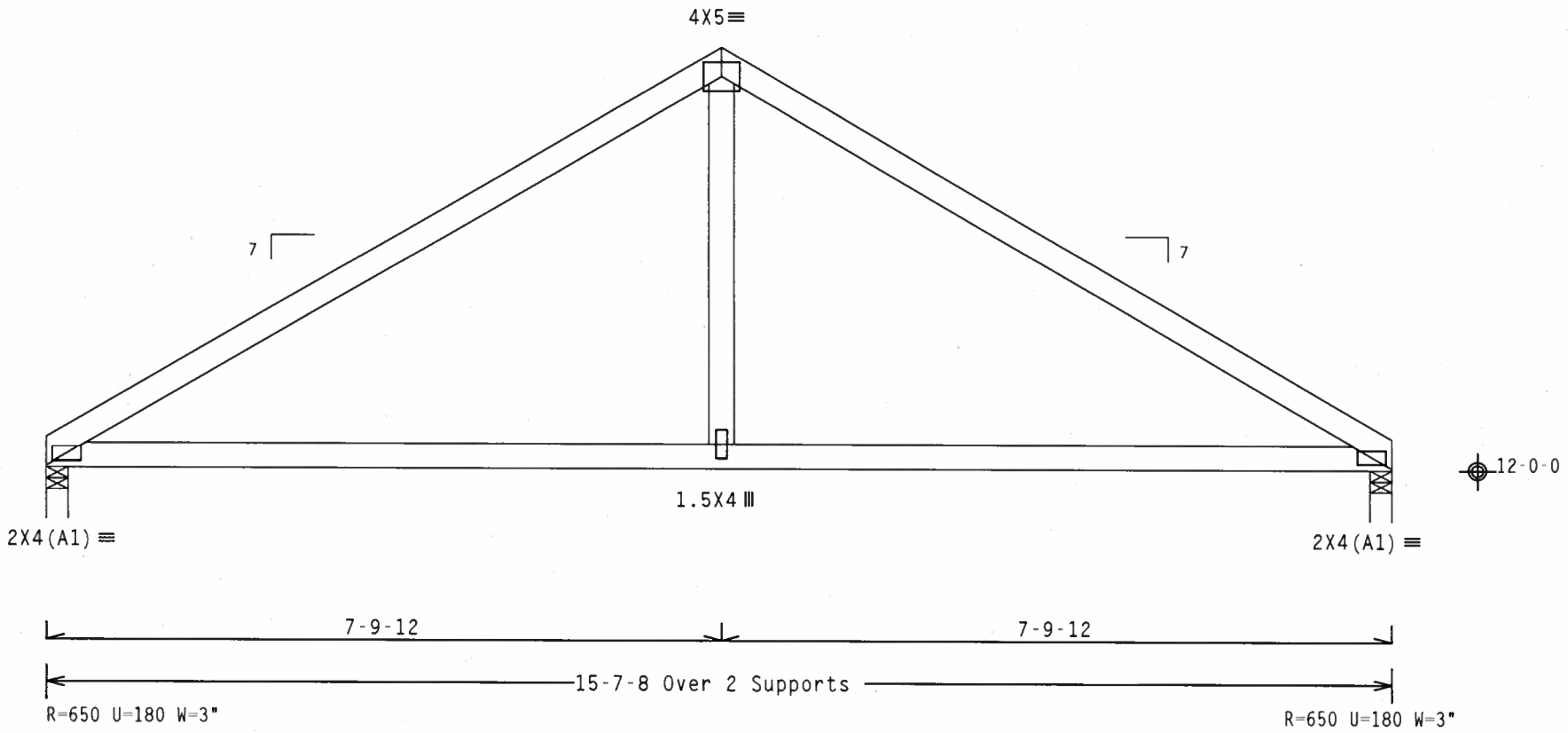
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/-
Scale =.5"/Ft.

