

This Permit Expires One Year From the Date of Issue

APPLICANTAL MCNABBPHONE229 482-2595

ADDRESS2404BEMISS ROADVALDOSTAFL31602

OWNERCHRISMILL HOMESPHONE229 249-0901

ADDRESS254SW CALLAWAY DRIVELAKE CITYFL32024

CONTRACTORMICHAEL MILLERPHONE229 249-0901

LOCATION OF PROPERTY247S, TL ON CALLAHAN, TR ON CALLAWAY DRIVE, 2ND HOUSE DOWN
FROM CORNER ON PHEASANT & CALLAWAY

TYPE DEVELOPMENTSFD,UTILITYESTIMATED COST OF CONSTRUCTION108500.00

HEATED FLOOR AREAS2170.00TOTAL AREAS3028.00HEIGHTSTORIES1

FOUNDATIONCONCWALLSFRAMEDROOF PITCH8/12FLOORSLAB

LAND USE & ZONINGRSF-2MAX. HEIGHT24

Minimum Set Back Requirments:STREET-FRONT25.00REAR15.00SIDE10.00

NO. EX.D.U.0FLOOD ZONEX PPDEVELOPMENT PERMIT NO.

PARCEL ID15-4S-16-03023-255SUBDIVISIONCALLAWAY

LOT55BLOCKPHASEUNITTOTAL ACRES

000001178

Culvert Permit No.Culvert WaiverContractor's License NumberApplicant/Owner/Contractor

CULVERT06-0238-NBKJH

Driveway ConnectionSeptic Tank NumberLU & Zoning checked byApproved for IssuanceNew Resident

COMMENTS: LOT FLOODED 2004 MEETS RESOLUTION 2005R-26 PER CO ENGINEER

MFE TO BE 88.5, ELEVATION LETTER REQUIRED BEFORE SLAB

Check # or Cash1106

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary PowerFoundationMonolithic

date/app. bydate/app. bydate/app. by

Under slab rough-in plumbingSlabSheathing/Nailing

date/app. bydate/app. bydate/app. by

FramingRough-in plumbing above slab and below wood floor

date/app. bydate/app. by

Electrical rough-inHeat & Air DuctPeri. beam (Lintel)

date/app. bydate/app. bydate/app. by

Permanent powerC.O. FinalCulvert

date/app. bydate/app. bydate/app. by

M/H tie downs, blocking, electricity and plumbingPool

date/app. bydate/app. by

ReconnectionPump poleUtility Pole

date/app. bydate/app. bydate/app. by

M/H PoleTravel TrailerRe-roof

date/app. bydate/app. bydate/app. by

BUILDING PERMIT FEE \$545.00CERTIFICATION FEE \$15.14SURCHARGE FEE \$15.14

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

FLOOD DEVELOPMENT FEE \$FLOOD ZONE FEE \$25.00CULVERT FEE \$25.00TOTAL FEE675.28

INSPECTORS OFFICE

CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Permit No. _____

Tax Folio No. _____

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF Columbia.

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

1. Description of property (legal description of the property and street address, if available):

Lot 55, Callaway Subdivision Phase 2

Plat Book 7, Pages 70-71
2. General description of improvement: **New Construction of residential dwelling.**
3. Owner information:
 4. Name and address: **ChrisMill Homes.**
2404 Bemiss Road
Valdosta, GA 31602
 - b) Interest in property: **Fee Simple.**
 - c) Name and address of fee simple title holder (if other than Owner): **N/A.**
4. Contractor (name and address): **ChrisMill Homes, Inc**
2404 Bemiss Road
Valdosta, GA 31602
 - a) Phone number: **(229)249-0901.**
 - b) Fax number (optional, if service by fax is acceptable): **229-242-2083**
5. Surety information:
 - a) Name and address: **Developers Surety & Indemnity Co.**
P.O. Box 19725
Irvane CA 92623
 - b) Phone number: **949-263-3300**
 - c) Fax number (optional, if service by fax is acceptable): **949-263-3300**
 - d) Amount of bond: **\$50,000.00**
6. Lender (name and address): **Citizens Bank of Nashville**
PO Box 128
Nashville, GA 31639
 - a) Phone number: **229-686-7444**
 - b) Fax number (optional, if service by fax is acceptable): **229-686-3079**
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 and address):
Michael Miller
92 Sadberry Road
Quincy, FL 32351
 - a) Phone number: **229-249-0901**
 - b) Fax number (optional, if service by fax is acceptable):
8. In addition to himself, Owner designates: _____ of _____
_____ (address) to receive a copy of the
Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
 - a) Phone number: _____
 - b) Fax number (optional, if service by fax is acceptable): _____
9. Expiration date of notice of commencement (the expiration date is one year from the date of recording unless a different date is specified): _____

(Signatures on following page)

ChrisMill Homes of Florida
2404 Bemiss Road
Valdosta, GA 31602



Witness

Witness

The foregoing instrument was acknowledged before me this 17 day of May, 2005, by _____ and who is () personally known to me or () has produced a driver's license as identification.



NOTARY PUBLIC
My Commission Expires:
Notary Public, Lowndes County, Georgia
My Commission Expires Aug. 28, 2009

(NOTARIAL SEAL)

Witness

Witness

The foregoing instrument was acknowledged before me this _____ day of _____, 2005, by _____ and who is () personally known to me or () has produced a driver's license as identification.

NOTARY PUBLIC
My Commission Expires:

(NOTARIAL SEAL)

Inst:2006012198 Date:05/18/2006 Time:12:28

DC,P.Dewitt Cason,Columbia County B:1084 P:522

Witnesses - Not Necessary

Jurat - Necessary

Comments:

1. This is the form as set forth in Section 713.13(1)(d), Florida Statutes.
2. Section 713.18(3), Florida Statutes provides that the inclusion of the information to be set forth in paragraphs 4, 5, 6, 7 and 8 of the form is optional to the owner signing the Notice of Commencement. It has been recommended that owner refrain from authorizing service by facsimile. Joel W. Walters, The 1996 Amendments to the Florida Construction Lien Law, The Florida Bar Journal, Volume LXXI, No. 1, 16, 18 (January, 1997).
3. If there is a Bond, a copy of same must be attached. See Section 713.13(1)(e), Florida Statutes.
4. It is not necessary to file a Notice of Commencement: (a) for subdivision improvements as provided in Section 713.04, Florida Statutes; or (b) for an improvement that is exempt pursuant to Section 713.02(5), Florida Statutes (being an improvement for which the direct contract price is \$2,500.00 or less).

Callaway
Lot 55

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only	Application # <u>0604-100</u>	Date Received <u>4/27/06</u>	By <u>CF</u>	Permit # <u>1179/24838</u>
Application Approved by - Zoning Official <u>BKC</u>		Date <u>3/07/06</u>	Plans Examiner <u>CKJH</u>	Date <u>7-31-06</u>
Flood Zone <u>Xppld</u>	Development Permit <u>N/A</u>	Zoning <u>RSF-2</u>	Land Use Plan Map Category <u>RES Lnd Dev</u>	
Comments <u>Lot Flooded 2004 meets Resolution 2005R-26 per Co. Engineer. MFE to be 88.5 ft. Elevation letter Required</u>				

Applicants Name Linda or Melanie Roder Phone 386-752-2281
Address 387 S.W. Kemp Gt Lake City FL 32024
Owners Name Chrismill Homes Inc. Phone 229-249-0901
911 Address 254 S.W. Callaway Dr. Lake City FL 32024
Contractors Name Michael Miller Phone 229-249-0901
Address 2404 Bemiss Rd Valdosta, GA 31602
Fee Simple Owner Name & Address NA
Bonding Co. Name & Address NA
Architect/Engineer Name & Address Will Myers / Nick Geister
Mortgage Lenders Name & Address Citizens Bank of Nashville
Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
Property ID Number 15-45-16 R03023-255 Estimated Cost of Construction 185,000
Subdivision Name Callaway Lot 55 Block Unit Phase 2
Driving Directions Hwy 247 (Branford Hwy) L on Callahan, R on S.W. Callaway Dr, pass 2 streets, 2nd house down from corner of Phasand + S.W. Callaway on right past
Type of Construction SFD Number of Existing Dwellings on Property 0 Garden Ct.
Total Acreage Lot Size .05 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 50' Side 20'9" Side 23'3" Rear 81'4"
Total Building Height 24'-10" Number of Stories 1 Heated Floor Area 2170 Roof Pitch 8-12
Porches 331 GARAGE 527 TOTAL 3028

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) CK# 1106

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 16 day of February 2006

Personally known ✓ or Produced Identification

Michael Miller
Contractor Signature
Contractors License Number CRC 1327579
Competency Card Number
NOTARY STAMP/SEAL

Stacey Hall
Notary Signature

Notary Public, Lowndes County, Georgia
My Commission Expires Aug. 29, 2009

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 05-876
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Inst:2006000135 Date:01/04/2006 Time:15:24

Doc Stamp-Deed : 630.00

mk DC, P. DeWitt Cason, Columbia County B:1070 P:476

Property Appraiser's
Identification Number R03023-253/R03023-254/R03023-255

WARRANTY DEED

THIS INDENTURE, made this 3rd day of January, 2006, BETWEEN DANIEL CRAPPS, as Trustee under Trust Agreement dated January 14, 1996, known as CALLAWAY LAND TRUST, whose post office address is 2806 W. US Highway 90, Suite 101, Lake City, FL 32055, of the County of Columbia, State of Florida, grantor*, and CHRISMILL HOMES OF FLORIDA, LLC, A Florida Limited Liability Company, whose Document Number is L05000119095, and whose post office address is 426 S.W. Commerce Blvd., Lake City, FL 32024, of the County of Columbia, State of Florida, grantee*.

WITNESSETH: that said grantor, for and in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

Lots 53, 54 and 55, CALLAWAY PHASE TWO, a subdivision according to the plat thereof as recorded in Plat Book 7, Pages 70-71 of the public records of Columbia County, Florida.

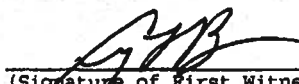
SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

*"Grantor" and "grantee" are used for singular or plural, as context requires.

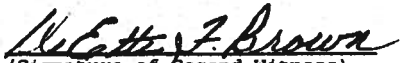
IN WITNESS WHEREOF, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered
in our presence:



(Signature of First Witness)
Crystal L. Brunner

(Typed Name of First Witness)



(Signature of Second Witness)
DeEtte F. Brown

(Typed Name of Second Witness)



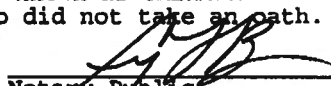
(SEAL)
Grantor
DANIEL CRAPPS, as Trustee

Printed Name

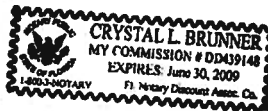
STATE OF Florida
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 3rd day of January, 2006, by DANIEL CRAPPS, as Trustee under Trust Agreement dated January 14, 1996, known as CALLAWAY LAND TRUST who is personally known to me and who did not take an oath.

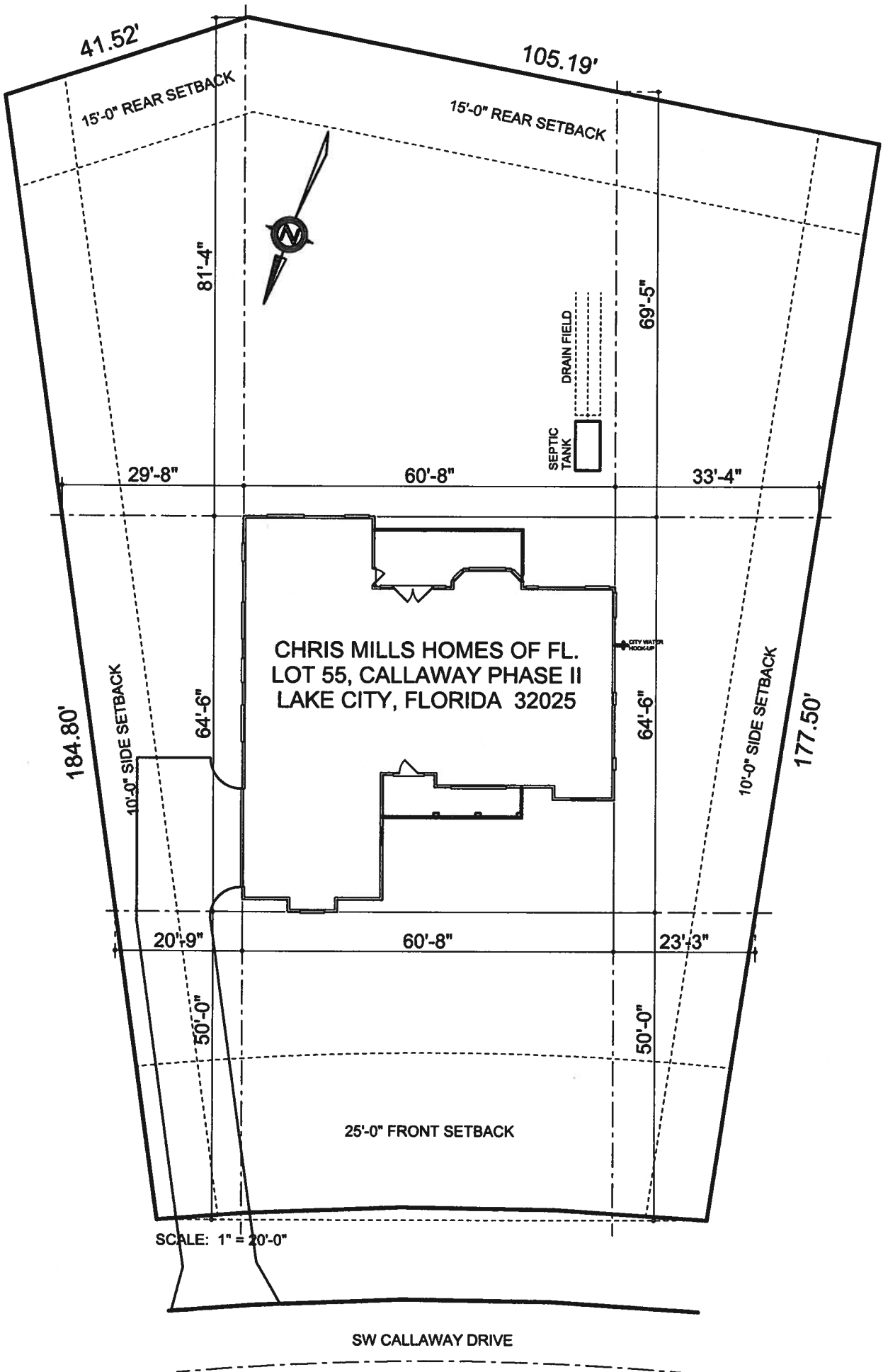
My Commission Expires:



Notary Public
Printed, typed, or stamped name:



Inst:2006000135 Date:01/04/2006 Time:15:24
Doc Stamp-Deed : 630.00
DC,P.Dewitt Cason,Columbia County B:1070 P:477



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **Lot 55, Callaway Phase II**
Address: **Lot: 55, Sub: Callaway, Plat:**
City, State: **Lake City, FL 32025-**
Owner: **Spec House**
Climate Zone: **North**

Builder: **Chris Mills Homes Of Fl**
Permitting Office: **Columbia County**
Permit Number: **24838**
Jurisdiction Number: **221000**

- | | | |
|---|------------------------------|---|
| 1. New construction or existing | New | — |
| 2. Single family or multi-family | Single family | — |
| 3. Number of units, if multi-family | 1 | — |
| 4. Number of Bedrooms | 4 | — |
| 5. Is this a worst case? | No | — |
| 6. Conditioned floor area (ft²) | 2170 ft² | — |
| 7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default) | | — |
| a. U-factor: | Description Area | |
| (or Single or Double DEFAULT) | 7a. (Dble Default) 423.1 ft² | — |
| b. SHGC: | | |
| (or Clear or Tint DEFAULT) | 7b. (Clear) 423.1 ft² | — |
| 8. Floor types | | |
| a. Slab-On-Grade Edge Insulation | R=0.0, 216.0(p) ft | — |
| b. N/A | | — |
| c. N/A | | — |
| 9. Wall types | | |
| a. Frame, Wood, Exterior | R=13.0, 1084.9 ft² | — |
| b. Frame, Wood, Adjacent | R=13.0, 180.0 ft² | — |
| c. N/A | | — |
| d. N/A | | — |
| e. N/A | | — |
| 10. Ceiling types | | |
| a. Under Attic | R=30.0, 2220.0 ft² | — |
| b. N/A | | — |
| c. N/A | | — |
| 11. Ducts(Leak Free) | | |
| a. Sup: Unc. Ret: Unc. AH: Garage | Sup. R=6.0, 50.0 ft | — |
| b. N/A | | — |

- | | | |
|--|-------------------|-------|
| 12. Cooling systems | | |
| a. Central Unit | Cap: 47.0 kBtu/hr | — |
| | SEER: 11.00 | — |
| b. N/A | | — |
| c. N/A | | — |
| 13. Heating systems | | |
| a. Electric Heat Pump | Cap: 47.0 kBtu/hr | — |
| | HSPF: 6.80 | — |
| b. N/A | | — |
| c. N/A | | — |
| 14. Hot water systems | | |
| a. Electric Resistance | Cap: 50.0 gallons | — |
| | EF: 0.90 | — |
| b. N/A | | — |
| c. Conservation credits | | — |
| (HR-Heat recovery, Solar | | |
| DHP-Dedicated heat pump) | | |
| 15. HVAC credits | | PT, — |
| (CF-Ceiling fan, CV-Cross ventilation, | | |
| HF-Whole house fan, | | |
| PT-Programmable Thermostat, | | |
| MZ-C-Multizone cooling, | | |
| MZ-H-Multizone heating) | | |

Glass/Floor Area: 0.19

Total as-built points: 31081

Total base points: 31859

PASS

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

PREPARED BY: Will Myers

DATE: 1/30/06

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

OWNER/AGENT: John Kohn

DATE: 3-21-06

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: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT									
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points					
.18	2170.0	20.04	7827.6	Double, Clear	W	1.5	8.0	30.0	38.52	0.96	1107.3		
				Double, Clear	W	1.5	8.0	4.0	38.52	0.96	147.6		
				Double, Clear	N	15.0	10.0	17.8	19.20	0.65	223.5		
				Double, Clear	W	15.0	10.0	28.0	38.52	0.45	484.0		
				Double, Clear	W	15.0	10.0	40.0	38.52	0.45	691.5		
				Double, Clear	SW	15.0	10.0	14.0	40.16	0.42	238.8		
				Double, Clear	W	15.0	10.0	42.0	38.52	0.45	726.0		
				Double, Clear	NW	15.0	10.0	14.0	25.97	0.58	209.6		
				Double, Clear	W	1.5	8.0	6.0	38.52	0.96	221.5		
				Double, Clear	W	1.5	8.0	16.0	38.52	0.96	590.6		
				Double, Clear	N	1.5	8.0	16.0	19.20	0.97	297.1		
				Double, Clear	N	1.5	8.0	20.0	19.20	0.97	371.4		
				Double, Clear	E	1.5	8.0	20.0	42.06	0.96	805.5		
				Double, Clear	E	6.5	10.0	63.0	42.06	0.64	1693.6		
				Double, Clear	E	8.5	10.0	13.3	42.06	0.56	310.7		
				Double, Clear	S	1.5	8.0	75.0	35.87	0.92	2483.6		
				Double, Clear	S	1.5	8.0	4.0	35.87	0.92	132.5		
				As-Built Total:							423.1	10734.9	
				WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points		
Adjacent	180.0	0.70	126.0	Frame, Wood, Exterior	13.0		1084.9	1.50	1627.4				
Exterior	1084.9	1.70	1844.3	Frame, Wood, Adjacent	13.0		180.0	0.60	108.0				
Base Total:		1264.9	1970.3	As-Built Total:		1264.9		1735.4					
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points								
Adjacent	20.0	1.60	32.0	Exterior Insulated			20.0	4.10	82.0				
Exterior	20.0	4.10	82.0	Adjacent Insulated			20.0	1.60	32.0				
Base Total:		40.0	114.0	As-Built Total:		40.0		114.0					
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points						
Under Attic	2170.0	1.73	3754.1	Under Attic	30.0		2220.0	1.73 X 1.00	3840.6				
Base Total:		2170.0	3754.1	As-Built Total:		2220.0		3840.6					

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT			
FLOOR TYPES Area X BSPM = Points				Type	R-Value	Area X SPM = Points	
Slab	216.0(p)	-37.0	-7992.0	Slab-On-Grade Edge Insulation	0.0	216.0(p)	-8899.2
Raised	0.0	0.00	0.0				
Base Total:			-7992.0	As-Built Total:		216.0	-8899.2
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
2170.0 10.21 22155.7				2170.0 10.21 22155.7			
Summer Base Points: 27829.8				Summer As-Built Points: 29681.4			
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X Duct Multiplier X System Multiplier X Credit Multiplier = Cooling Points
27829.8	0.4266		11872.2	(sys 1: Central Unit 47000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 29681 1.00 (1.09 x 1.000 x 1.00) 0.310 0.950 9536.3 29681.4 1.00 1.090 0.310 0.950 9536.3			

(sys 1: Central Unit 47000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area											
				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points			
.18	2170.0	12.74	4976.2	Double, Clear	W	1.5	8.0	30.0	20.73	1.01	628.8
				Double, Clear	W	1.5	8.0	4.0	20.73	1.01	83.8
				Double, Clear	N	15.0	10.0	17.8	24.58	1.02	447.4
				Double, Clear	W	15.0	10.0	28.0	20.73	1.20	698.9
				Double, Clear	W	15.0	10.0	40.0	20.73	1.20	998.5
				Double, Clear	SW	15.0	10.0	14.0	16.74	1.81	424.4
				Double, Clear	W	15.0	10.0	42.0	20.73	1.20	1048.4
				Double, Clear	NW	15.0	10.0	14.0	24.30	1.03	350.4
				Double, Clear	W	1.5	8.0	6.0	20.73	1.01	125.8
				Double, Clear	W	1.5	8.0	16.0	20.73	1.01	335.3
				Double, Clear	N	1.5	8.0	16.0	24.58	1.00	393.6
				Double, Clear	N	1.5	8.0	20.0	24.58	1.00	492.0
				Double, Clear	E	1.5	8.0	20.0	18.79	1.02	383.3
				Double, Clear	E	6.5	10.0	63.0	18.79	1.18	1392.0
				Double, Clear	E	8.5	10.0	13.3	18.79	1.24	311.1
				Double, Clear	S	1.5	8.0	75.0	13.30	1.04	1038.3
				Double, Clear	S	1.5	8.0	4.0	13.30	1.04	55.4
				As-Built Total: 423.1 9207.3							
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	180.0	3.60	648.0	Frame, Wood, Exterior		13.0	1084.9	3.40		3688.7	
Exterior	1084.9	3.70	4014.1	Frame, Wood, Adjacent		13.0	180.0	3.30		594.0	
Base Total: 1264.9 4662.1				As-Built Total:			1264.9		4282.7		
DOOR TYPES Area X BWPM = Points				Type				Area X WPM = Points			
Adjacent	20.0	8.00	160.0	Exterior Insulated			20.0	8.40		168.0	
Exterior	20.0	8.40	168.0	Adjacent Insulated			20.0	8.00		160.0	
Base Total: 40.0 328.0				As-Built Total:			40.0		328.0		
CEILING TYPES Area X BWPM = Points				Type	R-Value			Area X WPM X WCM = Points			
Under Attic	2170.0	2.05	4448.5	Under Attic		30.0	2220.0	2.05 X 1.00		4551.0	
Base Total: 2170.0 4448.5				As-Built Total:			2220.0		4551.0		

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT				
FLOOR TYPES	Area	X BWPM	= Points	Type	R-Value	Area	X WPM	= Points
Slab	216.0(p)	8.9	1922.4	Slab-On-Grade Edge Insulation	0.0	216.0(p)	18.80	4080.8
Raised	0.0	0.00	0.0					
Base Total:			1922.4	As-Built Total:			216.0	4080.8
INFILTRATION Area X BWPM = Points				Area X WPM = Points				
	2170.0	-0.59	-1280.3			2170.0	-0.59	-1280.3
Winter Base Points:			15057.0	Winter As-Built Points:			21149.4	
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier = Heating Points
15057.0	0.6274	9446.7		(sys 1: Electric Heat Pump 47000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0				
				21149.4	1.000	(1.069 x 1.000 x 1.00)	0.501	0.950 10770.7
				21149.4	1.00	1.069	0.501	0.950 10770.7

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	Multiplier X Credit Multiplier	= Total
4		2635.00	10540.0	50.0	0.90	4	1.00	2693.56	10774.2
				As-Built Total:					10774.2

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	+ Hot Water Points = Total Points	Cooling Points	+	Heating Points	+ Hot Water Points = Total Points
11872		9447	10540 31859	9536		10771	10774 31081

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

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.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.7

The higher the score, the more efficient the home.

Spec House, Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

1. New construction or existing	New	___	12. Cooling systems		
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 47.0 kBtu/hr	___
3. Number of units, if multi-family	1	___		SEER: 11.00	___
4. Number of Bedrooms	4	___	b. N/A		___
5. Is this a worst case?	No	___	c. N/A		___
6. Conditioned floor area (ft ²)	2170 ft ²	___			___
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)	423.1 ft ²	a. Electric Heat Pump	Cap: 47.0 kBtu/hr	___
b. SHGC:				HSPF: 6.80	___
(or Clear or Tint DEFAULT)	7b. (Clear)	423.1 ft ²	b. N/A		___
8. Floor types			c. N/A		___
a. Slab-On-Grade Edge Insulation	R=0.0, 216.0(p) ft	___			___
b. N/A		___	14. Hot water systems		
c. N/A		___	a. Electric Resistance	Cap: 50.0 gallons	___
9. Wall types				EF: 0.90	___
a. Frame, Wood, Exterior	R=13.0, 1084.9 ft ²	___	b. N/A		___
b. Frame, Wood, Adjacent	R=13.0, 180.0 ft ²	___	c. Conservation credits		___
c. N/A		___	(HR-Heat recovery, Solar		___
d. N/A		___	DHP-Dedicated heat pump)		___
e. N/A		___	15. HVAC credits	PT, ___	___
10. Ceiling types			(CF-Ceiling fan, CV-Cross ventilation,		___
a. Under Attic	R=30.0, 2220.0 ft ²	___	HF-Whole house fan,		___
b. N/A		___	PT-Programmable Thermostat,		___
c. N/A		___	MZ-C-Multizone cooling,		___
11. Ducts(Leak Free)			MZ-H-Multizone heating)		___
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft	___			___
b. N/A		___			___

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

Builder Signature: _____

Date: _____

Address of New Home: _____

City/FL Zip: _____



**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStarTM 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.
EnergyGauge® (Version: FLRCPB v4.1)

Energy Code Compliance

Duct System Performance Report

Project Name: Lot 55, Callaway Phase II Address: City, State: Lake City, FL 32025- Owner: Spec House Climate Zone: North	Builder: Permitting Office: Chris Mills Homes Of Fl Permit Number: Columbia County Jurisdiction Number:
---	--

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	Total House Duct System Leakage	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,tot}) ☐ Receive credit if Q _{n,tot} ≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,out}) ☐ Receive credit if Q _{n,out} ≤ 0.03 AND Q _{n,tot} ≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____
Printed Name: _____
Florida Rater Certification #: _____
DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: <http://energygauge.com/search.htm>



BUILDING OFFICIAL: _____
DATE: _____

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001179

DATE 08/07/2006 PARCEL ID # 15-4S-16-03023-255

APPLICANT AL MCNABB PHONE 229 482-2595

ADDRESS 2404 BEMISS ROAD VALDOSTA FL 31602

OWNER CHRISMILL HOMES PHONE 229 249-0901

ADDRESS 254 SW CALLAWAY DRIVE LAKE CITY FL 32024

CONTRACTOR MICHAEL MILLER PHONE 229 249-0901

LOCATION OF PROPERTY 247S, TL ON CALLAHAN, TR ON CALLAWAY DRIVE, 2ND HOUSE DOWN FROM
CORNER OF PHEASANT AND CALLAWAY

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CALLAWAY 55

SIGNATURE ✓

AL MCNABB

INSTALLATION REQUIREMENTS



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

INSTALLATION NOTE: Turnouts will be required as follows:

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

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



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

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

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

Amount Paid 25.00



AS-BUILT SURVEY

OF
LOTS 53, 54 & 55, CALLAWAY
COLUMBIA COUNTY, FLORIDA

NOTES

ELEVATIONS ARE BASED ON BM # 1, EL. 100.00' (ASSUMED DATUM).
THE PURPOSE OF THIS SURVEY IS TO LOCATE THE DRAINAGE DITCHES.
THIS IS NOT A BOUNDARY SURVEY.

LEGEND

- DENOTES 8" RCP R/O & CAP SET (LB 6885)
- DENOTES 8" RCP R/O & CAP SET (LB 6885)
- DENOTES 4" CONCRETE MONUMENT SET (LB 6885)
- DENOTES 4" CONCRETE MONUMENT FOUND
- DENOTES NAIL & DISC FOUND
- NO ID - NO IDENTIFICATION
- END - FOUND
- CM - CONCRETE MONUMENT
- 3 - MORE OR LESS
- OR - OFFICIAL RECORDS BOOK
- PG - PAGE (S)
- PL - PLAT
- CE - CENTERLINE
- (D) DEED
- (C) CALCULATED
- (M) MEASURED
- OR - OFFSET
- POB - POINT OF BEGINNING
- POC - POINT OF COMMENCEMENT
- POB - POINT OF BEGINNING
- POC - POINT OF COMMENCEMENT
- N - NORTH
- E - EAST
- S - SOUTH
- W - WEST
- PC - POINT OF CURVATURE
- PI - POINT OF INTERSECTION
- PT - POINT OF TANGENCY
- PRC - POINT OF REVERSE CURVATURE
- PCC - POINT OF COMPOUND CURVATURE
- R - RADIUS
- L - TANGENT
- Δ - CENTRAL ANGLE
- CH - CHORD BEARING & DISTANCE
- R/W - RIGHT OF WAY
- PCP - PERMANENT CONTROL POINT
- PRM - PERMANENT REFERENCE MONUMENT
- X - X DENOTES OVERHEAD ELECTRIC
- E - E DENOTES OVERHEAD ELECTRIC
- EDP - EDGE OF PAVEMENT
- BOC - BACK OF CURB
- CONCRETE
- BM - BENCHMARK
- EL - ELEVATION

SCALE: 1" = 60'



SURVEY FOR: WESTFIELD GROUP

1-31-06

DATE OF CERTIFICATE

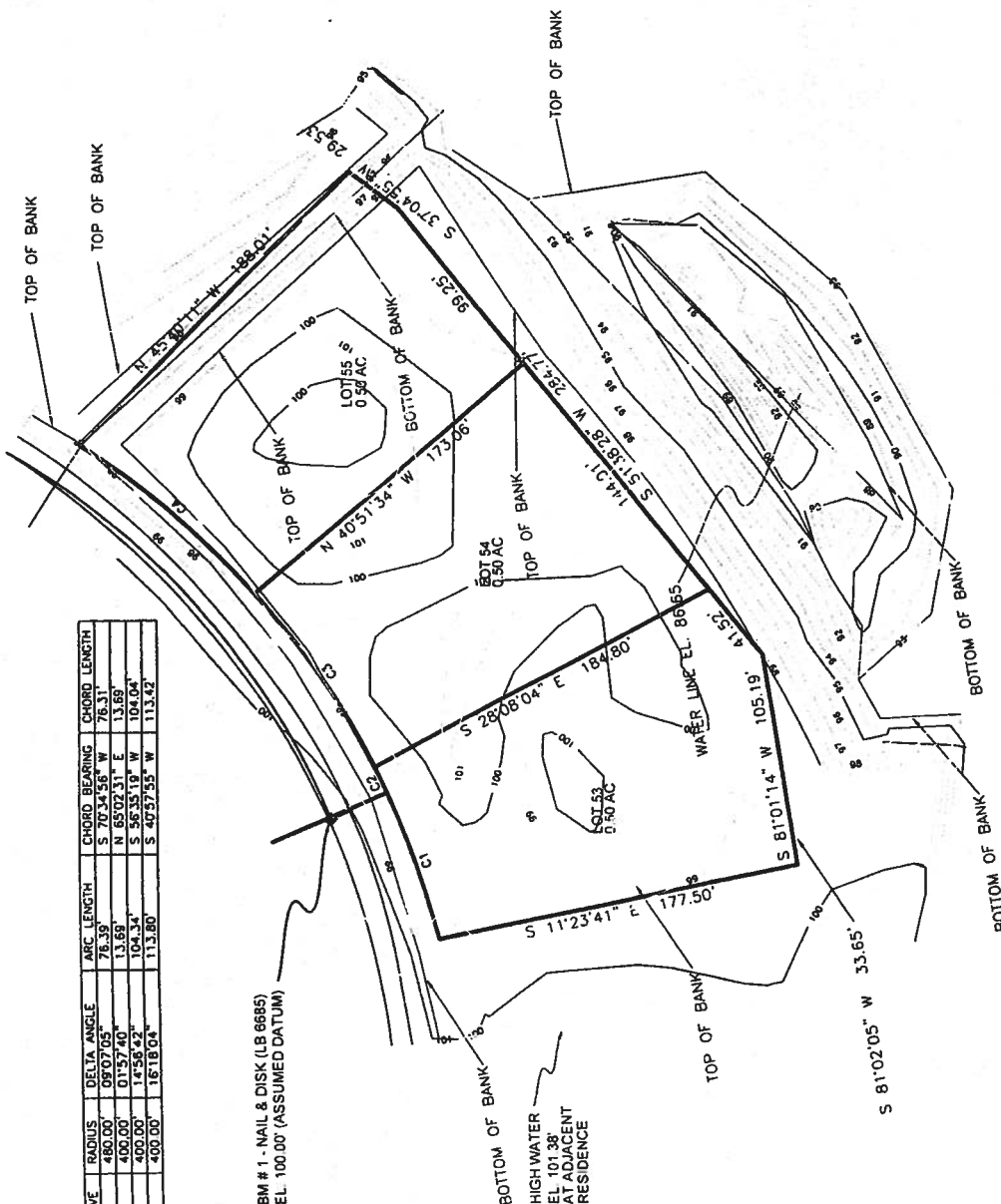
1/30/06

DATE OF FIELD SURVEY

Scott Daniel

BRIAN SCOTT DANIEL, PRM
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 1446

SURVEY VALID ONLY IF FIELD SURVEY SHOWN HEREON. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. FLORIDA CERTIFICATE OF AUTHORIZATION NO. 6885.



CURVE	RADIUS	DELTA ANGLE	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	480.00'	09°07'05"	78.39'	S 70°34'56" W	78.31'
C2	400.00'	01°57'40"	13.69'	N 85°02'31" E	13.69'
C3	400.00'	1°56'42"	104.34'	S 56°35'19" W	104.04'
C4	400.00'	16°18'04"	113.80'	S 40°37'55" W	113.42'

WESTFIELD GROUP



Ballie Bishop & Lane, Inc.

P.O. Box 3717
Lake City, FL 32056
P.O. Box 814
Port St. Joe, FL 32457
Ph. 850-227-9449
Fax. 850-227-9449
Survey Lic. LB-0006885

051010WES.S1

SDP

FIELD BOOK

174 : 69

EFB

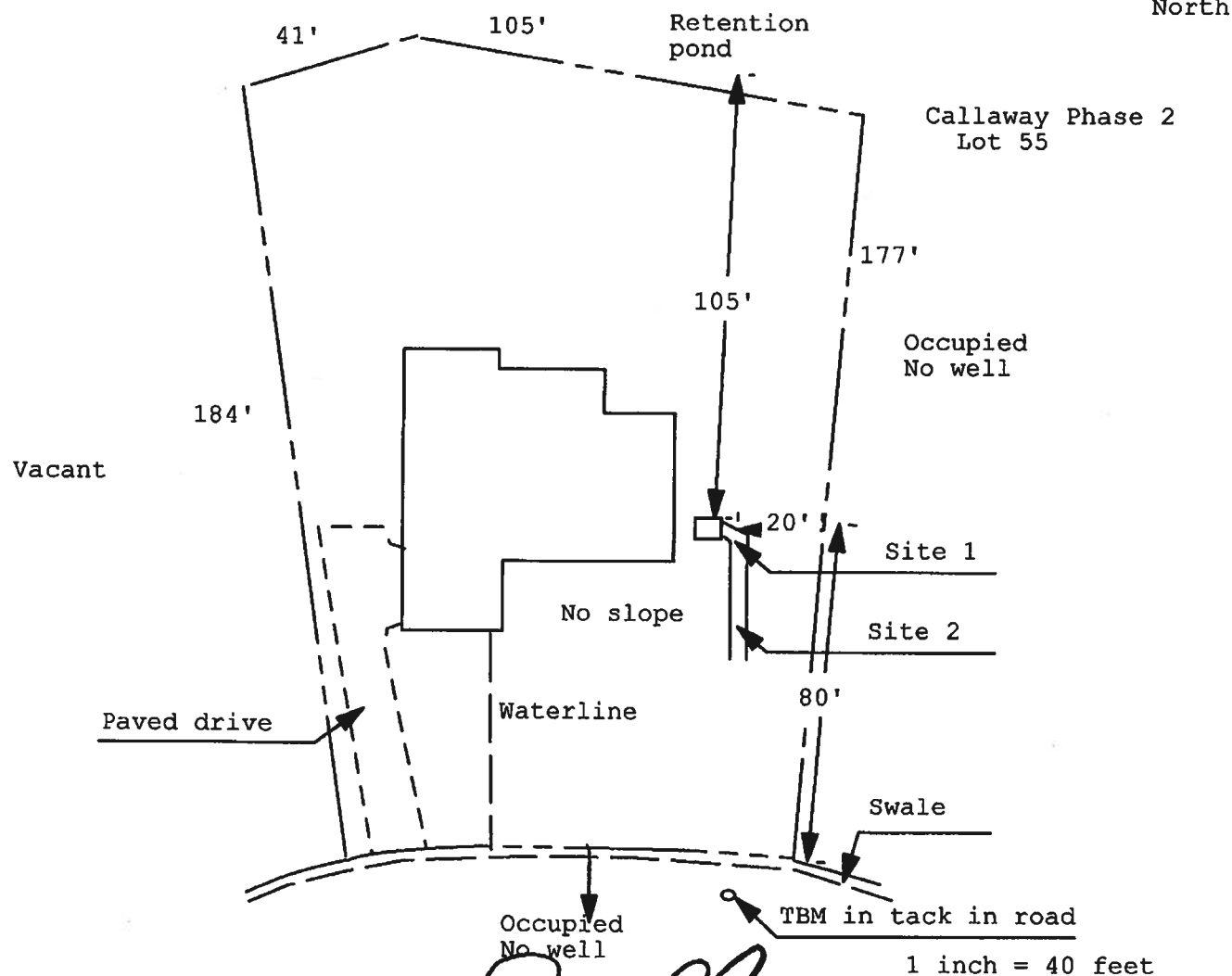
SHEET NO.

1 OF 1

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 06-0238N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

CHRIS MILLS HOMES/CR 05-3392



Site Plan Submitted By Paul L. [Signature] Date 3/1/06
 Plan Approved ☒ Not Approved ☐ Date 3/14/06
 By Mr. [Signature] Columbia CPHU

Notes: _____

Letter of authorization.txt

Notice of Authorization

I Michael Miller, do hereby authorize
Linda or Melonie Roder

to be my representative and act on my behalf in all aspects of
applying for a Septic and building

Septic & building permit to be located in
Columbia county.

The name of the home owner
is Chris Mills Homes.

Legal description Lots 53, 54, 55 Callaway

Michael L. Miller
Contractor's signature

3-17-06

Date

Sworn and subscribed before me this 17 day
of March, 2004.

Stacy Hall
Notary Public, Lowndes County, Georgia
My Commission Expires Aug. 29, 2009

MEMORANDUM

TO: Dale Williams
FROM: Brian Kepner
DATE: July 28, 2006
RE: Callaway, Phase II, Lots 53, 54, and 55

After receiving a copy of the letter from Scott Stewart to you dated June 15, 2006 along with your comments, we forwarded Flood Resolution 2005R-26 to John Colson. John requested that maximum stage elevation for a 100 yr. storm and a statement relative to adverse negative impact to adjoining property owners be added to the grading plan. Those items have been complied with but John has not given his approval due to the unresolved ownership of the retention pond, permit modifications, and the basin not being dug as of yet behind the dike.

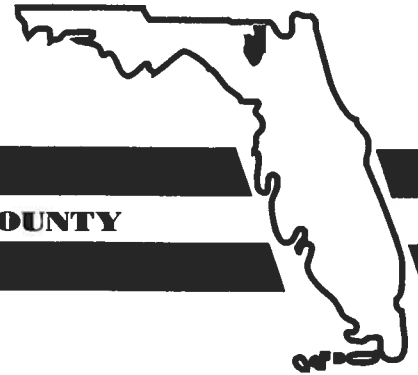
Please advise what course of action you would like me to take as Scott Stewart and Charlie Sparks are inquiring on a daily basis as to the status.

OK To Issue - J. Colson

*OK TO ISSUE -
Dale Williams*

District No. 1 - Ronald Williams
District No. 2 - Dewey Weaver
District No. 3 - George Skinner
District No. 4 - Jennifer Flinn
District No. 5 - Elizabeth Porter

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY



MEMORANDUM

To: John Colson
7-17-06

Date: 10 July 2006
From: John Colson, P.E., County Engineer
To: Brian L. Kepner, County Planner *BK*
Re: Flood Resolution 2005R-26

Talk to Dale

Please find attached the items submitted for Lots 53, 54 and 55, Callaway, Phase II Subdivision.
Please review for compliance with Flood Resolution 2005R-26.

see attached engineer
Require 100 year storm (maximum stage elevation) on sheet 5.

Statement relative to adverse negative impact to adjoining property owners.

*Issues concerning retention pond ownership and permit modifications have not been resolved.
(See Dale's letter to Rick Schultz (2/15/06) and J2WMD letter 2/10/06.)*

BOARD MEETS FIRST THURSDAY AT 7:00 P.M.
AND THIRD THURSDAY AT 7:00 P.M.



BAILEY BISHOP & LANE, INC.

Engineers

Surveyors

Planners

July 5, 2006

Brian Kepner
P.O. Drawer 1529
Lake City, FL 32056

Re: Callaway Subdivison – Lots #53, 54, & 55, Lake City – Grading Plan Development

Mr. Kepner:

As requested in recent correspondence from Columbia County, this letter shall serve as certification that the subject property does not adversely impact adjacent lot owners.

In accordance with resolution 2005R-26, Bailey, Bishop and Lane, Inc. is submitting a grading plan for lots 53, 54 and 55 in Callaway subdivision.

Gregory G. Bailey, P.E.

Certificate of Compliance for Termite Protection
(As required by Florida Building Code (FBC) 1816.1.7)



17856 U.S. 129
McALPIN, FLORIDA 32062
(386) 362-3887
1-800-771-3887
Fax: (386) 364-3529

Chrismill Homes Spec House Callaway Subdivision Lot #55 Lake City, FL 32055
Address of Treatment or Lot/Block of Treatment

soil barrier spray

Method of Termite Prevention Treatment - soil barrier, wood treatment, bait system, other
(describe)

Permit# 24838

The building has received a complete treatment for the prevention of subterranean termites.
The treatment is in accordance with rules and laws established by the Florida Department of
Agriculture and Consumer Services.


Authorized Signature



CHRIS MILL HOMES

24838

FAX TRANSMITTAL COVER SHEET

Amber

Date:

1/9/07

229-300-7155

ATTENTION:

Mr. Harry Dick

Glenn Burgess
Plumbing

Fax # (386) 758-2160

229-460-3320

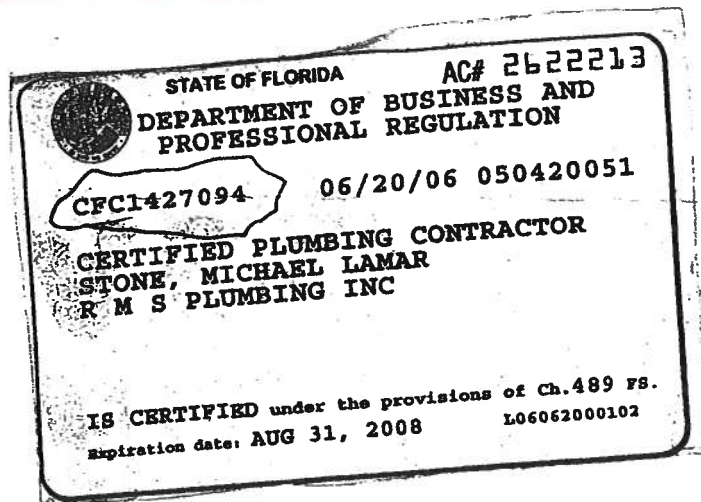
Sent By:

Amber McDonald

Number of Pages (Including Cover Sheet)

Included please find the data on the PEX plumbing system from the BLDG specs as well as a letter from the Truss ENGR for the AC air handler in the overhead. The framer has gone yesterday to address your shapping concerns. Thank You.