ARTHUR R. FISHER LICENSE No: 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17 '06

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

TC LL	20.0 PSF	REF R487-- 52743
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321043
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137320
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_Z01

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

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

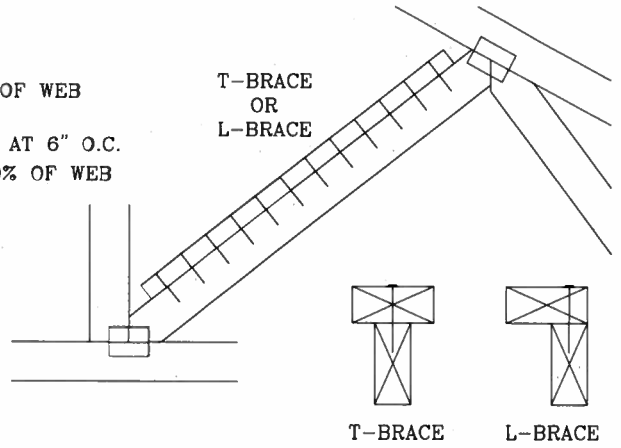
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

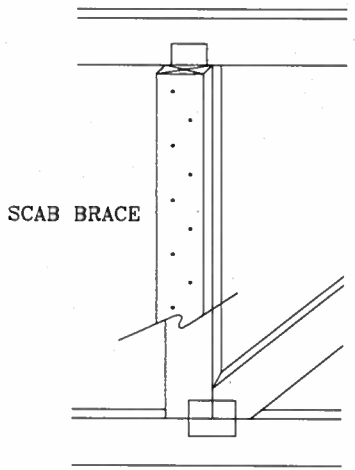
T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE
ATTACH WITH 16d 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 OR .128"x3" GUN NAILS AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579,640

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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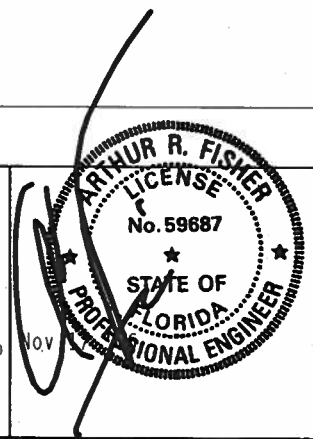


TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

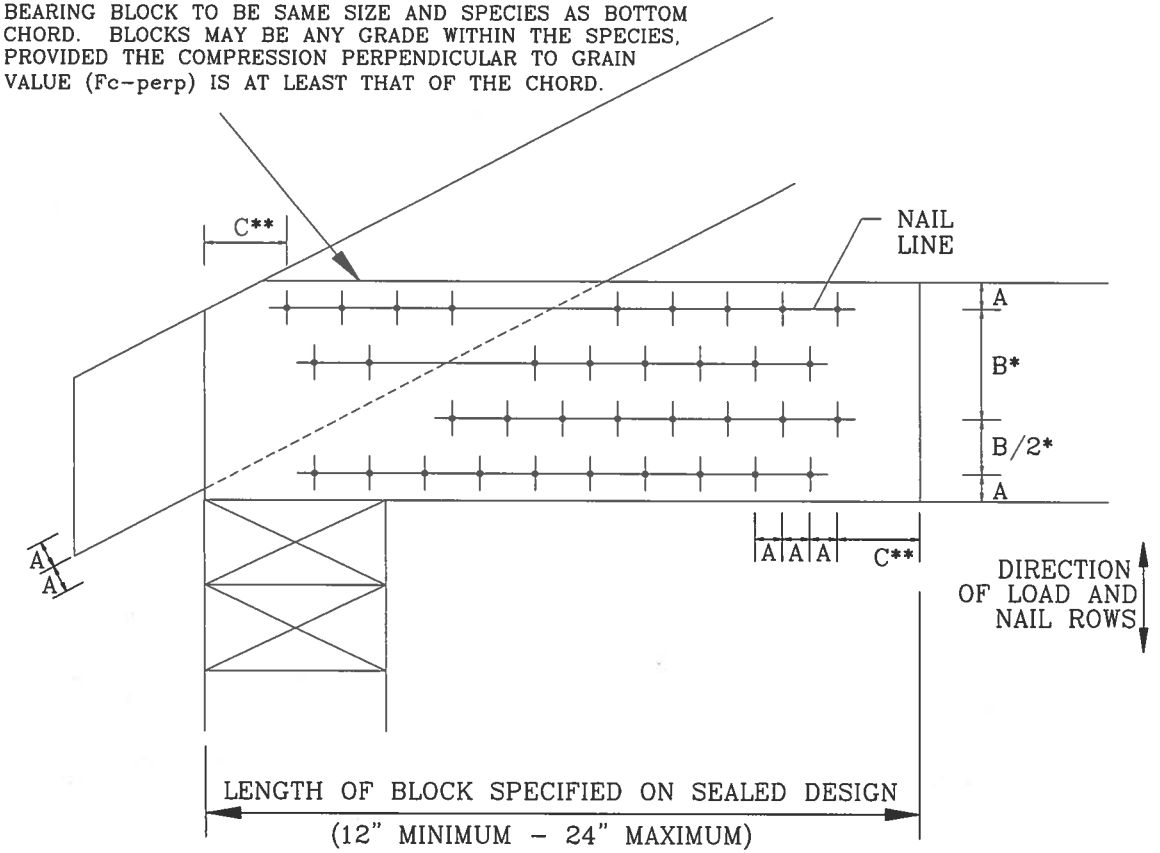
BEARING BLOCK NAIL SPACING DETAIL

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

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

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

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



MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

NAIL TYPE	CHORD SIZE 2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"X2.5")	3	6	9	12	15
10d BOX (0.128"X3")	3	5	7	10	12
12d BOX (0.128"X3.25")	3	5	7	10	12
16d BOX (0.135"X3.5")	3	5	7	10	12
20d BOX (0.148"X4")	2	4	5	6	8
8d COMMON (0.131"X2.5")	3	5	7	10	12
10d COMMON (0.148"X3")	2	4	6	8	10
12d COMMON (0.148"X3.25")	2	4	6	8	10
16d COMMON (0.162"X3.5")	2	4	6	8	10
0.120"X2.5" GUN	3	6	8	11	14
0.131"X2.5" GUN	3	5	7	10	12
0.120"X3.0" GUN	3	6	8	11	14
0.131"x3.0" GUN	3	5	7	10	12

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES A	B*	C**
8d BOX (0.113"X2.5")	3/4"	1 3/8"	1 3/4"
10d BOX (0.128"X3")	7/8"	1 5/8"	2"
12d BOX (0.128"X3.25")	7/8"	1 5/8"	2"
16d BOX (0.135"X3.5")	7/8"	1 5/8"	2 1/8"
20d BOX (0.148"X4")	1"	1 7/8"	2 1/4"
8d COMMON (0.131"X2.5")	7/8"	1 5/8"	2"
10d COMMON (0.148"X3")	1"	1 7/8"	2 1/4"
12d COMMON (0.148"X3.25")	1"	1 7/8"	2 1/4"
16d COMMON (0.162"X3.5")	1'	2"	2 1/2"
0.120"X2.5" GUN	3/4"	1 1/2"	1 7/8"
0.131"X2.5" GUN	7/8"	1 5/8"	2"
0.120"X3.0" GUN	3/4"	1 1/2"	1 7/8"
0.131"x3.0" GUN	7/8"	1 5/8"	2"

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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ARTHUR R. FISHER LICENSE No. 39687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 17

REF	BEARING BLOCK
DATE	11/26/03
DRWG	CNBRGBLK1103
-ENG	SJP/KAR

PIGGYBACK DETAIL

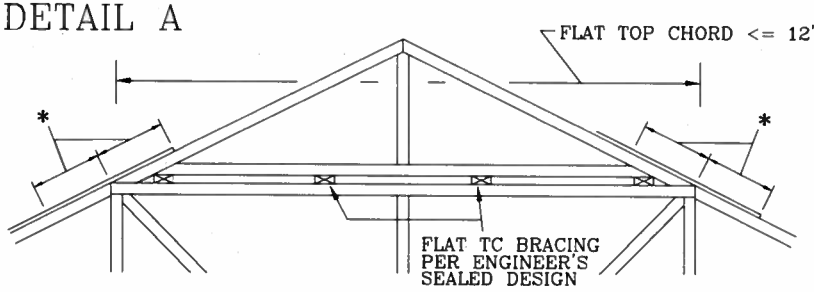
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