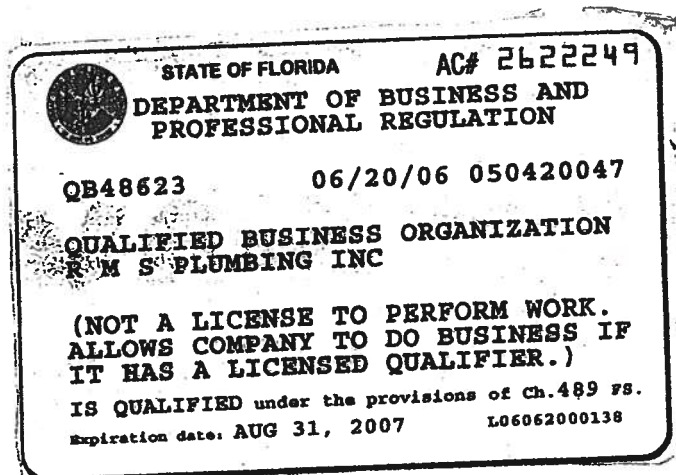
AMBER



Contact :

Glenn Burgess

229-460-3320



RE: PEX Plumbing

SECTION 605 MATERIALS, JOINTS AND CONNECTIONS

605.1 Soil and ground water.

The installation of a water service or water distribution pipe shall be prohibited in soil and ground water contaminated with solvents, fuels, organic compounds or other detrimental materials causing permeation, corrosion, degradation or structural failure of the piping material. Where detrimental conditions are suspected, a chemical analysis of the soil and ground water conditions shall be required to ascertain the acceptability of the water service or water distribution piping material for the specific installation. Where detrimental conditions exist, approved alternative materials or routing shall be required.

605.2 Lead content of water supply pipe and fittings.

Pipe and pipe fittings, including valves and faucets, utilized in the water supply system shall have a maximum of 8-percent lead content.

605.3 Water service pipe.

Water service pipe shall conform to NSF 61 and shall conform to one of the standards listed in Table 605.3. All water service pipe or tubing, installed underground and outside of the structure, shall have a minimum working pressure rating of 160 psi (1100 kPa) at 73.4° F (23° C). Where the water pressure exceeds 160 psi (1100 kPa), piping material shall have a minimum rated working pressure equal to the highest available pressure. Plastic water service piping shall terminate within 5 feet (1524 mm) inside of the point where the pipe penetrates an exterior wall or slab on grade. All ductile iron water pipe shall be cement mortar lined in accordance with AWWA C104.

605.3.1 Dual check-valve-type backflow preventer.

Where a dual check-valve backflow preventer is installed on the water supply system, it shall comply with ASSE 1024.

**TABLE 605.3
WATER SERVICE PIPE**

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 1527; ASTM D 2282
Asbestos-cement pipe	ASTM C 296
Brass pipe	ASTM B 43
Chlorinated polyvinyl chloride (CPVC) plastic pipe	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B137.6
Copper or copper-alloy pipe	ASTM B 42; ASTM B 302
Copper or copper-alloy tubing (Type K, WK, L, WL, M or WM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
Cross-linked polyethylene (PEX) plastic tubing	ASTM F 876; ASTM F 877; CSA-B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	ASTM F 1281; CAN/CSA B137.10M
Ductile iron water pipe	AWWA C151; AWWA C115
Galvanized steel pipe	ASTM A 53
Polybutylene (PB) plastic pipe and tubing	ASTM D 2662; ASTM D 2666; ASTM D 3309; CAN3-B1
Polyethylene (PE) plastic pipe	ASTM D 2239; CSA-B137.1
Polyethylene (PE) plastic tubing	ASTM D 2737; CSA B137.1

Polyethylene/aluminum/polyethylene (PE-AL-PE) pipe	ASTM F 1282 CAN/CSA-B137.9
Polyvinyl chloride (PVC) plastic pipe	ASTM D 1785; ASTM D 2241; ASTM D 2672; CSA-B13
Stainless steel pipe (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel pipe (Type 316/316L)	ASTM A 312; ASTM A 778

605.4 Water distribution pipe.

Water distribution pipe shall conform to NSF 61 and shall conform to one of the standards listed in Table 605.4. All hot water distribution pipe and tubing shall have a minimum pressure rating of 100 psi (690 kPa) at 180° F (82° C).

**TABLE 605.4
WATER DISTRIBUTION PIPE**

MATERIAL	STANDARD
Brass pipe	ASTM B 43
Chlorinated polyvinyl chloride (CPVC) plastic pipe and tubing	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B137.6
Copper or copper-alloy pipe	ASTM B 42; ASTM B 302
Copper or copper-alloy tubing (Type K, WK, L, WL, M or WM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
Cross-linked polyethylene (PEX) plastic tubing	ASTM F 877; CSA-B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	ASTM F 1281; CAN/CSA-B137.10M
Galvanized steel pipe	ASTM A 53
Polybutylene (PB) plastic pipe and tubing	ASTM D 3309; CAN3-B137.8M
Polyethylene/Aluminum/Polyethylene (PE-AL-PE) composite pipe	ASTM F 1282
Stainless steel pipe (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel pipe (Type 316/316L)	ASTM A 312; ASTM A 778

605.5 Fittings.

Pipe fittings shall be approved for installation with the piping material installed and shall conform to the respective pipe standards or one of the standards listed in Table 605.5. All pipe fittings utilized in water supply systems shall also conform to NSF 61. The fittings shall not have ledges, shoulders or reductions capable of retarding or obstructing flow in the piping. Ductile and gray iron pipe fittings shall be cement mortar lined in accordance with AWWA C104.

605.5.1 Mechanically formed tee fittings.

Mechanically extracted outlets shall have a height not less than three times the thickness of the branch tube wall.

605.5.1.1 Full flow assurance.

Branch tubes shall not restrict the flow in the run tube. A dimple/depth stop shall be formed in the branch tube to ensure that penetration into the collar is of the correct depth. For inspection purposes, a second dimple shall be placed 0.25 inch (6.4 mm) above the first dimple. Dimples shall be aligned with the tube run.

605.5.1.2 Brazed joints.

Mechanically formed tee fittings shall be brazed in accordance with Section 605.14.1.

**TABLE 605.5
PIPE FITTINGS**

MATERIAL	ST
Acrylonitrile butadiene styrene (ABS) plastic	ASTM D 2468
Cast-iron	ASME B16.4; ASME B16.12
Chlorinated polyvinyl chloride (CPVC) plastic	ASTM F 437; ASTM F 438; ASTM
Copper or copper alloy	ASME B16.15; ASME B16.18; ASME

Fittings for cross-linked polyethylene (PEX) plastic tubing	ASME B16.29
Gray iron and ductile iron	ASTM F 1807, ASTM F 1960, AST
Malleable iron	AWWA C110; AWWA C153
Metal (brass) insert fittings for	ASME B16.3
Polyethylene/Aluminum/Polyethylene (PE-AL-PE) and Cross-linked	ASTM F 1974
Polyethylene/Aluminum/Polyethylene (PEX-AL-PEX)	
Polyethylene (PE) plastic	ASTM D 2609
Polyvinyl chloride (PVC) plastic	ASTM D 2464; ASTM D 2466; AST
Stainless steel (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel (Type 316/316L)	ASTM A 312; ASTM A 778
Steel	ASME B16.9; ASME B16.11; ASM

605.6 Flexible water connectors.

Flexible water connectors exposed to continuous pressure shall conform to ASME A112.18.6. Access shall be provided to all flexible water connectors.

605.7 Valves.

All valves shall be of the approved type and compatible with the type of piping material installed in the system.

605.8 Manufactured pipe nipples.

Manufactured pipe nipples shall conform to one of the standards listed in Table 605.8.

**TABLE 605.8
MANUFACTURED PIPE NIPPLES**

MATERIAL	STANDARD
Brass-, copper-, chromium-plated	ASTM B 687
Steel	ASTM A 733

605.9 Prohibited joints and connections.

The following types of joints and connections shall be prohibited:

1. Cement or concrete joints.
2. Joints made with fittings not approved for the specific installation.
3. Solvent-cement joints between different types of plastic pipe.
4. Saddle-type fittings.

605.10 ABS plastic.

Joints between ABS plastic pipe or fittings shall comply with Sections 605.10.1 through 605.10.3.

605.10.1 Mechanical joints.

Mechanical joints on water pipes shall be made with an elastomeric seal conforming to ASTM D 3139. Mechanical joints shall only be installed in underground systems, unless otherwise approved. Joints shall be installed only in accordance with the manufacturer's instructions.

605.10.2 Solvent cementing.

Joint surfaces shall be clean and free from moisture. Solvent cement that conforms to ASTM D 2235 shall be applied to all joint surfaces. The joint shall be made while the cement is wet. Joints shall be made in accordance with ASTM D 2235. Solvent-cement joints shall be permitted above or below ground.

605.10.3 Threaded joints.

Threads shall conform to ASME B1.20.1. Schedule 80 or heavier pipe shall be permitted to be threaded with dies specifically designed for plastic pipe. Approved thread lubricant or tape shall be applied on the male threads only.

605.11 Asbestos-cement.

Joints between asbestos-cement pipe or fittings shall be made with a sleeve coupling of the same composition as the pipe, sealed with an elastomeric ring conforming to ASTM D 1869.

605.12 Brass.

Joints between brass pipe or fittings shall comply with Sections 605.12.1 through 605.12.4.

605.12.1 Brazed joints.

All joint surfaces shall be cleaned. An approved flux shall be applied where required. The joint shall be brazed with a filler metal conforming to AWS A5.8.

605.12.2 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.12.3 Threaded joints.

Threads shall conform to ASME B1.20.1. Pipe-joint compound or tape shall be applied on the male threads only.

605.12.4 Welded joints.

All joint surfaces shall be cleaned. The joint shall be welded with an approved filler metal.

605.13 Gray iron and ductile iron joints.

Joints for gray and ductile iron pipe and fittings shall comply with AWWA C111 and shall be installed in accordance with the manufacturer's installation instructions.

605.14 Copper pipe.

Joints between copper or copper-alloy pipe or fittings shall comply with Sections 605.14.1 through 605.14.5.

605.14.1 Brazed joints.

All joint surfaces shall be cleaned. An approved flux shall be applied where required. The

joint shall be brazed with a filler metal conforming to AWS A5.8.

605.14.2 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.14.3 Soldered joints.

Solder joints shall be made in accordance with the methods of ASTM B 828. All cut tube ends shall be reamed to the full inside diameter of the tube end. All joint surfaces shall be cleaned. A flux conforming to ASTM B 813 shall be applied. The joint shall be soldered with a solder conforming to ASTM B 32. The joining of water supply piping shall be made with lead-free solder and fluxes. "Lead free" shall mean a chemical composition equal to or less than 0.2-percent lead.

605.14.4 Threaded joints.

Threads shall conform to ASME B1.20.1. Pipe-joint compound or tape shall be applied on the male threads only.

605.14.5 Welded joints.

All joint surfaces shall be cleaned. The joint shall be welded with an approved filler metal.

605.15 Copper tubing.

Joints between copper or copper-alloy tubing or fittings shall comply with Sections 605.15.1 through 605.15.4.

605.15.1 Brazed joints.

All joint surfaces shall be cleaned. An approved flux shall be applied where required. The joint shall be brazed with a filler metal conforming to AWS A5.8.

605.15.2 Flared joints.

Flared joints for water pipe shall be made by a tool designed for that operation.

605.15.3 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.15.4 Soldered joints.

Solder joints shall be made in accordance with the methods of ASTM B 828. All cut tube ends shall be reamed to the full inside diameter of the tube end. All joint surfaces shall be cleaned. A flux conforming to ASTM B 813 shall be applied. The joint shall be soldered with a solder conforming to ASTM B 32. The joining of water supply piping shall be made with lead-free solders and fluxes. "Lead free" shall mean a chemical composition equal to or less than 0.2-percent lead.

605.16 CPVC plastic.

Joints between CPVC plastic pipe or fittings shall comply with Sections 605.16.1 through 605.16.3.

605.16.1 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.16.2 Solvent cementing.

Joint surfaces shall be clean and free from moisture, and an approved primer shall be applied to all joint surfaces. Solvent cement, orange in color and conforming to ASTM F 493, shall be applied to all joint surfaces. The joint shall be made while the cement is wet, and in accordance with ASTM D 2846 or ASTM F 493. Solvent-cement joints shall be permitted above or below ground.

Exception: A primer is not required where all of the following conditions apply:

1. The solvent cement used is third-party certified as conforming to ASTM F 493.
2. The solvent cement used is yellow in color.
3. The solvent cement is used only for joining ½ inch (12.7 mm) through 2 inch (51 mm) diameter CPVC pipe and fittings.
4. The CPVC pipe and fittings are manufactured in accordance with ASTM D 2846.

605.16.2.1 Reserved.**605.16.2.2 Reserved.****605.16.3 Threaded joints.**

Threads shall conform to ASME B1.20.1. Schedule 80 or heavier pipe shall be permitted to be threaded with dies specifically designed for plastic pipe, but the pressure rating of the pipe shall be reduced by 50 percent. Thread by socket molded fittings shall be permitted. Approved thread lubricant or tape shall be applied on the male threads only.

605.17 Cross-linked polyethylene plastic.

Joints between cross-linked polyethylene plastic tubing or fittings shall comply with Sections 605.17.1 and 605.17.2.

605.17.1 Flared joints.

Flared pipe ends shall be made by a tool designed for that operation.

605.17.2 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions. Metallic lock rings and insert fittings as described in ASTM F 1807 shall be installed in accordance with the manufacturer's instructions.

605.18 Steel.

Joints between galvanized steel pipe or fittings shall comply with Sections 605.18.1 and 605.18.2.

605.18.1 Threaded joints.

Threads shall conform to ASME B1.20.1. Pipe-joint compound or tape shall be applied on the male threads only.

605.18.2 Mechanical joints.

Joints shall be made with an approved elastomeric seal. Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.19 Polybutylene plastic.

Joints between polybutylene plastic pipe and tubing or fittings shall comply with Sections 605.19.1 through 605.19.3.

605.19.1 Flared joints.

Flared pipe ends shall be made by a tool designed for that operation.

605.19.2 Heat-fusion joints.

Joints shall be of the socket-fusion or butt-fusion type. Joint surfaces shall be clean and free from moisture. All joint surfaces shall be heated to melt temperature and joined. The joint shall be undisturbed until cool. Joints shall be made in accordance with ASTM D 2657, ASTM D 3309 or CAN3-B137.8M.

605.19.3 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions. Metallic lock rings employed with insert fittings as described in ASTM D 3309 or CAN3-B137.8M shall be installed in accordance with the manufacturer's instructions.

605.20 Polyethylene plastic.

Joints between polyethylene plastic pipe and tubing or fittings shall comply with Sections 605.20.1 through 605.20.4.

605.20.1 Flared joints.

Flared joints shall be permitted where so indicated by the pipe manufacturer. Flared joints shall be made by a tool designed for that operation.

605.20.2 Heat-fusion joints.

Joint surfaces shall be clean and free from moisture. All joint surfaces shall be heated to melt temperature and joined. The joint shall be undisturbed until cool. Joints shall be made in accordance with ASTM D 2657.

605.20.3 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.20.4 Installation.

Polyethylene pipe shall be cut square, with a cutter designed for plastic pipe. Except where joined by heat fusion, pipe ends shall be chamfered to remove sharp edges. Kinked pipe shall not be installed. The minimum pipe bending radius shall not be less than 30 pipe diameters, or the minimum coil radius, whichever is greater. Piping shall not be bent beyond

straightening of the curvature of the coil. Bends shall not be permitted within 10 pipe diameters of any fitting or valve. Stiffener inserts installed with compression-type couplings and fittings shall not extend beyond the clamp or nut of the coupling or fitting.

605.21 PVC plastic.

Joints between PVC plastic pipe or fittings shall comply with Sections 605.21.1 through 605.21.3.

605.21.1 Mechanical joints.

Mechanical joints on water pipe shall be made with an elastomeric seal conforming to ASTM D 3139. Mechanical joints shall not be installed in above-ground systems unless otherwise approved. Joints shall be installed in accordance with the manufacturer's instructions.

605.21.2 Solvent cementing.

Joint surfaces shall be clean and free from moisture. A purple primer that conforms to ASTM F 656 shall be applied. Solvent cement not purple in color and conforming to ASTM D 2564 or CSA-B137.3 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM D 2855. Solvent-cement joints shall be permitted above or below ground.

605.21.3 Threaded joints.

Threads shall conform to ASME B1.20.1. Schedule 80 or heavier pipe shall be permitted to be threaded with dies specifically designed for plastic pipe, but the pressure rating of the pipe shall be reduced by 50 percent. Thread by socket molded fittings shall be permitted. Approved thread lubricant or tape shall be applied on the male threads only.

605.22 Stainless steel.

Joints between stainless steel pipe and fittings shall comply with Sections 605.22.1 and 605.22.2.

605.22.1 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.22.2 Welded joints.

All joint surfaces shall be cleaned. The joint shall be welded autogenously or with an approved filler metal as referenced in ASTM A 312.

605.23 Joints between different materials.

Joints between different piping materials shall be made with a mechanical joint of the compression or mechanical-sealing type, or as permitted in Sections 605.23.1, 605.23.2 and 605.23.3. Connectors or adapters shall have an elastomeric seal conforming to ASTM D 1869 or ASTM F 477. Joints shall be installed in accordance with the manufacturer's instructions.

605.23.1 Copper or copper-alloy tubing to galvanized steel pipe.

Joints between copper or copper-alloy tubing and galvanized steel pipe shall be made with a

brass fitting or dielectric fitting. The copper tubing shall be soldered to the fitting in an approved manner, and the fitting shall be screwed to the threaded pipe.

material

605.23.2 Plastic pipe or tubing to other piping material .

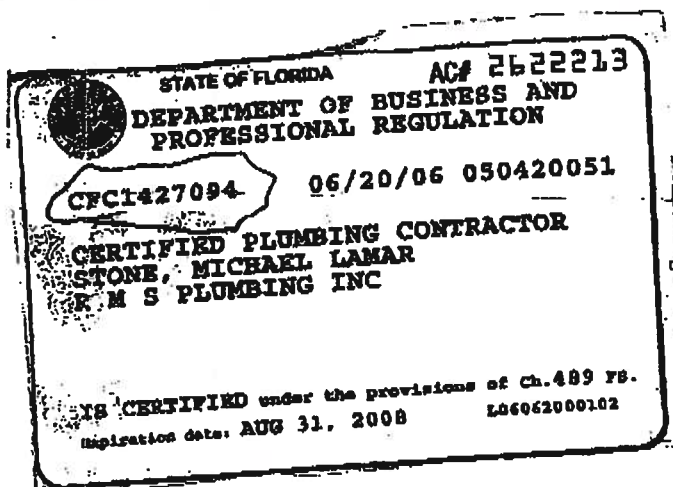
Joins between different grades of plastic pipe or between plastic pipe and other piping material shall be made with an approved adapter fitting.

605.23.3 Stainless steel.

Joins between stainless steel and different piping materials shall be made with a mechanical joint of the compression or mechanical sealing type or a dielectric fitting.

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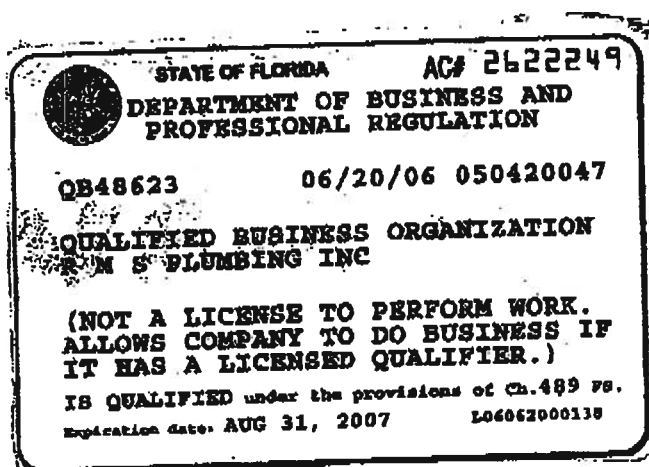
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RE: PEX Plumbing

SECTION 605 MATERIALS, JOINTS AND CONNECTIONS

605.1 Soil and ground water.

The installation of a water service or water distribution pipe shall be prohibited in soil and ground water contaminated with solvents, fuels, organic compounds or other detrimental materials causing permeation, corrosion, degradation or structural failure of the piping material. Where detrimental conditions are suspected, a chemical analysis of the soil and ground water conditions shall be required to ascertain the acceptability of the water service or water distribution piping material for the specific installation. Where detrimental conditions exist, approved alternative materials or routing shall be required.

605.2 Lead content of water supply pipe and fittings.

Pipe and pipe fittings, including valves and faucets, utilized in the water supply system shall have a maximum of 8-percent lead content.

605.3 Water service pipe.

Water service pipe shall conform to NSF 61 and shall conform to one of the standards listed in Table 605.3. All water service pipe or tubing, installed underground and outside of the structure, shall have a minimum working pressure rating of 160 psi (1100 kPa) at 73.4° F (23° C). Where the water pressure exceeds 160 psi (1100 kPa), piping material shall have a minimum rated working pressure equal to the highest available pressure. Plastic water service piping shall terminate within 5 feet (1524 mm) inside of the point where the pipe penetrates an exterior wall or slab on grade. All ductile iron water pipe shall be cement mortar lined in accordance with AWWA C104.

605.3.1 Dual check-valve-type backflow preventer.

Where a dual check-valve backflow preventer is installed on the water supply system, it shall comply with ASSE 1024.

**TABLE 605.3
WATER SERVICE PIPE**

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 1527; ASTM D 2282
Asbestos-cement pipe	ASTM C 296
Brass pipe	ASTM B 43
Chlorinated polyvinyl chloride (CPVC) plastic pipe	ASTM D 2848; ASTM F 441; ASTM F 442; CSA B137.6
Copper or copper-alloy pipe	ASTM B 42; ASTM B 302
Copper or copper-alloy tubing (Type K, WK, L, WL, M or VM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
Cross-linked polyethylene (PEX) plastic tubing	ASTM F 876; ASTM F 877; CSA-B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	ASTM F 1281; CAN/CSA B137.10M
Ductile iron water pipe	AWWA C151; AWWA C115
Galvanized steel pipe	ASTM A 53
Polybutylene (PB) plastic pipe and tubing	ASTM D 2662; ASTM D 2666; ASTM D 3309; CAN3-B1
Polyethylene (PE) plastic pipe	ASTM D 2239; CSA-B137.1
Polyethylene (PE) plastic tubing	ASTM D 2737; CSA B137.1

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Polyethylene/aluminum/polyethylene (PE-AL-PE) pipe	ASTM F 1282 CAN/CSA-B137.9
Polyvinyl chloride (PVC) plastic pipe	ASTM D 1785; ASTM D 2241; ASTM D 2872; CSA-B13
Stainless steel pipe (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel pipe (Type 316/316L)	ASTM A 312; ASTM A 778

605.4 Water distribution pipe.

Water distribution pipe shall conform to NSF 61 and shall conform to one of the standards listed in Table 605.4. All hot water distribution pipe and tubing shall have a minimum pressure rating of 100 psi (690 kPa) at 180° F (82° C).

**TABLE 605.4
WATER DISTRIBUTION PIPE**

MATERIAL	STANDARD
Brass pipe	ASTM B 43
Chlorinated polyvinyl chloride (CPVC) plastic pipe and tubing	ASTM D 2848; ASTM F 441; ASTM F 442; CSA B137.6
Copper or copper-alloy pipe	ASTM B 42; ASTM B 302
Copper or copper-alloy tubing (Type K, WK, L, VL, M or VM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
Cross-linked polyethylene (PEX) plastic tubing	ASTM F 877; CSA-B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	ASTM F 1281; CAN/CSA-B137.10M
Galvanized steel pipe	ASTM A 53
Polybutylene (PB) plastic pipe and tubing	ASTM D 3309; CAN3-B137.8M
Polyethylene/Aluminum/Polyethylene (PE-AL-PE) composite pipe	ASTM F 1282
Stainless steel pipe (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel pipe (Type 316/316L)	ASTM A 312; ASTM A 778

605.5 Fittings.

Pipe fittings shall be approved for installation with the piping material installed and shall conform to the respective pipe standards or one of the standards listed in Table 605.5. All pipe fittings utilized in water supply systems shall also conform to NSF 61. The fittings shall not have ledges, shoulders or reductions capable of retarding or obstructing flow in the piping. Ductile and gray iron pipe fittings shall be cement mortar lined in accordance with AWWA C104.

605.5.1 Mechanically formed tee fittings.

Mechanically extracted outlets shall have a height not less than three times the thickness of the branch tube wall.

605.5.1.1 Full flow assurance.

Branch tubes shall not restrict the flow in the run tube. A dimple/depth stop shall be formed in the branch tube to ensure that penetration into the collar is of the correct depth. For inspection purposes, a second dimple shall be placed 0.25 inch (6.4 mm) above the first dimple. Dimples shall be aligned with the tube run.

605.5.1.2 Brazed joints.

Mechanically formed tee fittings shall be brazed in accordance with Section 605.14.1.

**TABLE 605.5
PIPE FITTINGS**

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic	ASTM D 2468
Cast-iron	ASME B16.4; ASME B16.12
Chlorinated polyvinyl chloride (CPVC) plastic	ASTM F 437; ASTM F 438; ASTM
Copper or copper alloy	ASME B16.15; ASME B16.18; ASME

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Fittings for cross-linked polyethylene (PEX) plastic tubing	ASME B16.29
Gray iron and ductile iron	ASTM F 1807, ASTM F 1960, AST
Malleable iron	AWWA C110; AWWA C153
Metal (brass) insert fittings for	ASME B16.3
Polyethylene/Aluminum/Polyethylene (PE-AL-PE) and Cross-linked	ASTM F 1974
Polyethylene/Aluminum/Polyethylene (PEX-AL-PEX)	
Polyethylene (PE) plastic	ASTM D 2609
Polyvinyl chloride (PVC) plastic	ASTM D 2464; ASTM D 2466; AS
Stainless steel (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel (Type 316/316L)	ASTM A 312; ASTM A 778
Steel	ASME B16.9; ASME B16.11; ASM

605.6 Flexible water connectors.

Flexible water connectors exposed to continuous pressure shall conform to ASME A112.18.6. Access shall be provided to all flexible water connectors.

605.7 Valves.

All valves shall be of the approved type and compatible with the type of piping material installed in the system.

605.8 Manufactured pipe nipples.

Manufactured pipe nipples shall conform to one of the standards listed in Table 605.8.

**TABLE 605.8
MANUFACTURED PIPE NIPPLES**

MATERIAL	STANDARD
Brass-, copper-, chromium-plated	ASTM B 687
Steel	ASTM A 733

605.9 Prohibited joints and connections:

The following types of joints and connections shall be prohibited:

1. Cement or concrete joints.
2. Joints made with fittings not approved for the specific installation.
3. Solvent-cement joints between different types of plastic pipe.
4. Saddle-type fittings.

605.10 ABS plastic.

Joints between ABS plastic pipe or fittings shall comply with Sections 605.10.1 through 605.10.3.

605.10.1 Mechanical joints.

Mechanical joints on water pipes shall be made with an elastomeric seal conforming to ASTM D 3139. Mechanical joints shall only be installed in underground systems, unless otherwise approved. Joints shall be installed only in accordance with the manufacturer's instructions.

SECTION 605 MATERIALS, JOINTS AND CONNECTIONS**605.10.2 Solvent cementing.**

Joint surfaces shall be clean and free from moisture. Solvent cement that conforms to ASTM D 2235 shall be applied to all joint surfaces. The joint shall be made while the cement is wet. Joints shall be made in accordance with ASTM D 2235. Solvent-cement joints shall be permitted above or below ground.

605.10.3 Threaded joints.

Threads shall conform to ASME B1.20.1. Schedule 80 or heavier pipe shall be permitted to be threaded with dies specifically designed for plastic pipe. Approved thread lubricant or tape shall be applied on the male threads only.

605.11 Asbestos-cement.

Joints between asbestos-cement pipe or fittings shall be made with a sleeve coupling of the same composition as the pipe, sealed with an elastomeric ring conforming to ASTM D 1869.

605.12 Brass.

Joints between brass pipe or fittings shall comply with Sections 605.12.1 through 605.12.4.

605.12.1 Brazed joints.

All joint surfaces shall be cleaned. An approved flux shall be applied where required. The joint shall be brazed with a filler metal conforming to AWS A5.8.

605.12.2 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.12.3 Threaded joints.

Threads shall conform to ASME B1.20.1. Pipe-joint compound or tape shall be applied on the male threads only.

605.12.4 Welded joints.

All joint surfaces shall be cleaned. The joint shall be welded with an approved filler metal.

605.13 Gray iron and ductile iron joints.

Joints for gray and ductile iron pipe and fittings shall comply with AWWA C111 and shall be installed in accordance with the manufacturer's installation instructions.

605.14 Copper pipe.

Joints between copper or copper-alloy pipe or fittings shall comply with Sections 605.14.1 through 605.14.5.

605.14.1 Brazed joints.

All joint surfaces shall be cleaned. An approved flux shall be applied where required. The

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joint shall be brazed with a filler metal conforming to AWS A5.8.

605.14.2 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.14.3 Soldered joints.

Solder joints shall be made in accordance with the methods of ASTM B 828. All cut tube ends shall be reamed to the full inside diameter of the tube end. All joint surfaces shall be cleaned. A flux conforming to ASTM B 813 shall be applied. The joint shall be soldered with a solder conforming to ASTM B 32. The joining of water supply piping shall be made with lead-free solder and fluxes. "Lead free" shall mean a chemical composition equal to or less than 0.2-percent lead.

605.14.4 Threaded joints.

Threads shall conform to ASME B1.20.1. Pipe-joint compound or tape shall be applied on the male threads only.

605.14.5 Welded joints.

All joint surfaces shall be cleaned. The joint shall be welded with an approved filler metal.

605.15 Copper tubing.

Joints between copper or copper-alloy tubing or fittings shall comply with Sections 605.15.1 through 605.15.4.

605.15.1 Brazed joints.

All joint surfaces shall be cleaned. An approved flux shall be applied where required. The joint shall be brazed with a filler metal conforming to AWS A5.8.

605.15.2 Flared joints.

Flared joints for water pipe shall be made by a tool designed for that operation.

605.15.3 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.15.4 Soldered joints.

Solder joints shall be made in accordance with the methods of ASTM B 828. All cut tube ends shall be reamed to the full inside diameter of the tube end. All joint surfaces shall be cleaned. A flux conforming to ASTM B 813 shall be applied. The joint shall be soldered with a solder conforming to ASTM B 32. The joining of water supply piping shall be made with lead-free solders and fluxes. "Lead free" shall mean a chemical composition equal to or less than 0.2-percent lead.

605.16 CPVC plastic.

Joints between CPVC plastic pipe or fittings shall comply with Sections 605.16.1 through 605.16.3.

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605.16.1 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.16.2 Solvent cementing.

Joint surfaces shall be clean and free from moisture, and an approved primer shall be applied to all joint surfaces. Solvent cement, orange in color and conforming to ASTM F 493, shall be applied to all joint surfaces. The joint shall be made while the cement is wet, and in accordance with ASTM D 2846 or ASTM F 493. Solvent-cement joints shall be permitted above or below ground.

Exception: A primer is not required where all of the following conditions apply:

1. The solvent cement used is third-party certified as conforming to ASTM F 493.
2. The solvent cement used is yellow in color.
3. The solvent cement is used only for joining ½ inch (12.7 mm) through 2 inch (51 mm) diameter CPVC pipe and fittings.
4. The CPVC pipe and fittings are manufactured in accordance with ASTM D 2846.

605.16.2.1 Reserved.**605.16.2.2 Reserved.****605.16.3 Threaded joints.**

Threads shall conform to ASME B1.20.1. Schedule 80 or heavier pipe shall be permitted to be threaded with dies specifically designed for plastic pipe, but the pressure rating of the pipe shall be reduced by 50 percent. Thread by socket molded fittings shall be permitted. Approved thread lubricant or tape shall be applied on the male threads only.

605.17 Cross-linked polyethylene plastic.

Joints between cross-linked polyethylene plastic tubing or fittings shall comply with Sections 605.17.1 and 605.17.2.

605.17.1 Flared joints.

Flared pipe ends shall be made by a tool designed for that operation.

605.17.2 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions. Metallic lock rings and insert fittings as described in ASTM F 1807 shall be installed in accordance with the manufacturer's instructions.

605.18 Steel.

Joints between galvanized steel pipe or fittings shall comply with Sections 605.18.1 and 605.18.2.

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605.18.1 Threaded joints.

Threads shall conform to ASME B1.20.1. Pipe-joint compound or tape shall be applied on the male threads only.

605.18.2 Mechanical joints.

Joints shall be made with an approved elastomeric seal. Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.19 Polybutylene plastic.

Joints between polybutylene plastic pipe and tubing or fittings shall comply with Sections 605.19.1 through 605.19.3.

605.19.1 Flared joints.

Flared pipe ends shall be made by a tool designed for that operation.

605.19.2 Heat-fusion joints.

Joints shall be of the socket-fusion or butt-fusion type. Joint surfaces shall be clean and free from moisture. All joint surfaces shall be heated to melt temperature and joined. The joint shall be undisturbed until cool. Joints shall be made in accordance with ASTM D 2657, ASTM D 3309 or CAN3-B137.8M.

605.19.3 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions. Metallic lock rings employed with insert fittings as described in ASTM D 3309 or CAN3-B137.8M shall be installed in accordance with the manufacturer's instructions.

605.20 Polyethylene plastic.

Joints between polyethylene plastic pipe and tubing or fittings shall comply with Sections 605.20.1 through 605.20.4.

605.20.1 Flared joints.

Flared joints shall be permitted where so indicated by the pipe manufacturer. Flared joints shall be made by a tool designed for that operation.

605.20.2 Heat-fusion joints.

Joint surfaces shall be clean and free from moisture. All joint surfaces shall be heated to melt temperature and joined. The joint shall be undisturbed until cool. Joints shall be made in accordance with ASTM D 2657.

605.20.3 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.20.4 Installation.

Polyethylene pipe shall be cut square, with a cutter designed for plastic pipe. Except where joined by heat fusion, pipe ends shall be chamfered to remove sharp edges. Kinked pipe shall not be installed. The minimum pipe bending radius shall not be less than 30 pipe diameters, or the minimum coil radius, whichever is greater. Piping shall not be bent beyond

SECTION 605 MATERIALS, JOINTS AND CONNECTIONS

Page 8 of 9

straightening of the curvature of the coil. Bends shall not be permitted within 10 pipe diameters of any fitting or valve. Stiffener inserts installed with compression-type couplings and fittings shall not extend beyond the clamp or nut of the coupling or fitting.

605.21 PVC plastic.

Joints between PVC plastic pipe or fittings shall comply with Sections 605.21.1 through 605.21.3.

605.21.1 Mechanical joints.

Mechanical joints on water pipe shall be made with an elastomeric seal conforming to ASTM D 3139. Mechanical joints shall not be installed in above-ground systems unless otherwise approved. Joints shall be installed in accordance with the manufacturer's instructions.

605.21.2 Solvent cementing.

Joint surfaces shall be clean and free from moisture. A purple primer that conforms to ASTM F 656 shall be applied. Solvent cement not purple in color and conforming to ASTM D 2564 or CSA-B137.3 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM D 2855. Solvent-cement joints shall be permitted above or below ground.

605.21.3 Threaded joints.

Threads shall conform to ASME B1.20.1. Schedule 80 or heavier pipe shall be permitted to be threaded with dies specifically designed for plastic pipe, but the pressure rating of the pipe shall be reduced by 50 percent. Thread by socket molded fittings shall be permitted. Approved thread lubricant or tape shall be applied on the male threads only.

605.22 Stainless steel.

Joints between stainless steel pipe and fittings shall comply with Sections 605.22.1 and 605.22.2.

605.22.1 Mechanical joints.

Mechanical joints shall be installed in accordance with the manufacturer's instructions.

605.22.2 Welded joints.

All joint surfaces shall be cleaned. The joint shall be welded autogenously or with an approved filler metal as referenced in ASTM A 312.

605.23 Joints between different materials.

Joints between different piping materials shall be made with a mechanical joint of the compression or mechanical-sealing type, or as permitted in Sections 605.23.1, 605.23.2 and 605.23.3. Connectors or adapters shall have an elastomeric seal conforming to ASTM D 1869 or ASTM F 477. Joints shall be installed in accordance with the manufacturer's instructions.

605.23.1 Copper or copper-alloy tubing to galvanized steel pipe.

Joints between copper or copper-alloy tubing and galvanized steel pipe shall be made with a

SECTION 605 MATERIALS, JOINTS AND CONNECTIONS

Page 9 of 9

brass fitting or dielectric fitting. The copper tubing shall be soldered to the fitting in an approved manner, and the fitting shall be screwed to the threaded pipe.

material

605.23.2 Plastic pipe or tubing to other piping material .

Joints between different grades of plastic pipe or between plastic pipe and other piping material shall be made with an approved adapter fitting.

605.23.3 Stainless steel.

Joints between stainless steel and different piping materials shall be made with a mechanical joint of the compression or mechanical sealing type or a dielectric fitting.

W.B. Howland

P.O. Box 477

Jan 08, 2007

Page 1 of 1

2 Trusses

3347-/Lot 55 Callaway II /ChrisMill Homes -- LAKE CITY, FL / 3347

#	Description	DrawNo
<001>	34803--A3	-- 07008016
<002>	34804--A4	-- 07008017

24838

Lot 55 Callaway II

(3) PAGES

THIS DWS PREPARED FROM COM-MITTEE INPUT (LOANS & OTHERSTOWNS) SUBMITTED BY TRANS MFR

TOTAL P.08

24838

To: Mr. Harry Dicks

From: Dave Sterrett

Date: January 12, 2007

Subject: Insulating pipe in the attic



Dear Mr. Dicks,

I hope this letter will serve in assistance for the issue of insulating Pex pipe in the attic. I will look forward to hearing from you on a date for training at your building department.

Sincerely,

Dave Sterrett

Dave Sterrett

Cell# 904-599-5203

Office fax# 941-484-4435

E mail: dsterr@comcast.net



Feb. 25, 2003

Jerry Lapour
Central Regional Sales Manager
Vanguard Piping Systems, Inc.
3927 W. Monroe
Springfield, MO. 65802

RE: Insulation Requirements for Vanex® PEX Distribution Lines

Jerry:

Concerning your request for clarification of the insulation requirements for Vanex PEX distribution lines.

Vanex PEX Distribution lines running through areas of the home that will be exposed to freezing temperatures should be insulated in accordance with area practice and/or plumbing code guidelines. However, it is acceptable practice to cover PEX tubing with the equivalent insulation R-value using fiberglass batting or loose blown insulation. It is not necessary to wrap PEX tubing with open or closed cell type foam insulation (like or similar to Armaflex®) and cover it with additional batting or blown type insulation (like or similar to Cocoon2® loose-fill insulation). The R-value for a typical 1/2" thick open or closed cell type foam insulation wrap is equal to a 1.8 R-value, this be equivalent to no more than 1-1/2" thickness of a blown in type or batting type insulation as a replacement in lieu of the wrap.

If the tubing must penetrate this layer of blown in or rolled batting insulation, and is exposed to the unheated area, then use of foam wrap with the appropriate R-value could be used to protect the exposed tubing.

I have included a submittal sheet from armacell the manufactures of Armaflex, and greenfiber™ Cocoon2® loose-fill insulation for your reference.

I hope this information is helpful, if you have additional questions feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'J.P. Fay'.

J.P. Fay
Technical Administrator

atticinsulationpagel.txt

JB ENGINEERING AND CODE CONSULTING, EC. 1661 Cardinal Drive · Munster, IN 46321
 Phone: 219-922-6171 · Fax: 219-922-6172 E-Mail: JBEngineer@aol.com

JULIUS A. BALLANCO, P.E.
 President

March 12, 2001

Ms. Judy Rump Vanguard Plastics, Inc.
 118 Oregon Ave.
 St. Cloud, FL 34769

Dear Judy:

You inquired about the location of cross-linked polyethylene (PEX) tubing being located in an attic in Ocala County, Florida. Your concern was the potential freezing of the water piping when exposed in the attic.

As you know, the plumbing code requires any water piping subject to freezing to be protected. The key question is whether PEX installed in an attic in Ocala County will experience freezing temperatures. A common method used by the plumbing engineering community to determine whether piping can be exposed in an attic is by a check of the 97-112% Winter Design Temperature for the area. These values are published in Appendix D of the 2000 ICC International Plumbing Code.

You will find, for the Ocala County area, the 97-112% Winter Design Temperature is 38° F, well above freezing. Hence, PEX tubing can be exposed in an attic without concern for freezing of the pipe.

While this method of determining the acceptability of exposing pipe in an attic is an engineering rule of thumb, it is quite conservative. ASHRAE publishes the complete weather data in their Fundamentals Handbook (last published in 1997). There is also an equation that can be used for determining the attic temperature. The equation is, as follows:

$$AcU_{tc} + t_o (60\rho c pAc_{vc} + ArU_r + AwU_w + AgU_g)$$

$$t = \text{-----}$$

$$a Ac(U_c + 60\rho c pAc_{vc}) + ArU_r + AwU_w + AgU_g$$

Where:

t_a = attic temperature OF $\rho c p$ = air density times specific heat = 0.018 Btu/ft³ t_c =
 air temperature near ceiling OF t_o = outdoor temperature OF Ac = ceiling area sq ft
 Ar = roof area sq ft

atticinsulationpage2.txt

March 12, 2001 Ms. Judy Rump Page Two

Aw = area of net vertical attic wall surface sq ft Ag = area of attic glass sq ft Uc
= heat transfer coefficient of ceiling Btu/hr·sq ft Ur = heat transfer coefficient
of roof Btu/hr·sq ft Uw = heat transfer coefficient of vertical wall Btu/hr·sq ft U
g = heat transfer coefficient of glass Btu/hr·sq ft V c = rate of introduction of
outside air cfm/sq ft

U sing this equation, the attic temperature will calculate to between 10° and 15 ° F
higher in temperature than the outside temperature. You can plug in the lowest
anticipated temperature for the area. For Ocoola County, the lowest temperature,
published by ASHRAE, is 29° F. Hence, you will find that the attic temperature on
the coldest day of the year will be between 39° and 44° F in temperature. Thus,
there is no concern regarding the potential freezing of PEX tubing.

In my professional engineering opinion, PEX tubing can be exposed in the attic in
residential structures in Ocoola County, Florida without any concern for freezing.
Additionally, the exposure of PEX tubing in the attic would conform to the plumbing
code requirements for freeze protection.

If you have any additional questions regarding this matter, please don't hesitate to
call.

/fulius Ballanco, P.E.
/ President

JB/jb

1661 Cardinal Drive · Munster, IN 46321 0 Phone: 219-922-6171 · Fax: 219-922-6172



BAILEY BISHOP & LANE, INC.

Engineers

Surveyors

Planners

November 16, 2006

Chris Mill Homes
Lake City, Florida 32025

RE: Flood Statement Letter

Dear Sir:

We have performed a vertical survey from a Bench Mark described as a nail & disc (PCP LB6685), Elevation of 86.01', NGVD 1929 datum, in the centerline of SW Callaway Drive, located in front of the parcel of land in question. Said lands being Lots 54 & 55, Callaway, Phase two, Columbia County, Florida, and we herewith submit the following:

- That we determined that the elevation of the stem wall of Lot 54 to be 89.18', NGVD 1929 datum. Also, we determined that the elevation of the stem wall of Lot 55 to be 89.14', NGVD 1929.

Should you have any questions, please do not hesitate to give me a call.

Sincerely,

Brian Scott Daniel, PSM
Director of Surveying
BAILEY, BISHOP & LANE, INC.



FEB - 4 REC'D

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

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

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

All testing was performed by Florida State certified independent labs.

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

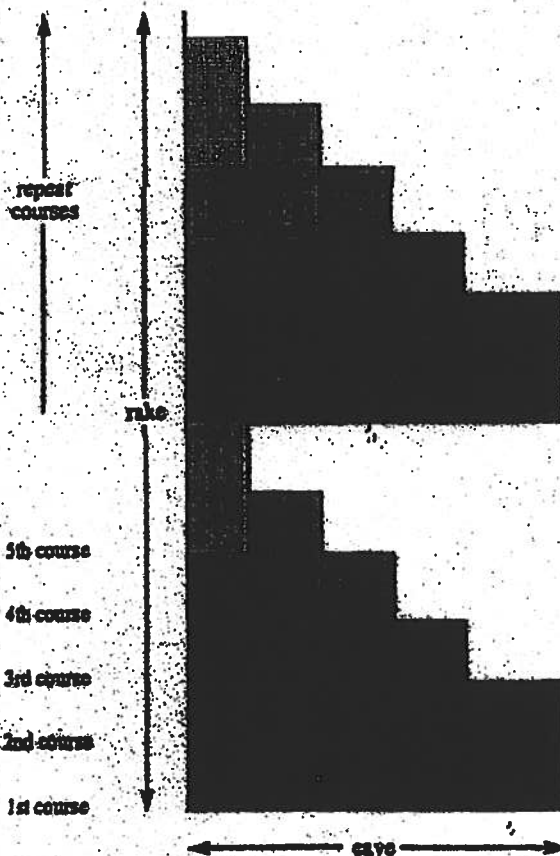
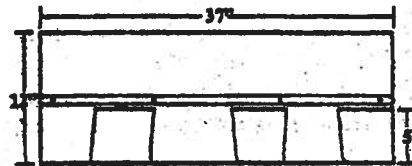
TAMKO Roofing Products, Inc.

CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-641-1925

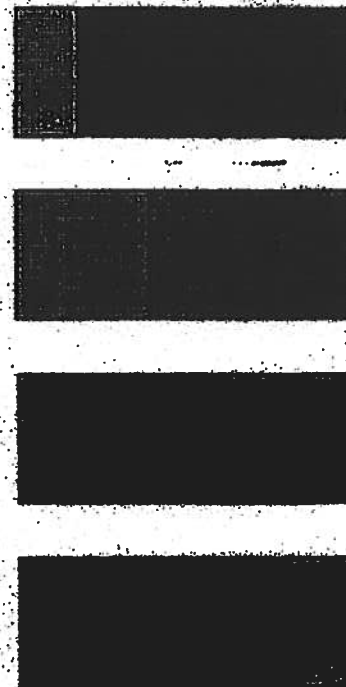


Application Instructions For Heritage® 25 Series Shingles

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



The 4 cuts in the first 10 courses:



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

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

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

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



Application Instructions for

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

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS. THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER. IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

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

1. ROOF DECK

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

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

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

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

2. VENTILATION

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

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

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

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

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENING

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

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

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

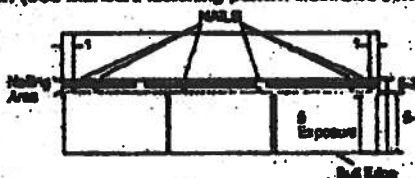
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or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

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

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



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



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

(Continued)

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www.tamko.com

Central District	220 West 4th St., Joplin, MO 64801	800-641-4691
Northeast District	4500 Tamko Dr., Frederick, MD 21701	800-368-2066
Southeast District	2300 36th St., Tuscaloosa, AL 35401	800-228-2666
Southwest District	7910 S. Central Exp., Dallas, TX 75218	800-443-1834
Western District	8300 East 43rd Ave., Denver, CO 80218	800-530-8888

07/91

TAMKO

ROOFING PRODUCTS

(CONTINUED FROM Pg. 2)

• Glass-Seal
• Glass-Seal AR

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

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a 3.25 piece and applied to shingles with a 6 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

5. RE-ROOFING

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

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

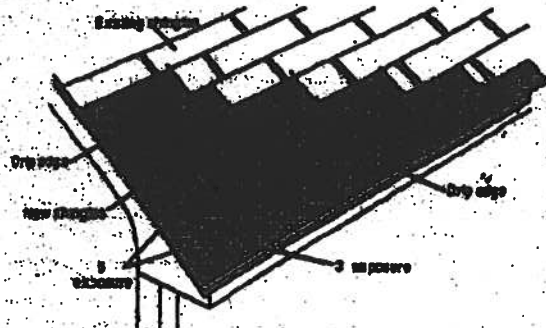
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water under the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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

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

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

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

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



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

5. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 60 lb. re-roofing in the valley. Nail the fast only where necessary to hold it in place and then only nail the outside edges.

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

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

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

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

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

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

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

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

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

Excessive use of adhesive will cause blistering in this product.

TAMKO assumes no responsibility for blistering.



(Continued)

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800-443-1834
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07/01



(CONTINUED from Pg. 3)

• Glass-Seal
• Glass-Seal AR

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

THREE-TAB ASPHALT SHINGLES

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

18. HIP AND RIDGE FASTENERS DETAIL

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

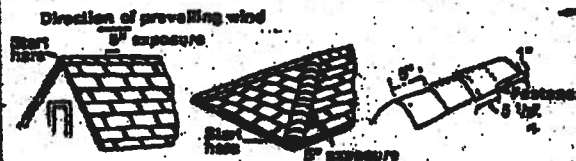
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

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

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

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

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



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

TAMKO
ROOFING PRODUCTS, INC.
NATIONAL HEADQUARTERS

LOCAL DISTRIBUTORS ARE AVAILABLE IN ALL MAJOR MARKETS. FOR A LIST OF DISTRIBUTORS, CONTACT YOUR LOCAL TAMKO REPRESENTATIVE OR TAMKO ROOFING PRODUCTS, INC., P.O. BOX 1000, JOPLIN, MO 64801. TAMKO ROOFING PRODUCTS, INC. IS AN EQUAL OPPORTUNITY EMPLOYER. MINOR VARIATIONS IN COLOR AND FINISH MAY OCCUR DUE TO MANUFACTURING TOLERANCES. TAMKO ROOFING PRODUCTS, INC. IS NOT RESPONSIBLE FOR DAMAGE TO OR LOSS OF MATERIALS DURING TRANSPORTATION OR STORAGE. TAMKO ROOFING PRODUCTS, INC. IS NOT RESPONSIBLE FOR DAMAGE TO OR LOSS OF MATERIALS DURING INSTALLATION. TAMKO ROOFING PRODUCTS, INC. IS NOT RESPONSIBLE FOR DAMAGE TO OR LOSS OF MATERIALS DURING REMOVAL. TAMKO ROOFING PRODUCTS, INC. IS NOT RESPONSIBLE FOR DAMAGE TO OR LOSS OF MATERIALS DURING REUSE.

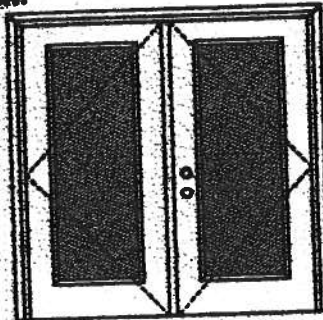
IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

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

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XX**Glazed Outswing Unit**

COP-WL-JHA762-02

WOOD-EDGE STEEL DOORS**APPROVED ARRANGEMENT:**

Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'6" x 6'6".

Double Door
Maximum unit size = 6'6" x 6'6"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed -- see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed -- see MID-WL-MA0002-02.

APPROVED DOOR STYLES:**1/4 GLASS:**

100 Series



125, 126 Series



130 Series



680 Series



822 Series

1/2 GLASS:

105 Series*



106, 160 Series*



120 Series*



200 Series*



12 RA, 23 RA, 84 RA Series*



107 Series*



108 Series



304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson
EntrySystems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



Exclusively from
Masonite
Masonite International Corporation

XX

Glazed Outswing Unit

COP-VL-JH4162-02

WOOD-EDGE STEEL DOORS**APPROVED DOOR STYLES:****3/4 GLASS:**

404 Series



410 Series



460 Series

FULL GLASS:

100 Series



114, 120, 122 Series



132 Series



140 Series



300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top and rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

State of Florida, Professional Engineer
Kurt Balthazor, P.E. - License Number 56533

Johnson
EntrySystems

March 29, 2002
Our continuing program of product improvement makes specifications, designs and product details subject to change without notice.

PREMIOR Collection
Premium Quality Doors

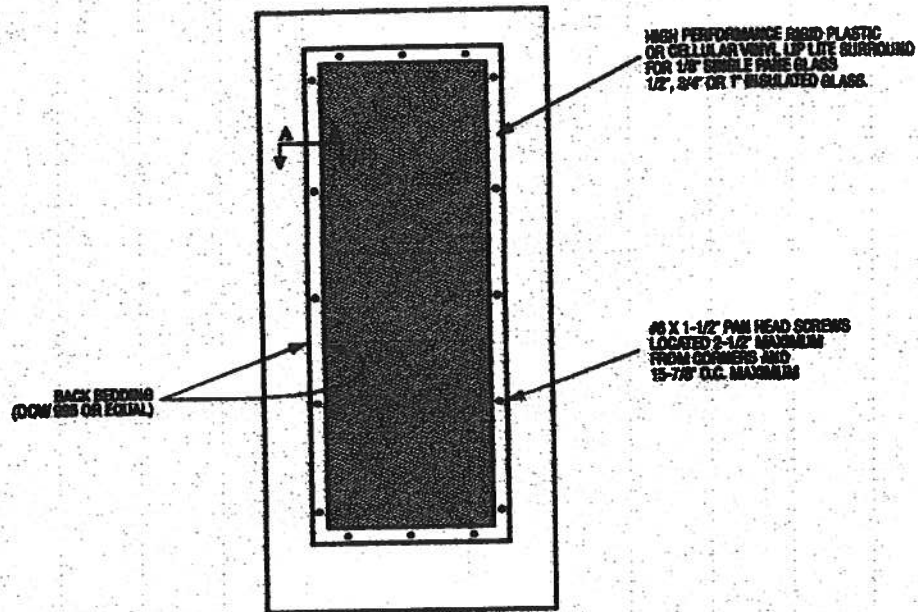


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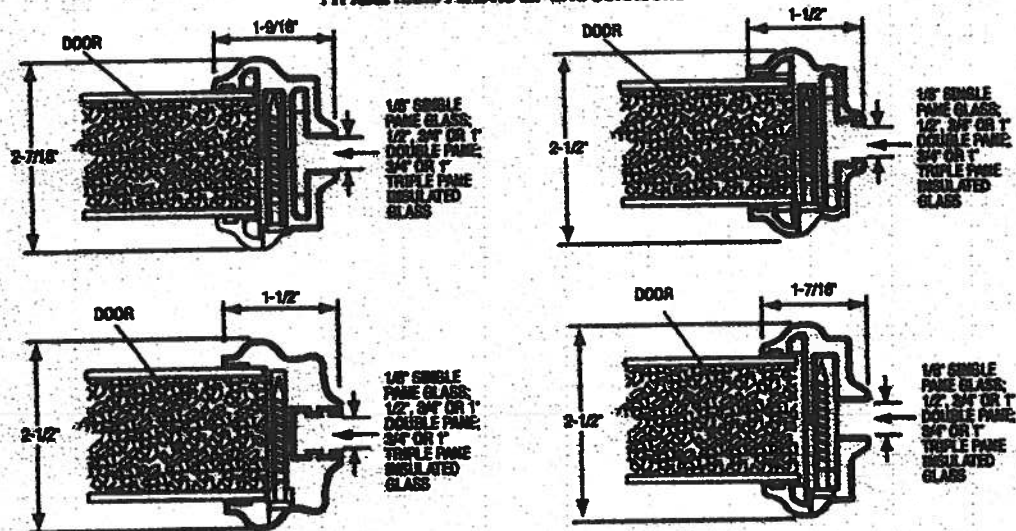
Masonite
Masonite International Corporation

MAC-WL-MA9941-02

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



March 29, 2002
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PREMDOR Collection
Premium Quality Doors

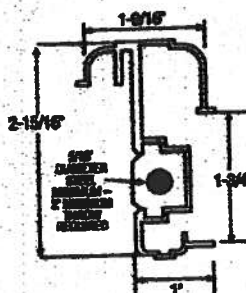
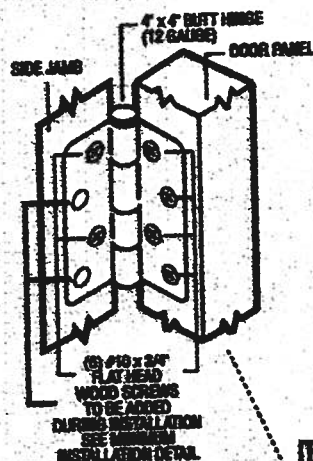
Exclusively from
Masonite
Masonite International Corporation

XX
Unit

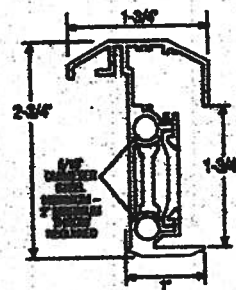
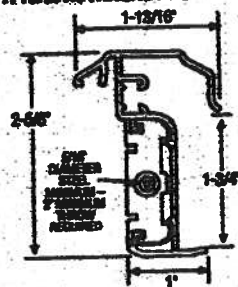
MAD-VL MAD012-02

OUTSWING UNITS WITH DOUBLE DOOR

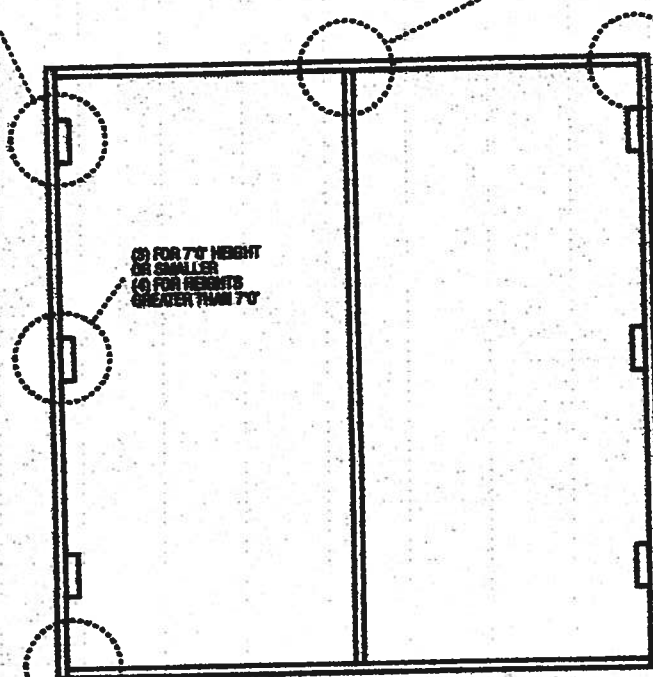
TYPICAL HINGE ATTACHMENT



TYPICAL ASTRAGAL PROFILES



ALUMINUM EXTRUDED ASTRAGAL (0.06\"/>



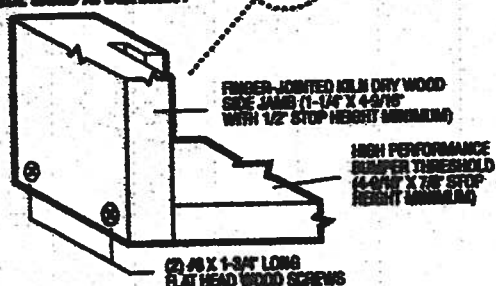
TYPICAL HEADER & SIDE JAMB ATTACHMENT

FINGER-JOINTED KILN DRY WOOD
FRAME HEADER (1-1/4\"/>

(2) 2\"/>

FINGER-JOINTED
KILN DRY WOOD
SIDE JAMB
(1-1/4\"/>

TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



March 28, 2002
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design and product detail subject to change without notice.

PREMIER
Premium Quality Doors



Exclusively from

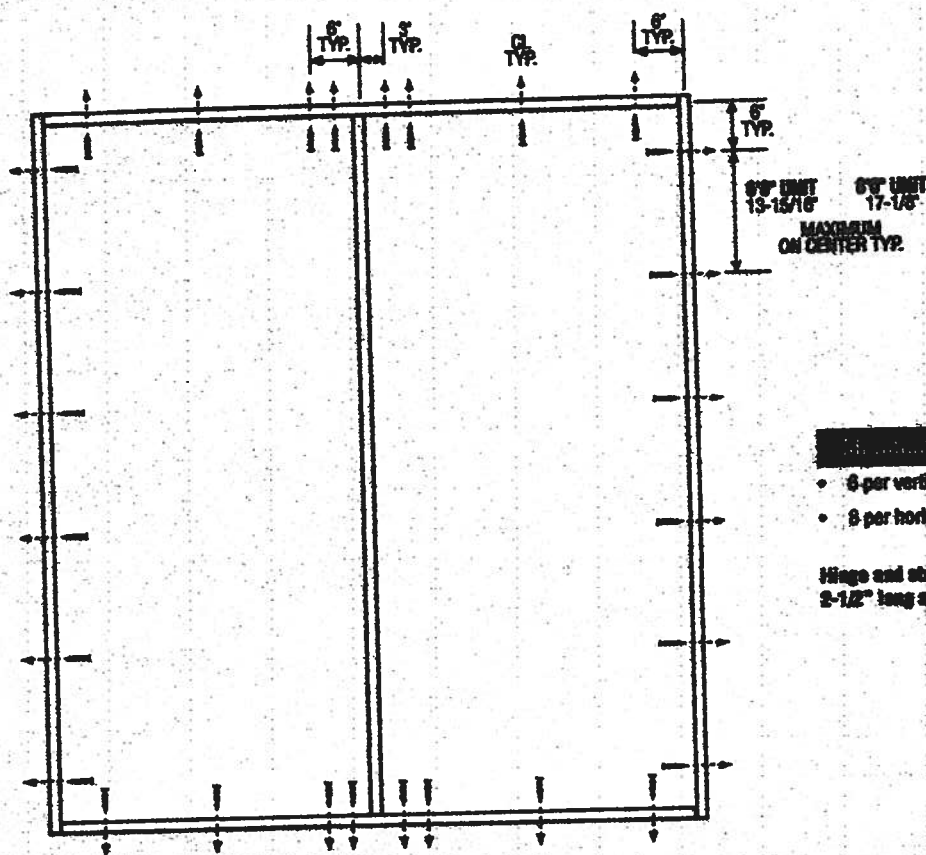
Masonite

Masonite International Corporation

XX
Unit

WD-11-11A0002-02

DOUBLE DOOR



Minimum Fastener Rating

- 6 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #6 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade County approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 29, 2002

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Exclusively from

Masonite
Masonite International Corporation

I

**AAMA/NWDA 101/LS-2-97
TEST REPORT SUMMARY**

Rendered to:

MI HOME PRODUCTS, INC.

**SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hung Window**

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.


Mark A. Hess, Technician

MAH:nlb


1 APRIL 2002



II

Architectural Testing

AAMA/NWDA 101/LS-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

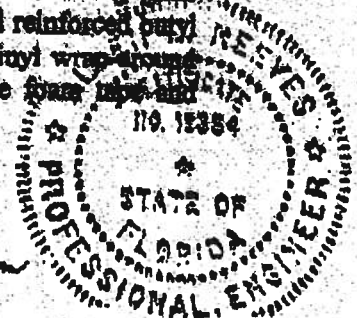
Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 3/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive glass tape and secured with PVC snap-in glazing beads.

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

Allen N. Raman
1 APRIL 2002



Test Specimen Description: (Continued)

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Metal cam lock with keeper		Midspace, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

Allen H. Reeves
1 APRIL 2002



IV

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft ²	0.3 cfm/ft ² max

Note #1: The tested specimen meets the performance levels specified in AAMA/NWDA 101/L.S. 2-97 for air infiltration.

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds) @ 25.9 psf (positive) @ 34.7 psf (negative)	0.42" 0.43"	0.26" max. 0.26" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds) @ 38.9 psf (positive) @ 52.1 psf (negative)	0.02" 0.02"	0.18" max. 0.18" max.
---------	---	----------------	--------------------------

Allen H. Reeves
1 APRIL 2002



V

Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A		
	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

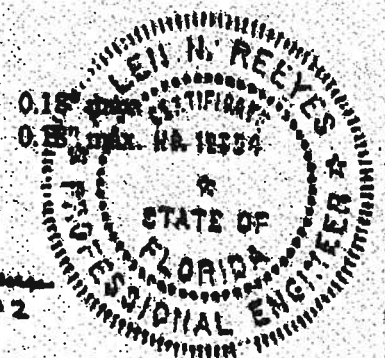
Optional Performance

4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"	0.26" max.
	@ 47.2 psf (negative)	0.46"	0.26" max.

*Exceeds L/175 for deflection, but passes all other test requirements.

Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)	
@ 67.5 psf (positive)	0.05"
@ 70.8 psf (negative)	0.05"

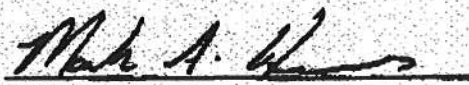
Allen H. Reeves
1 APRIL 2002



VI

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

For ARCHITECTURAL TESTING, INC.:



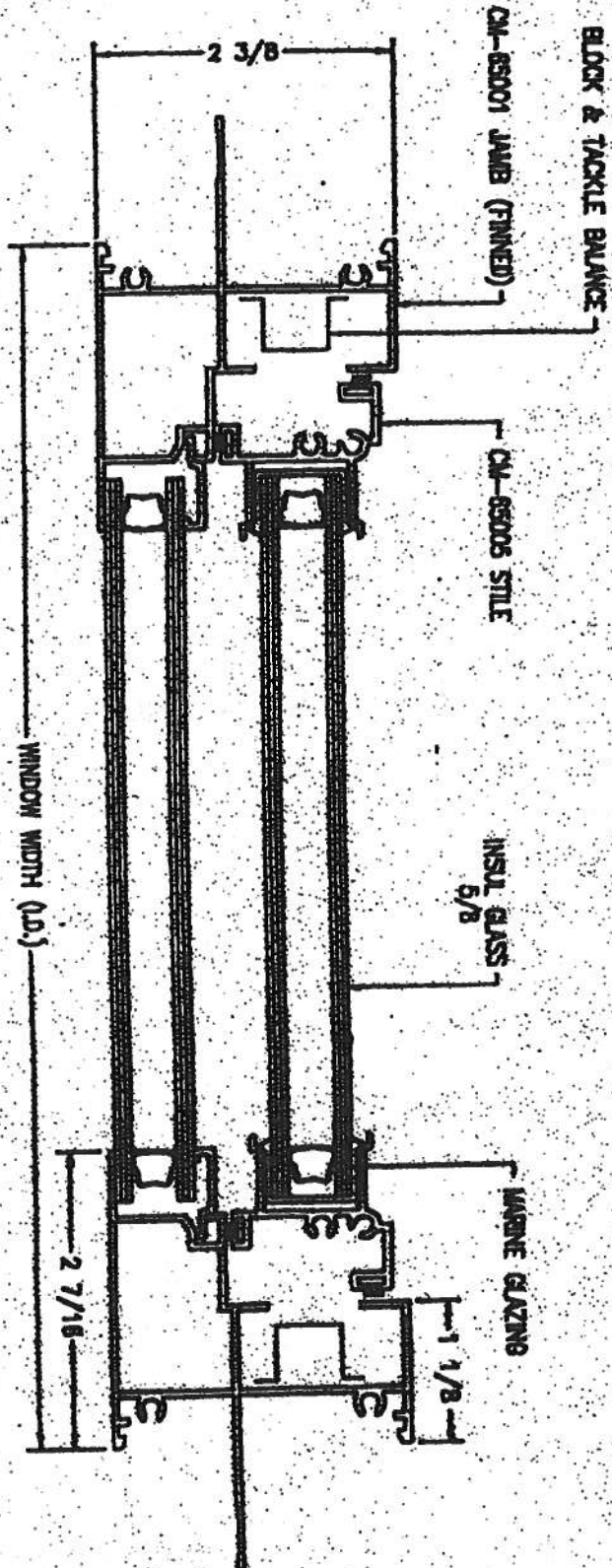
Mark A. Hens
Technician

MAH:nlb
01-41134.01



Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002

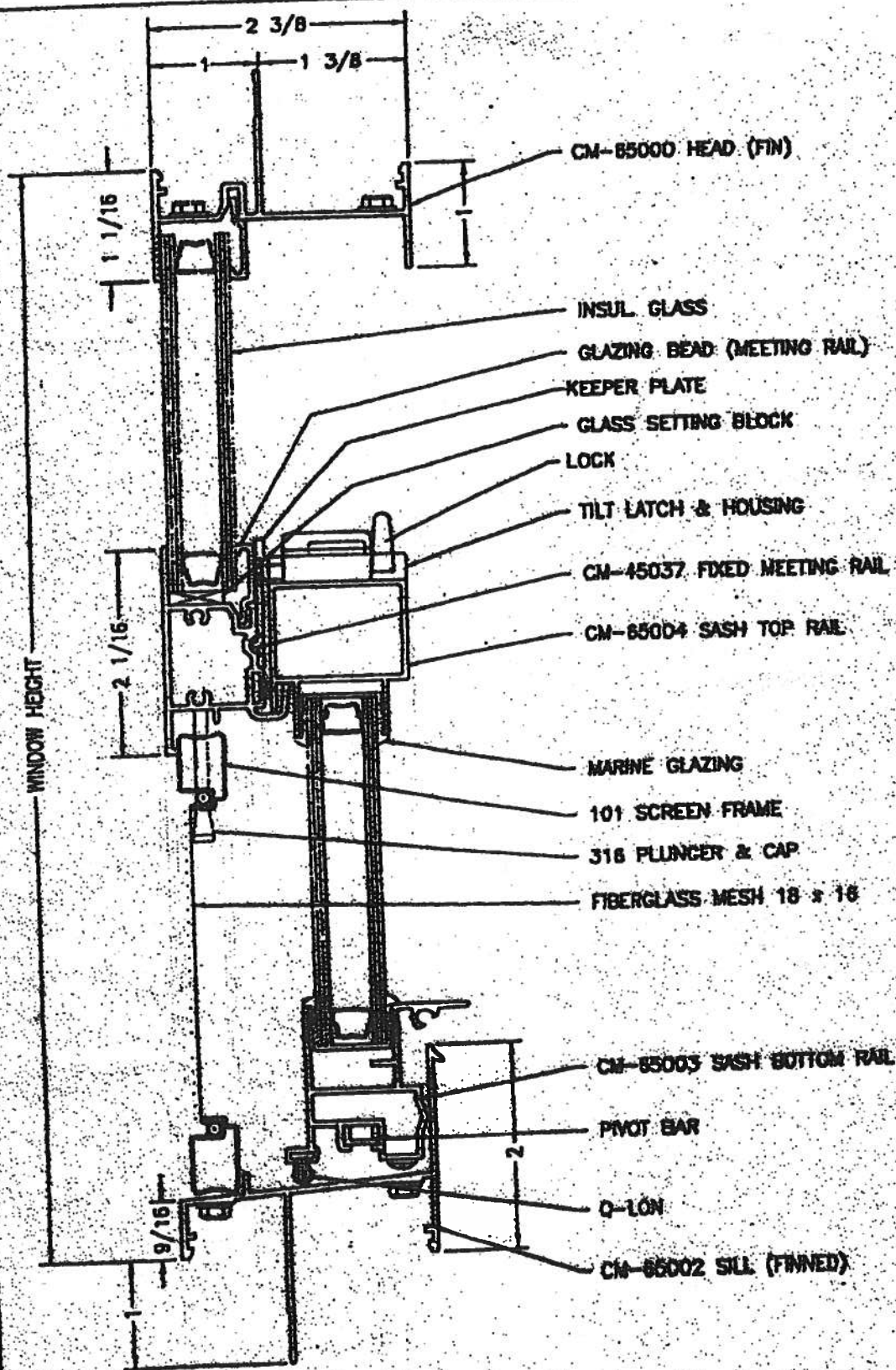




MI HOME PRODUCTS			
650 SH FINN JAMB INSULATED			
GLASS HORIZONTAL CROSS SECTION			
650-AS2			
DATE	REV	BY	APP
4-7-82	1	MI	MI
FULL			
B			

650-AS2 B

650-AS1 A



MI HOME PRODUCTS			
650 WEST BUCKLEY STREET • GROSZ, PA • 17030-0370			
TITLE		650 SH FIN MAIN FRAME VERTICAL CROSS SECTION	
DATE	BY	CHKD	DATE
4-7-82	V.M.R.	FULL	650-AS1 A



FLORIDA BUILDING CODE

Overview User Registration Organization Search Organization Accreditation

Select the organization type, status, or name to find an organization

Organization Type: Product Manufacturer

Approval Status: (ALL)



Organization Name: General American Door - Product Manufacturers

Cancel

Search

Result List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6318390000	Product Manufacturer	01/01/2099	Approved
Org Code: FDM	System ID: 3385		Also Links: www.floridabuilding.org			

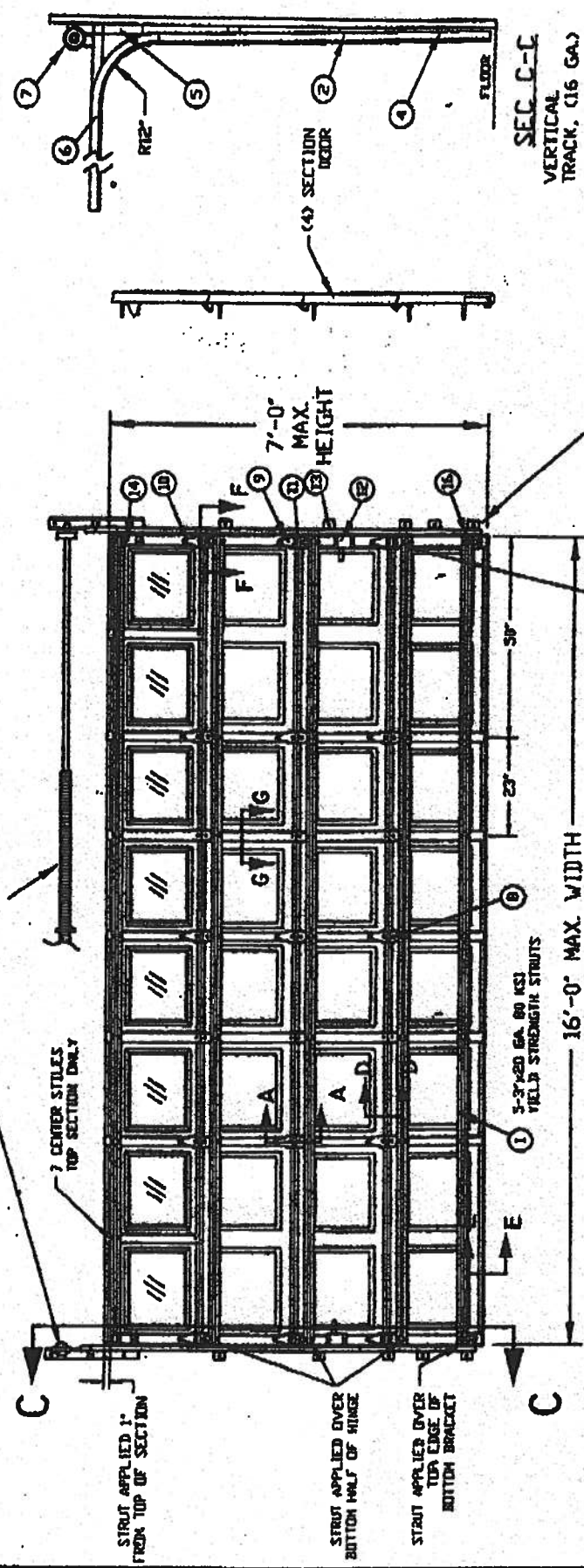
Displaying 1-1 of 1

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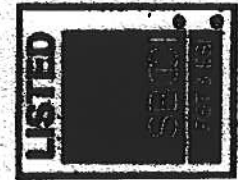
NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES FOR ASH 1-119
 2. MAXIMUM SECTION HEIGHT: 21'
 3. SECTION HEIGHTS OF 21'0" AND 19'0" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
 4. VARIOUS MAY BE INSTALLED IN THE TOP SECTION, AS TESTED WITH UP OR DOWN GLASS OR EQUIVALENT, IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
3. MAXIMUM LENGTH OF ROLLER STICK IS 3/4" OF AS TESTED
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOW.
7. STRUTS SECURED AT ALL LOCATIONS WITH TIE SCREW.
8. QUANTITY OF SIDE LUGS MAY BE 0, 1, OR 2 AS TESTED.
9. DROP IN TYPE OF INSULATION IS OPTIONAL.

NOT PART OF VARIOUS LOAD SYSTEM
EXTENSION SPRING COUNTERBALANCE
TORSION SPRING COUNTERBALANCE



INSIDE ELEVATION



The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s), dimensions and installation of the door as tested.

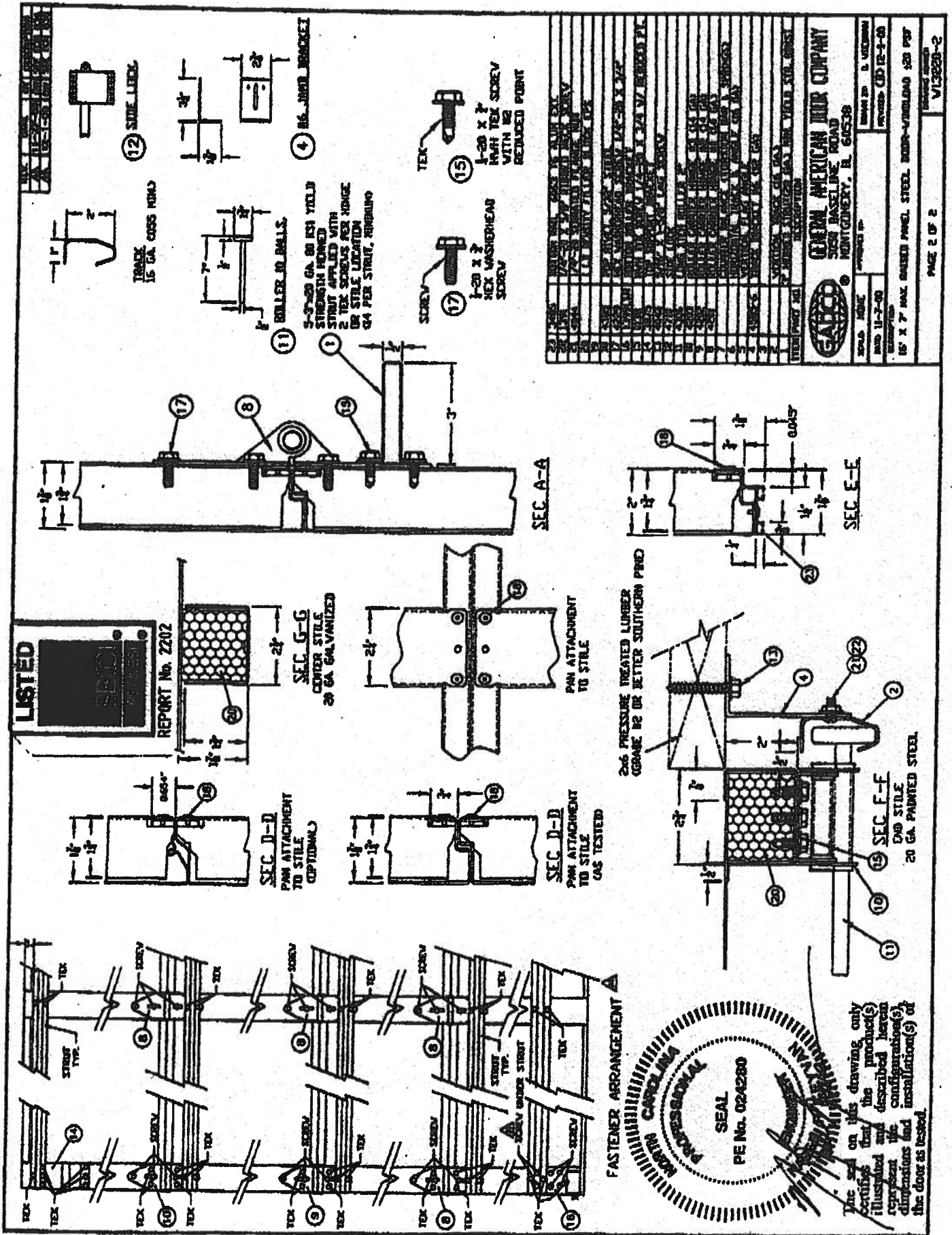
TEST REPORTS ON FILE [VIDEO 10/19/98 0002533]

DESIGN LOAD +200 PSF & -200 PSF
TEST LOAD +300 PSF & -300 PSF



GENERAL AMERICAN INTER COMPANY
5000 BASELINE ROAD
MONTGOMERY, IL 60538

GADCO DOORS			
SERIES 7400, EXTERIOR STEEL = .087 MIN GAS TESTED			
SERIES 7825, EXTERIOR STEEL = .087 MIN A			
SERIES 7924, EXTERIOR STEEL = .084 MIN A			
(TESTED WITH VARIOUS			
MAXIMUM DOOR WIDTH	16'	TYPICAL LTR. STILE SPACING	23"
MAXIMUM DOOR HEIGHT	7'	STRUTS TO LTR. STILE	3" 5
		VERTICAL TRACK	2 IN.



Residential System Sizing Calculation

Summary

Spec House

Project Title:
Lot 55, Callaway Phase II

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

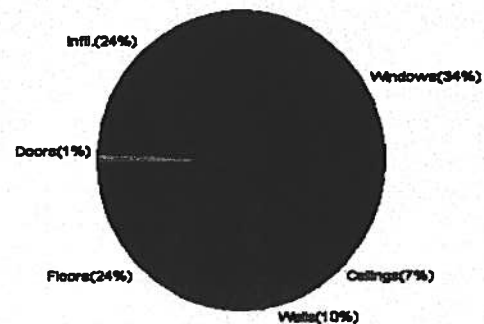
1/30/2006

Location for weather data: Gainesville - User customized: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (79F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	99 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	24 F
Total heating load calculation	39714 Btuh	Total cooling load calculation	53563 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	118.3 47000	Sensible (SHR = 0.75)	79.1 35250
Heat Pump + Auxiliary(0.0kW)	118.3 47000	Latent	130.5 11750
		Total (Electric Heat Pump)	87.7 47000

WINTER CALCULATIONS

Winter Heating Load (for 2170 sqft)

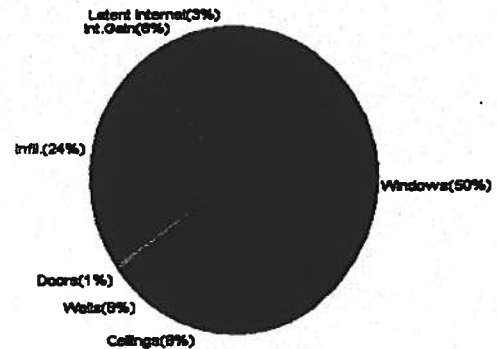
Load component		Load
Window total	423 sqft	13620 Btuh
Wall total	1265 sqft	4154 Btuh
Door total	40 sqft	518 Btuh
Ceiling total	2220 sqft	2616 Btuh
Floor total	216 sqft	9431 Btuh
Infiltration	231 cfm	9376 Btuh
Duct loss		0 Btuh
Subtotal		39714 Btuh
Ventilation	0 cfm	0 Btuh
TOTAL HEAT LOSS		39714 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2170 sqft)

Load component		Load
Window total	423 sqft	27019 Btuh
Wall total	1265 sqft	3320 Btuh
Door total	40 sqft	490 Btuh
Ceiling total	2220 sqft	4171 Btuh
Floor total		0 Btuh
Infiltration	203 cfm	5321 Btuh
Internal gain		4240 Btuh
Duct gain		0 Btuh
Sens. Ventilation	0 cfm	0 Btuh
Total sensible gain		44562 Btuh
Latent gain(ducts)		0 Btuh
Latent gain(infiltration)		7402 Btuh
Latent gain(ventilation)		0 Btuh
Latent gain(internal/occupants/other)		1600 Btuh
Total latent gain		9002 Btuh
TOTAL HEAT GAIN		53563 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: Will Myers

DATE: 1/30/06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Project Title:
Lot 55, Callaway Phase II

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (User customized) Winter Temperature Difference: 37.0 F

1/30/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	W	30.0		32.2	966 Btuh
2	2, Clear, Metal, 0.87	W	4.0		32.2	129 Btuh
3	2, Clear, Metal, 0.87	N	17.8		32.2	573 Btuh
4	2, Clear, Metal, 0.87	W	28.0		32.2	901 Btuh
5	2, Clear, Metal, 0.87	W	40.0		32.2	1288 Btuh
6	2, Clear, Metal, 0.87	SW	14.0		32.2	451 Btuh
7	2, Clear, Metal, 0.87	W	42.0		32.2	1352 Btuh
8	2, Clear, Metal, 0.87	NW	14.0		32.2	451 Btuh
9	2, Clear, Metal, 0.87	W	6.0		32.2	193 Btuh
10	2, Clear, Metal, 0.87	W	16.0		32.2	515 Btuh
11	2, Clear, Metal, 0.87	N	16.0		32.2	515 Btuh
12	2, Clear, Metal, 0.87	N	20.0		32.2	644 Btuh
13	2, Clear, Metal, 0.87	E	20.0		32.2	644 Btuh
14	2, Clear, Metal, 0.87	E	63.0		32.2	2028 Btuh
15	2, Clear, Metal, 0.87	E	13.3		32.2	428 Btuh
16	2, Clear, Metal, 0.87	S	75.0		32.2	2414 Btuh
17	2, Clear, Metal, 0.87	S	4.0		32.2	129 Btuh
Window Total			423(sqft)			13620 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1085		3.3	3563 Btuh
2	Frame - Wood - Adj(0.09)	13.0	180		3.3	591 Btuh
Wall Total			1265			4154 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
Door Total			40			518 Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2220		1.2	2616 Btuh
Ceiling Total			2220			2616 Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	216.0 ft(p)		43.7	9431 Btuh
Floor Total			216			9431 Btuh
Zone Envelope Subtotal:						30338 Btuh
Infiltration	Type	ACH	X	Zone Volume	CFM=	
	Natural	0.80		17360	231.5	9376 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					39714 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Lot 55, Callaway Phase II

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

1/30/2006

HOUSE TOTALS

	Subtotal Sensible	39714 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	39714 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

Spec House

Project Title:
Lot 55, Callaway Phase II

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (User customized) Winter Temperature Difference: 37.0 F

1/30/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	30.0	32.2	966 Btuh
2	2, Clear, Metal, 0.87	W	4.0	32.2	129 Btuh
3	2, Clear, Metal, 0.87	N	17.8	32.2	573 Btuh
4	2, Clear, Metal, 0.87	W	28.0	32.2	901 Btuh
5	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
6	2, Clear, Metal, 0.87	SW	14.0	32.2	451 Btuh
7	2, Clear, Metal, 0.87	W	42.0	32.2	1352 Btuh
8	2, Clear, Metal, 0.87	NW	14.0	32.2	451 Btuh
9	2, Clear, Metal, 0.87	W	6.0	32.2	193 Btuh
10	2, Clear, Metal, 0.87	W	16.0	32.2	515 Btuh
11	2, Clear, Metal, 0.87	N	16.0	32.2	515 Btuh
12	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
13	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
14	2, Clear, Metal, 0.87	E	63.0	32.2	2028 Btuh
15	2, Clear, Metal, 0.87	E	13.3	32.2	428 Btuh
16	2, Clear, Metal, 0.87	S	75.0	32.2	2414 Btuh
17	2, Clear, Metal, 0.87	S	4.0	32.2	129 Btuh
Window Total			423(sqft)		13620 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1085	3.3	3563 Btuh
2	Frame - Wood - Adj(0.09)	13.0	180	3.3	591 Btuh
Wall Total			1265		4154 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
Door Total			40		518 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2220	1.2	2616 Btuh
Ceiling Total			2220		2616 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	216.0 ft(p)	43.7	9431 Btuh
Floor Total			216		9431 Btuh
Zone Envelope Subtotal:					30338 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	17360	231.5	9376 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				39714 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Lot 55, Callaway Phase II

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

1/30/2006



	Subtotal Sensible Ventilation Sensible Total Btuh Loss	39714 Btuh 0 Btuh 39714 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

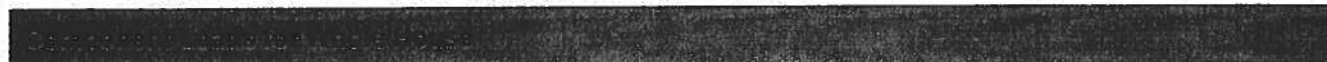
Spec House

Project Title:
Lot 55, Callaway Phase II

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 1/30/2006



Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	30.0	0.0	30.0	35	86	2568	Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	4.0	0.0	4.0	35	86	342	Btuh
3	2, Clear, 0.87, None,N,N	N	15ft.	10ft.	17.8	0.0	17.8	35	35	624	Btuh
4	2, Clear, 0.87, None,N,N	W	15ft.	10ft.	28.0	28.0	0.0	35	86	981	Btuh
5	2, Clear, 0.87, None,N,N	W	15ft.	10ft.	40.0	40.0	0.0	35	86	1402	Btuh
6	2, Clear, 0.87, None,N,N	SW	15ft.	10ft.	14.0	14.0	0.0	35	69	491	Btuh
7	2, Clear, 0.87, None,N,N	W	15ft.	10ft.	42.0	42.0	0.0	35	86	1472	Btuh
8	2, Clear, 0.87, None,N,N	NW	15ft.	10ft.	14.0	0.0	14.0	35	66	926	Btuh
9	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	6.0	0.0	6.0	35	86	514	Btuh
10	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	16.0	0.0	16.0	35	86	1370	Btuh
11	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	16.0	0.0	16.0	35	35	561	Btuh
12	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	35	35	701	Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	20.0	0.0	20.0	35	86	1712	Btuh
14	2, Clear, 0.87, None,N,N	E	6.5ft	10ft.	63.0	21.6	41.4	35	86	4304	Btuh
15	2, Clear, 0.87, None,N,N	E	8.5ft	10ft.	13.3	7.4	5.9	35	86	763	Btuh
16	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	75.0	75.0	0.0	35	40	2629	Btuh
17	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	4.0	4.0	0.0	35	40	140	Btuh
Excursion										5519	Btuh
Window Total					423 (sqft)					27019	Btuh
Walls	Type			R-Value/U-Value	Area(sqft)		HTM		Load		
1	Frame - Wood - Ext			13.0/0.09	1084.9		2.7		2937 Btuh		
2	Frame - Wood - Adj			13.0/0.09	180.0		2.1		383 Btuh		
Wall Total					1265 (sqft)				3320 Btuh		
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Adjacent				20.0		12.3		245 Btuh		
2	Insulated - Exterior				20.0		12.3		245 Btuh		
Door Total					40 (sqft)				490 Btuh		
Ceilings	Type/Color/Surface			R-Value	Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle			30.0	2220.0		1.9		4171 Btuh		
Ceiling Total					2220 (sqft)				4171 Btuh		
Floors	Type			R-Value	Size		HTM		Load		
1	Slab On Grade			0.0	216 (ft(p))		0.0		0 Btuh		
Floor Total					216.0 (sqft)				0 Btuh		
Zone Envelope Subtotal:										35000 Btuh	
Infiltration	Type			ACH	Volume(cuft)		CFM=		Load		
	SensibleNatural			0.70	17360		202.5		5321 Btuh		
Internal gain				Occupants	Btuh/occupant		Appliance		Load		
				8	X 230 +		2400		4240 Btuh		
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										44562 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Lot 55, Callaway Phase II