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

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

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

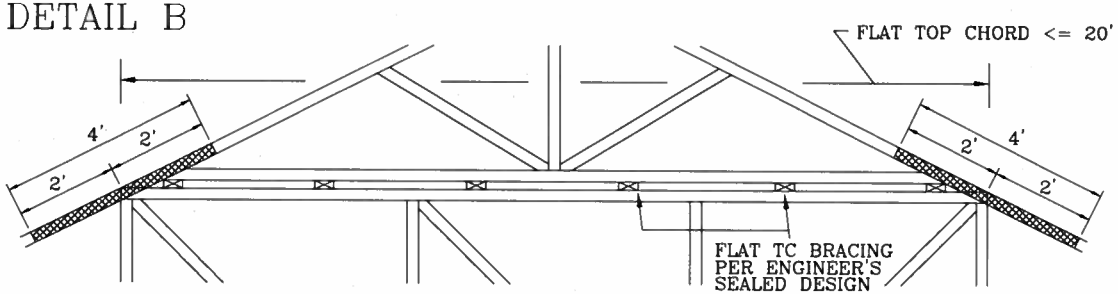
DETAIL A



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

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

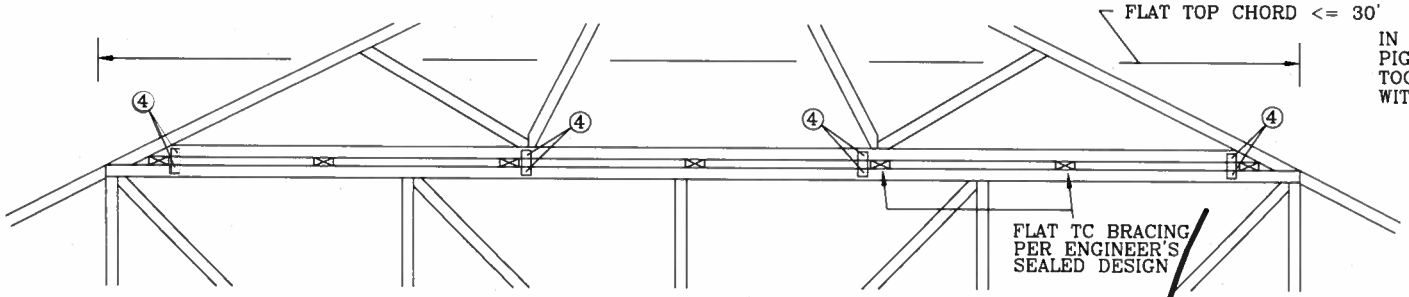
DETAIL B



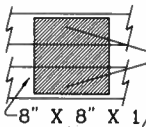
PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"X3") NAILS AND SECURED WITH 2X4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

DETAIL C

CAP TRUSS TOENAILED TO TOP CHORD BRACING AND SECURED WITH 3X8 TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS. CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 160TL FOR TRULOX INFORMATION.



IN LIEU OF TRULOX CONNECTORS, ALPINE 62PB SPECIAL PIGGYBACK CONNECTORS MAY BE USED. SHOP APPLY TOOTHED PORTION, FIELD ATTACH TO MATING TRUSS WITH (4) 0.120" X 0.375" NAILS MINIMUM EACH FACE.



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

THIS DRAWING REPLACES DRAWINGS 581,670 & 961,860

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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

TC LL	PSF	REF	PIGGYBACK
TC DL	PSF	DATE	04/14/05
BC DL	PSF	DRWG	PIGBACKA0405
BC LL	PSF	-ENG	DLJ/KAR
TOT. LD.	MAX 60 PSF		
DUR. FAC.	1.15		
SPACING	24.0"		