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

1/30/2006

Whole House Totals for Cooling	Sensible Envelope Load All Zones	44562 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	44562 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	44562 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	7402 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	9002 Btuh
	TOTAL GAIN	53563 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))

(Omt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House

Project Title:
Lot 55, Callaway Phase II

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 1/30/2006

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	30.0	0.0	30.0	35	86	2568	Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	4.0	0.0	4.0	35	86	342	Btuh
3	2, Clear, 0.87, None,N,N	N	15ft.	10ft.	17.8	0.0	17.8	35	35	624	Btuh
4	2, Clear, 0.87, None,N,N	W	15ft.	10ft.	28.0	28.0	0.0	35	86	981	Btuh
5	2, Clear, 0.87, None,N,N	W	15ft.	10ft.	40.0	40.0	0.0	35	86	1402	Btuh
6	2, Clear, 0.87, None,N,N	SW	15ft.	10ft.	14.0	14.0	0.0	35	69	491	Btuh
7	2, Clear, 0.87, None,N,N	W	15ft.	10ft.	42.0	42.0	0.0	35	86	1472	Btuh
8	2, Clear, 0.87, None,N,N	NW	15ft.	10ft.	14.0	0.0	14.0	35	66	926	Btuh
9	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	6.0	0.0	6.0	35	86	514	Btuh
10	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	16.0	0.0	16.0	35	86	1370	Btuh
11	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	16.0	0.0	16.0	35	35	561	Btuh
12	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	35	35	701	Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	20.0	0.0	20.0	35	86	1712	Btuh
14	2, Clear, 0.87, None,N,N	E	6.5ft	10ft.	63.0	21.6	41.4	35	86	4304	Btuh
15	2, Clear, 0.87, None,N,N	E	8.5ft	10ft.	13.3	7.4	5.9	35	86	763	Btuh
16	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	75.0	75.0	0.0	35	40	2629	Btuh
17	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	4.0	4.0	0.0	35	40	140	Btuh
	Excursion									5519	Btuh
	Window Total				423 (sqft)					27019 Btuh	
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load	
1	Frame - Wood - Ext		13.0/0.09		1084.9			2.7		2937 Btuh	
2	Frame - Wood - Adj		13.0/0.09		180.0			2.1		383 Btuh	
	Wall Total				1265 (sqft)					3320 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Adjacent				20.0			12.3		245 Btuh	
2	Insulated - Exterior				20.0			12.3		245 Btuh	
	Door Total				40 (sqft)					490 Btuh	
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle		30.0		2220.0			1.9		4171 Btuh	
	Ceiling Total				2220 (sqft)					4171 Btuh	
Floors	Type		R-Value		Size			HTM		Load	
1	Slab On Grade		0.0		216 (ft(p))			0.0		0 Btuh	
	Floor Total				216.0 (sqft)					0 Btuh	
			Zone Envelope Subtotal:							35000 Btuh	
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load	
	SensibleNatural		0.70		17380			202.5		5321 Btuh	
Internal gain			Occupants		Btuh/occupant			Appliance		Load	
			8		X 230 +			2400		4240 Btuh	
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
			Sensible Zone Load							44562 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Lot 55, Callaway Phase II

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

1/30/2006

Whole House Totals for Cooling	Sensible Envelope Load All Zones	44562 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	44562 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	44562 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	7402 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	9002 Btuh
	TOTAL GAIN	53563 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))
 (Omt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Spec House

Project Title:
Lot 55, Callaway Phase II

Code Only
Professional Version
Climate: North

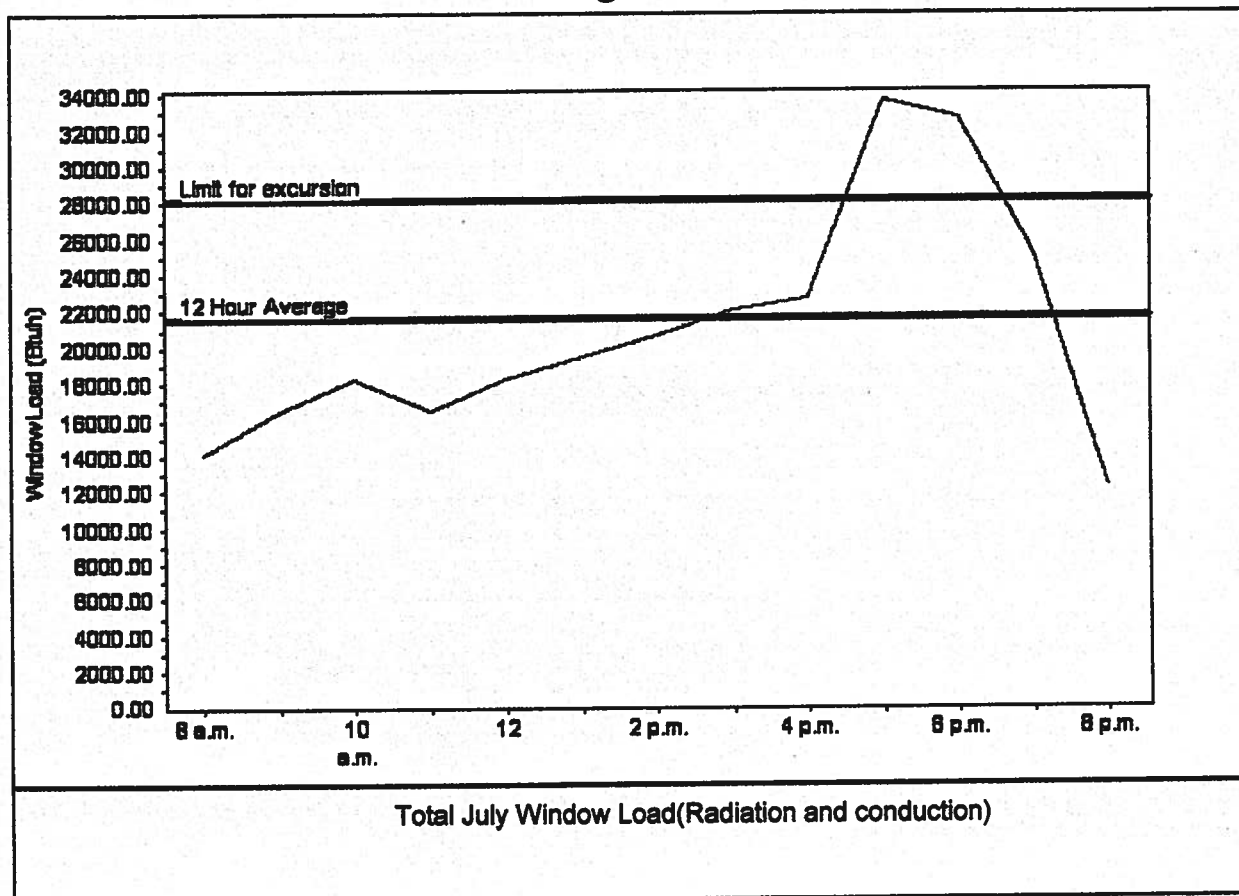
Lake City, FL 32025-

1/30/2006

EnergyGauge® System Sizing for Florida residences only

Summer design temperature	99 F	Average window load for July	21665 Btu
Summer setpoint	75 F	Peak window load for July	33683 Btu
Summer temperature difference	24 F	Excursion limit(130% of Ave.)	28164 Btu
Latitude	29 North	Window excursion (July)	5519 Btu/h

WINDOW Average and Peak Loads



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: _____

EnergyGauge® FLRCPB v4.1



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	Lot 55, Callaway Phase II	Builder:	Chris Mills Homes Of Fl
Address:	Lot: 55, Sub: Callaway, Plat:	Permitting Office:	Columbia County
City, State:	Lake City, FL 32025-	Permit Number:	
Owner:	Spec House	Jurisdiction Number:	
Climate Zone:	North		

- | | |
|--|---|
| <p>1. New construction or existing New ☐</p> <p>2. Single family or multi-family Single family ☐</p> <p>3. Number of units, if multi-family 1 ☐</p> <p>4. Number of Bedrooms 4 ☐</p> <p>5. Is this a worst case? No ☐</p> <p>6. Conditioned floor area (ft²) 2170 ft² ☐</p> <p>7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)</p> <p style="margin-left: 20px;">a. U-factor: Description Area</p> <p style="margin-left: 40px;">(or Single or Double DEFAULT) 7a. (Dble Default) 423.1 ft² ☐</p> <p style="margin-left: 20px;">b. SHGC:</p> <p style="margin-left: 40px;">(or Clear or Tint DEFAULT) 7b. (Clear) 423.1 ft² ☐</p> <p>8. Floor types</p> <p style="margin-left: 20px;">a. Slab-On-Grade Edge Insulation R=0.0, 216.0(p) ft ☐</p> <p style="margin-left: 20px;">b. N/A ☐</p> <p style="margin-left: 20px;">c. N/A ☐</p> <p>9. Wall types</p> <p style="margin-left: 20px;">a. Frame, Wood, Exterior R=13.0, 1084.9 ft² ☐</p> <p style="margin-left: 20px;">b. Frame, Wood, Adjacent R=13.0, 180.0 ft² ☐</p> <p style="margin-left: 20px;">c. N/A ☐</p> <p style="margin-left: 20px;">d. N/A ☐</p> <p style="margin-left: 20px;">e. N/A ☐</p> <p>10. Ceiling types</p> <p style="margin-left: 20px;">a. Under Attic R=30.0, 2220.0 ft² ☐</p> <p style="margin-left: 20px;">b. N/A ☐</p> <p style="margin-left: 20px;">c. N/A ☐</p> <p>11. Ducts(Leak Free)</p> <p style="margin-left: 20px;">a. Sup: Unc. Ret: Unc. AH: Garage Sup. R=6.0, 50.0 ft ☐</p> <p style="margin-left: 20px;">b. N/A ☐</p> | <p>12. Cooling systems</p> <p style="margin-left: 20px;">a. Central Unit Cap: 47.0 kBtu/hr ☐</p> <p style="margin-left: 40px;">SEER: 11.00 ☐</p> <p style="margin-left: 20px;">b. N/A ☐</p> <p style="margin-left: 20px;">c. N/A ☐</p> <p>13. Heating systems</p> <p style="margin-left: 20px;">a. Electric Heat Pump Cap: 47.0 kBtu/hr ☐</p> <p style="margin-left: 40px;">HSPF: 6.80 ☐</p> <p style="margin-left: 20px;">b. N/A ☐</p> <p style="margin-left: 20px;">c. N/A ☐</p> <p>14. Hot water systems</p> <p style="margin-left: 20px;">a. Electric Resistance Cap: 50.0 gallons ☐</p> <p style="margin-left: 40px;">EF: 0.90 ☐</p> <p style="margin-left: 20px;">b. N/A ☐</p> <p style="margin-left: 20px;">c. Conservation credits</p> <p style="margin-left: 40px;">(HR-Heat recovery, Solar</p> <p style="margin-left: 40px;">DHP-Dedicated heat pump)</p> <p>15. HVAC credits PT, ☐</p> <p style="margin-left: 20px;">(CF-Ceiling fan, CV-Cross ventilation,</p> <p style="margin-left: 20px;">HF-Whole house fan,</p> <p style="margin-left: 20px;">PT-Programmable Thermostat,</p> <p style="margin-left: 20px;">MZ-C-Multizone cooling,</p> <p style="margin-left: 20px;">MZ-H-Multizone heating)</p> |
|--|---|

Glass/Floor Area: 0.19

Total as-built points: 31081

Total base points: 31859

PASS

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

PREPARED BY: Will Myers

DATE: 12/30/06

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

OWNER/AGENT: David Kober

DATE: 3-2-07

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: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points			
.18	2170.0	20.04	7827.6	Double, Clear	W	1.5	8.0	30.0	38.52	0.96	1107.3
				Double, Clear	W	1.5	8.0	4.0	38.52	0.96	147.6
				Double, Clear	N	15.0	10.0	17.8	19.20	0.65	223.5
				Double, Clear	W	15.0	10.0	28.0	38.52	0.45	484.0
				Double, Clear	W	15.0	10.0	40.0	38.52	0.45	691.5
				Double, Clear	SW	15.0	10.0	14.0	40.16	0.42	238.8
				Double, Clear	W	15.0	10.0	42.0	38.52	0.45	726.0
				Double, Clear	NW	15.0	10.0	14.0	25.97	0.58	209.6
				Double, Clear	W	1.5	8.0	6.0	38.52	0.96	221.5
				Double, Clear	W	1.5	8.0	16.0	38.52	0.96	590.6
				Double, Clear	N	1.5	8.0	16.0	19.20	0.97	297.1
				Double, Clear	N	1.5	8.0	20.0	19.20	0.97	371.4
				Double, Clear	E	1.5	8.0	20.0	42.06	0.96	805.5
				Double, Clear	E	6.5	10.0	63.0	42.06	0.64	1693.6
				Double, Clear	E	8.5	10.0	13.3	42.06	0.56	310.7
				Double, Clear	S	1.5	8.0	75.0	35.87	0.92	2483.6
				Double, Clear	S	1.5	8.0	4.0	35.87	0.92	132.5
				As-Built Total:			423.1			10734.9	
WALL TYPES				Area X BSPM = Points		Type	R-Value		Area X SPM = Points		
Adjacent	180.0	0.70	126.0	Frame, Wood, Exterior		13.0		1084.9	1.50	1627.4	
Exterior	1084.9	1.70	1844.3	Frame, Wood, Adjacent		13.0		180.0	0.60	108.0	
Base Total:		1264.9	1970.3	As-Built Total:				1264.9	1735.4		
DOOR TYPES				Area X BSPM = Points		Type	Area X SPM = Points				
Adjacent	20.0	1.60	32.0	Exterior Insulated				20.0	4.10	82.0	
Exterior	20.0	4.10	82.0	Adjacent Insulated				20.0	1.60	32.0	
Base Total:		40.0	114.0	As-Built Total:				40.0	114.0		
CEILING TYPES				Area X BSPM = Points		Type	R-Value		Area X SPM X SCM = Points		
Under Attic	2170.0	1.73	3754.1	Under Attic		30.0		2220.0	1.73 X 1.00	3840.6	
Base Total:		2170.0	3754.1	As-Built Total:				2220.0	3840.6		

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES Area X BSPM = Points				Type	R-Value	Area X SPM = Points			
Slab	216.0(p)	-37.0	-7992.0	Slab-On-Grade Edge Insulation	0.0	216.0(p)	-41.20	-8899.2	
Raised	0.0	0.00	0.0						
Base Total:			-7992.0	As-Built Total:		216.0		-8899.2	
INFILTRATION Area X BSPM = Points						Area X SPM = Points			
	2170.0	10.21	22155.7			2170.0	10.21	22155.7	
Summer Base Points: 27829.8				Summer As-Built Points: 29681.4					
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Cooling Points
27829.8	0.4266	11872.2		(sys 1: Central Unit 47000 btuh , SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 29681	1.00	(1.09 x 1.000 x 1.00)	0.310	0.950	9536.3
				29681.4	1.00	1.090	0.310	0.950	9536.3

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

ADDRESS: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	2170.0	12.74	4976.2	Double, Clear	W	1.5	8.0	30.0	20.73	1.01	628.8
				Double, Clear	W	1.5	8.0	4.0	20.73	1.01	83.8
				Double, Clear	N	15.0	10.0	17.8	24.58	1.02	447.4
				Double, Clear	W	15.0	10.0	28.0	20.73	1.20	698.9
				Double, Clear	W	15.0	10.0	40.0	20.73	1.20	998.5
				Double, Clear	SW	15.0	10.0	14.0	16.74	1.81	424.4
				Double, Clear	W	15.0	10.0	42.0	20.73	1.20	1048.4
				Double, Clear	NW	15.0	10.0	14.0	24.30	1.03	350.4
				Double, Clear	W	1.5	8.0	6.0	20.73	1.01	125.8
				Double, Clear	W	1.5	8.0	16.0	20.73	1.01	335.3
				Double, Clear	N	1.5	8.0	16.0	24.58	1.00	393.6
				Double, Clear	N	1.5	8.0	20.0	24.58	1.00	492.0
				Double, Clear	E	1.5	8.0	20.0	18.79	1.02	383.3
				Double, Clear	E	6.5	10.0	63.0	18.79	1.18	1392.0
				Double, Clear	E	8.5	10.0	13.3	18.79	1.24	311.1
				Double, Clear	S	1.5	8.0	75.0	13.30	1.04	1038.3
				Double, Clear	S	1.5	8.0	4.0	13.30	1.04	55.4
				As-Built Total:		423.1			9207.3		
WALL TYPES				Area X BWPM = Points		Type		R-Value		Area X WPM = Points	
Adjacent	180.0	3.60	648.0	Frame, Wood, Exterior		13.0		1084.9	3.40	3688.7	
Exterior	1084.9	3.70	4014.1	Frame, Wood, Adjacent		13.0		180.0	3.30	594.0	
Base Total:		1264.9	4662.1	As-Built Total:		1264.9		4282.7			
DOOR TYPES				Area X BWPM = Points		Type		Area X WPM = Points			
Adjacent	20.0	8.00	160.0	Exterior Insulated		20.0		8.40	168.0		
Exterior	20.0	8.40	168.0	Adjacent Insulated		20.0		8.00	160.0		
Base Total:		40.0	328.0	As-Built Total:		40.0		328.0			
CEILING TYPES				Area X BWPM = Points		Type		R-Value		Area X WPM X WCM = Points	
Under Attic	2170.0	2.05	4448.5	Under Attic		30.0		2220.0	2.05 X 1.00	4551.0	
Base Total:		2170.0	4448.5	As-Built Total:		2220.0		4551.0			

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

ADDRESS: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT			
FLOOR TYPES	Area	X BWPM	= Points	Type	R-Value	Area	X WPM = Points
Slab	216.0(p)	8.9	1922.4	Slab-On-Grade Edge Insulation	0.0	216.0(p)	18.80 4060.8
Raised	0.0	0.00	0.0				
Base Total:			1922.4	As-Built Total:		216.0	4060.8
INFILTRATION	Area	X BWPM	= Points				
	2170.0	-0.59	-1280.3			2170.0	-0.59 -1280.3
Winter Base Points:			15057.0	Winter As-Built Points:			21149.4
Total Winter X System = Heating Points Multiplier Points							
	Total Component (System - Points)	X Ratio	X Cap (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Heating Points
	(sys 1: Electric Heat Pump 47000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0						
15057.0	21149.4	1.000	(1.069 x 1.000 x 1.00)	0.501	0.950	10770.7	
	21149.4	1.00	1.069	0.501	0.950	10770.7	

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	Multiplier X Credit	= Total Multiplier
4		2635.00	10540.0	50.0	0.90	4	1.00	2693.56	1.00 10774.2
				As-Built Total:					10774.2

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	+ Hot Water Points = Total Points	Cooling Points	+	Heating Points	+ Hot Water Points = Total Points
11872		9447	10540 31859	9536		10771	10774 31081

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

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 cir 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.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.7

The higher the score, the more efficient the home.

Spec House, Lot: 55, Sub: Callaway, Plat: , Lake City, FL, 32025-

1. New construction or existing	New	___	12. Cooling systems		
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 47.0 kBtu/hr	___
3. Number of units, if multi-family	1	___		SEER: 11.00	___
4. Number of Bedrooms	4	___	b. N/A		___
5. Is this a worst case?	No	___	c. N/A		___
6. Conditioned floor area (ft²)	2170 ft²	___			___
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		___	13. Heating systems		___
a. U-factor:	Description Area	___	a. Electric Heat Pump	Cap: 47.0 kBtu/hr	___
(or Single or Double DEFAULT)	7a. (Dble Default) 423.1 ft²	___		HSPF: 6.80	___
b. SHGC:		___	b. N/A		___
(or Clear or Tint DEFAULT)	7b. (Clear) 423.1 ft²	___	c. N/A		___
8. Floor types		___	14. Hot water systems		___
a. Slab-On-Grade Edge Insulation	R=0.0, 216.0(p) ft	___	a. Electric Resistance	Cap: 50.0 gallons	___
b. N/A		___		EF: 0.90	___
c. N/A		___	b. N/A		___
9. Wall types		___	c. Conservation credits		___
a. Frame, Wood, Exterior	R=13.0, 1084.9 ft²	___	(HR-Heat recovery, Solar		___
b. Frame, Wood, Adjacent	R=13.0, 180.0 ft²	___	DHP-Dedicated heat pump)		___
c. N/A		___	15. HVAC credits	PT, ___	___
d. N/A		___	(CF-Ceiling fan, CV-Cross ventilation,		___
e. N/A		___	HF-Whole house fan,		___
10. Ceiling types		___	PT-Programmable Thermostat,		___
a. Under Attic	R=30.0, 2220.0 ft²	___	MZ-C-Multizone cooling,		___
b. N/A		___	MZ-H-Multizone heating)		___
c. N/A		___			___
11. Ducts(Leak Free)		___			___
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft	___			___
b. N/A		___			___

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

Builder Signature: _____

Date: _____

Address of New Home: _____

City/FL Zip: _____



**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ 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.
EnergyGauge® (Version: FLRCPB v4.1)

Energy Code Compliance

Duct System Performance Report

Project Name: Lot 55, Callaway Phase II Address: City, State: Lake City, FL 32025- Owner: Spec House Climate Zone: North	Builder: Permitting Office: Chris Mills Homes Of FI Permit Number: Columbia County Jurisdiction Number:
---	--

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	Total House Duct System Leakage	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,tot}) ☐ Receive credit if Q _{n,tot} ≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,out}) ☐ Receive credit if Q _{n,out} ≤ 0.03 AND Q _{n,tot} ≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____
Printed Name: _____
Florida Rater Certification #: _____
DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: <http://energygauge.com/search.htm>



BUILDING OFFICIAL: _____
DATE: _____

Callaway SS
60x

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1606 SHALL BE USED.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE -----110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing the following:

Plans Examiner

All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.

Q

Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.

□

Site Plan including:

a) Dimensions of lot

b) Dimensions of building set backs

c) **Location of all other buildings on lot, well and septic tank if applicable, and all utility easements.**

d) Provide a full legal description of property.

□

Wind-load Engineering Summary, calculations and any details required

a) Plans or specifications must state compliance with FBC Section 1606

b) The following information must be shown as per section 1606.1.7 FBC

a. Basic wind speed (MPH)

b. Wind importance factor (I) and building category

c. **Wind exposure** – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated

d. The applicable internal pressure coefficient

e. **Components and Cladding.** The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional

Elevations including:

a) All sides

7

b) Roof pitch

1

c) Overhang dimensions and detail with attic ventilation

1

d) Location, size and height above roof of chimneys

2

e) Location and size of skylights

1

f) Building height

1

e) Number of stories

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Floor Plan including:

- a) Rooms labeled and dimensioned
- b) Shear walls
- c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
- d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
- e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
- f) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

- a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling
- d) Location of any vertical steel

Roof System:

- a) Truss package including:
 - 1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
 - 2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- b) Conventional Framing Layout including:
 - 1. Rafter size, species and spacing
 - 2. Attachment to wall and uplift
 - 3. Ridge beam sized and valley framing and support details
 - 4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

- a) Masonry wall
 - 1. All materials making up wall
 - 2. Block size and mortar type with size and spacing of reinforcement
 - 3. Lintel, tie-beam sizes and reinforcement
 - 4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
 - 5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
 - 6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
 - 7. Fire resistant construction (if required)
 - 8. Fireproofing requirements
 - 9. Shoe type of termite treatment (termiteicide or alternative method)
 - 10. Slab on grade
 - a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
 - 11. Indicate where pressure treated wood will be placed
 - 12. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

☒☐**b) Wood frame wall**

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termicide or alternative method)
11. Slab on grade
 - a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

☐☐**c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)****Floor Framing System:**

- a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
- b) Floor joist size and spacing
- c) Girder size and spacing
- d) Attachment of joist to girder
- e) Wind load requirements where applicable

Plumbing Fixture layout**Electrical layout including:**

- a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- b) Ceiling fans
- c) Smoke detectors
- d) Service panel and sub-panel size and location(s)
- e) Meter location with type of service entrance (overhead or underground)
- f) Appliances and HVAC equipment

HVAC information

- a) Manual J sizing equipment or equivalent computation
- b) Exhaust fans in bathroom

Energy Calculations (dimensions shall match plans)**Gas System Type (LP or Natural) Location and BTU demand of equipment****Disclosure Statement for Owner Builders****Notice Of Commencement****Private Potable Water**

- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used

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Notice of Prevention for Subterranean Termites

(As required by Florida Building Code (FBC) 104.2.6)



A locally owned
company serving
you since 1972

17856 U.S. 129 • McALPIN, FLORIDA 32062
(386) 362-3887 • 1-800-771-3887 • Fax: (386) 364-3529

Lot 55 CHEISMUL HAVEN 24838

Address of Treatment or Lot/Block of Treatment

Date 11/14/06 Time 5:30

Product Used PERMATHEN

Percent Concentration .25

Applicator JEFF LEE

Number of gallons applied 400

Area treated (square feet) 3058

Linear feet treated 200

Stage of treatment (Horizontal, Vertical, Adjoining Slab, retreat of disturbed area) HORIZONTAL VERTICAL

As per 104.2.6 - If soil chemical barrier method for Subterranean 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 and date this line. _____



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32256

Tel. (904) 755-3633 • Fax (904) 752-5456
Tel. (904) 262-4046 • Fax (904) 262-4047

lot 55

24838

"Excellence in Engineering & Geoscience"

JOB NO: _____

DATE TESTED: 9/25/06

REPORT OF IN-PLACE DENSITY TEST

ASTM METHOD: D-2922 (Nuclear) D-2937 (Drive Cylinder) Other

PROJECT: Calloway Sub Lot 54+55

CLIENT: Crismill/Homas

GENERAL CONTRACTOR: _____ EARTHWORK CONTRACTOR: _____

SOIL USE: 1 - Footings SPECIFICATION REQUIREMENTS: 95

TECHNICIAN: A. Steen

MODIFIED (ASTM D-1557): _____ STANDARD (ASTM D-698): _____

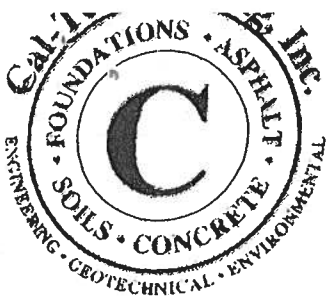
TEST NO.	TEST LOCATION	TEST DEPTH ELEV. LIFT#	PROCTOR NO.	WET DENS. LBS.CU.FT.	DRY DENS. LBS.CU.FT.	MOIST. PERCENT	% MAX.DENS.
13	NE Corner 10+54	12"	1	124.1	114.9	8.0	102
14	NW Corner 54			123.7	114.7	7.8	101
15	SE Corner 54			123.8	114.2	7.9	101
16	SW Corner 55			122.7	114.2	7.4	101
17	NE Corner 55			121.5	113.1	7.4	100
18	NW Corner 55			122.0	113.5	7.5	100

REMARKS: _____

PROCTOR NO.	SOIL DESCRIPTION	PROCTOR VALUE	OPT. MOIST.
1		113.1	11.1

NOTE: SOIL USES: 1. Building Pad Fill 2. Trench Backfill 3. Base Course 4. Subbase-Stabilized Subgrade 5. Embankment
6. Subgrade - Natural Soil 7. Other

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test location and change with time, sound judgment should be exercised with regard to the use and interpretation of the data.



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056

4784 Rosselle Street • Jacksonville, FL 32254

2230 Greensboro Highway • Quincy, FL 32351

Tel. (386) 755-3633 • Fax (386) 752-5456

Tel. (904) 381-8901 • Fax (904) 381-8902

Tel. (850) 442-3495 • Fax (850) 442-4008

Lot 55 # 24838

October 5, 2006

Chrismill Homes
2404 Bemiss Road
Valdosta, Georgia 31602

Attention: Adam Durrell

Reference: Lots 54 & 55
Calloway Subdivision
Lake City, Florida
Cal-Tech Project No. 06-484

Dear Mr. Durrell,

Cal-Tech Testing, Inc. has completed the subsurface investigation and engineering evaluation for lots 54 and 55 in Calloway Subdivision, Lake City, Florida. Our work was performed in conjunction with and authorized by you.

Introduction

Prior to our site visit, approximately three to four feet of fill had been placed on both lots, and the excavations for the foundations had been completed. The excavations extended to a depth of about two feet, and the bearing surface was within the placed fill. We understand that due to the presence of clayey soils at the bearing elevation in some areas, an evaluation of the underlying material was required to determine if the clayey soils were expansive in nature.

Site Investigation

The subsurface conditions were investigated by performing two hand-auger borings at each site, advanced to depths of 4 feet. The borings were performed in the footing excavations, at the approximate locations indicated on the attached Boring Location Plan. These locations were selected by us, where clayey soils were exposed.

Hand-auger borings are performed by manually advancing a three-inch diameter, metal sleeve into the soil to recover samples from limited depths. Samples are examined for soil type and color.

Findings

The soil borings generally encountered two soil strata. The first layer consists of 0.5 to 1.0 feet of tannish grey, greyish tan, tannish gray and orange or gray and orange clayey sand (SC) or very sandy clay (CL). The second layer consists of an undetermined thickness of generally dark tannish grey, greyish tan, grey and light tan, fine sand (SP) or sand with silt (SP/SM)). Ground water was not encountered at the time of our investigation.

For a more detailed description of the subsurface conditions encountered, please refer to the attached Boring Logs. Note specifically the transition between soil layers may be gradual and not abrupt as indicated by the logs; therefore, the thickness of soil layers should be considered approximate.

Discussion and Recommendations

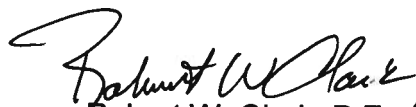
Based on our field observations of the materials encountered in both borings in Lots 54 and 55, the clayey soils were determined to be slightly plastic, and thus should have a relatively low probability of volume change.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us if you have questions about this report or if we may be of further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.



Linda Creamer
President / C.E.O.

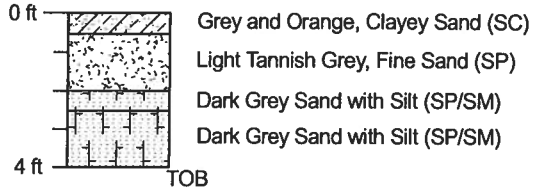

Robert W. Clark, P.E. 10/4/06
Geotechnical Engineer
Registered Florida, No. 52210

A-1

Water Table: N/A

Depth (ft)

Soil Description

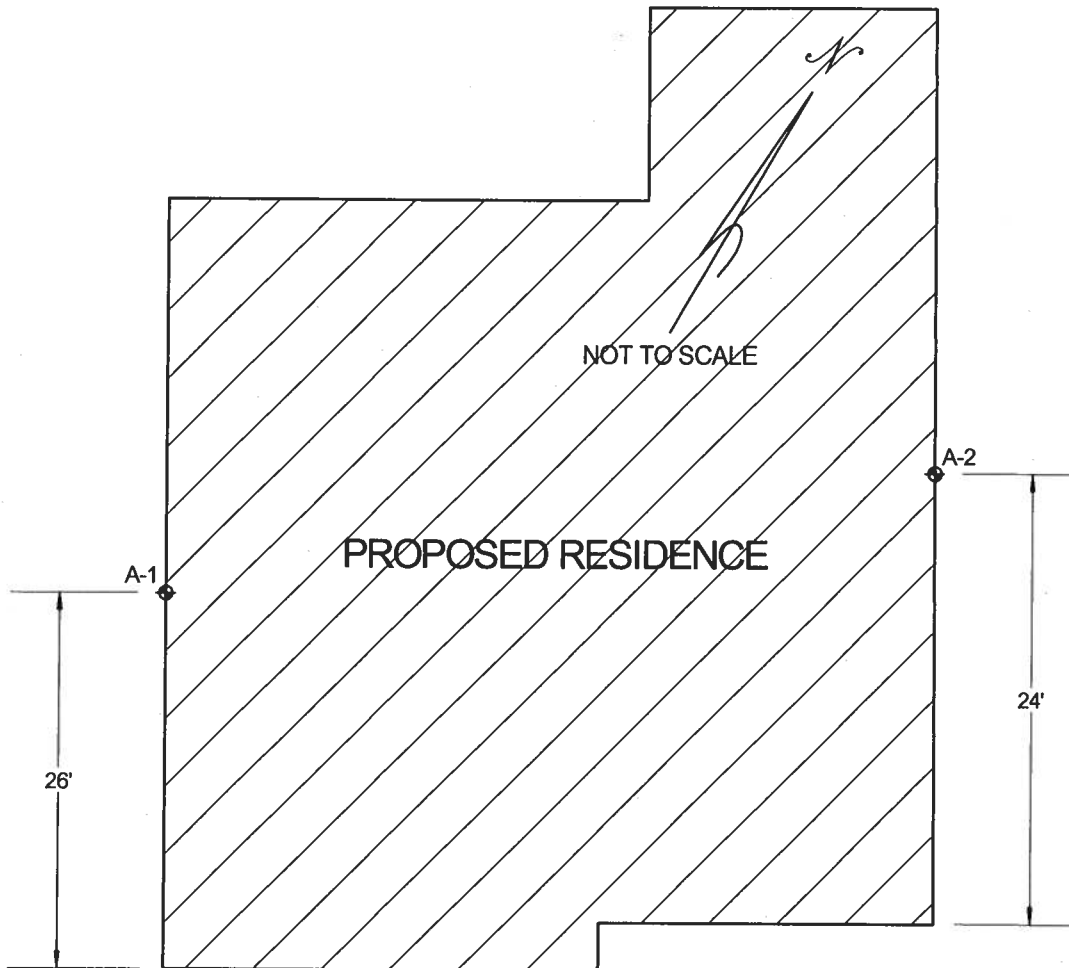
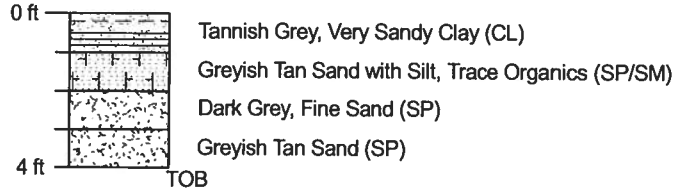


A-2

Water Table: N/A

Depth (ft)

Soil Description



LOT 54
CALLOWAY SUBDIVISION

REPORT OF SOIL BORINGS

DRAWN BY:

CHECKED BY:

DATE

JOB NO.

S.C. YOUNG

10/5/06

06-484

SHEET NO.

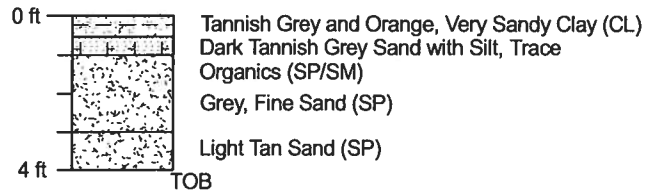
1 of 2

A-1

Water Table: N/A

Depth (ft)

Soil Description

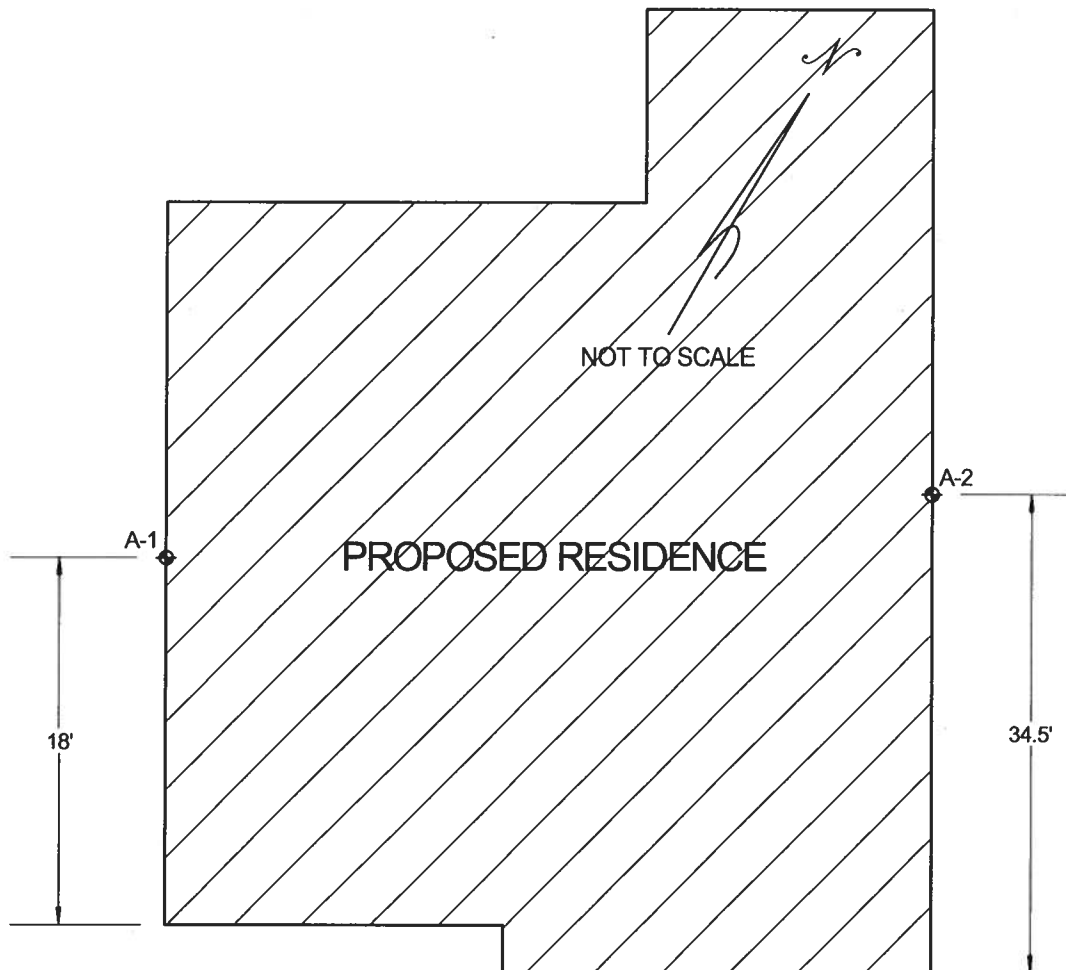


A-2

Water Table: N/A

Depth (ft)

Soil Description



LOT 55
CALLOWAY SUBDIVISION

REPORT OF SOIL BORINGS

SHEET NO.

2 of 2

DRAWN BY:

CHECKED BY:

DATE

JOB NO.

S.C. YOUNG

10/5/06

06-484

Nov. 16. 2006 1:40PM

BAILEY BISHOP & LANE

No. 8706 P. 2

**BAILEY BISHOP & LANE, INC.****Engineers****Surveyors****Planners**

November 16, 2008

Chris Mill Homes
Lake City, Florida 32025

RE: Flood Statement Letter

Dear Sir:

We have performed a vertical survey from a Bench Mark described as a nail & disc (PCP LB6685), Elevation of 88.01', NGVD 1929 datum, in the centerline of SW Callaway Drive, located in front of the parcel of land in question. Said lands being Lots 54 & 55, Callaway, Phase two, Columbia County, Florida, and we herewith submit the following:

- That we determined that the elevation of the stem wall of Lot 54 to be 89.18', NGVD 1929 datum. Also, we determined that the elevation of the stem wall of Lot 55 to be 89.14', NGVD 1929.

Should you have any questions, please do not hesitate to give me a call.

Sincerely,

Brian Scott Daniel, PSM
Director of Surveying
BAILEY, BISHOP & LANE, INC.24837-455
24838-Lot 54

P. O. Box 3717

Lake City, FL 32058-3717

Ph. (386) 752-5840

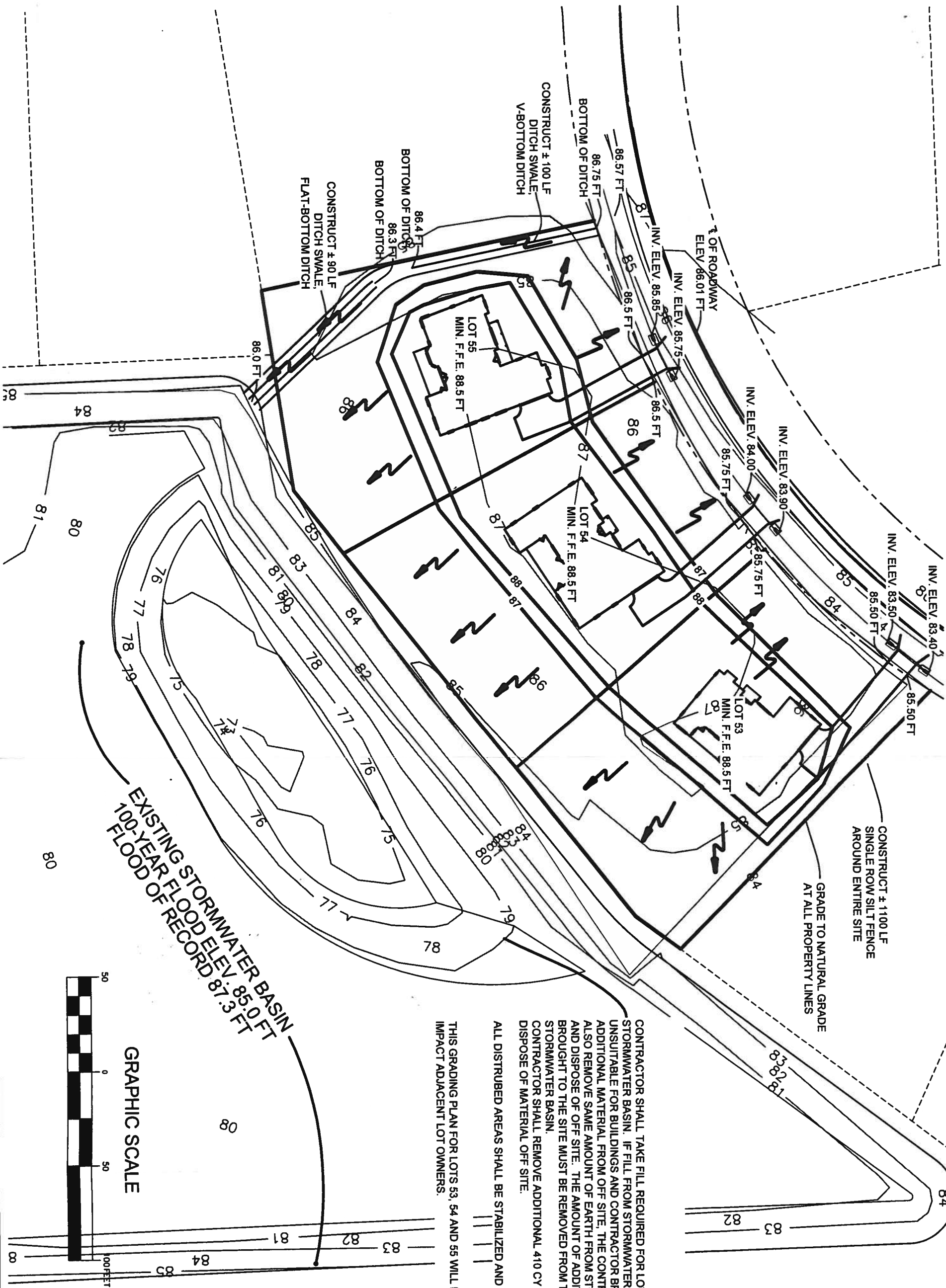
FAX (386) 755-7771

P. O. Box 814

Port St Joe, FL 32457

Ph. (850) 227-9449

FAX (850) 227-9650



EXISTING STORMWATER BASIN
100-YEAR FLOOD ELEV. 85.0 FT
FLOOD OF RECORD 87.3 FT

GRAPHIC SCALE



CONTRACTOR SHALL TAKE FILL REQUIRED FOR LOTS FROM STORMWATER BASIN. IF FILL FROM STORMWATER BASIN IS UNSUITABLE FOR BUILDINGS AND CONTRACTOR BRINGS IN ADDITIONAL MATERIAL FROM OFF SITE, THE CONTRACTOR SHALL ALSO REMOVE SAME AMOUNT OF EARTH FROM STORMWATER BASIN AND DISPOSE OF OFF SITE. THE AMOUNT OF ADDITIONAL MATERIAL BROUGHT TO THE SITE MUST BE REMOVED FROM THE STORMWATER BASIN. CONTRACTOR SHALL REMOVE ADDITIONAL 410 CY OF EARTH AND DISPOSE OF MATERIAL OFF SITE.

ALL DISTURBED AREAS SHALL BE STABILIZED AND GRASSED.

THIS GRADING PLAN FOR LOTS 53, 54 AND 55 WILL NOT ADVERSELY IMPACT ADJACENT LOT OWNERS.

CALLAWAY LOTS 53 TO 55 GRADING PLAN



Bailey Bishop & Lane, Inc.
P.O. Box 3717
Lake City, FL 32056
Ph. 386-752-5640
Eng. Lic. 7362

P.O. Box 814
Port St. Joe, FL 32457
Ph. 850-227-9449
Survey Lic. LB-0006685

JOB NUMBER: 051101WES	DESIGNED BY: RF	DRAFTED BY: RF	CHECKED BY: GB
DATE: 07-05-06			
SHEET NO. 5			

REVISIONS:
07/17/06
07/25/06

SIGNATURE & SEAL
7/25/06

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844

Florida Engineering Certificate of Authorization Number: 567

Florida Certificate of Product Approval # FL1999

Page 1 of 1 Document ID: ISVX215-Z0730114457

Truss Fabricator: W.B. Howland

Job Identification: 3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL

Truss Count: 47

Model Code: Florida Building Code 2004

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

Engineering Software: Alpine Software, Version 7.24.

Structural Engineer of Record: The identity of the structural EOR did not exist as of the seal date per section 61G15-31.003(5a) of the FAC

Address:

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. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Details: A11015EE-GBLLETIN-BRCLBSUB-CNBRGBLK-

Seal Date: 03/30/2006

-Truss Design Engineer-

James F. Collins Jr.

Florida License Number: 52212

1950 Marley Drive

Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	53541--A1GE		06089187	03/30/06
2	53542--A2		06089174	03/30/06
3	53543--A3		06089175	03/30/06
4	53544--A4		06089176	03/30/06
5	53545--AA1		06089186	03/30/06
6	53546--B1HG (2-PLY)		06089188	03/30/06
7	53547--B2		06089189	03/30/06
8	53548--B3		06089190	03/30/06
9	53549--B4		06089191	03/30/06
10	53550--B5		06089192	03/30/06
11	53551--B6		06089193	03/30/06
12	53552--B7		06089194	03/30/06
13	53553--B8		06089195	03/30/06
14	53554--B9		06089196	03/30/06
15	53555--B10		06089197	03/30/06
16	53556--B11		06089198	03/30/06
17	53557--B12		06089199	03/30/06
18	53558--B13		06089200	03/30/06
19	53559--B14		06089201	03/30/06
20	53560--B15G (2-PLY)		06089220	03/30/06
21	53561--B16		06089202	03/30/06
22	53562--B17		06089203	03/30/06
23	53563--B18		06089177	03/30/06
24	53564--B19		06089178	03/30/06
25	53565--B20		06089179	03/30/06
26	53566--B21		06089204	03/30/06
27	53567--B22HG (2-PLY)		06089205	03/30/06
28	53568--C1GE		06089206	03/30/06
29	53569--C2G (2-PLY)		06089207	03/30/06
30	53570--D1GE		06089208	03/30/06
31	53571--D2G (2-PLY)		06089209	03/30/06
32	53572--JC1		06089210	03/30/06
33	53573--JC3		06089180	03/30/06
34	53574--JC5		06089181	03/30/06
35	53575--JE4		06089182	03/30/06
36	53576--JE7		06089183	03/30/06

#	Ref	Description	Drawing#	Date
37	53577--JE7A		06089184	03/30/06
38	53578--JE7B		06089185	03/30/06
39	53579--JE7G (2-PLY)		06089211	03/30/06
40	53580--JH6		06089212	03/30/06
41	53581--JH10		06089213	03/30/06
42	53582--PB-B1		06089214	03/30/06
43	53583--PB-B2		06089215	03/30/06
44	53584--PB-B3		06089216	03/30/06
45	53585--PB-B4		06089217	03/30/06
46	53586--PB-B5		06089218	03/30/06
47	53587--PB-B6		06089219	03/30/06



Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844

Florida Engineering Certificate of Authorization Number: 567

Page 1 of 1 Document ID: ISVX215-Z0730114457

Truss Fabricator: W.B. Howland

Job Identification: 3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL

Truss Count: 2

Model Code: Florida Building Code 2004

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

Engineering Software: Alpine Software, Version 7.24.

Structural Engineer of Record:

Address:

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. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Seal Date: 03/30/2006

-Truss Design Engineer-

James F. Collins Jr.

Florida License Number: 52212

1950 Marley Drive

Haines City, FL 33844

Revised Trusses

#	Ref	Description	Drawing#	Date
1	53559--B14		06089201	03/30/06
2	53569--C2G (2-PLY)		06089207	03/30/06

ALPINE



Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	webs	2x4	SP	#2	N

1110 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.

Gable end supports 8" max rake overhang.

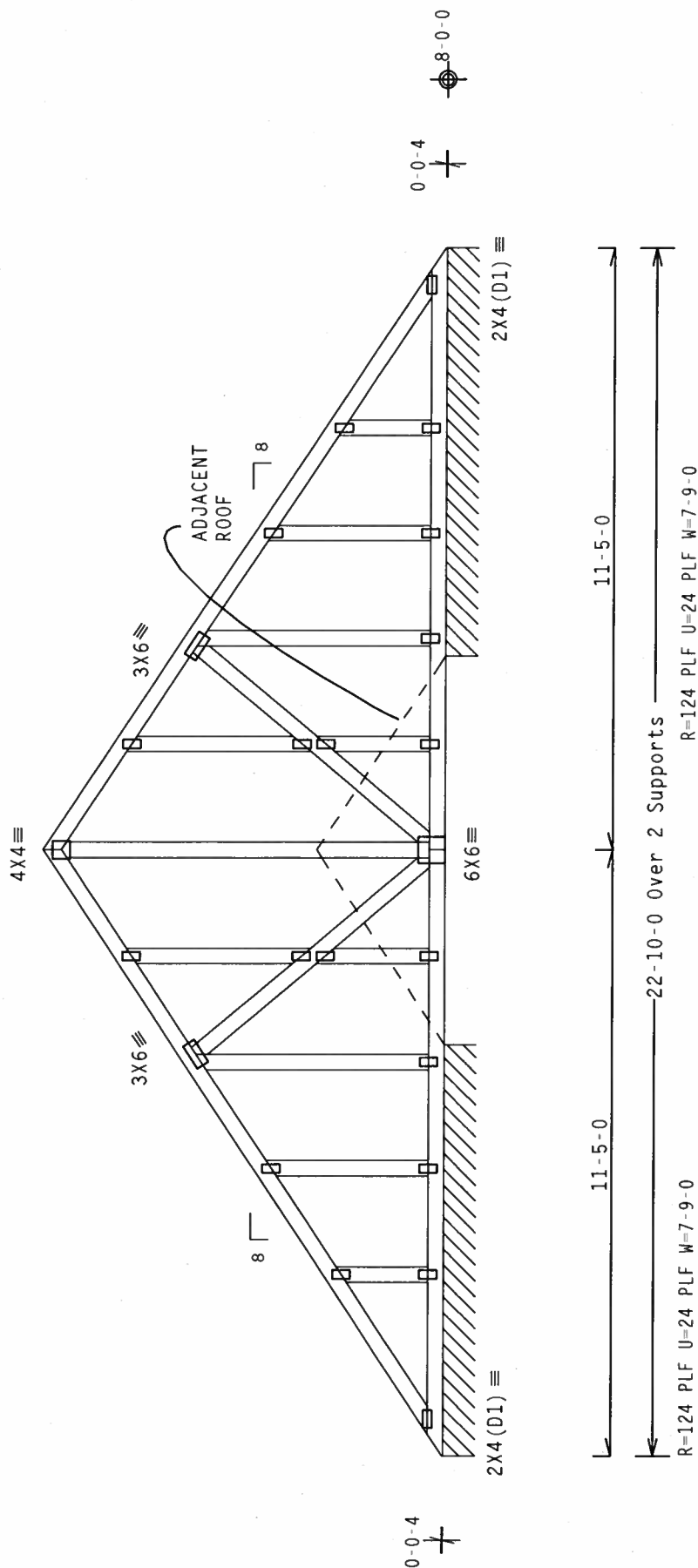
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 7-7-9.

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



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R

QTY:1 FL/-/5/-/-/R/- Scale =.3125"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN INFORMATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51-1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 S. D'ONOFIO DR., SUITE 200, MADISON, WI 53719), AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO TRUSS FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

TC LL	20.0 PSF	REF R215-- 53541
TC DL	10.0 PSF	DATE 03/30/06



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # S67

FL Certificate of Authorization # 567
Haines City, FL 33844

[illegible]

Mar 30 '66

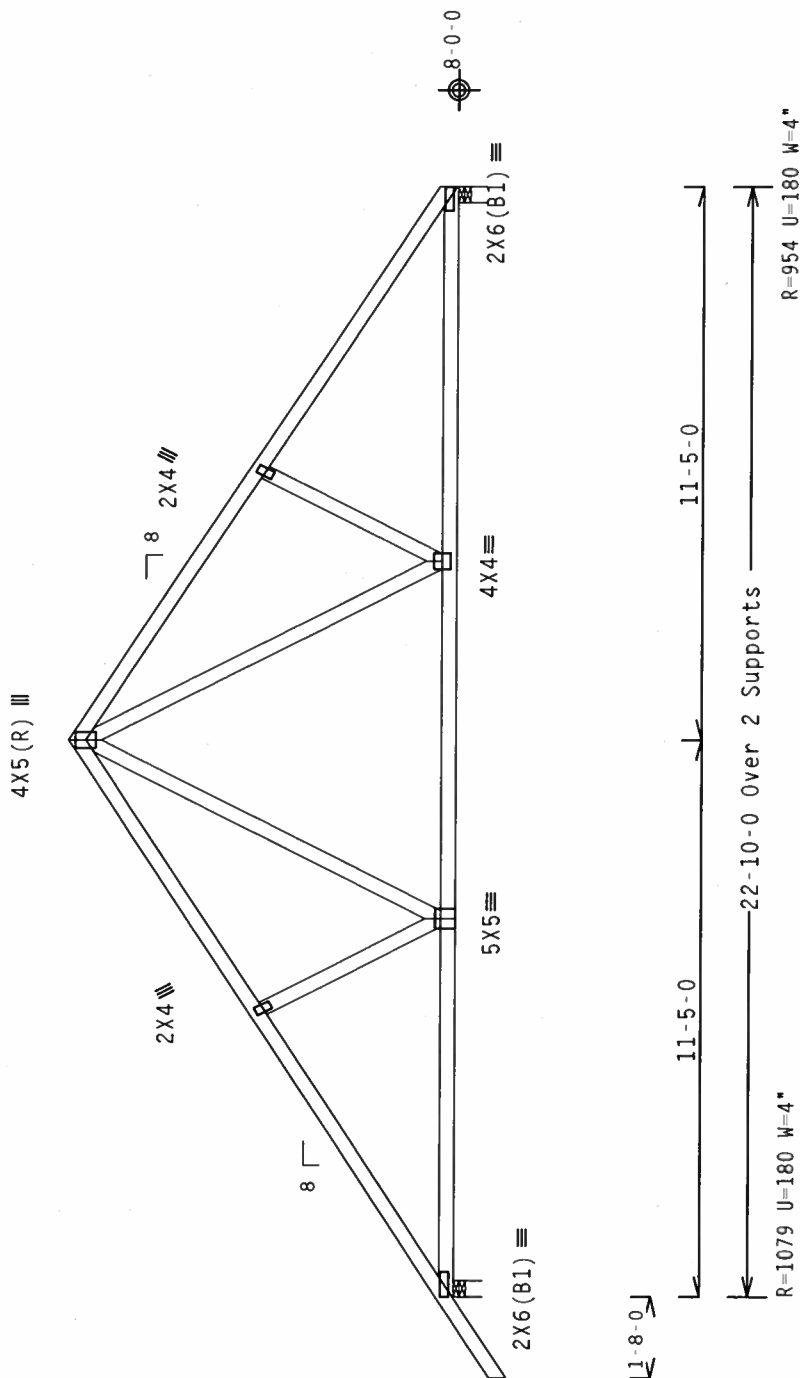
Mar 30 '66

Top chord	2x4	SP	#2 N
Bot chord	2x4	SP	#2 N
webs	2x4	SP	#2 N

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/360 live and L/240 total load.

The overall height of this truss excluding overhang is 7-11-13.



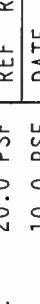
Design Crit: TPI-2002(STD)/FBC

PLT.TYP. Wave\R

$$Cq/RT=1.00(1.25)/10(0) \quad 7$$

OTY:4 EI/-/5/-/-/R/-

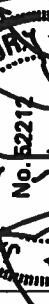
Scale = .25"/Ft.



Alpine Engineered Products, Inc.
1930 Marney Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-033 (BUILDING COMPONENT SAFETY INFORMATION, TRUSS PLATE INSTITUTE, 583 D'ONOFIO DRIVE, SUITE 200, MADISON, MI 53719), AND NITCA (WOOD TRUSS COUNCIL OF AMERICA, 600 HILBUSH AVE., MADISON, MI 53719), FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** *TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE STRUCTURE OR BUILDING FROM THE TRUSSES 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./H./S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED AS THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSSES COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



REF	R215 --	53543	TC LL	20.0	PSF
DATE	03/30/06		TC DL	10.0	PSF
DRW	HCUSR215	06089175	BC DL	10.0	PSF
HC-ENG RA/WHK	*		BC LL	0.0	PSF
SEQN-	114462		TOT. LD.	40.0	PSF
FROM	CDM		DUR. FAC.	1.25	
JREF-	1SVX215	207	SPACING	24.0"	

Mar 30 2006

Top chord	2x4	SP	#2 N
Bot chord	2x4	SP	#2 N
Web	2x4	SP	#2 N

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.

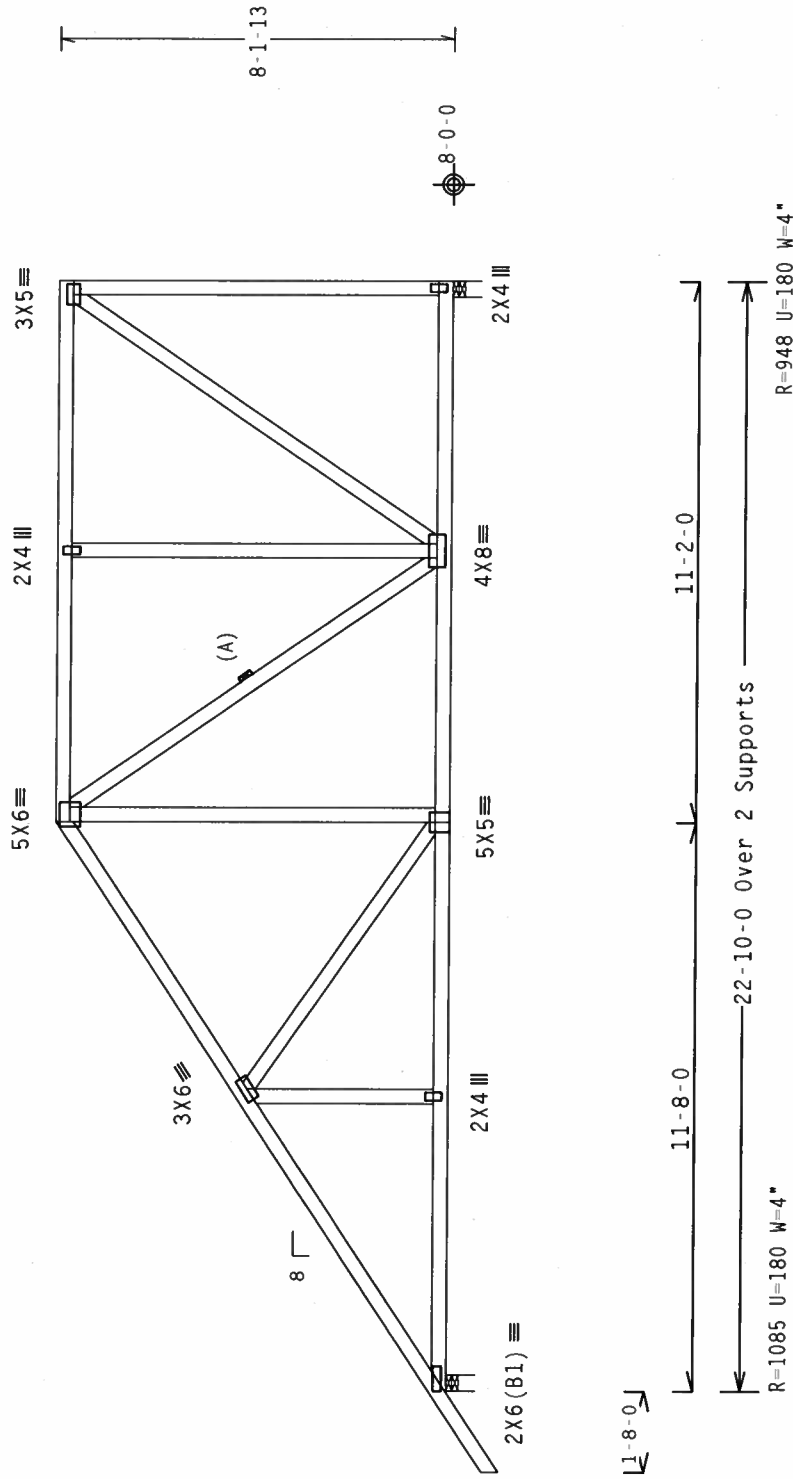
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Plates sized for a minimum of 3.00 sq.in./piece.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 8-1-13.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R

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

E11-151-1-181-

Scale = .25"/Ft.

****WARNING** TRUSSES REQUIRE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.**

REFER TO BCS 1.03 (BUILDING COMPONENT SAFETY INFORMATION).

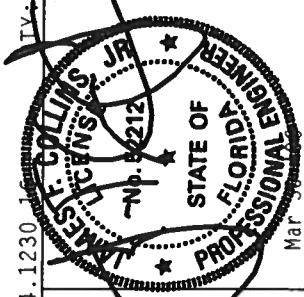
D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF NORTH AMERICA, INC., P.O. BOX 680, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE SPECIFIED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERTY ATTACHED RIGID CEILING.

****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, SUPPLIER, INC., BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: DESIGN IN CONFORMANCE WITH THE FOLLOWING CHIPPING, INSTALLATION REQUIREMENTS AND SPECIFICATIONS: ALL PLATES SHALL BE MADE OF STEEL OR ALUMINUM CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPANNING) AND MECHANICAL CONNECTIONS. ALL PLATES SHALL BE MADE OF 2018/16GGA (W 4X21/2) ASTM A453 GRADE 409/16A PLATES TO EACH FACE OF TRUSS AND BRACE MEMBERS LOCATED ON THIS DESIGN. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF PP11 2002 SECTIONS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE BUILDING DESIGNER PER AMEX/PP1 1 SEC. 2



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

FL Certificate of Authorization # 567



ITEM	QTY	UNIT	SCALE	PRICE	TOTAL
TC LL	20.0	PSF	REF R215--	53544	
TC DL	10.0	PSF	DATE 03/30/06		
BC DL	10.0	PSF	DRW HCURS215	06089176	
BC LL	0.0	PSF	HC-ENG RA/WHK	*	
TOT.LD.	40.0	PSF	SEON-	114466	
DUR.FAC.	1.25		FROM CDM		
SPACING	24.0"		JREF- 1SVX215_Z07		

(3347-Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL -- AA1)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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.

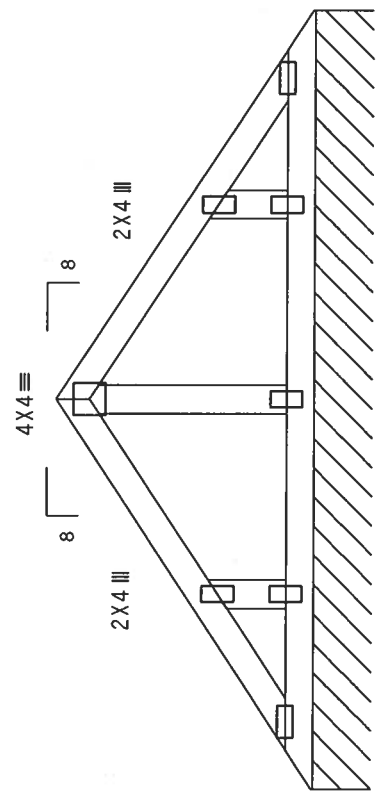
Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers. Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements. Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 2-8-4.

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



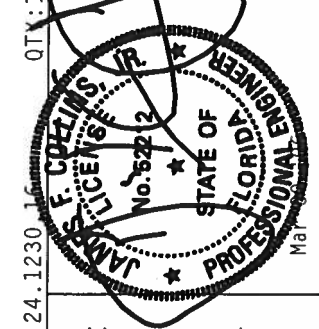
2X4 (D1) = 2X4 2X4 2X4 (D1) =

4-0-0 4-0-0 8-0-0 Over Continuous Support
R-84 PLF U=61 PLF W=8-0-0

Design Crit: TPI-2002 (STD)/FBC

Scale = .5" / Ft.

REF	R215--	53545
DATE	03/30/06	
DRW	HCUSR215	06089186
HC-ENG	RA/WHK	
SEQN	114451	
FROM	CDM	
JREF	1SVX215_Z07	



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND MICA (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 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 2018/16GA (N-H/SX) ASTM A653 GRADE 40/60 (N, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DRAWING NOTES: (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

Top chord 2x6 SP #2 N
Bot chord 2x6 SP #2 N
Webs 2x4 SP #2 N

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.

Max JT VERT DEFL: LL: 0.14" DL: 0.16" recommended camber 1/4"
Deflection meets L/360 live and L/240 total load.

Truss must be installed as shown with top chord up.

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

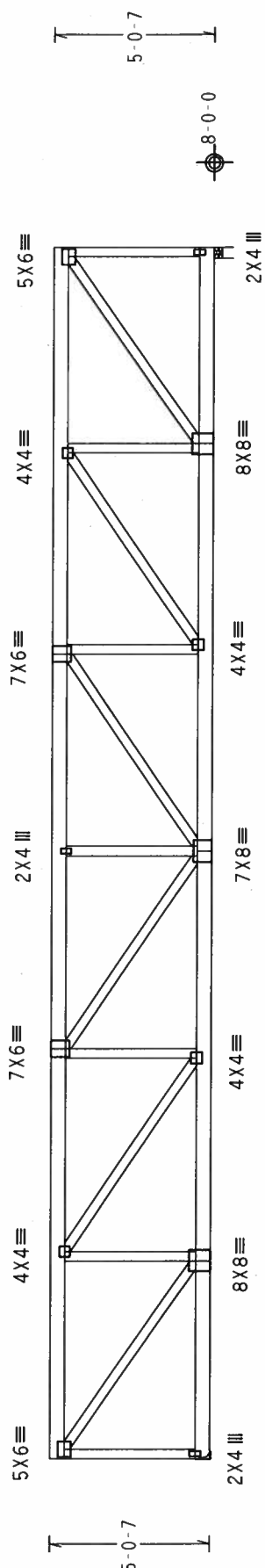
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Box or Gun (0.128"x3", 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.

Girder supports 7'-0" span to TC/BC split one face.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 5'-0"-7".



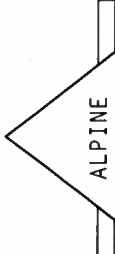
37'-10" Over 2 Supports

R=2782 U=217 H=Simpson HGUS26-2
w/ (6) 16d, 0.162"x2.5" nails in Truss
w/ (20) 16d, 0.162"x2.5" nails in Girder
Girder is (2)2x6 min. So.Pine

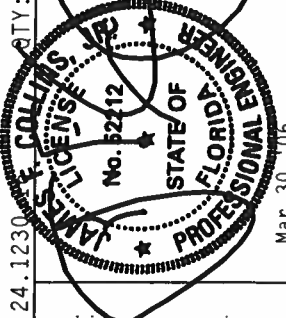
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave/R Cq/RT=1.00(1.25)/10(0) 7.24.1230 FL/-5/-/-R/- Scale =.1875"/Ft.

R-2782 U=217 H=Simpson HGUS26-2 w/ (6) 16d, 0.162"x2.5" nails in Truss w/ (20) 16d, 0.162"x2.5" nails in Girder Girder is (2)2x6 min. So.Pine		Design Crit: TPI-2002(STD)/FBC		Cq/RT=1.00(1.25)/10(0) 7.24.1230		FL/-5/-/-R/-		REF R215-- 53546
PLT TYP. Wave/R		R-2782 U=217 H=		Simpson HGUS26-2		w/ (6) 16d, 0.162"x2.5" nails in Truss		DATE 03/30/06
w/ (20) 16d, 0.162"x2.5" nails in Girder		Girder is (2)2x6 min. So.Pine		Design Crit: TPI-2002(STD)/FBC		Cq/RT=1.00(1.25)/10(0) 7.24.1230		DRW HCUSR215 06089188
Scale =.1875"/Ft.		REF R215-- 53546		DATE 03/30/06		HC-ENG RA/WHK		SEQN- 114551
FROM CDM		JREF- 1SVX215_Z07		SPACING 24.0"		DUR.FAC. 1.25		



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



JAMES E. COLLINS
No. 32212
STATE OF FLORIDA
PROFESSIONAL ENGINEER

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (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 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. DESIGNER'S RESPONSIBILITY FOR THE PROVISIONS OF THIS DESIGN SPEC. BY AFRPA) AND TPI: ALPINE ENGINEERED PRODUCTS, INC. SHALL BE PER ANNEX A3 OF TPI-2002 SEC. 3.1. UNLESS OTHERWISE LOCATED 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.

Top chord	2x4	SP	#2 N
Bot chord	2x4	SP	#2 N
Web	2x4	SP	#2 N

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.

Max JT VERT DEFL: LL: 0.15" DL: 0.15" recommended camber 1/4"

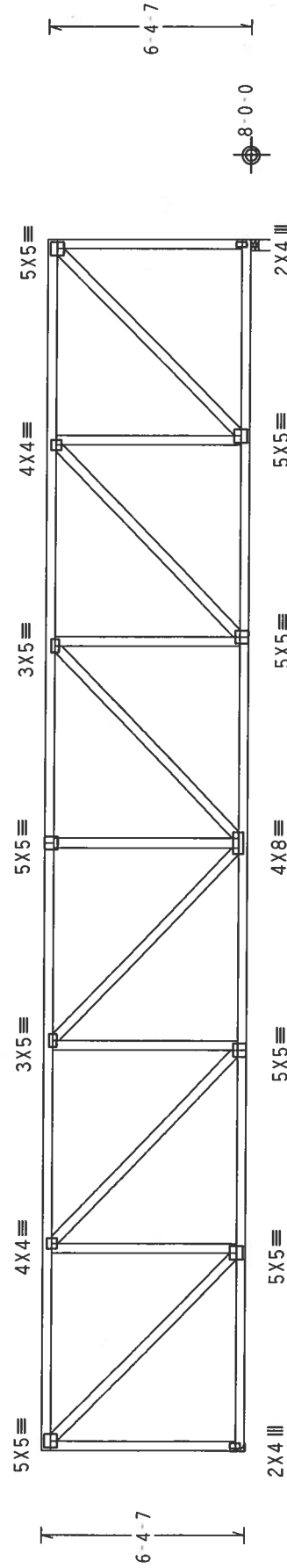
Truss must be installed as shown with top chord up.

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 6'-4"-7'.

Provide for complete drainage of roof.

Plates sized for a minimum of 3.00 sq.in./piece.



-37-10-0 Over 2 Supports

R=1513 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2X6 min. So.Pine Deck is 2X6 min.

R=1513 U=180 W=4"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R

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

7.24.1230 15

13/15/18/19

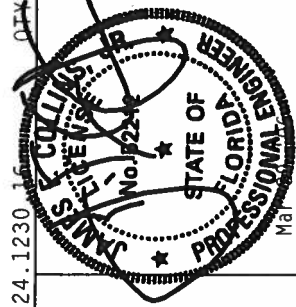
Scale = .1875"/Ft.



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

WARNING TRUSSES REQUIRE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-93 (BUILDING COMPONENTS) SPECIFICATIONS, SUPPLIED BY IPT (CONCRETE INSTITUTE, 563 D'ORFORD DR., SUITE 200, MADISON, WI 53719) AND WOODWORKING TRUSS ASSOCIATION (WTA, 606 E. CENTER ST., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE SAFELY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CEILING.

****IMPORTANT****FURNISH A COPY OF THIS 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 PROVISIONS OF NDS (NATIONAL DESIGN CODE), (BY AFAPA) AND TPI. ALPINE PLATED STEEL PLATES ARE MADE OF 20/17/16GA (.0475X) ASTM A585 GRADE 40/60 (W. K/S-S) GALV. STEEL. ALL PLATED STEEL PLATES HAVE APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN CODE), (BY AFAPA) AND TPI. AN INSPECTION OF PLATES FOLLOWED BY VISUAL INSPECTION LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS ON THIS BUILDING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0	PSF	REF	R215--	53547
TC DL	10.0	PSF	DATE	03/30/06	
BC DL	10.0	PSF	DRW	HCUSR215	06089189
BC LL	0.0	PSF	HC-ENG	RA/WHK	
TOT.LD.	40.0	PSF	SEQN-	114557	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1SVX215_Z07	

(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - B4)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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.

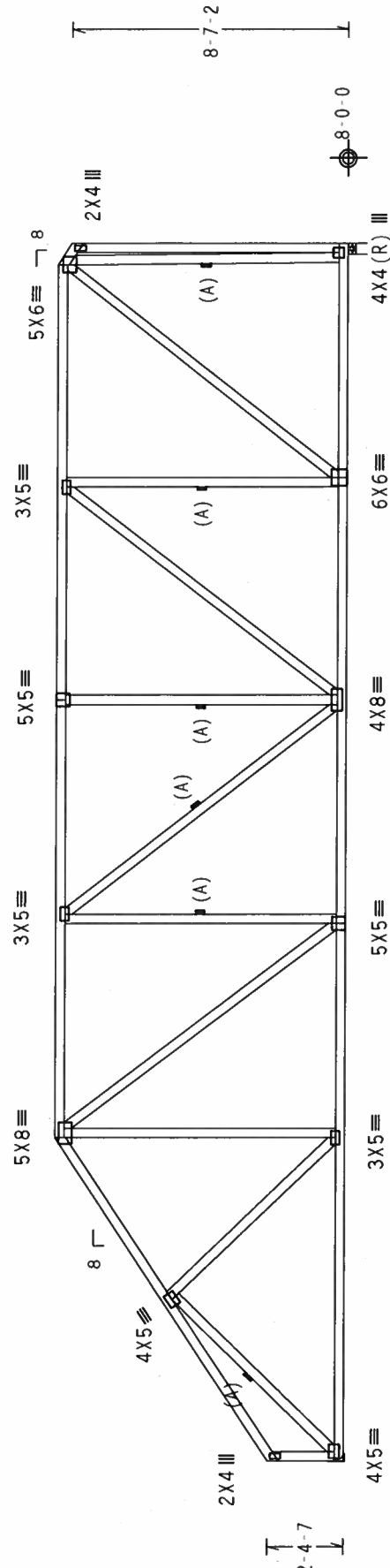
Deflection meets L/360 live and L/240 total load.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 9'-0"-7".

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

Plates sized for a minimum of 3.00 sq.in./piece.



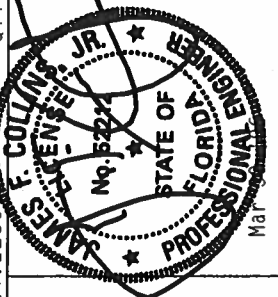
10'-0"-0" 27'-2"-0" 8'-7"-2" 0'-8"-0"

R=1590 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2X6 min. So.Pine

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave/R
Cq/RT=1.00(1.25)/10(0) 7.24.1230 16
QTY:1 FL/-/5/-/R/-

Scale = .1875"/Ft.



TC LL	20.0 PSF	REF	R215--	53549
TC DL	10.0 PSF	DATE	03/30/06	
BC DL	10.0 PSF	DRW	HCUSR215	06089191
BC LL	0.0 PSF	HC-ENG	RA/WHK	
TOT.LD.	40.0 PSF	SEQN-	114567	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1SVX215	Z07

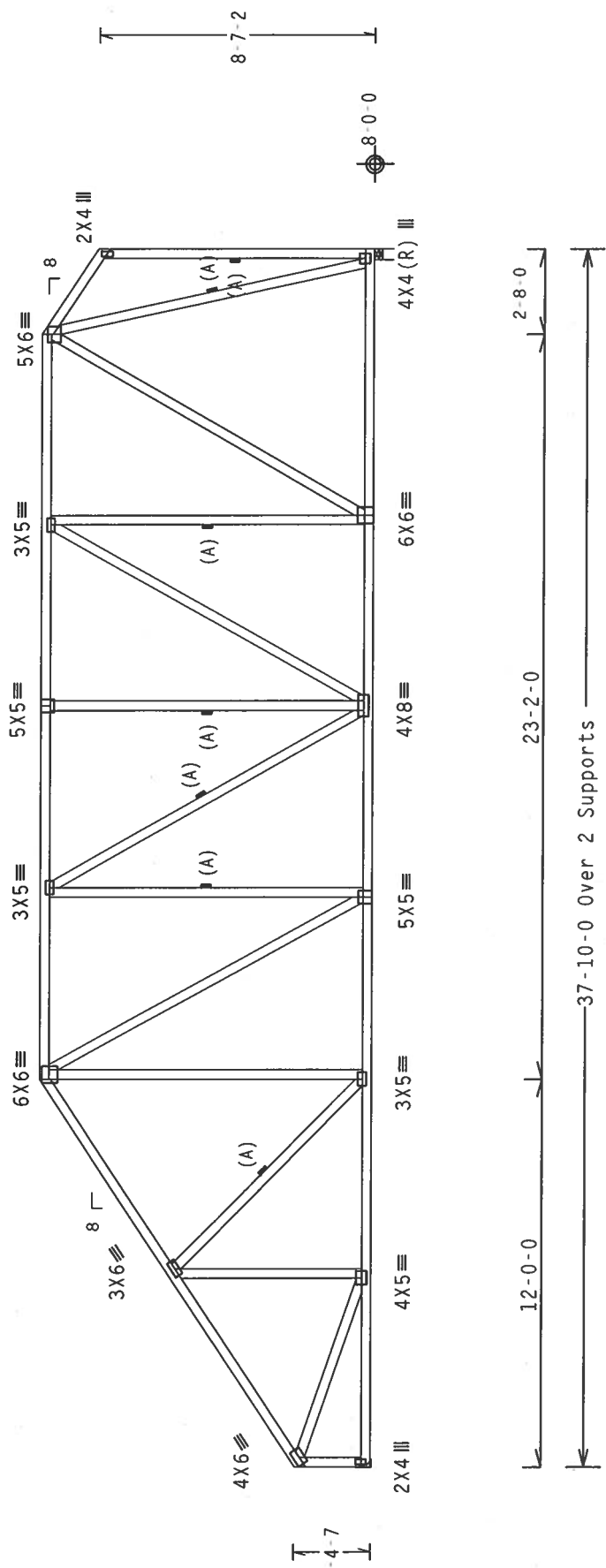
ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE BUILDING RESEARCH BOARD, 1300 ENTERPRISE, 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 NOS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2019/16GA (M-H/S/K) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES PLACES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

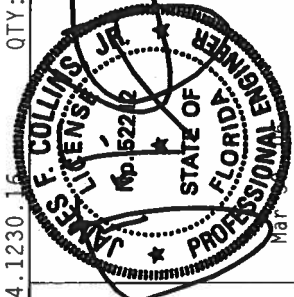
Deflection meets L/360 live and L/240 total load.
The overall height of this truss excluding overhang is 10'-4"-7".
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
(A) Continuous lateral bracing equally spaced on member.
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.
Plates sized for a minimum of 3.00 sq.in./piece.



PLT TYP. Wave/R
R=1590 U=180 H-Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2X6 min. So.Pine
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.16
QTY:1 FL/-/5/-/R/-
Scale = .1875"/Ft.



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



Professional Engineer
F. COLLINS, JR.
No. 16226
STATE OF FLORIDA

REF	DATE	DRW	HC-ENG	SEQN	FROM	JREF							
R215--	03/30/06	HCUSR215	06089192	114572	CDM	1SVX215_Z07							
TC LL	20.0 PSF	TC DL	10.0 PSF	BC DL	10.0 PSF	BC LL	0.0 PSF	TOT.LD.	40.0 PSF	DUR.FAC.	1.25	SPACING	24.0"

Scale = .1875"/Ft.

(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - B6)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

110 mph wind, 15.04 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.

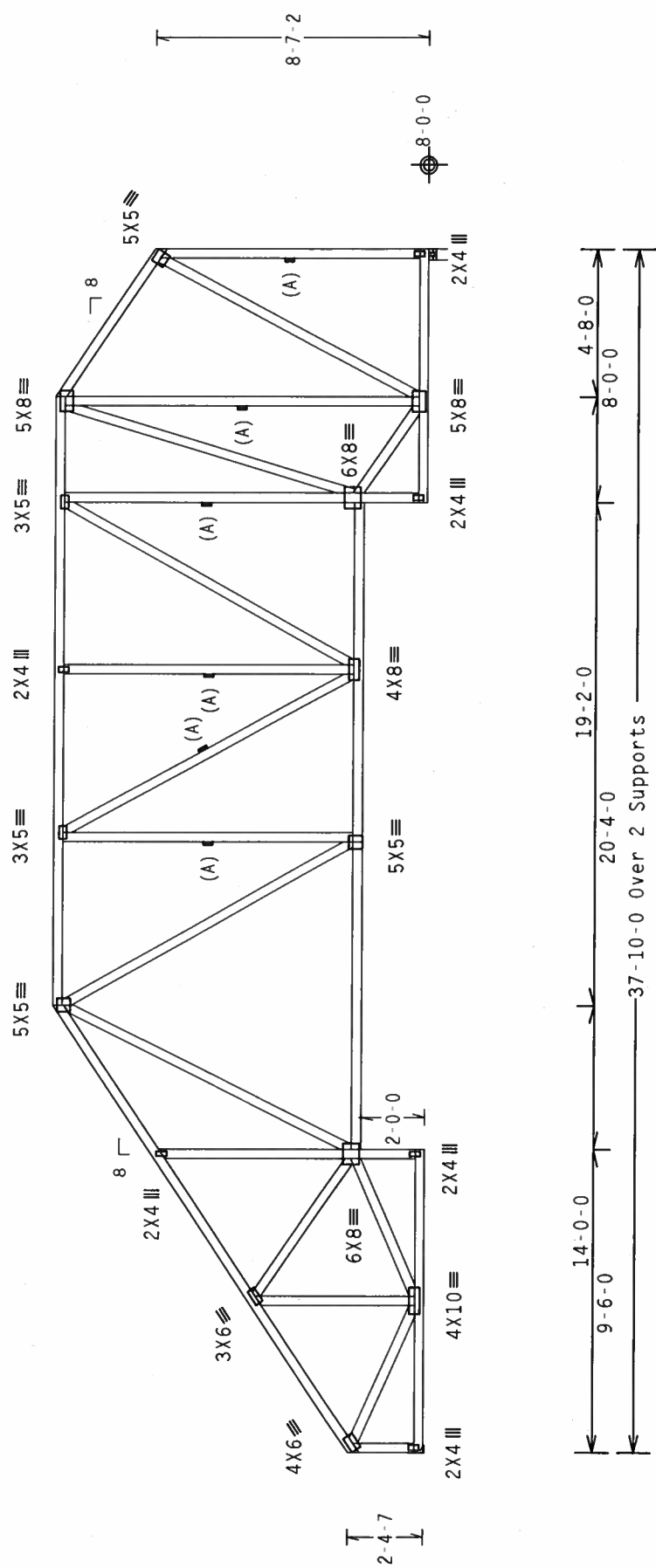
Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 11'-8".

(A) Continuous lateral bracing equally spaced on member.

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

Plates sized for a minimum of 3.00 sq.in./piece.



R=1590 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2X6 min. So.Pine

Design Crit: TPI-2002(STD)/FBC

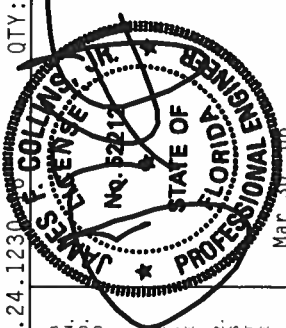
PLT TYP. Wave\R QTY:1 FL/-/5/-/-/R/- Scale = .1875"/Ft.

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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 AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (N-H/S/K) ASTM A653 GRADE 40/60 (N. K/H-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES SHALL BE PER AMERICAN AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL 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 Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567



Mar 30 2006

REF	R215 --	53551
DATE	03/30/06	
DRW	HCUSR215	06089193
HC-ENG	RA/WHK	
SEQN-	114577	
FROM	CDM	
JREF-	1SVX215_Z07	

Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	webs	2x4	SP	#2	N

110 mph wind. 15.14 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.

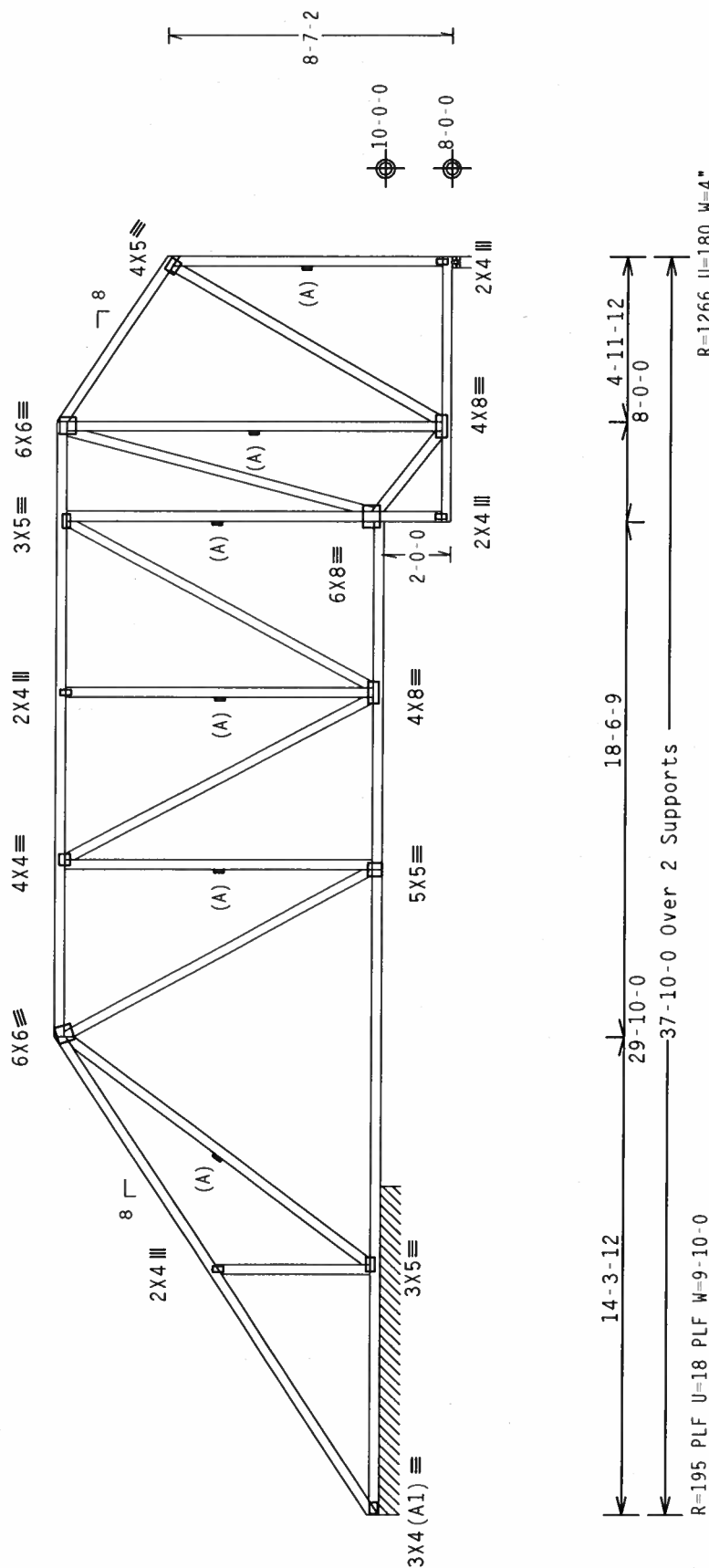
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Plates sized for a minimum of 3.00 sq.in./piece.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 9-10-15.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R

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

QTY.17 EL 1-151-1-1P/-

Scale = .1875"/Ft.