PIGGYBACK DETAIL

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

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

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

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

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

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

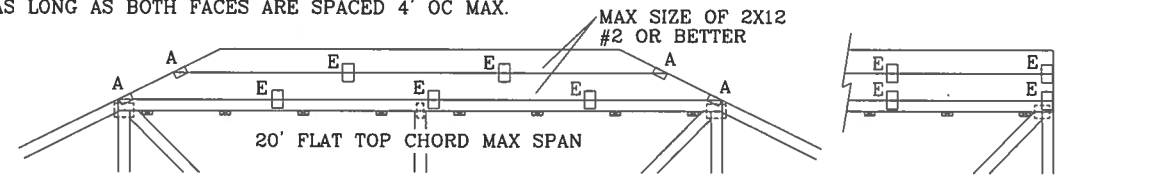
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

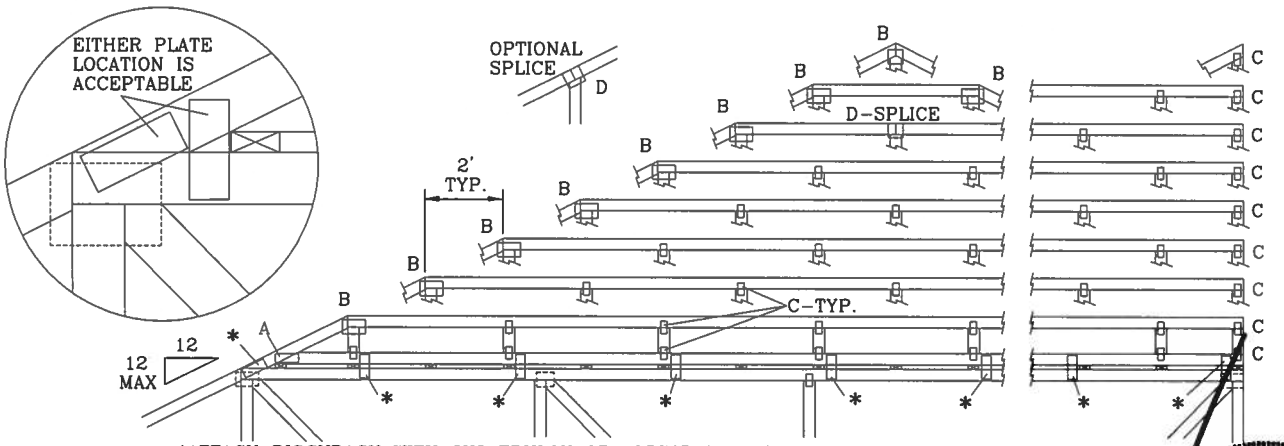
130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, SBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

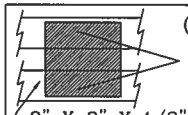
130 MPH WIND, 30' MEAN HGT, ASCE 7-98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.





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



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

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

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

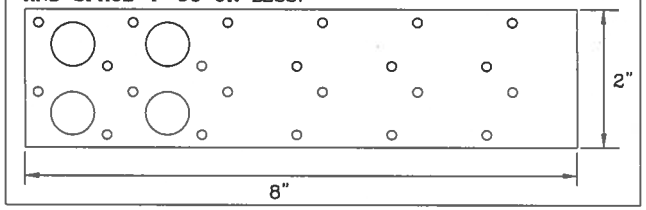
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (8) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d BOX (0.113"X 2.5",MIN) NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d BOX (0.135"X 3.5",MIN) NAILS AT 4" OC.

* PIGGYBACK SPECIAL PLATE

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



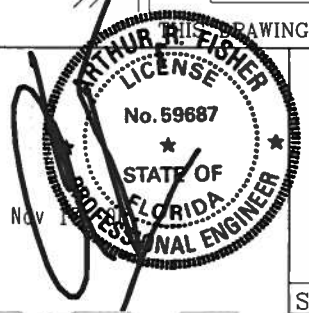
THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



Nov

MAX LOADING
55 PSF AT 1.33 DUR. FAC.
50 PSF AT 1.25 DUR. FAC.
47 PSF AT 1.15 DUR. FAC.
SPACING 24.0"

REF	PIGGYBACK
DATE	04/14/05
DRWG	PIGBACKB0405
-ENG	DLJ/KAR