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[illegible]

TC LL	20.0 PSF	REF	R215--	53553
TC DL	10.0 PSF	DATE	03/30/06	
BC DL	10.0 PSF	DRW	HCUSR215	06089195
BC LL	0.0 PSF	HC-ENG	RA/WHK	
TOT.LD.	40.0 PSF	SEQN-	114663	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1SVX215	707

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1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Haines City, FL 33844
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Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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

(A) Continuous lateral bracing equally spaced on member.

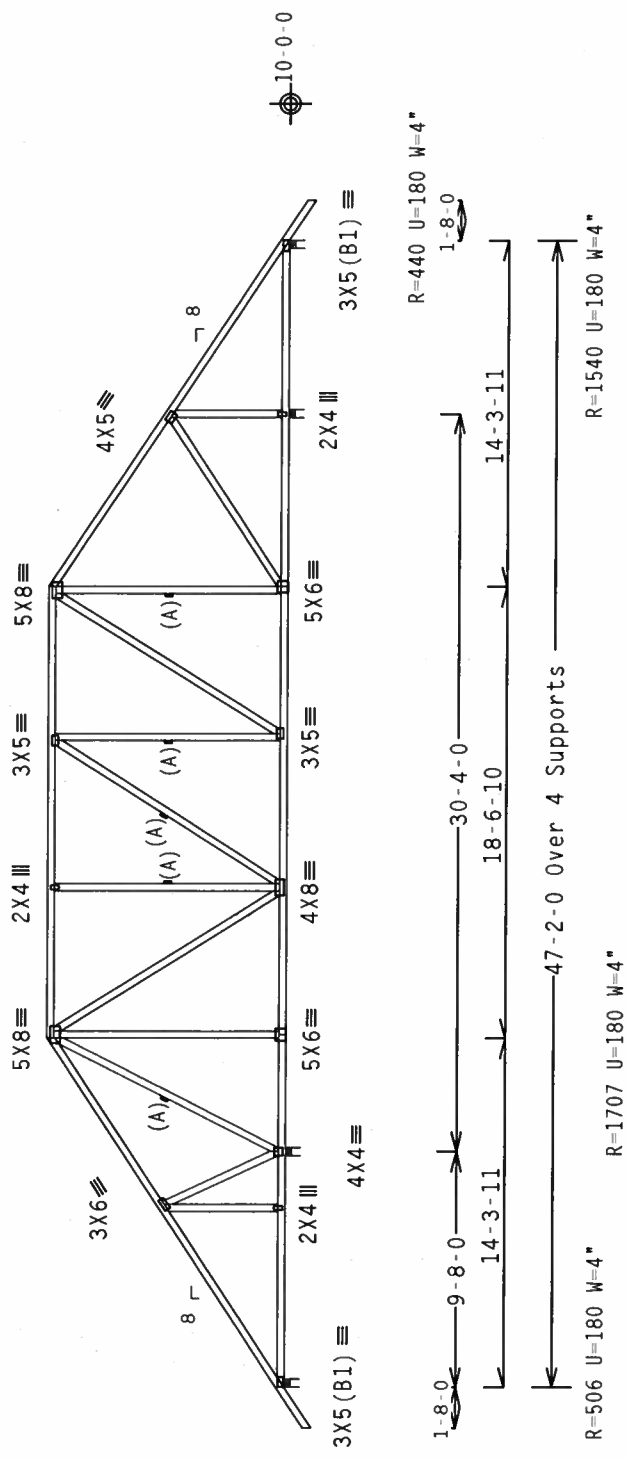
Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

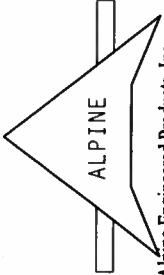
The overall height of this truss excluding overhang is 9-10-15.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R	QTY:3	FL/-/5/-/-/R/-	Scale =.125"/Ft.
 Alpine Engineering Products, Inc. 1950 Mary Drive Haines City, FL 33844 FL Certificate of Authorization # 567	TC LL	20.0 PSF	REF R215-- 53554
	IC DL	10.0 PSF	DATE 03/30/06
	BC DL	10.0 PSF	DRW HCUSR215 06089196
	BC LL	0.0 PSF	HC-ENG RA/WHK
	TOT.LD.	40.0 PSF	SEQN- 114659
	DUR.FAC.	1.25	FROM CDM
SPACING		24.0"	JREF- 1SVX215_Z07

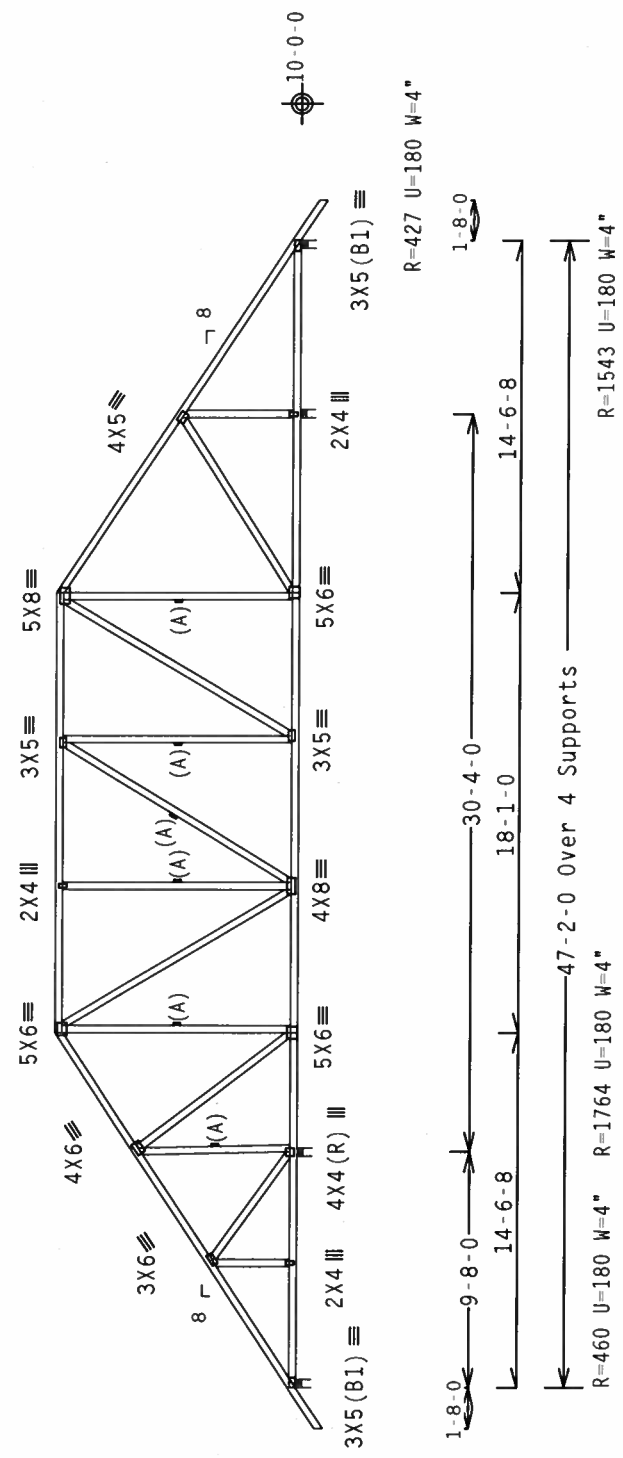
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

(A) Continuous lateral bracing equally spaced on member.
Deflection meets L/360 live and L/240 total load.
Plates sized for a minimum of 3.00 sq.in./piece.
The overall height of this truss excluding overhang is 10-0-13.

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

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



PLT TYP. Wave|R

ALPINE

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

Design Crit: TPI-2002 (STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.24.1230

Scale = .125"/Ft.

REF	R215--	53555
DATE	03/30/06	
DRW	HCUSR215 06089197	
HC-ENG	RA/WHK	
SEQN-	114655	
FROM	CDM	
JREF-	1SVX215_Z07	

QTY: 1 FL/-/5/-/R/-

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

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 500 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (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 A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 2018/16GA (4-H/57K) ASTM A653 GRADE 40/60 (40/60 (40/60) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWING THE INSTRUCTIONS OF THE TPI. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE DESIGN COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

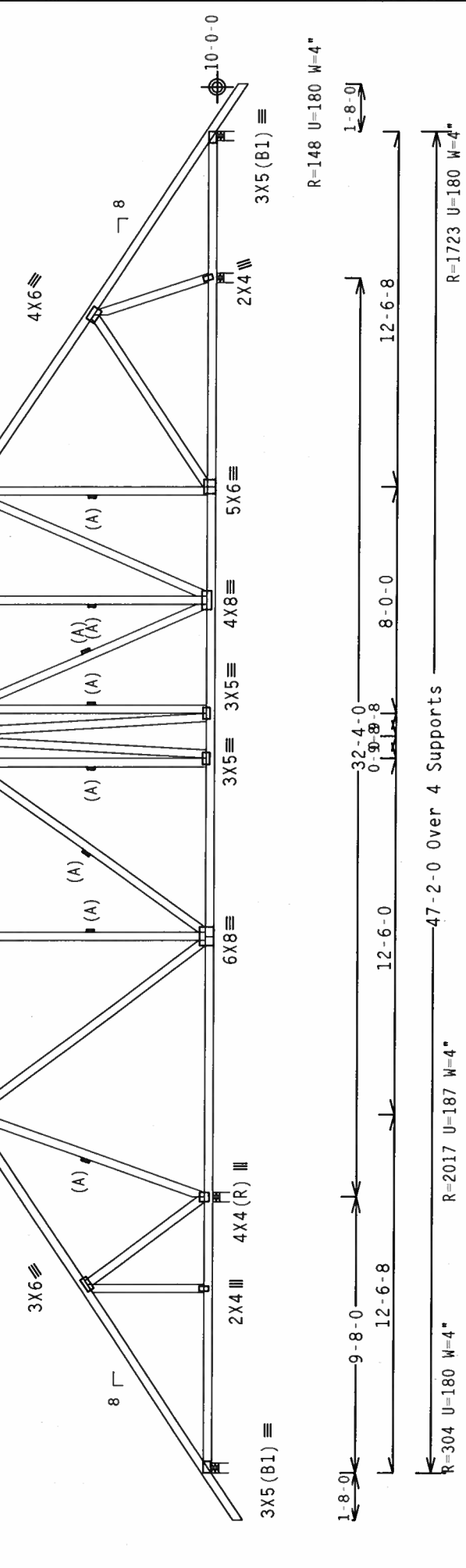
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

(A) Continuous lateral bracing equally spaced on member.
Deflection meets L/360 live and L/240 total load.
Plates sized for a minimum of 3.00 sq.in./piece.
The overall height of this truss excluding overhang is 9-3-2.

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

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Design Crit: TPI-2002 (STD) /FBC
Cq/RT=1.00(1.25)/10(0) 7-24-1230

PLT TYP. Wave\R

ALPINE

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

FL Certificate of Authorization # 567

Scale = .1875" / Ft.

REF	DATE	DRW	HC-ENG	SEQN	FROM	JREF
R215--	03/30/06	HCUSR215	06089198	114651	CDM	1SVX215_Z07

QTY: FL / 5 / - / R / -

FL	LL	PSF
TC	LL	20.0
TC	DL	10.0
BC	DL	10.0
BC	LL	0.0
TOT.	LD.	40.0

DUR. FAC. 1.25
SPACING 24.0"

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 AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEA 3 OF TPI 2002 SECTION 10.4.2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

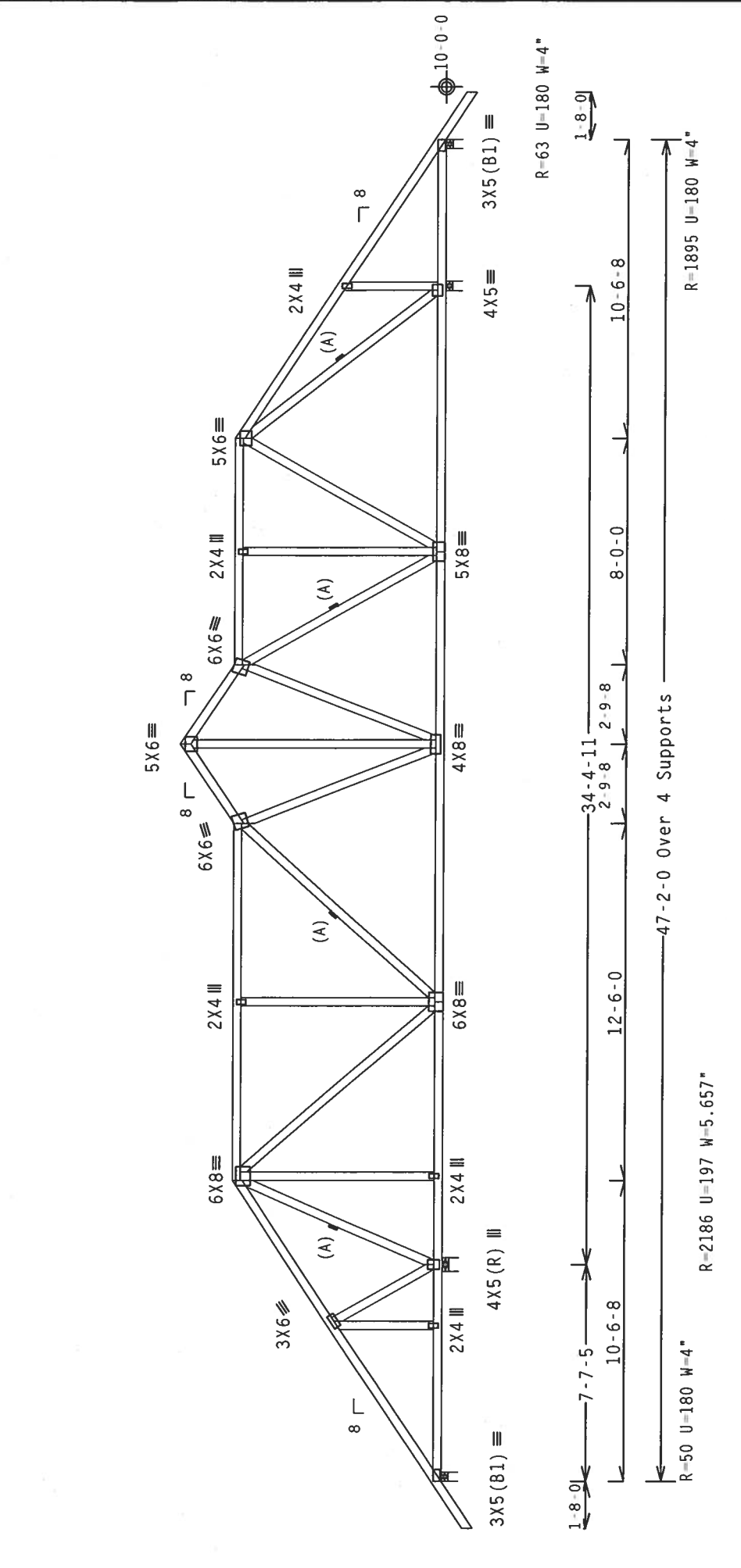
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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

(A) Continuous lateral bracing equally spaced on member.
Deflection meets L/360 live and L/240 total load.
Plates sized for a minimum of 3.00 sq.in./piece.
The overall height of this truss excluding overhang is 9'-3".

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



PLT TYP. Wave/R

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7-24.1230

Scale = .1875"/Ft.

QTY:1	FL/-/5/-/R/-	TC LL	20.0 PSF	REF R215-- 53557
		TC DL	10.0 PSF	DATE 03/30/06
		BC DL	10.0 PSF	DRW HCUSR215 06089199
		BC LL	0.0 PSF	HC-ENG RA/WHK
		TOT.LD.	40.0 PSF	SEQN- 114647
		DUR.FAC.	1.25	FROM CDM
		SPACING	24.0"	JREF- 1SVX215_Z07

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

Professional Engineer
No. 62472
STATE OF FLORIDA
Mar 30 06

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 AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/5/K) ASTM A653 GRADE 40/60 (W. K/H.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-Z. DRAWING INDICATES ACCEPTABLE PROFESSIONAL ENGINEER'S RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	webs	2x4	SP	#2	N

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

(A) Continuous lateral bracing equally spaced on member.

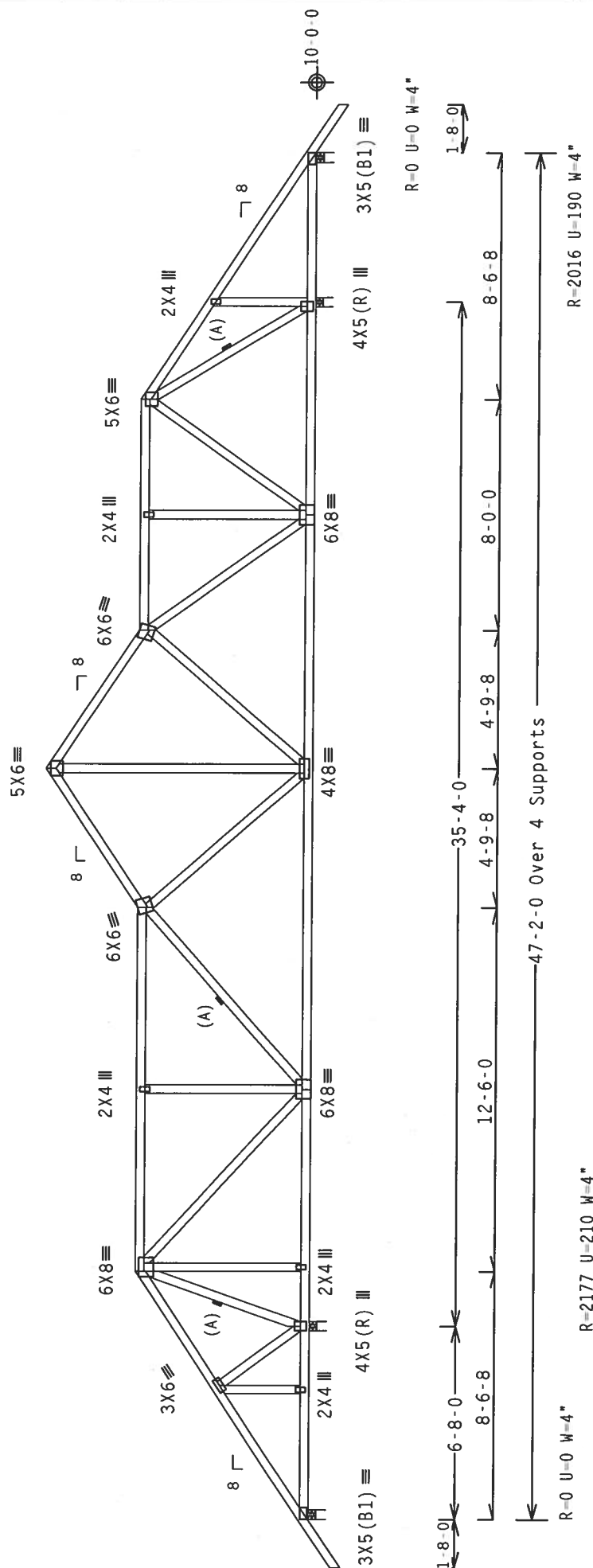
Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq. in./piece.

The overall height of this truss excluding overhang is 9-3-2.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R

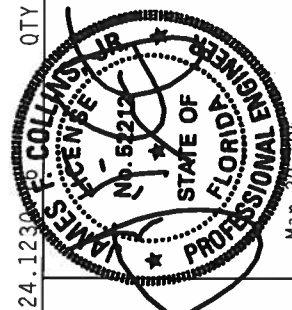
$$Ca/RT=1.00(1.25)/10(0)$$

QTY:1 FL/-/5/-/-/R/-

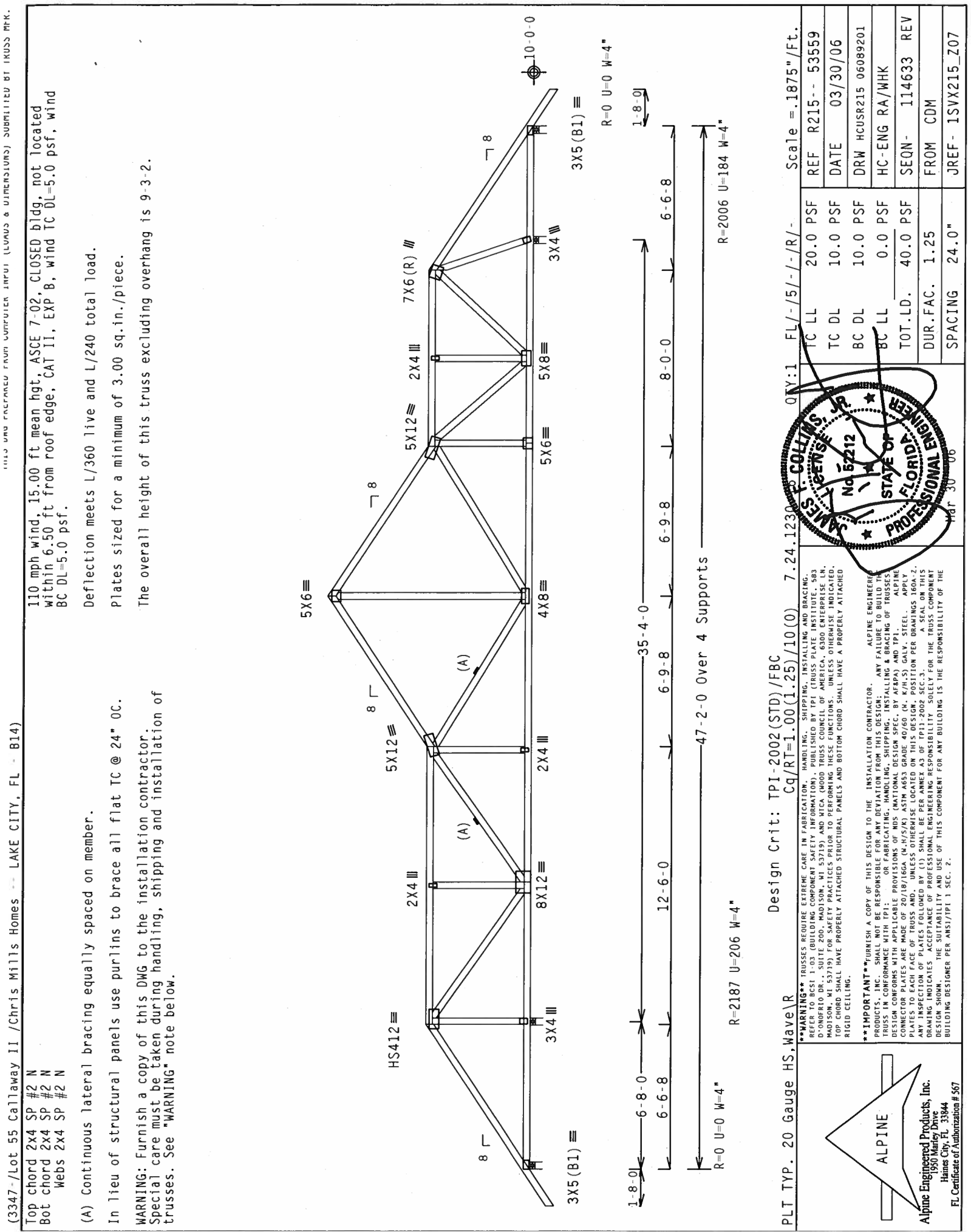
Scale = .1875" / Ft.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING CODES AND SPECIFICATIONS), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFIO RD., SUITE 200, MADISON, WI 53719) AND THE NATIONAL COUNCIL OF AEROSPACE INDUSTRIES, INC. (NACI, 1000 N. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE OPERATIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

*****IMPORTANT***** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE DESIGN IN ACCORDANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, CONNECTOR PLATES ARE MADE OF 2018 TENSILE STRENGTH 40600 (M. KPMI) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE SPECIFIED, POSITION PER DRAWING 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMNEX A3 OF 2002 SEC. 3 FOR THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING SUPERVISION FOR THIS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMNEX/TPI 1 SEC. 2.



Haines City, FL 33844
FL Certificate of Authorization # 567



(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - B14)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

(A) Continuous lateral bracing equally spaced on member.
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

WARNING: Furnish a copy of this DWG to the installation contractor.
Special care must be taken during handling, shipping and installation of
trusses. See "WARNING" note below.

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

Deflection meets L/360 live and L/240 total load.
Plates sized for a minimum of 3.00 sq.in./piece.
The overall height of this truss excluding overhang is 9-3-2.

PLT TYP. 20 Gauge HS.Wave/R

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

Scale = .1875"/Ft.

REF R215-- 53559
DATE 03/30/06
DRW HCUSR215 06089201
HC-ENG RA/WHK
SEQN- 114633 REV
FROM CDM
JREF- 1SVX215_Z07

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

PLT TYP. 20 Gauge HS.Wave/R

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

Scale = .1875"/Ft.

REF R215-- 53559
DATE 03/30/06
DRW HCUSR215 06089201
HC-ENG RA/WHK
SEQN- 114633 REV
FROM CDM
JREF- 1SVX215_Z07

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

PLT TYP. 20 Gauge HS.Wave/R

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

Scale = .1875"/Ft.

REF R215-- 53559
DATE 03/30/06
DRW HCUSR215 06089201
HC-ENG RA/WHK
SEQN- 114633 REV
FROM CDM
JREF- 1SVX215_Z07

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

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Box or Gun (0.128"x3", 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.

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

Top chord 2x4 SP #2 N :T2, T5 2x6 SP #2 N:

Bot chord 2x6 SP #2 N

Webs 2x4 SP #2 N

SPECIAL LOADS

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

TC - From 64 PLF at 1.67 to 64 PLF at 48.83

BC - From 5 PLF at 1.67 to 5 PLF at 0.00

BC - From 20 PLF at 0.00 to 20 PLF at 47.17

BC - From 5 PLF at 47.17 to 5 PLF at 48.83

TC - 269 LB Conc. Load at 4.42, 42.75

TC - 110 LB Conc. Load at 6.48, 8.48

BC - 97 LB Conc. Load at 4.42, 42.75

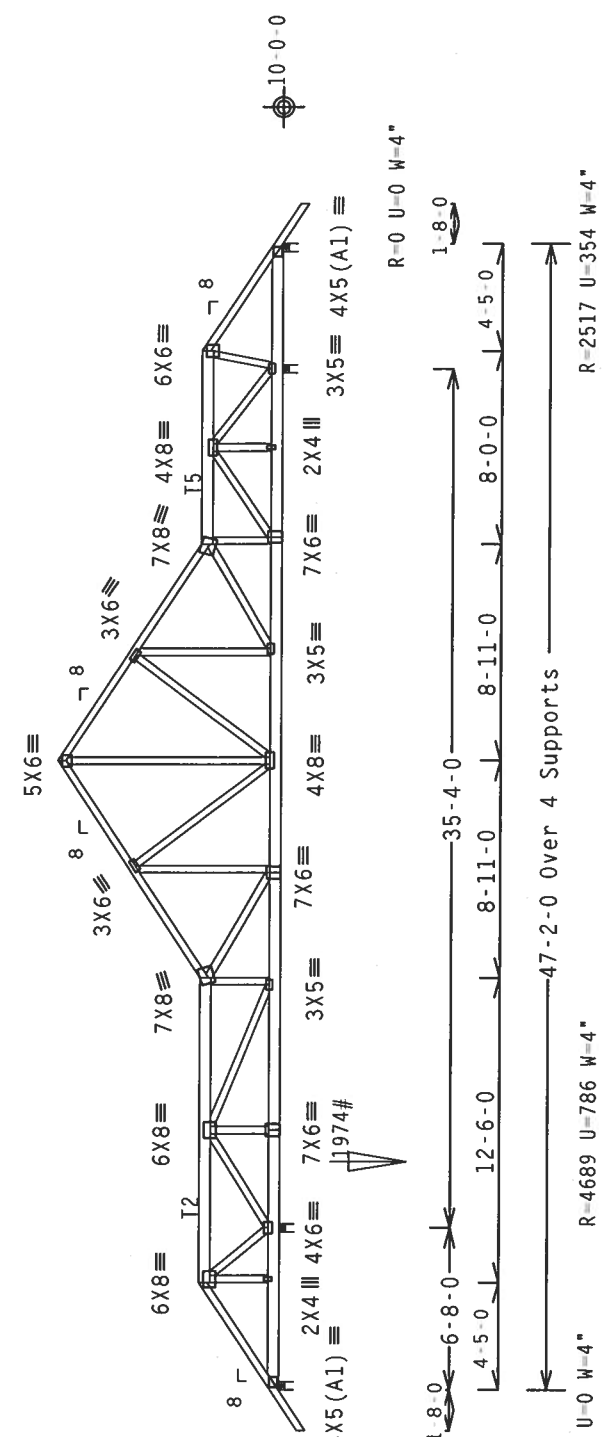
BC - 43 LB Conc. Load at 6.48, 8.48

BC - 1974 LB Conc. Load at 9.38

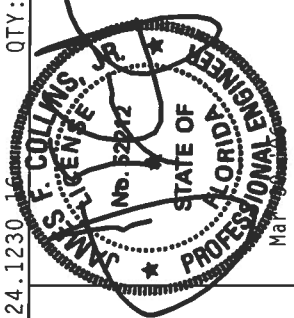
Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 9-3-2.



PLT TYP. Wave\R	Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0)	7.24.1230 16	QTY:1	FL/-/5/-/-/R/-	Scale =.125"/Ft.
			TC LL	20.0 PSF	REF R215-- 53560
			TC DL	10.0 PSF	DATE 03/30/06
			BC DL	10.0 PSF	DRW HCUSR215 06089220
			BC LL	0.0 PSF	HC-ENG RA/WHK
			TOT.LD.	40.0 PSF	SEQN- 114623
			DUR.FAC.	1.25	FROM CDM
			SPACING	24.0"	JREF- 1SVX215_Z07



ALPINE

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

FL Certificate of Authorization # 567

Top chord 2x4 SP #2 Dense :T2, T3 2x4 SP #2 N:
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

110 mph wind, 16.11 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC BL=5.0 psf, wind BC DL=5.0 psf.

Max JT VERT DEFL: LL: 0.18" DL: 0.19" recommended camber 3/8"

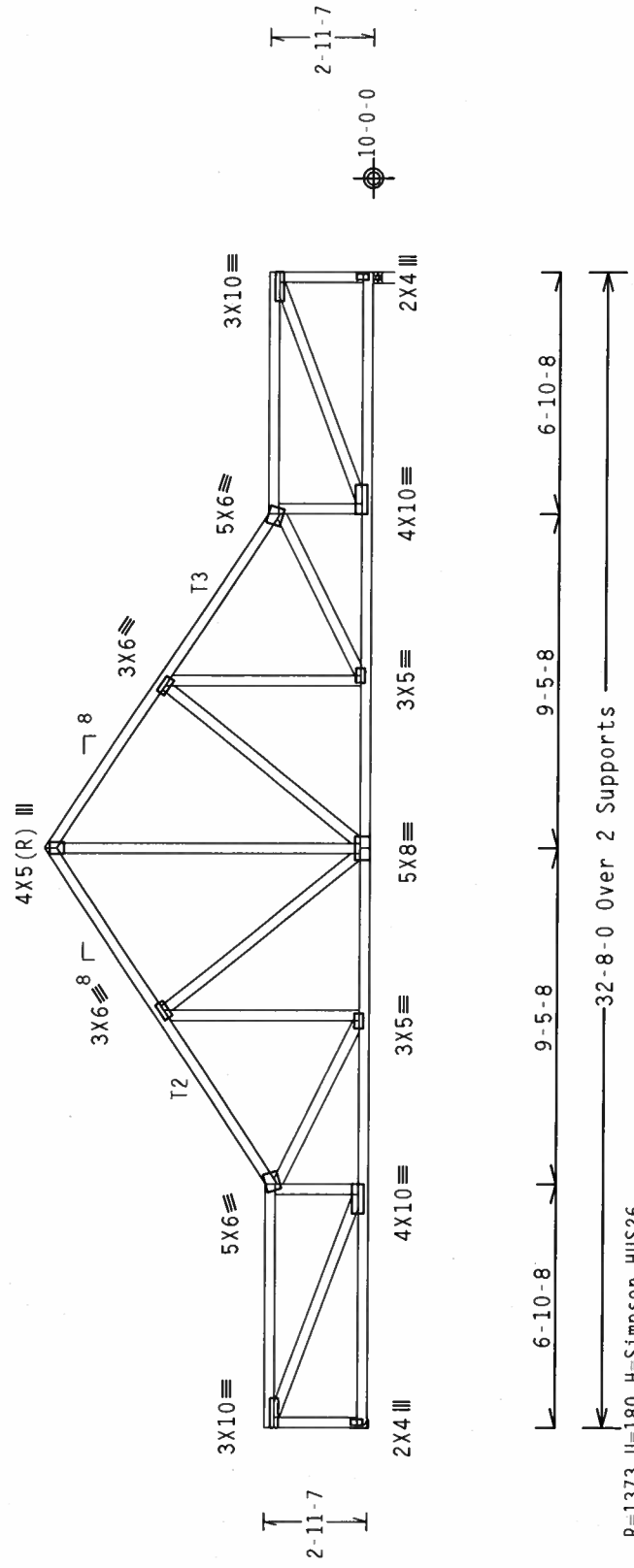
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

Provide for complete drainage of roof.

The overall height of this truss excluding overhang is 9-3-2.

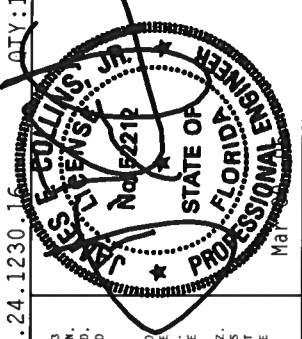


R=1373 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2x6 min. So.Pine

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.16 QTY:1

PLT TYP. Wave/R

TC LL	20.0 PSF	FL/-/5/-/R/-	Scale = .1875"/Ft.
TC DL	10.0 PSF		REF R215-- 53561
BC DL	10.0 PSF		DATE 03/30/06
BC LL	0.0 PSF		DRW HCUSR215 06089202
TOT.LD.	40.0 PSF		HC-ENG RA/WHK
DUR.FAC.	1.25		SEQN- 114609
SPACING	24.0"		FROM CDM
			JREF- 1SVX215_Z07



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

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

110 mph wind, 15.44 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=5.0 psf.

Max JT VERT DEFL: LL: 0.29" DL: 0.32" recommended camber 1/2"

(A) Continuous lateral bracing equally spaced on member.

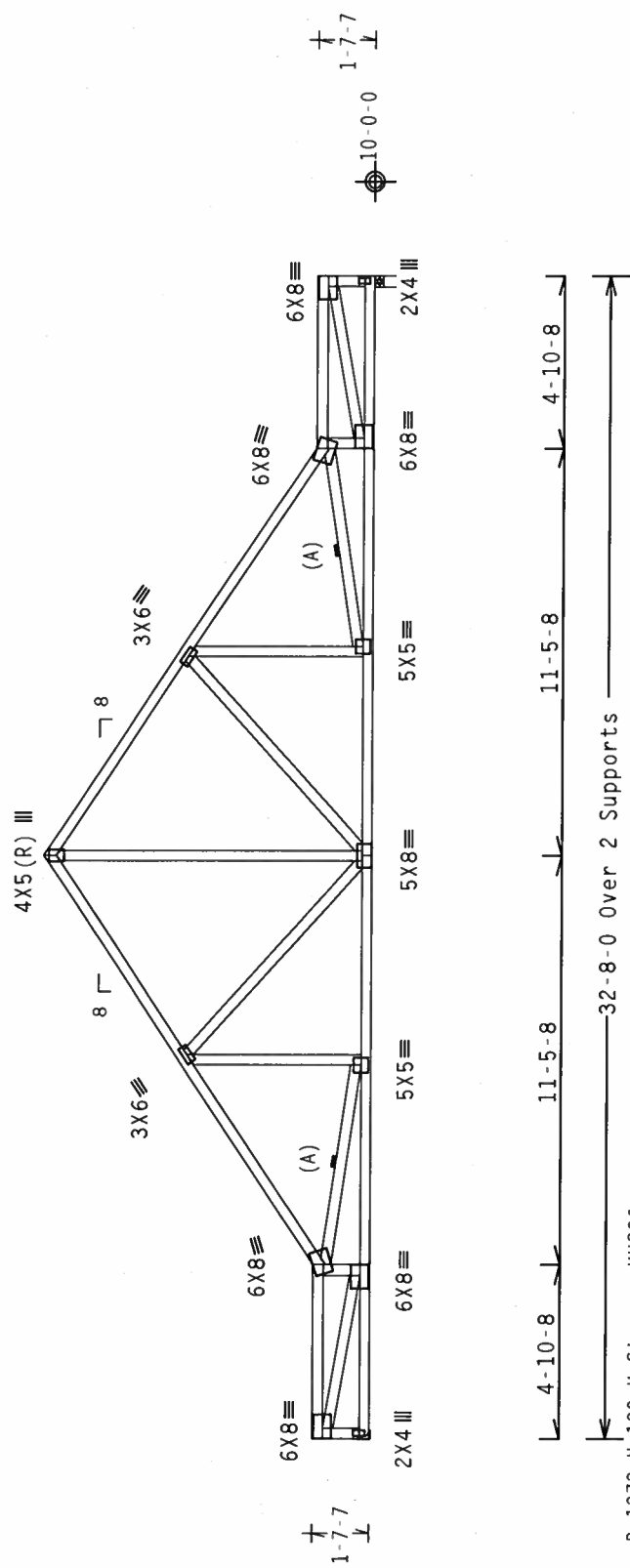
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Provide for complete drainage of roof.

Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

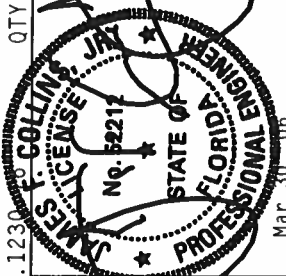
The overall height of this truss excluding overhang is 9-3-2.



R=1373 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2X6 min. So.Pine

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

PLT TYP. Wave\R	7.24.1230	QTY:1	FL/-/5/-/R/-	Scale = .1875"/Ft.
REF R215--	53562	TC LL	20.0 PSF	
DATE 03/30/06		TC DL	10.0 PSF	
DRW HCUSR215 06089203		BC DL	10.0 PSF	
HC-ENG RA/WHK		BC LL	0.0 PSF	
SEQN- 114603		TOT.LD.	40.0 PSF	
FROM CDM		DUR.FAC.	1.25	
JREF- 1SVX215_Z07		SPACING	24.0"	



WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 13 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND AISC (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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ALPINE

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

(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - B18)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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.

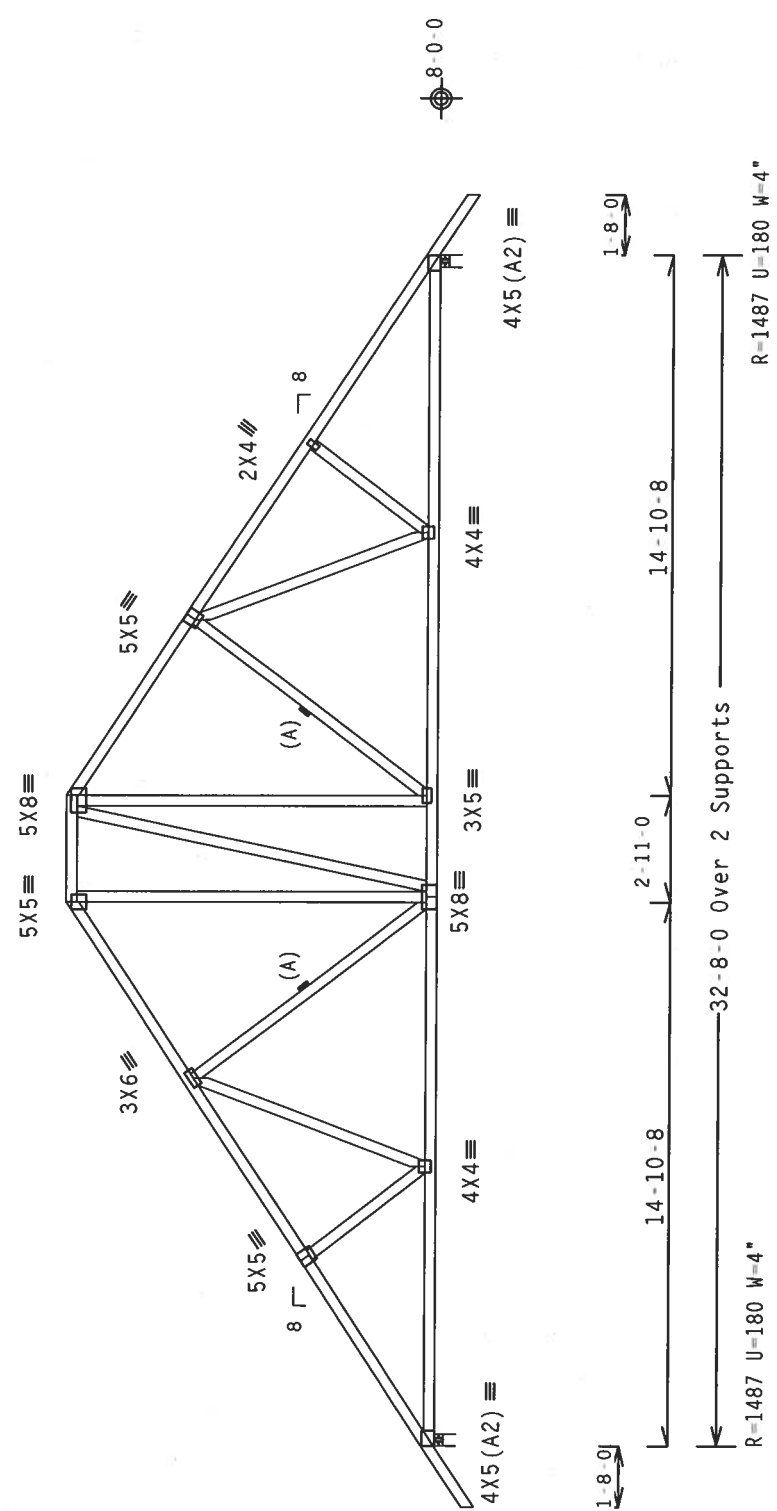
(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 10'-3".

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

Plates sized for a minimum of 3.00 sq.in./piece.



Design Crit: TPI-2002(STD)/FBC

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

Scale = .1875"/Ft.

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

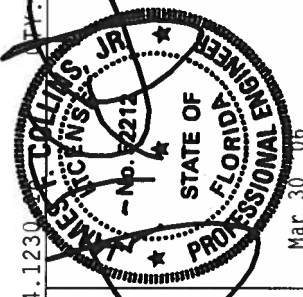
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE 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 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 AIA&P) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THIS TRUSS. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS.

PLT TYP. Wave\R



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



James J. Collins, Jr.
Professional Engineer
State of Florida
License No. 22212
Mar 30 '06

	Top	Bot	#2	N
chord	2x4	SP	#2	N
chord	2x4	SP	#2	N
Webs	2x4	SP	#2	N

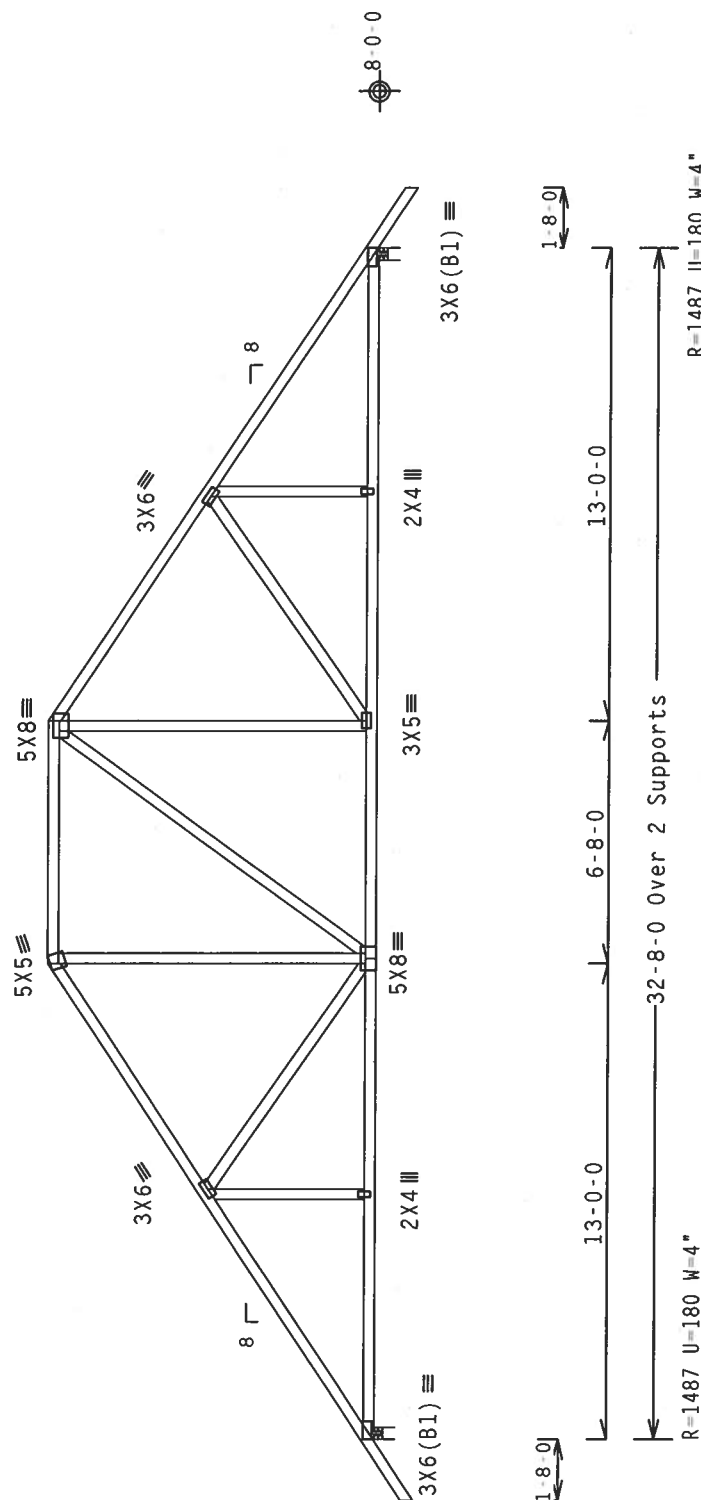
1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 9-0-7.



Design Crit: TPI-2002(STD)/FBC

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION) FOR ADDITIONAL INFORMATION. THE WEAVER PLATE INSTITUTE, 963 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND WTCA (WOOD TRUSS COUNCIL OF AMERICA), 1800 N. LINCOLN AVE., SUITE 100, 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 DESIGN CONFORMS WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING TO TRUSS DESIGN COMPANIES WITH TPI: PROVISIONS OF AISC (NATIONAL DESIGN SPEC. FOR AFRPA) AND TPI: ALPINE CONNECTOR PLATES ARE MADE OF 2018/18 TENSILE STRESS GRADE 40/60 (W. 6/16/15) GALV. STEEL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE SPECIFIED SHALL BE 3/16" THICK PER DRAWING 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI-2002-3 OR (2) PER TPI-2002-3 DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX/TPI 1 SEC. 2.

PLT TYP. Wave\R

Scale = .1875"/Ft.

EF R215-- 535564

DATE 03/30/06

URW HCUSR215 06089178

IC-ENG RA/WHK

EQN- 114594

ROM	CDM
-----	-----

REF- 1SVX215_Z07



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # S67

FL Certificate of Authorization # 567

Top chord	2x4	SP	#2	N
Bot chord	2x4	SP	#2	N
Web	2x4	SP	#2	N

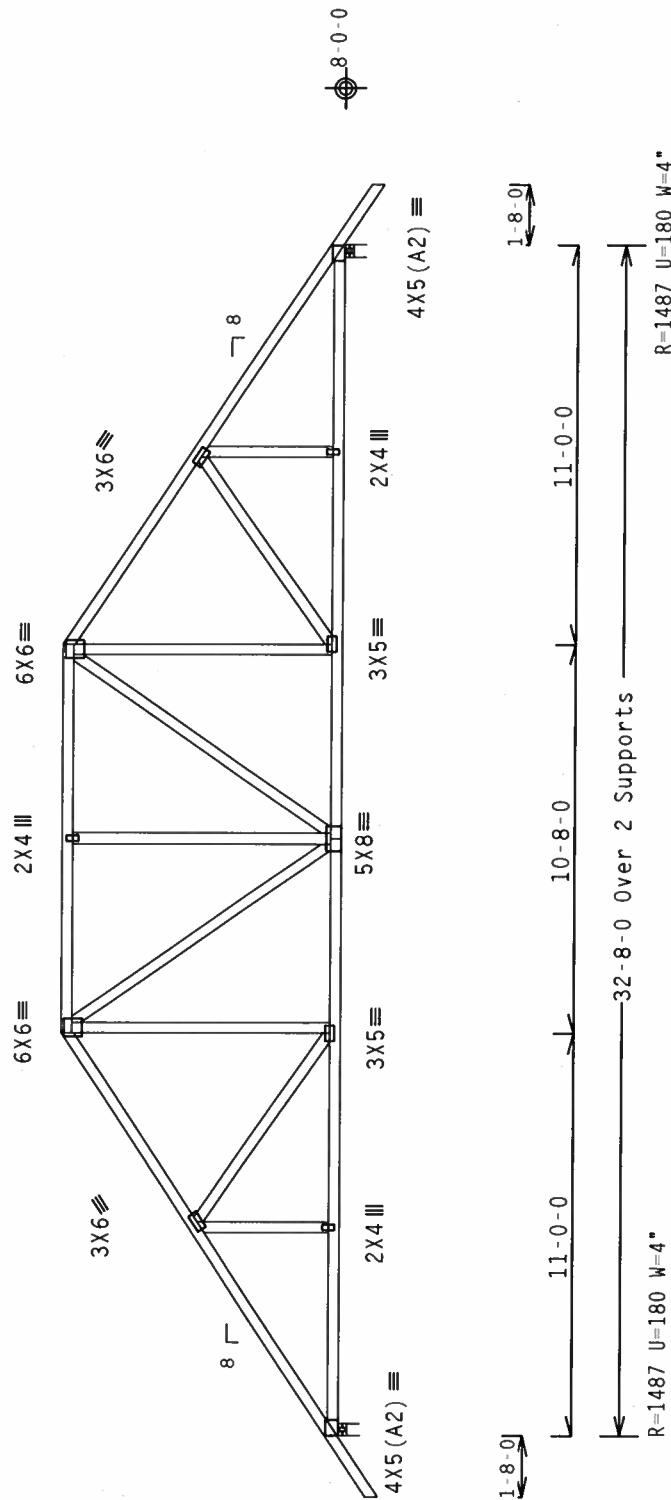
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 7-8-7.



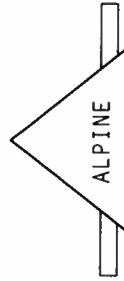
Design Crit: TPI-2002(STD)/FBC

QTY:1 FL/-/5/-/-/R/-
Scale = .1875"/Ft.

PLT TYP. Wave\R

[illegible]

****PRODUCTS**** **FURNISH A COPY OF THE INSTALLATION CONTRACTOR'S ALPINE ENGINEERED
DESIGN TO THE PROJECT OWNER AND THE BUILDING DEPARTMENT. ANY FAILURE TO BUILD THE
TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING OR BRACING OF TRUSSES.
CONTRACTOR PLATES ARE MADE OF 2010/16GA. (H/2X) ASTM A563 GRADE 40/60 (K/MS). GALV STEEL
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, PER DRAWINGS 160A-2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TP1-2002 SECTION 3. A SEAL ON THIS
DESIGN SHOWS THE SUITABILITY AND USE OF AN ORIGINAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
BUILDING DESIGNING PER ANNEX/TP1 1 SEC. 2.



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

FL Certificate of Authorization # 567
Haines City, FL 33844

FL/-/5/-/-R/-	Scale =.1875"/Ft.
TC LL 20.0 PSF	REF R215-- 53565
TC DL 10.0 PSF	DATE 03/30/06
BC DL 10.0 PSF	DRW HCUR215 06089179
BC LL 0.0 PSF	HC-ENG RA/WHK *
TOT.LD. 40.0 PSF	SEQN- 114590
DUR.FAC. 1.25	FROM CDM
SPACING 24.0"	JREF- 1SVX215_Z07

(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - B21)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

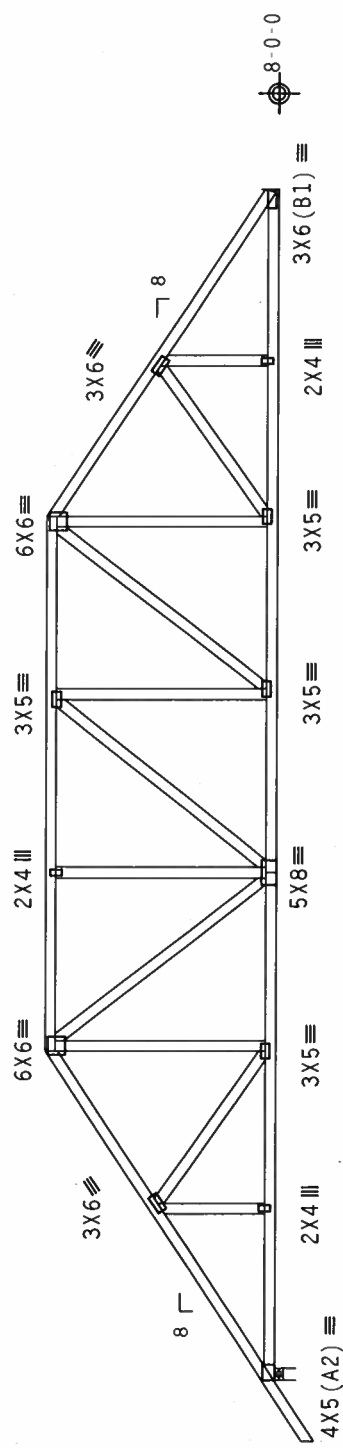
110 mph wind, 15.00 ft mean hgt. ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Plates sized for a minimum of 3.00 sq.in./piece.

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

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 6-4-7.



1-8-0

32-8-0 Over 2 Supports

R=1492 U=180 W=4

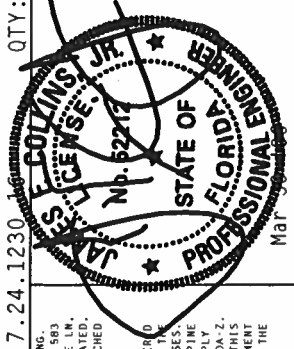
R=1368 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2X6 min. So.Pine

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\ R QTY:1 FL/-/5/-/R/- Scale = .1875"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, 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 MICA (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 A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 AND BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY A/E/P/A) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/166A (M-N/S/X) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE TRUSS. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER AND TPI 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 Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

REF	R215--	53566
DATE	03/30/06	
DRW	HCUSR215	06089204
HC-ENG	RA/WHK	
SEQN-	114539	
FROM	CDM	
JREF-	1SVX215	Z07

(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - B22HG (2-PLY))

Top chord 2x6 SP #2 N :T1 2x4 SP #2 N
Bot chord 2x6 SP #2 N
Webs 2x4 SP #2 N

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.

#1 hip supports 7-0-0 jacks w/2 panel TC and no end vert.

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 5-0-7.

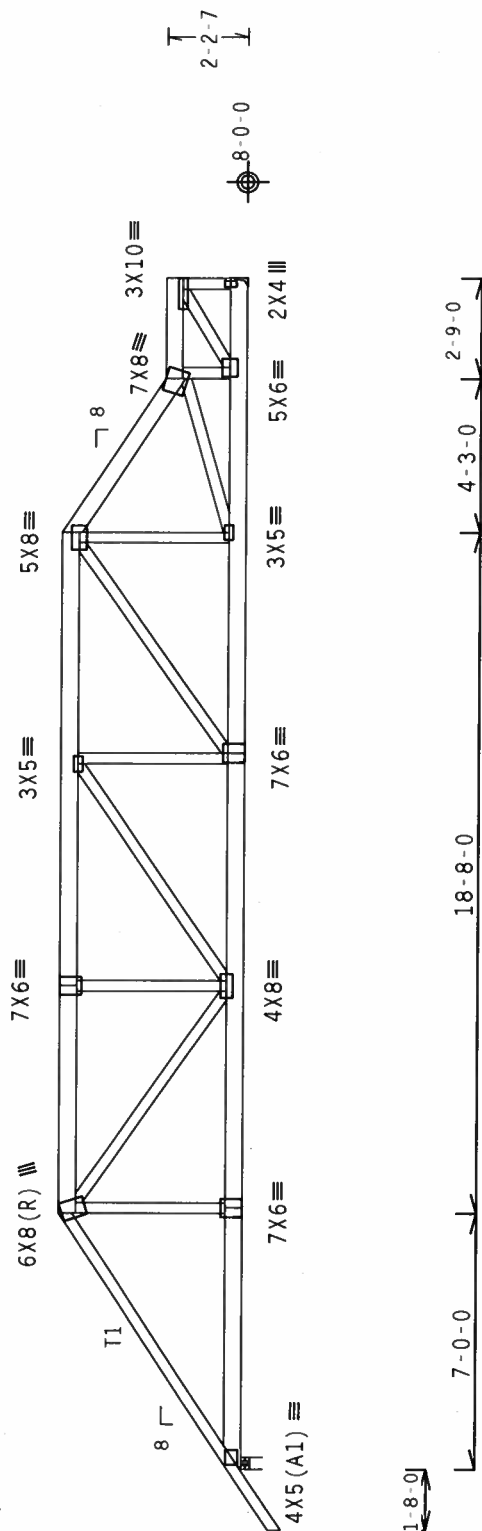
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Box or Gun (0.128"x3", 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.

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

Plates sized for a minimum of 3.00 sq.in./piece.



R=2903 U=206 H=Simpson HGUS26-2
w/ (6) 16d, 0.162"x2.5" nails in Truss
w/ (20) 16d, 0.162"x2.5" nails in Girder
Girder is (2)2X6 min. So.Pine

PLT TYP. Wave/R

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

Scale = .1875"/Ft.

QTY:1 FL/-/5/-/R/-

REF	R215--	53567
DATE	03/30/06	
DRW	HCUSR215	06089205
HC-ENG	RA/WHK	
SEQN-	114533	
FROM	CDM	
JREF-	1SVX215_Z07	

ALPINE

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

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 62212
F. COLLINS
SEAL

Mar 30 00

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 10000 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND MICA (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 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 CONNECTION PLATES ARE MADE OF 2018/16GA (4-H/57K) ASTM A653 GRADE 40/60 (4. K/M.P.S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY TPI. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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.

Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers. Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

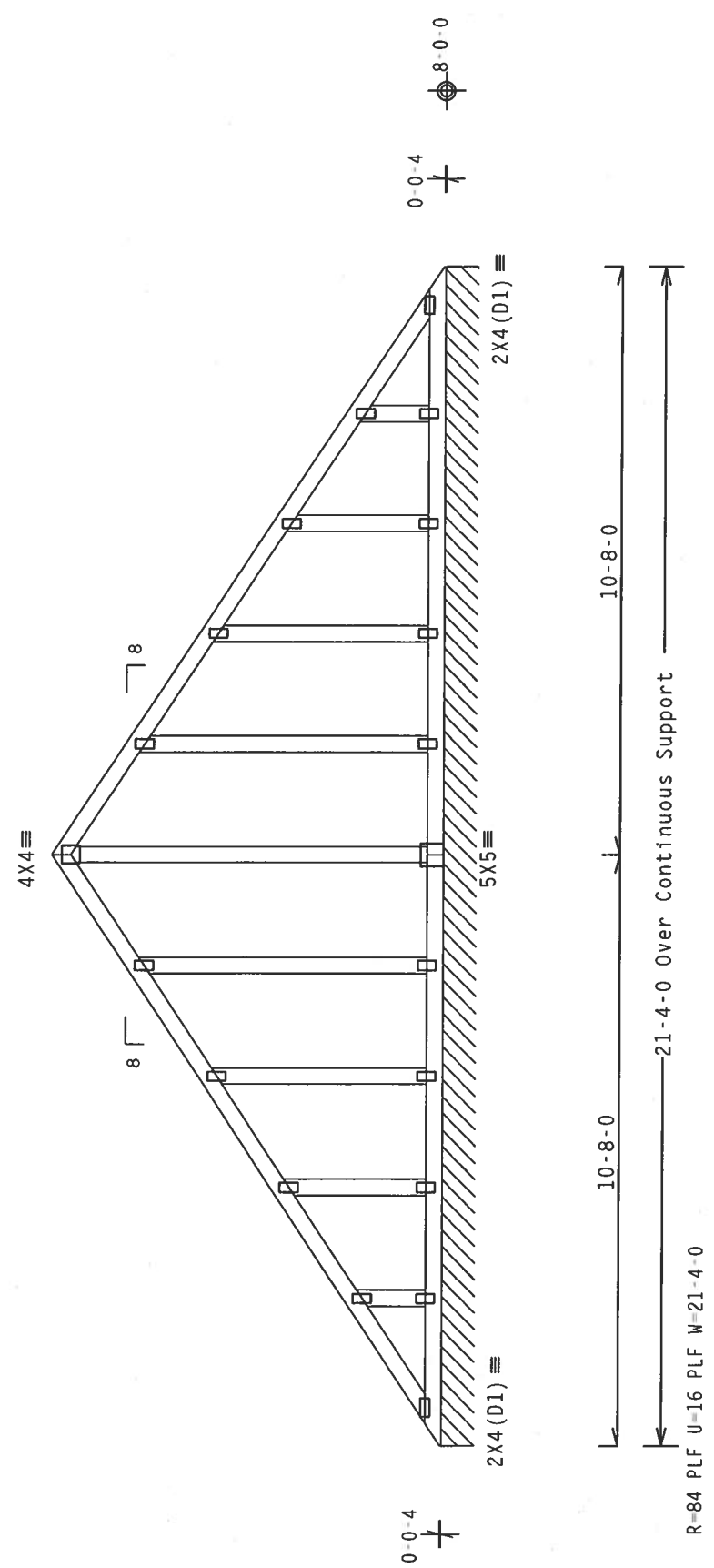
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 7-1-9.

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

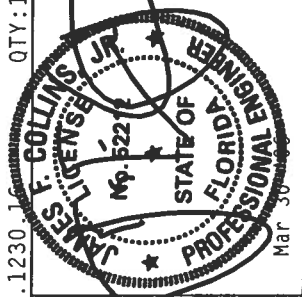


Note: All Plates Are 2x4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R QTY:1 FL/-/5/-/R/- Scale = .3125"/Ft.

TC LL	20.0 PSF	REF	R215--	53568
TC DL	10.0 PSF	DATE	03/30/06	
BC DL	10.0 PSF	DRW	HCUSR215	06089206
BC LL	0.0 PSF	HC-ENG	RA/WHK	
TOT.LD.	40.0 PSF	SEQN-	114546	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1SVX215_207	



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE BUILDING SAFETY COUNCIL OF AMERICA, 6300 ENTERPRISE DR., 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 (M.H/SX) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)

Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @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.

Bearing blocks: Nail type: 10d Box or Gun_ (0.128"x3", min.)_nails

BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
12	12	12	12	12	12
13	13	13	13	13	13
14	14	14	14	14	14
15	15	15	15	15	15
16	16	16	16	16	16
17	17	17	17	17	17
18	18	18	18	18	18
19	19	19	19	19	19
20	20	20	20	20	20
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25	25	25	25	25	25
26	26	26	26	26	26
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29	29	29	29	29	29
30	30	30	30	30	30
31	31	31	31	31	31
32	32	32	32	32	32
33	33	33	33	33	33
34	34	34	34	34	34
35	35	35	35	35	35
36	36	36	36	36	36
37	37	37	37	37	37
38	38	38	38	38	38
39	39	39	39	39	39
40	40	40	40	40	40
41	41	41	41	41	41
42	42	42	42	42	42
43	43	43	43	43	43
44	44	44	44	44	44
45	45	45	45	45	45
46	46	46	46	46	46
47	47	47	47	47	47
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68	68	68	68	68	68
69	69	69	69	69	69
70	70	70	70	70	70
71	71	71	71	71	71
72	72	72	72	72	72
73	73	73	73	73	73
74	74	74	74	74	74

2	21.00'	1	12"	12	Match Truss
---	--------	---	-----	----	-------------

Bearing block to be same size and species as bottom chord.

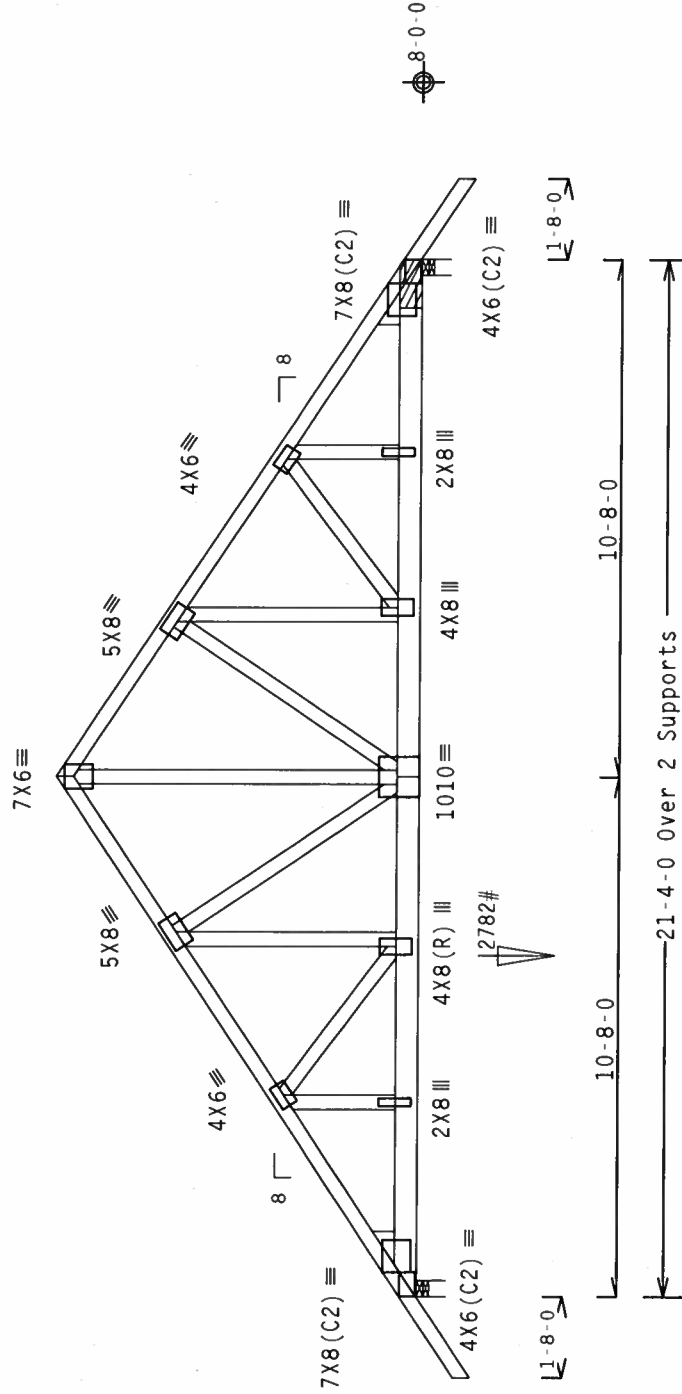
Refer to drawing CNBRGBLK1103 for additional information.

110 mph wind 15 00 ft mean bot ASCF 7.02 CLOSED bldg not located

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 II = 5.0 ref wind

WICHIN 4.50 FE
BC DL=5.0 dsf.

Plates sized for a minimum of 3.00 sq.in./piece.



R=8210 U=690 W=4"

R=6056 II=539 W=4"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R

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

QTY.1 EI / - / 5 / - / - / R / -

$$\text{Scale} = 25''/\text{ft}$$

*****WARNING***** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-93 (BUILDING CONTEMPORARY SAFETY, INFORMATION, AND PRACTICES) PUBLISHED BY THE TRUSS PLECE INSTITUTE, 183 D'ORFORD DR., SUITE 200, MADISON, WI 53719, AND WITNESSING THE TRUSS PLECE INSTITUTE OF AMERICA, 6500 ENTERPRISE LN, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE TYPICAL OPERATIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FABRICATING, HANDLING, SHIPPING, INSTALLING, AND MAINTAINING THE PLATES TO PROVIDE THE PROTECTIVE MATERIALS DESIGN SPEC. BY APPROVED CONTRACTOR. ALL CONNECTOR PLATES ARE MADE OF 7010/LEGAL ALUMINUM ALLOY. ALL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 43 OF 17P1-2002 SPEC DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE BUILDING DESIGNER PER ANNEX 43 OF 17P1-2002 SPEC. 2.



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

FL Certificate of Authorization # S67

TC LL	20.0	PSF	REF	R215--	53569
TC DL	10.0	PSF	DATE	03/30/06	
BC DL	10.0	PSF	DRW	HCUSR215	06089207
BC LL	0.0	PSF	HC-ENG	RA/WHK	
TOT.LD.	40.0	PSF	SEQN-	114586	REV
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1SVX215	Z07

(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - D1GE)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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.

Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers. Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

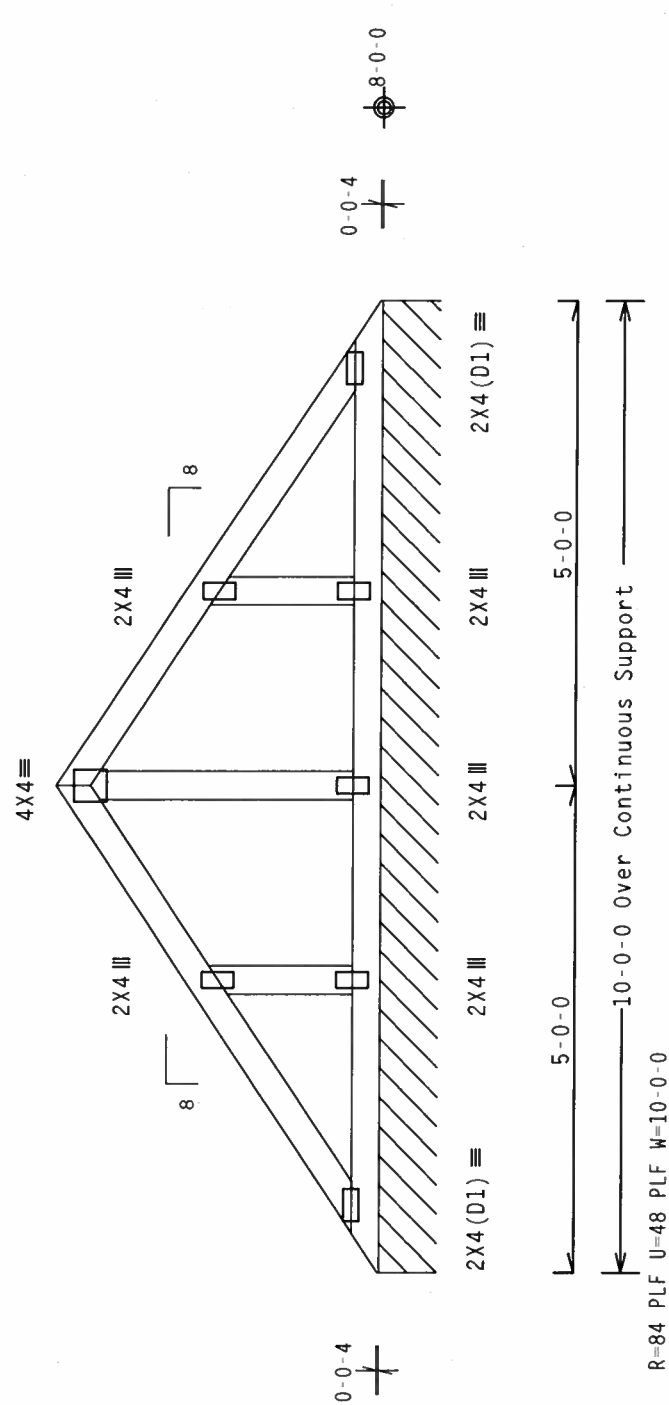
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

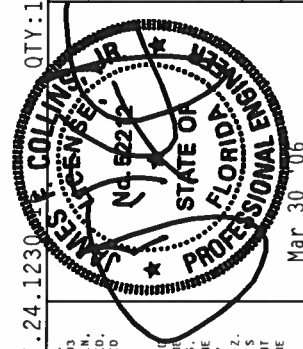
The overall height of this truss excluding overhang is 3-4-4.

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



Design Crit: TPI-2002 (STD) /FBC

PLT TYP. Wave/R	QTY:1		FL/-5/-/-R/-		Scale = .5" /Ft.	
	TC LL	20.0	PSF	REF	R215--	53570
	TC DL	10.0	PSF	DATE	03/30/06	
	BC DL	10.0	PSF	DRW	HCUSR215	06089208
	BC LL	0.0	PSF	HC-ENG	RA/WHK	
	TOT.LD.	40.0	PSF	SEQN-	114501	
	DUR.FAC.	1.25		FROM	CDM	
	SPACING	24.0"		JREF-	1SVX215_Z07	



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND MICA (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 A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2018/16GA (40/60) ASTM A553 GRADE 40/60 (40/60) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY VISUAL INSPECTION. UNLESS SHOWN OTHERWISE, ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER. 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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Haines City, FL 33844
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2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)

Top Chord: 1 Row @12.00" o.c.

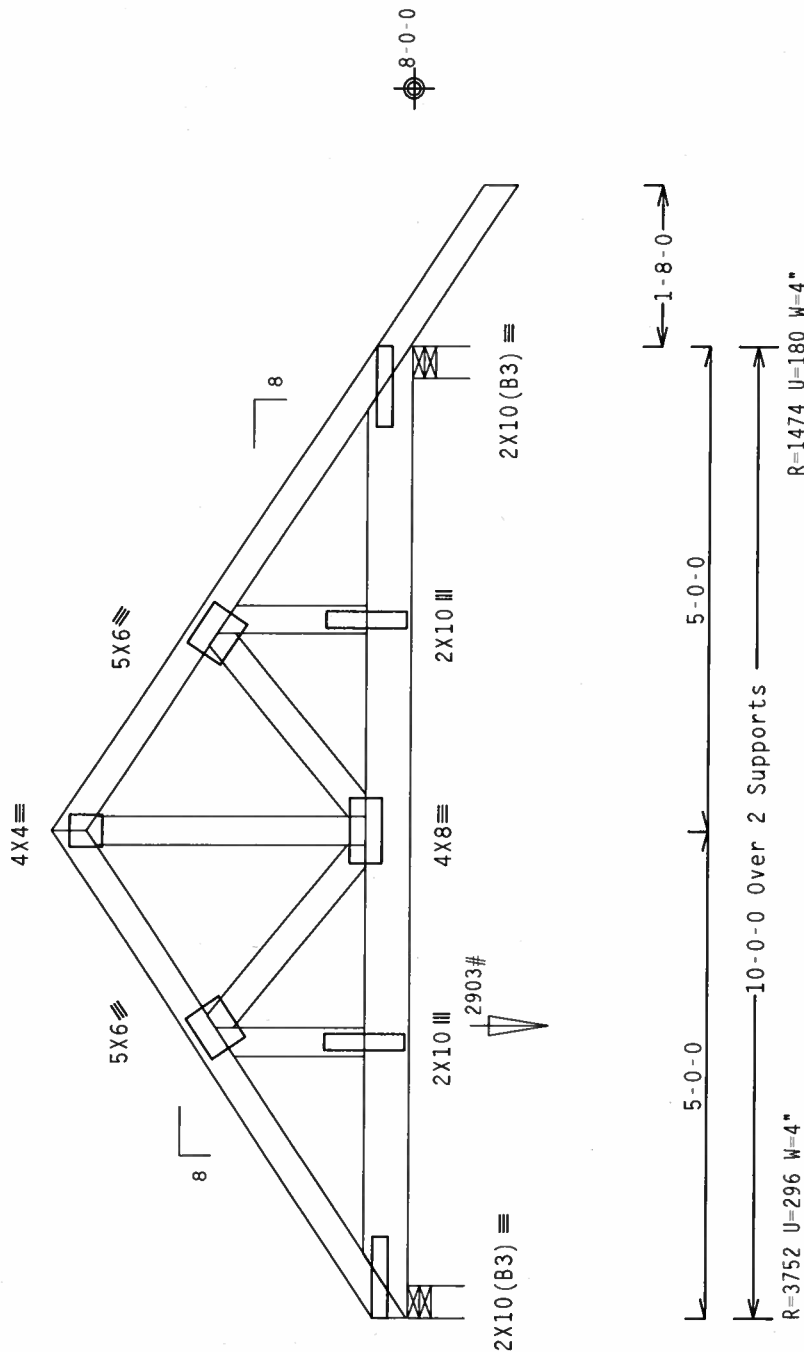
Bot Chord: 1 Row @ 3.50" o.c.

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 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Plates sized for a minimum of 3.00 sq.in./piece.



R=3752 U=296 W=4^m

R=1474 U=180 W=4ⁿ

Design Crit: TPI-2002(STD)/FBC

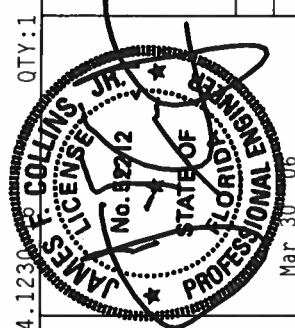
$$Cq/RT=1.00(1.25)/10(0)$$

QTY:1 EL1-151-1-1R1-

Scale = .5"/Ft.

WARNING: THUSSESS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1-03 (BUILDING COMPONENT SAFETY INFORMATION) ISSUED BY THE TRUSS PULPIT INSTITUTE, 983 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND NCTA WOOD TRUSS COUNCIL, 6800 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 PROPERLY ATTACHED RIGID CEILING.

IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE FABRICATION CONTRACTOR. TRUSS IN CONFORMANCE WITH TPI1. OR FABRICATING, HANDLING, SHIPPING, INSTALLING OR ERECTING THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC., BY AISC, INC., 1989 EDITION), AND ALL APPLICABLE PROVISIONS OF THE AISC CODE OF STANDARD PRACTICE FOR THE FABRICATION AND ERECTION OF STEEL STRUCTURES. PLATES TO EACH FACE OF TRUSS AND GUSSET PLATES, OTHERWISE LAXED ON THIS DESIGN. ANY INSPECTION OF PLATES FOLLOWED BY (1.) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC. 2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE BUILDING DESIGNER PER ANNEX TPI1 1 SEC. 2. OF THIS COMPONENT FORM BUILDING IS



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Mar 30 '06

SPACING 24.0"

JREF- 1SVX215 707

(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - JC1)

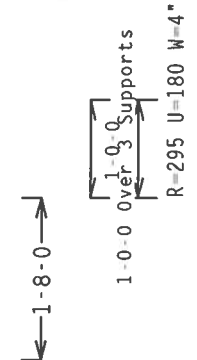
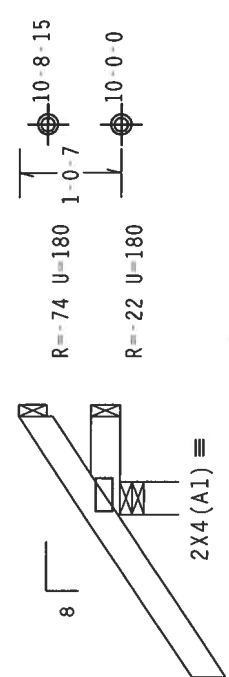
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 1-0-7.

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.

Plates sized for a minimum of 3.00 sq.in./piece.

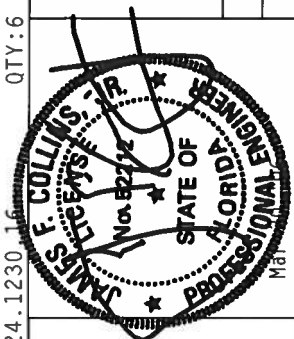


Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

PLT TYP. Wave\ R QTY: 6 FL/-/5/-/-/R/- Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 983 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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 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 TO PERFORMANCE WITH TPI: 1.03 PROVISIONS OF THIS DESIGN, INCLUDING THE PROVISIONS OF THE ALPINE CONNECTOR PLATES ARE MADE OF 2018/1515 ALUMINUM. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSTION PER A SEAL ON THIS PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSTION PER A SEAL ON THIS ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC. 3. UNLESS OTHERWISE INDICATED, THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R215--	53572
TC DL	10.0 PSF	DATE	03/30/06	
BC DL	10.0 PSF	DRW	HCUSR215	06089210
BC LL	0.0 PSF	HC-ENG	RA/WHK	
TOT.LD.	40.0 PSF	SEON-	114480	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1SVX215_Z07	

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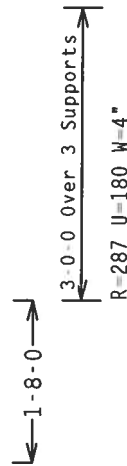
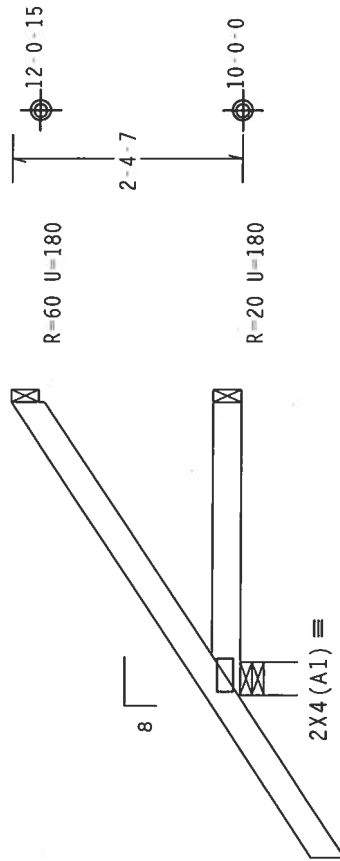
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 2-4-7.

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.

Plates sized for a minimum of 3.00 sq.in./piece.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R

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

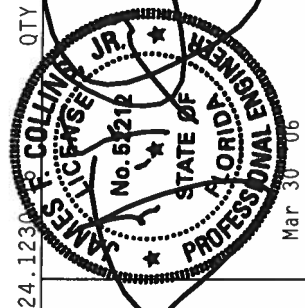
QTY: 6

Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 983 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (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.

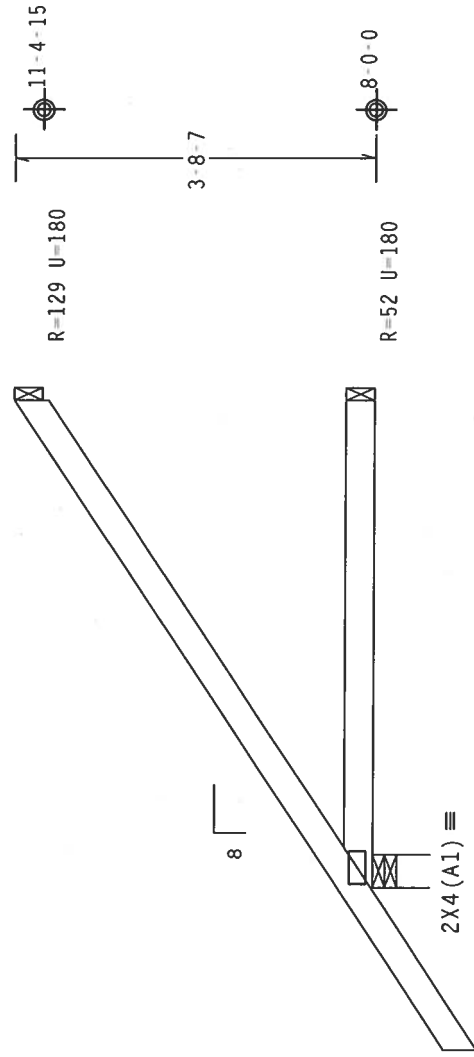
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN FOR EACH FACE OF TRUSS AND BOTTOM CHORD SHALL BE IN ACCORDANCE WITH THE FOLLOWING: ALPINE PLATES TO EACH FACE OF TRUSS AND BOTTOM CHORD SHALL BE IN ACCORDANCE WITH THE FOLLOWING: ALPINE ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI 2002 SECTION PER DRAWINGS 600A-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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TC LL	20.0 PSF	REF	R215--	53573
BC DL	10.0 PSF	DATE	03/30/06	
BC LL	10.0 PSF	DRW	HCUSR215	06089180
TOT.LD.	40.0 PSF	HC-ENG	RA/WHK	*
OUR.FAC.	1.25	SEON-	114485	
SPACING	24.0"	FROM	CDM	
		JREF-	1SVX215_Z07	

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Deflection meets L/360 live and L/240 total load.
The overall height of this truss excluding overhang is 3-8-7.
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.
Plates sized for a minimum of 3.00 sq.in./piece.



1-8-0
5-0-0 Over 3 Supports
R=354 U=180 W=4"

Design Crit: TPI-2002 (STD) /FBC

PLT TYP. Wave R

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

Design Crit: TPI-2002 (STD) /FBC

Cg/RT=1.00(1.25)/10(0) 7-24.1230 QTY:2 FL/-5/-R/- Scale =.5"/Ft.

REF	R215--	53574
DATE	03/30/06	
DRW	HCUSR215	06089181
HC-ENG	RA/WHK	*
SEQN	114492	
FROM	CDM	
JREF	1SVX215	Z07

ALPINE ENGINEERING 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 REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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.

ALPINE ENGINEERING 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 REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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.

ALPINE ENGINEERING 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 REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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.

(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - JE7)

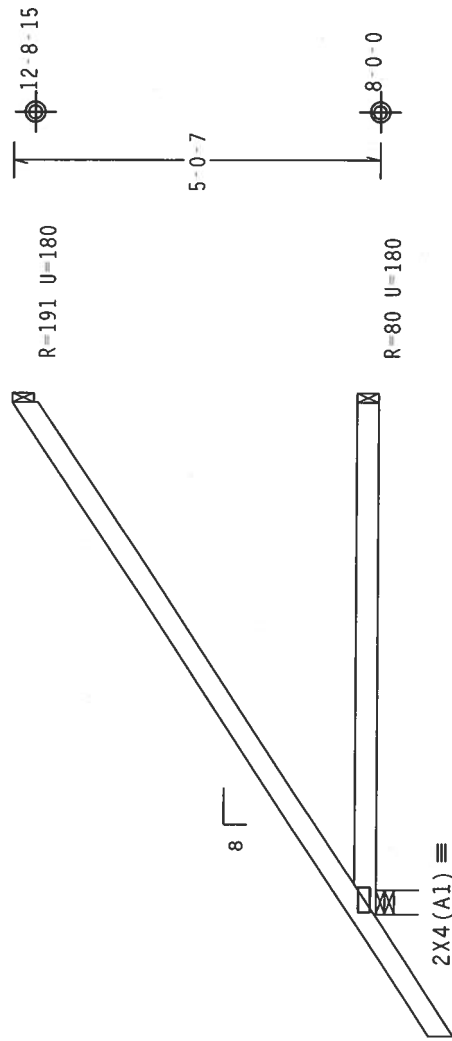
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 5-0-7.

110 mph wind, 15.00 ft mean htg, 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.

Plates sized for a minimum of 3.00 sq.in./piece.



1-8-0

7-0-0 Over 3 Supports

R=432 U=180 W=4"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\

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

7.24.1230

QTY:31 FL/-5/-/R/-

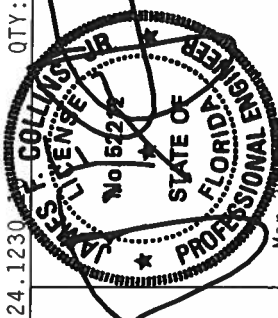
Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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 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. CONNECTOR PLATES ARE MADE OF 2018/16GA (M-7/5/5) ASTM A653 GRADE 40/60 (M. K/M-S) GALV. STEEL. APPLY UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES AND TRUSS CHORDS SHALL BE DONE BY A QUALIFIED INSPECTOR. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER RECORD FOR THE BUILDING DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Marley Drive
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REF	R215--	53576
DATE	03/30/06	
DRW	HCUSR215	06089183
HC-ENG	RA/WHK	*
SEQN-	114475	
FROM	CDM	
JREF-	1SVX215_Z07	

Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	webs	2x4	SP	#2	N

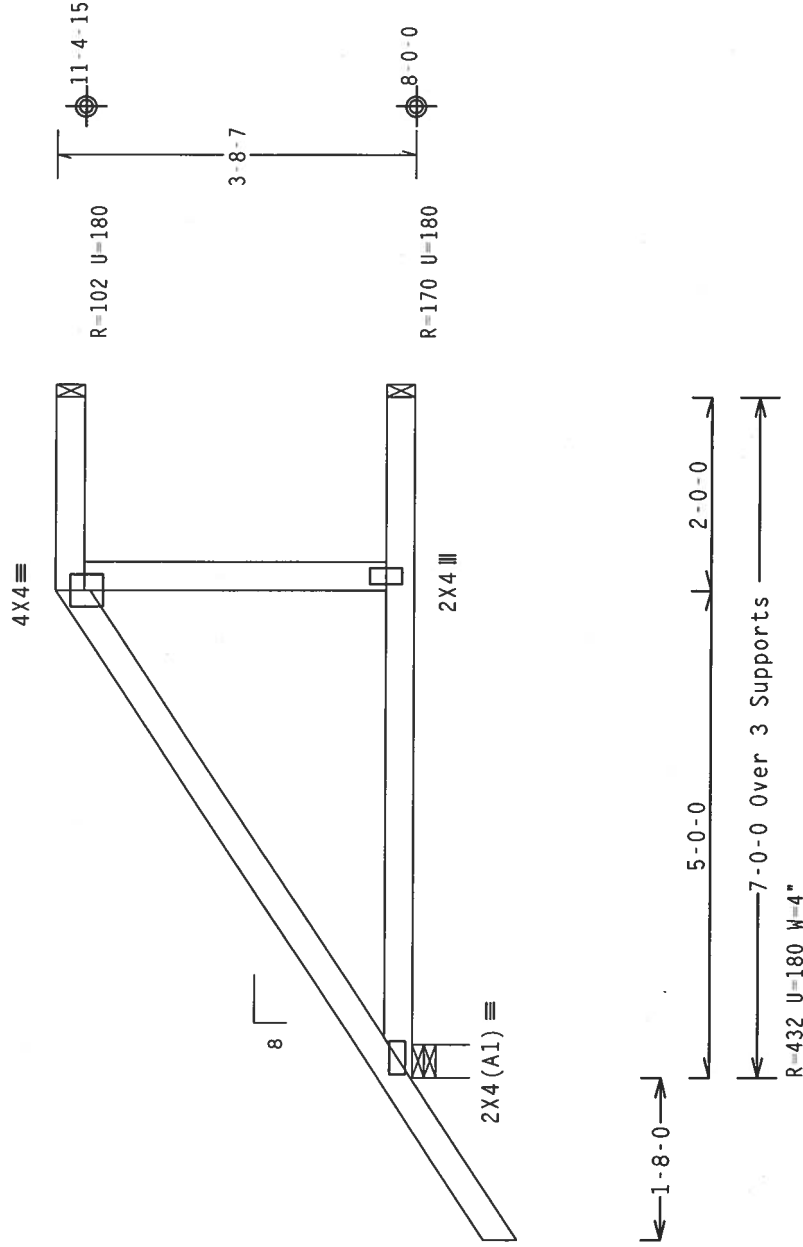
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 3-8-7.



Design Crit: TPI-2002(STD)/FBC

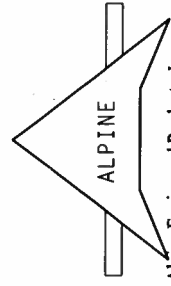
PLT TYP. Wave\R

$$Cq/RT=1.00(1.25)/10(0)$$
230 ~~1998~~

Scale = .5"/Ft.

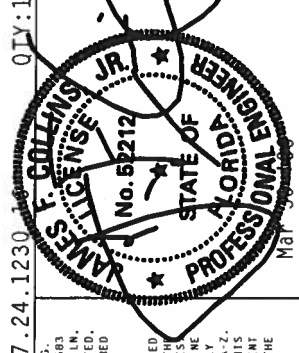
WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS 1-93 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE AMERICAN LUMBER ASSOCIATION, 1900 N. MADISON DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 1000 W. 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 TOP CHORD CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALDINE ENGINEERS
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE
TRUSS IN CONFORMANCE WITH THE TRUSS OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES
CONFORMS WITH ALL APPLICABLE PROVISIONS OF MOST NATIONAL DESIGN SPEC. BY AFPA) AND TYPICAL ALDINE
CONNECTIONS WITH AND WITHOUT PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TP11-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
BUILDING DESIGNER PER ANSWER/TP11-1 SEC.2 OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSWER/TP11-1 SEC.2.



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

FL Certificate of Authorization # 567



TC LL	20.0	PSF	REF	R215--	53577
TC DL	10.0	PSF	DATE	03/30/06	
BC DL	10.0	PSF	DRW	HCUSR215	06089184
CC LL	0.0	PSF	HC-ENG	RA/WHK	*
TOT.LD.	40.0	PSF	SEQN-	114525	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1SVX215_Z07	

(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - JE78)

Top chord 2x4-SP #2 N
Bot chord 2x4-SP #2 N
Webs 2x4-SP #2 N

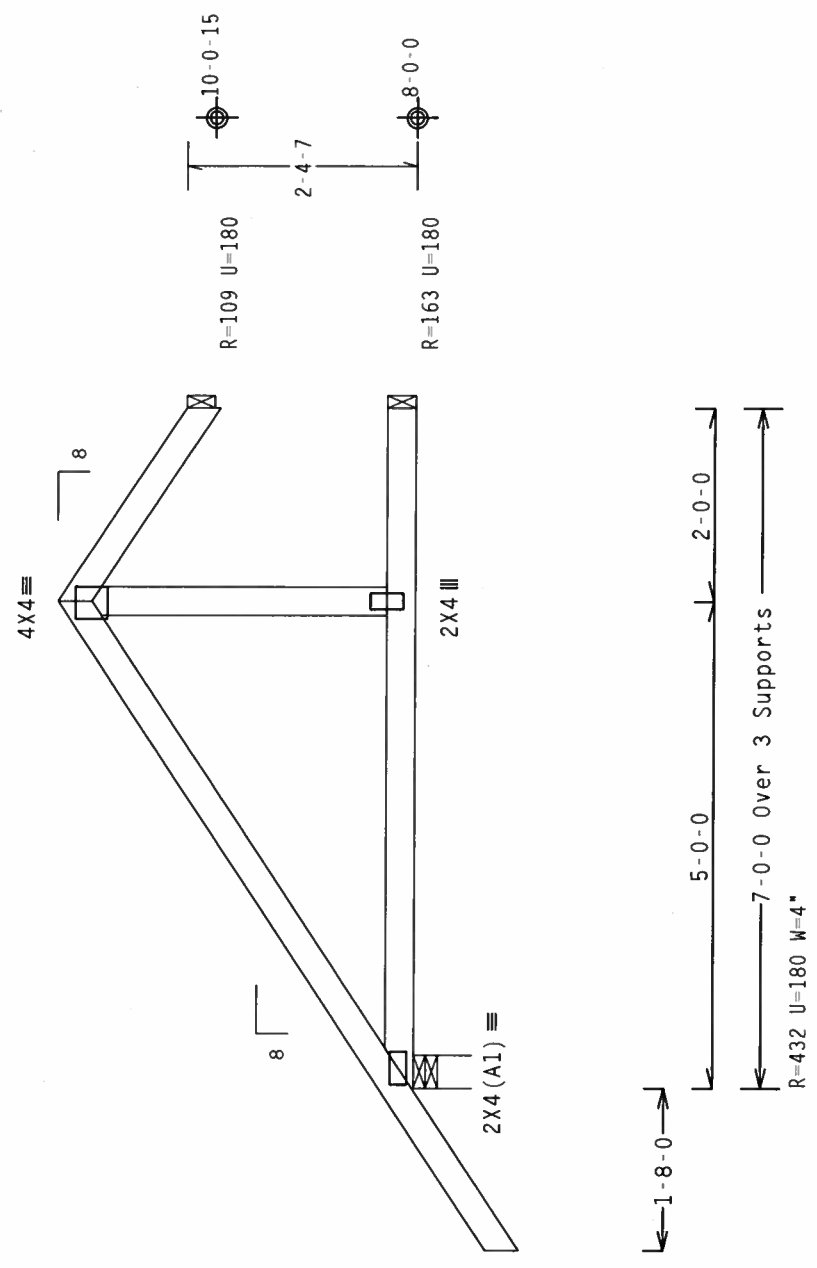
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Calculated horizontal deflection is 0.13" due to live load and 0.14" due to dead load.

Deflection meets L/360 live and L/240 total load.

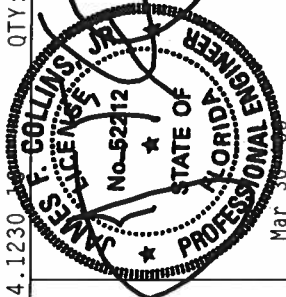
Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 3-8-7.



Design Crit: TPI-2002 (STD) /FBC

PLT TYP. Wave/R	QTY: 2	FL / - / 5 / - / R / -	Scale = .5" / Ft.
REF R215-- 53578	TC LL	20.0 PSF	
DATE 03/30/06	TC DL	10.0 PSF	
DRW HCUSR215 06089185	BC DL	10.0 PSF	
HC-ENG RA/WHK	TC LL	0.0 PSF	
SEQN- 114528	TOT. LD.	40.0 PSF	
FROM CDM	DUR. FAC.	1.25	
JREF- 1SVX215_Z07	SPACING	24.0"	



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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 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. APPLY PLATES TO EACH FACE OF TRUSS MEMBERS. 2018/18GA (W/1/2X) ASTM A653 GRADE 40/60 (W. K/H. S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF THE DATE OF DESIGN. 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 Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Top chord 2x4 SP #2 N
Bot chord 2x6 SP #2 N
Webs 2x4 SP #2 N

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 4.42
BC - From 20 PLF at 0.00 to 20 PLF at 4.42
BC - 1373 LB Conc. Load at 1.94, 3.94

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 3-3-13.

2 COMPLETE TRUSSES REQUIRED

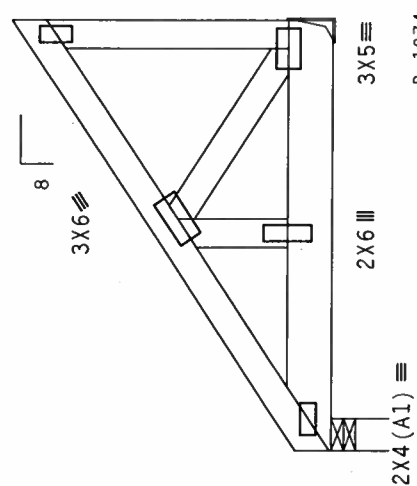
Nailing Schedule: (10d Box or Gun (0.128"x3", min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 5.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

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

Right end vertical not exposed to wind pressure.

Plates sized for a minimum of 3.00 sq.in./piece.

2X4 III



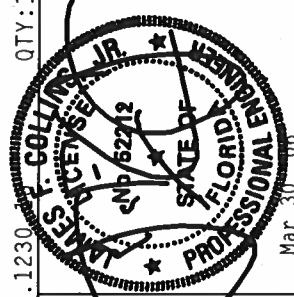
R=1974 U=182 H=Simpson HGS26-2
w/ (6) 16d, 0.162"x2.5" nails in Truss
w/ (20) 16d, 0.162"x2.5" nails in Girder
Girder is (2)2X6 min. So.Pine

PLT TYP. Wave/R

Design Crit: TPI-2002 (STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.24.1230

QTY:1 FL/-5/-/-R/- Scale = .5" /Ft.

TC LL	20.0 PSF	REF R215--	53579
TC DL	10.0 PSF	DATE	03/30/06
BC DL	10.0 PSF	DRW HCUSR215	06089211
BC LL	0.0 PSF	HC-ENG RA/WHK	
TOT.LD.	40.0 PSF	SEQN-	114616
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1SVX215_Z07



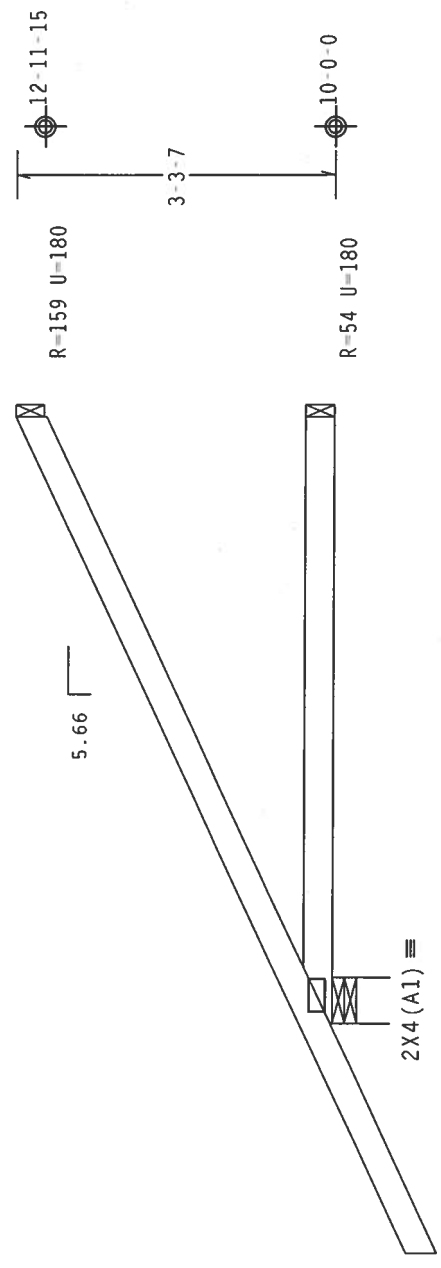
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE 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 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 (N-H/5/K) ASTM A653 GRADE 40/60 (N, K/M-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES BY THE TRUSS MANUFACTURER. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. A SEAL ON THIS BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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Haines City, FL 33844
FL Certificate of Authorization # 567

(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - JH6)

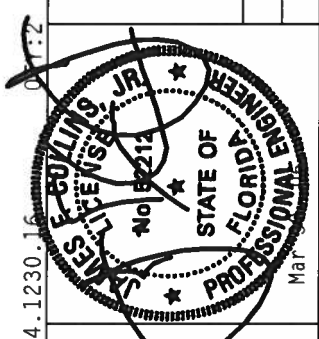
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Hipjack supports 4-5-0 setback jacks with no webs.
Plates sized for a minimum of 3.00 sq.in./piece.
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
Deflection meets L/360 live and L/240 total load.
The overall height of this truss excluding overhang is 3-3-7.



2-4-5
6-2-15 Over 3 Supports
R=308 U=180 W=5.657"

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

PLT TYP. Wave/R		Scale = .5" /Ft.	
ALPINE		TC LL	20.0 PSF
ALPINE Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 FL Certificate of Authorization # 567		TC DL	10.0 PSF
		BC DL	10.0 PSF
		BC LL	0.0 PSF
		TOT.LD.	40.0 PSF
		DUR.FAC.	1.25
		FROM	CDM
		JREF	1SVX215_Z07
		REF	R215-- 53580
		DATE	03/30/06
		DRW	HCUSR215 06089212
		HC-ENG RA/WHK	
		SEQN	114504
		FROM	CDM
		JREF	1SVX215_Z07



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (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 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 20/18/76GA (4-H/57K) ASTM A653 GRADE 40/60 (4, K/H.S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

	Top	chord	2x4	SP	#2	N
	Bot	chord	2x4	SP	#2	N
		webs	2x4	SP	#2	N

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.

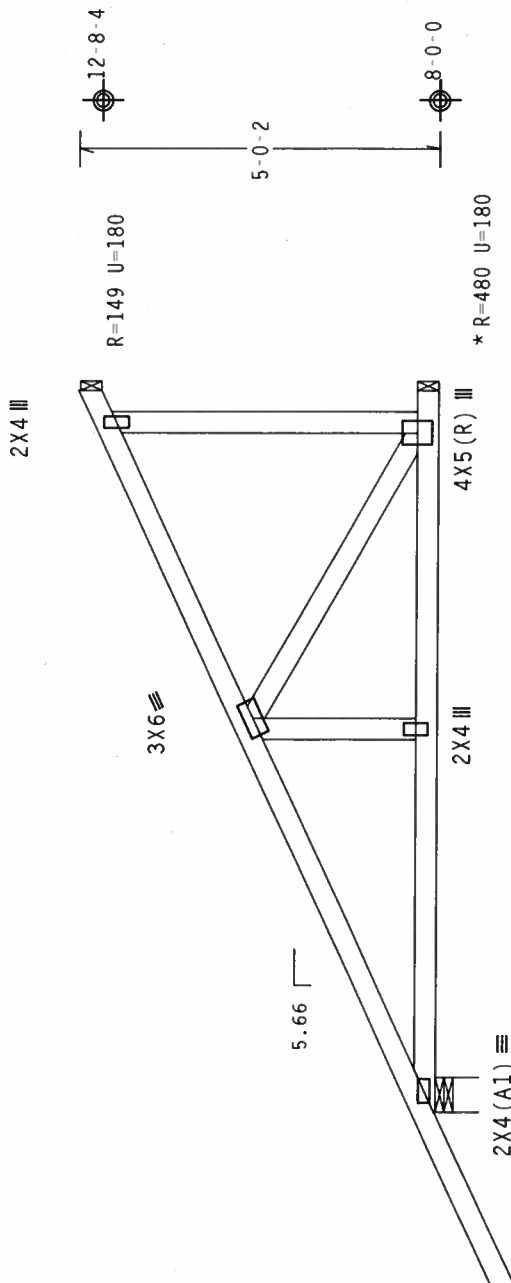
Hipjack supports 7-0-0 setback jacks with no webs.

Plates sized for a minimum of 3.00 sq.in./piece.

* Toe nailing allowed based on average reaction

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 5'-0"-2."



$\leftarrow 2-4.5 \rightarrow$ $\leftarrow 9-10-13 \rightarrow$
 $\leftarrow 9-10-13 \rightarrow$ Over 3 Supports
 $R=497 \quad U=180 \quad W=5.657''$

Design Crit: TPI-2002(STD)/FBC

PLT_TYP. Wave\R

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

QTY:1 E11-151-1-1B1-

Scale = .375"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03.3 BUILDING COMPONENT SAFETY, PREPARED BY THE TRUSS PANEL INSTITUTE, 583 NORTH OXFORD DR., SUITE 200, MADISON, WI 53719, AND NCTA TRUSS COMPANY, 1000 N. WILSON AVE., SUITE 100, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE OPERATIONS. UNLESS OTHERWISE NOTICED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CEILING.

TC LL	20.0 PSF	REF R215-- 53581
TC DL	10.0 PSF	DATE 03/30/06

ALPINE

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

*IMPORTANT: *TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. *ALPINE ENGINEERED TRUSSES, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH IT, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, OR ANY OTHER ACTIONS, SHALL BE THE SOLE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. *ALPINE ENGINEERED TRUSSES, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE BUILDING OR TO THE TRUSS COMPONENTS DURING THE CONSTRUCTION OF THE TRUSS. *CONNECTION PLATES ARE MADE OF 201/196GA (IN H/VS) ASTM A663 GRADE 40/60 (IN K/MS) GALV. STEEL APPLIED TO THE BOTTOM CHORDS OF TRUSSES. *CONNECTION PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16DA-2. *IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AN A3 OF 1P11-2002 SEC.3. *A SEAL ON THIS DESIGN SHOWS THE TRUSS MANUFACTURER'S ACCEPTANCE OF THE TRUSS COMPONENTS. *THE TRUSS COMPONENTS ARE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/P11 1 SEC. 2.

SPACING	24.0"	JREF- 1SVX215 Z07
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Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

Plates sized for a minimum of 3.00 sq.in./piece.

REFER TO DRAWING PIGBACK0204 FOR PIGGYBACK DETAILS.
TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO
BE BRACED AT 24" O.C.

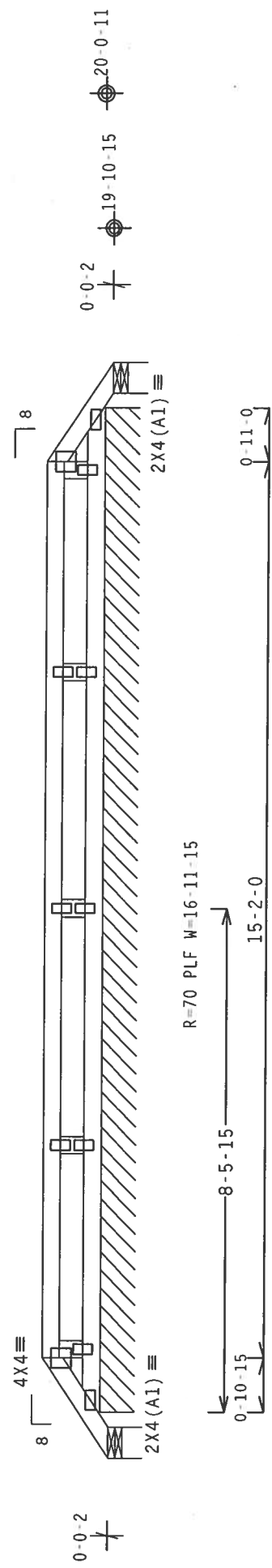
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC
DL=5.0 psf.

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

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 11-8.

4X4



18-6-9 Over 3 Supports

R=19 W=6.31"
(6.122" Effective Contact)

Note: All Plates Are 2X4 Except As Shown.

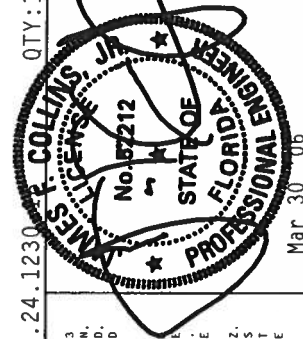
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave R QTY: 1 FL / - / 5 / - / R / - Scale = .375" / Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (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 A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEER PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN ACCORDANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGNER'S RESPONSIBILITY IS TO PROVIDE CORRECT INFORMATION TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEER PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN ACCORDANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGNER'S RESPONSIBILITY IS TO PROVIDE CORRECT INFORMATION TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEER PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN ACCORDANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGNER'S RESPONSIBILITY IS TO PROVIDE CORRECT INFORMATION TO THE INSTALLATION CONTRACTOR.

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



REF	R215--	53582
DATE	03/30/06	
DRW	HCUSR215	06089214
HC-ENG	RA/WHK	
SEQN	114507	
FROM	CDM	
JREF	1SVX215	Z07

Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	webs	2x4	SP	#2	N

110 mph wind, 21.15 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 all flat TC @ 24" OC, all BC @ 24" OC.

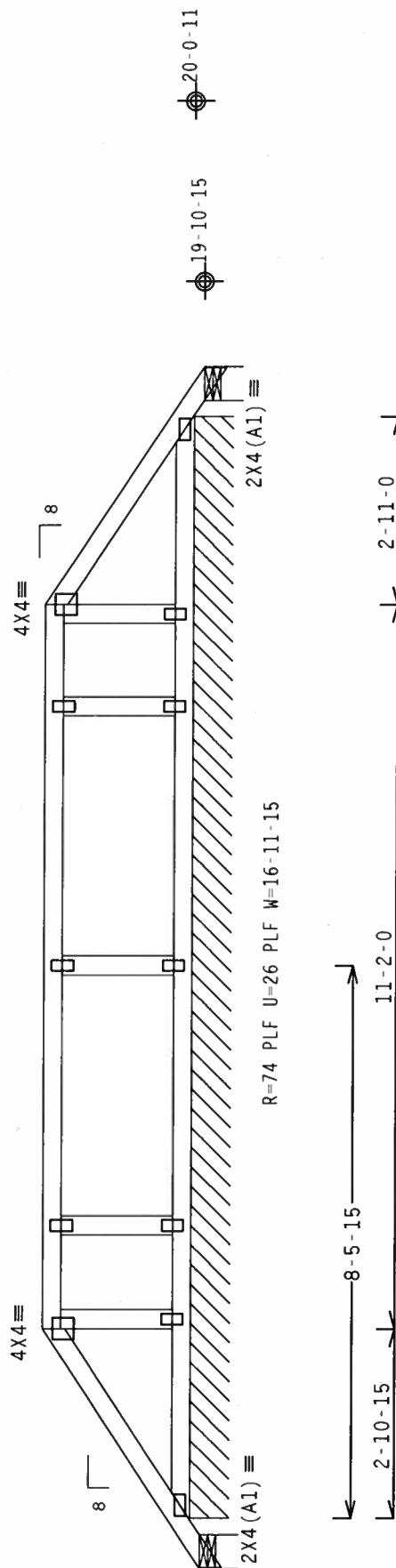
The overall height of this truss excluding overhang is 2-5-8.

REFER TO DRAWING PIGBACKB0204 FOR PIGGYBACK DETAILS.

TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED AT 24" O.C.

Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.


$$R=0 \quad U=180 \quad W=6.31''$$

(6.122" Effective Contact)

18-6-9 Over 3 Supports

$$R=0 \quad U=180 \quad W=6.31^{\circ}$$

(6.122" Effective Contact)

Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R

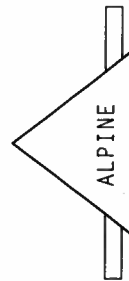
 $Cq/RT=1.00(1.25)/10(0)$

QTY:1 FL/-/5/-/-/R/-

Scale = .375"/Ft.

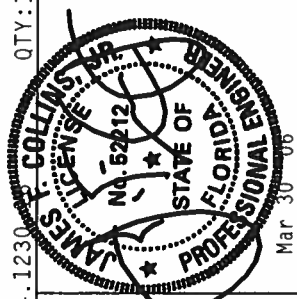
WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BESS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 1832 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND MCA GOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE 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 A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE ALPINE ENGINEERED TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND THE ALPINE TRUSS COMPANY'S TRUSS MANUFACTURING SPECIFICATIONS. THE TRUSS COMPANY'S TRUSS MANUFACTURING SPECIFICATIONS, PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION NUMBER 1001-2. ANY INSPECTION OF PLATES FOLLOWED BY 1) SHALL BE PER ANNEX A OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT OF THE BUILDING. THE TRUSS COMPANY HAS NO LIABILITY OR RESPONSIBILITY FOR THE REMAINING OF THE BUILDING. DESIGNER PER ANNEX 1 TPI1-2002 SEC. 2.



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

FL Certificate of Authorization # 567
Haines City, FL 33844



TC LL	20.0 PSF	REF R215 - - 53583
TC DL	10.0 PSF	DATE 03/30/06
BC DL	2.0 PSF	DRW HCUSR215 06089215
BC LL	0.0 PSF	HC-ENG RA/WHK
TOT.LD.	32.0 PSF	SEQN- 114510
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1SVX215 707

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

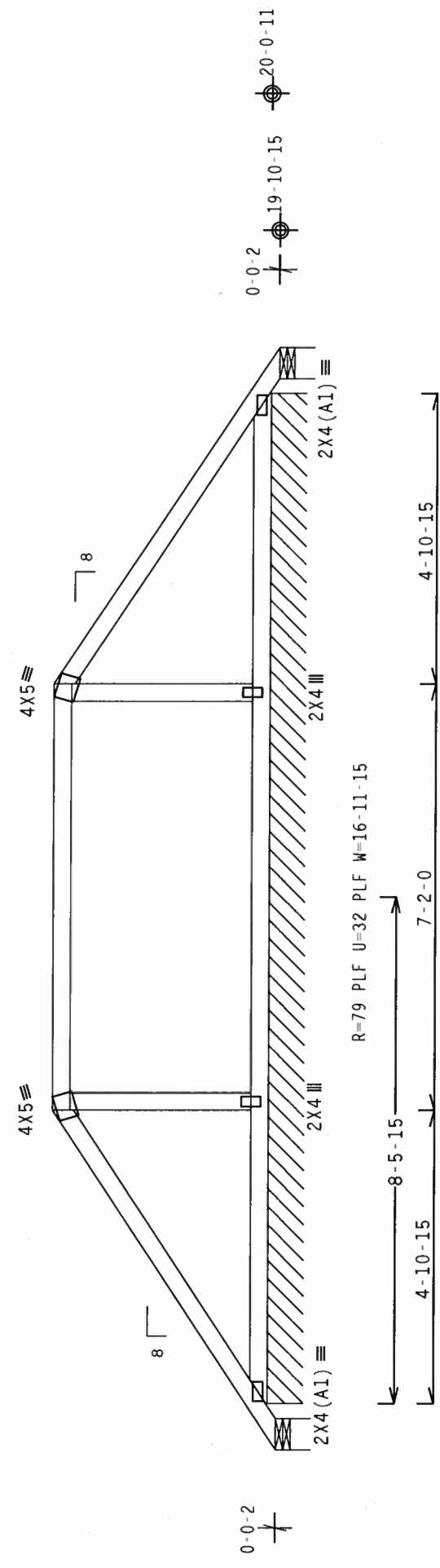
110 mph wind, 21.81 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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

Deflection meets L/360 live and L/240 total load.
Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 3-9-8.

REFER TO DRAWING PIGBACKB0204 FOR PIGGYBACK DETAILS.
TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED AT 24" O.C.



R=55 U=180 W=6.31"
(6.122" Effective Contact)

R=55 U=180 W=6.31"
(6.122" Effective Contact)

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

PLT TYP. Wave/R

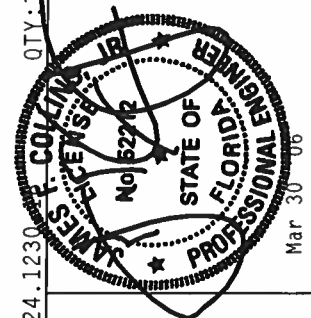
QTY: 1

FL/-/5/-/-/R/-

Scale = .375"/Ft.

 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 BCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND NITCA (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.		TC LL	20.0 PSF	REF	R215--	53584
	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 (N-H/S/K) ASTM A653 GRADE 40/60 (N. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-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 DL	10.0 PSF	DATE	03/30/06	
			BC DL	2.0 PSF	DRW	HCUSR215	06089216
			BC LL	0.0 PSF	HC-ENG	RA/WHK	
			TOT.LD.	32.0 PSF	SEQN-	114513	
			DUR.FAC.	1.25	FROM	CDM	
		SPACING	24.0"	JREF-	1SVX215_Z07		

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(3347-Lot 55 Callaway II /Chris Mills Homes - LAKE CITY, FL - PB-B4)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

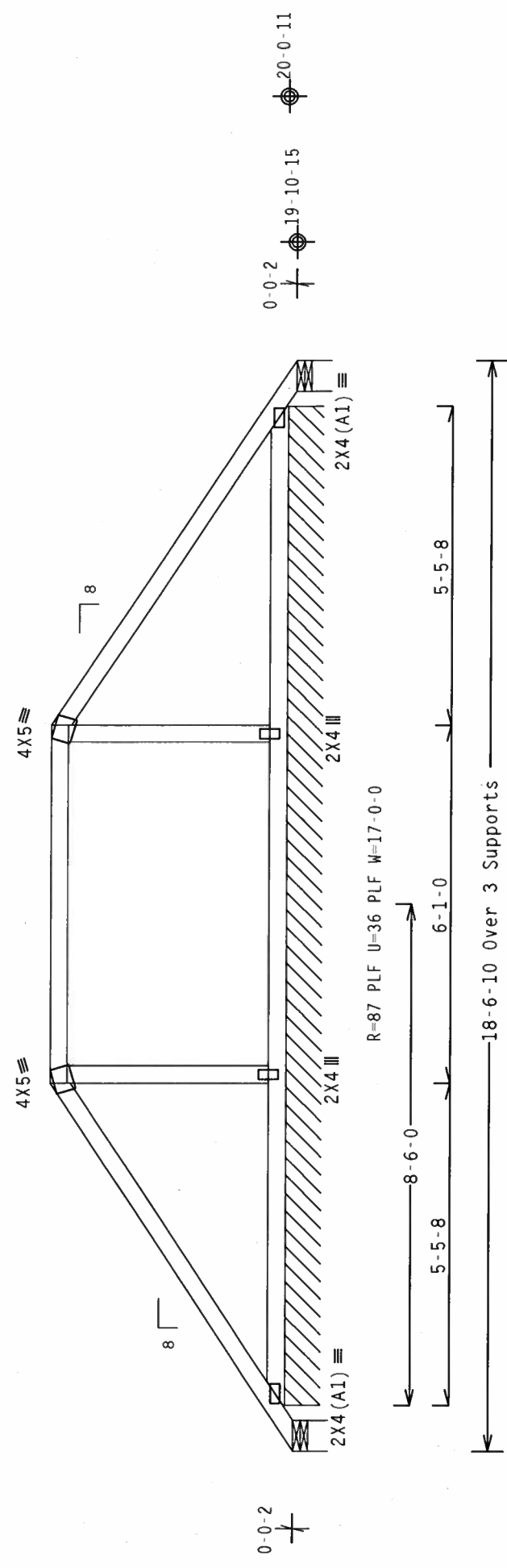
110 mph wind, 21.99 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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

Deflection meets L/360 live and L/240 total load.
Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 4-1-14.

REFER TO DRAWING PIGBACKB0204 FOR PIGGYBACK DETAILS.
TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED AT 24" O.C.



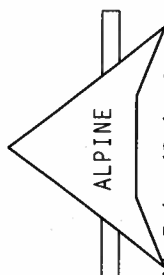
R=125 U=180 W=6.31"
(6.122" Effective Contact)

R=125 U=180 W=6.309"
(6.122" Effective Contact)

PLT TYP. Wave/R

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

Scale = .375"/Ft.



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 BC511-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND NITC (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 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 AND BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA 2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER'S CONSULTATION 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.

QTY: 1

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	2.0 PSF
BC LL	0.0 PSF
TOT.LD.	32.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

Scale = .375"/Ft.

REF	R215--	53585
DATE	03/30/06	
DRW	HCUSR215	06089217
HC-ENG	RA/WHK	
SEQN-	114516	
FROM	CDM	
JREF-	1SVX215_Z07	

(3347-/Lot 55 Callaway II /Chris Mills Homes -- LAKE CITY, FL - PB-B5)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

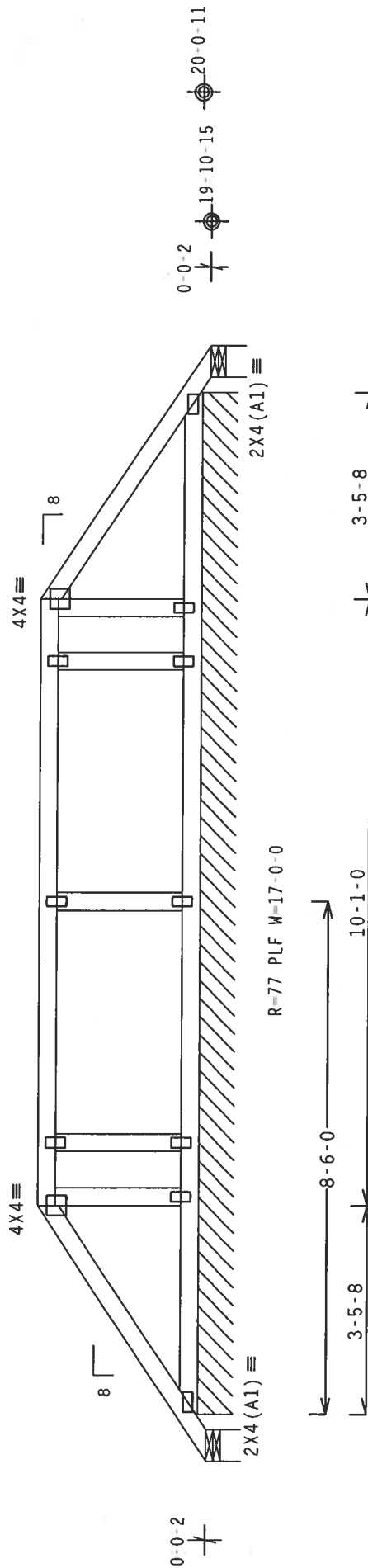
Plates sized for a minimum of 3.00 sq.in./piece.

REFER TO DRAWING PIGBACKB0204 FOR PIGGYBACK DETAILS.
TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO
BE BRACED AT 24" O.C.

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

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 2'-9-14".



R=41 W=6.31"

(6.122" Effective Contact)

Note: All Plates Are 2x4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave R

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

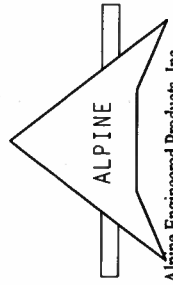
7.24.1230

FL/-5/-/-R/-

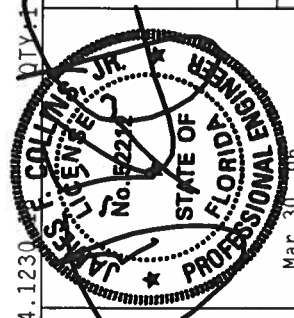
Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INFORMATION), D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BL., 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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FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R215--	53586
TC DL	10.0 PSF	DATE	03/30/06	
BC DL	2.0 PSF	DRW	HCUSR215	06089218
BC LL	0.0 PSF	HC-ENG	RA/WHK	
TOT.LD.	32.0 PSF	SEQN-	114519	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1SVX215_Z07	

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

110 mph wind, 20.66 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.

Deflection meets L/360 live and L/240 total load.

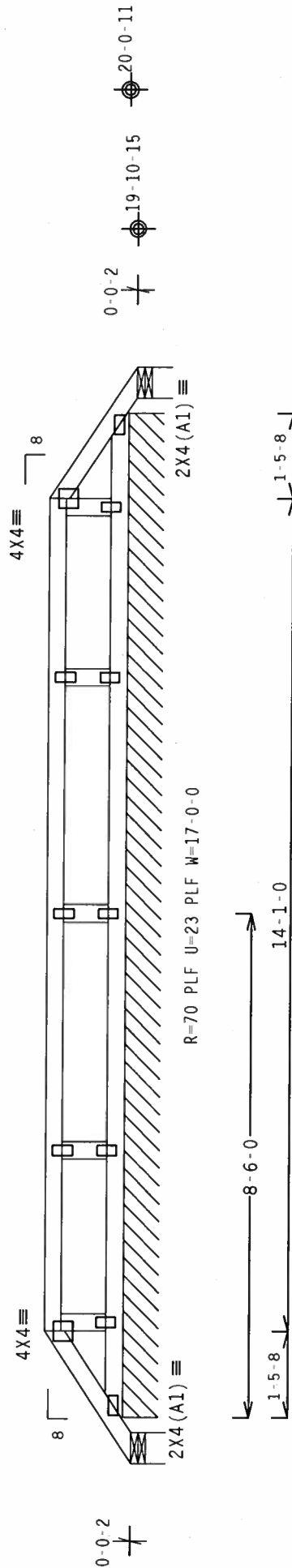
Plates sized for a minimum of 3.00 sq.in./piece.

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

The overall height of this truss excluding overhang is 1-5-14.

REFER TO DRAWING PIGBACKB0204 FOR PIGGYBACK DETAILS.

TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED AT 24" O.C.



R=18 U=180 W=6.31"
(6.122 Effective Contact)

Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave/R

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

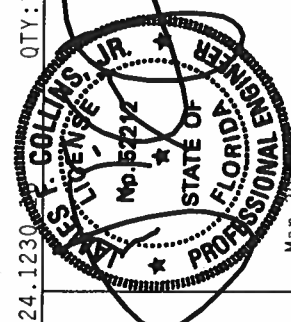
QTY: 1 FL/-/5/-/1-/R/-

Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND NCA (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.

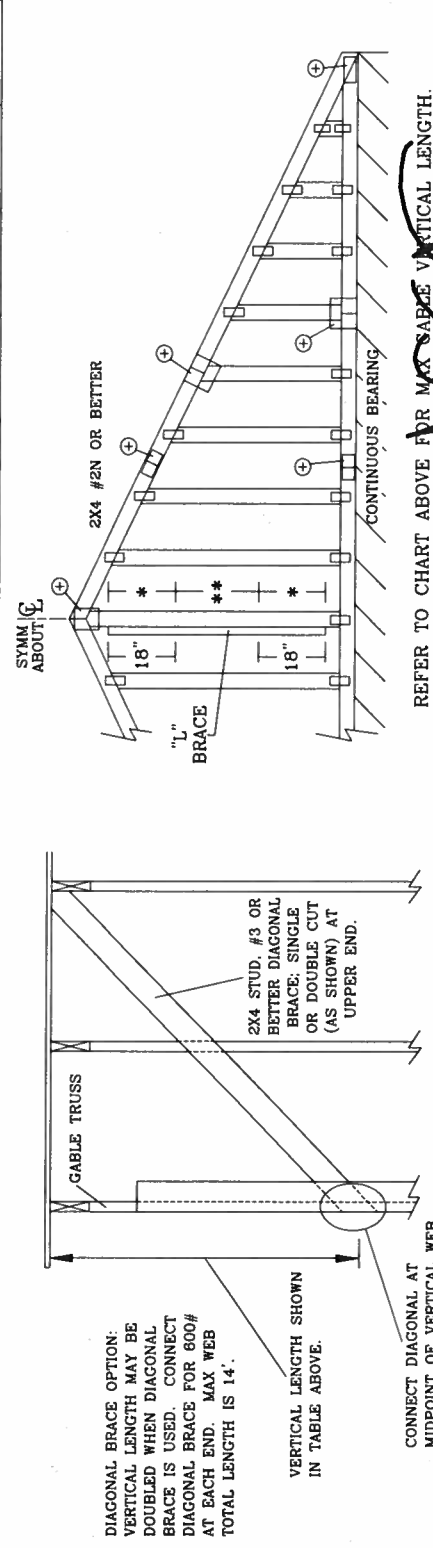
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE ENGINEERING PRODUCTS, INC. IS NOT RESPONSIBLE FOR THE DESIGN OF THE TRUSS OR THE TRUSS COMPONENTS. ANY INSPECTION OF PLATES FOLLOWED BY ANY INSPECTION OF THE TRUSS SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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



REF	R215--	53587
DATE	03/30/06	
DRW	HCUSR215	06089219
HC-ENG	RA/WHK	
SEQN	114522	
FROM	CDM	
JREF	1SVX215_Z07	

MAX GABLE VERTICAL LENGTH		BRACE		(1) 1X4 "L" BRACE •		(2) 2X4 "L" BRACE •		(1) 2X6 "L" BRACE •		(2) 2X6 "L" BRACE •	
		GABLE VERTICAL SPACING	BRACE GRADE	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
12" O.C.	SPF	3' 10"	#1 / #2	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"
	HF	3' 9"	#3	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"
	STUD	3' 9"	STUD	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"
	STANDARD	3' 9"	STANDARD	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"
24" O.C.	SP	4' 3"	#1	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"
	DFL	4' 2"	#2	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"
	STUD	4' 0"	#3	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"
	STANDARD	3' 10"	STANDARD	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"
16" O.C.	SPF	4' 5"	#1 / #2	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"
	HF	4' 4"	#3	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"
	STUD	4' 4"	STUD	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"
	STANDARD	4' 4"	STANDARD	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"
12" O.C.	SP	4' 10"	#1	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"
	DFL	4' 6"	#3	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"
	STUD	4' 5"	STUD	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"
	STANDARD	4' 11"	STANDARD	8' 5"	8' 5"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"
12" O.C.	SPF	4' 9"	#1	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"
	HF	4' 9"	#2	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"
	STUD	5' 4"	STUD	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"
	STANDARD	5' 0"	STUD	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"
12" O.C.	SP	5' 0"	STUD	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"
	DFL	4' 11"	STANDARD	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"



REFER TO CHART ABOVE FOR MAX SARGE VERTICAL LENGTH.

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

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

ATTACH EACH "L" BRACE WITH 10d NAILS.

* FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C. IN 18" END ZONES AND 4' O.C. BETWEEN ZONES.

** FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C. IN 18" END ZONES AND 6' O.C. BETWEEN ZONES.

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

GABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

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

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-02-CAB11015

DATE 04/15/05

DRWG A11015EE0405

-ENG

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 DUNDREID 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 BY THIS DESIGN, POSITION PER DRAWINGS 1604-2. ON THIS DRAWING INDICATES FOLLOWED BY (D) SHALL BE USED TO INDICATE A DOUBLE CUT. A DOUBLE CUT SHALL BE USED TO INDICATE THE LOCATION OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY ONLY FOR THE DESIGNER. THE DESIGNER SHALL BE RESPONSIBLE FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

JAMES F. COLLINS, JR.
No. 52212
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

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

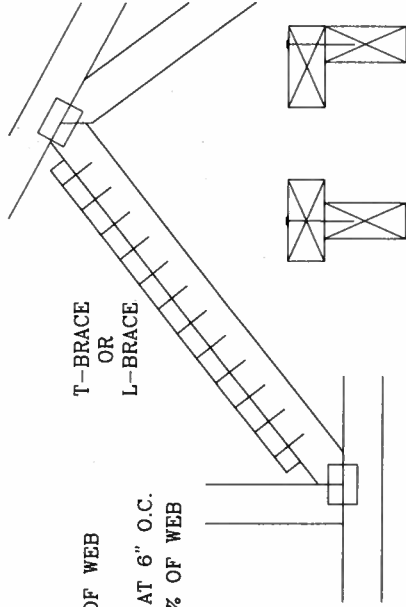
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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:

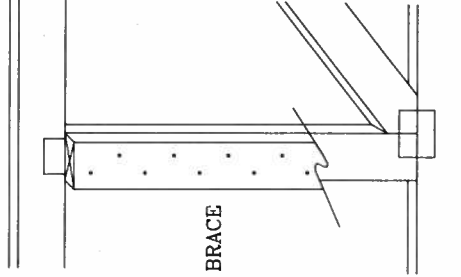
APPLY TO EITHER SIDE OF WEB
NARROW FACE
ATTACH WITH 16d NAILS AT 6" O.C.
BRACE IS A MINIMUM 80% OF WEB
MEMBER LENGTH



T-BRACE
OR
L-BRACE

SCAB BRACING:

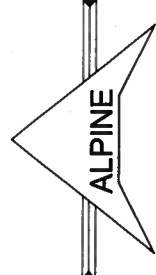
APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d OR .128"x3" GUN
NAILS AT 6" O.C. BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



SCAB BRACE

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO SPECIFICATIONS FOR TRUSS COMPANY, PUBLISHED BY THE TRUSS COMPANY 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. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY 1619P2 AND 1619P3. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. ON THIS DESIGN, POSITION PER DRAWINGS 1600A-2. ANY INSPECTION OF PLATES FOLLOWED BY G1 SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE 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 ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

THIS DRAWING REPLACES DRAWING 579.640

TC	LL	PSF	REF	CLB SUBST.
TC	DL	PSF	DATE	11/26/03
BC	DL	PSF	DRWG	BRLCLBSUB1103
BC	LL	PSF	-ENG	MLH/KAR
TOT.	LD.	PSF		
DUR.	FAC.			
SPACING				

