Columbia County Building Permit Application

For Office Use Only Application # 060068 Date Received 10/23 By JTH/JW Permit # 25486

Application Approved by - Zoning Official BLK Date 27.10.06 Plans Examiner OKJTH Date 12-1-06

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

Comments Per Engineer 1st Floor to be 24" above existing grade - ~~Septic~~ NOC

FAX 754-3819

Applicants Name Frezell Rowe Phone 386-752-8757

Add.... 140 NW Oosterhoudt Rd, Lake City, FL 32055

Owners Name Winfield Church of Christ Inc Phone 386-755-3304

911 Addre 267 NW Queen Rd Lake City, FL 32055

Contractors Name Frezell Rowe Phone

Address 140 N.W Oosterhoudt L.C., FL. 32055

Fee Simple Owner Name & Address —

Bonding Co. Name & Address —

Architect/Engineer Name & Address Nicholas Paul Geisler, Rt 17, Box 1038 Lake City 32055

Mortgage Lenders Name & Address CASH

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

Property ID Number 33-25-16-01831-009 Estimated Cost of Construction 150,000

Subdivision Name Lot Block Unit Phase

Driving Directions 41 North to Winfield Rd turn right on Queen Rd first Church on right

Type of Construction Church Number of Existing Dwellings on Property 0

Total Acreage 3 acre Lot Size 3 acre Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 75 ✓ Side 51 ✓ Side 249 ✓ Rear 173 ✓

Total Building Height 27' 1½ Number of Stories 1 Heated Floor Area 6720 Roof Pitch 12/6

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 COMMENCMENT 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.

Nathan + Mary Alyce Carter — Frezell Rowe

Owner Builder or Agent (Including Contractor) — Contractor Signature

STATE OF FLORIDA
COUNTY OF COLUMBIA

WILLIS O. COOPER
Notary Public - State of Florida
My Commission Expires Mar 23, 2009
Commission # DD 410391
Bonded By National Notary Assn.

Contractors License Number RR0019755

Competency Card Number

NOTARY STAMP/SEAL

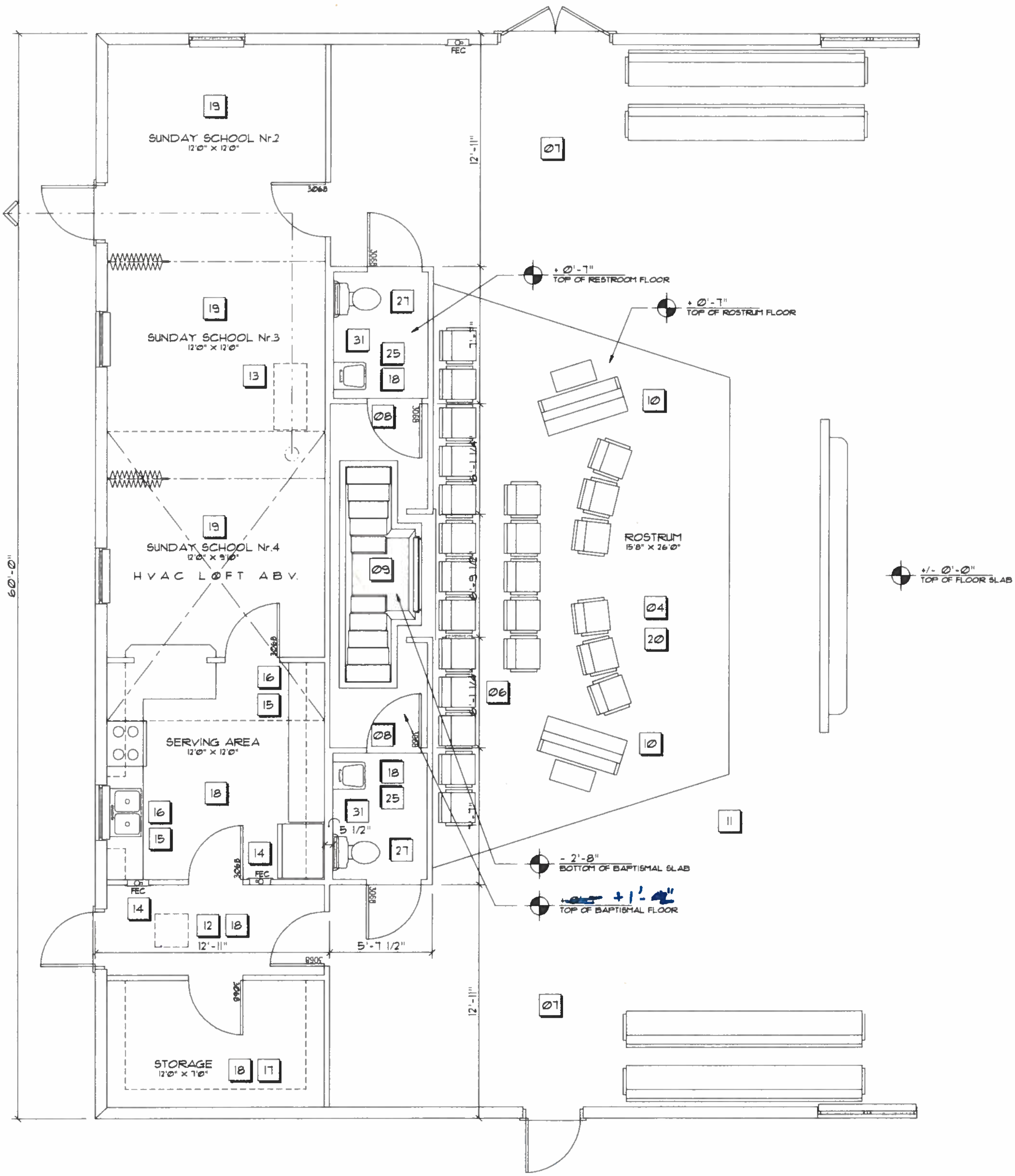
Sworn to (or affirmed) and subscribed before me this 30th day of Sept. 2006.

Personally known ✓ or Produced Identification

Willis O. Cooper
Notary Signature

NOC

25486



Floor PLAN

SCALE: 1/8" = 1'-0"

North

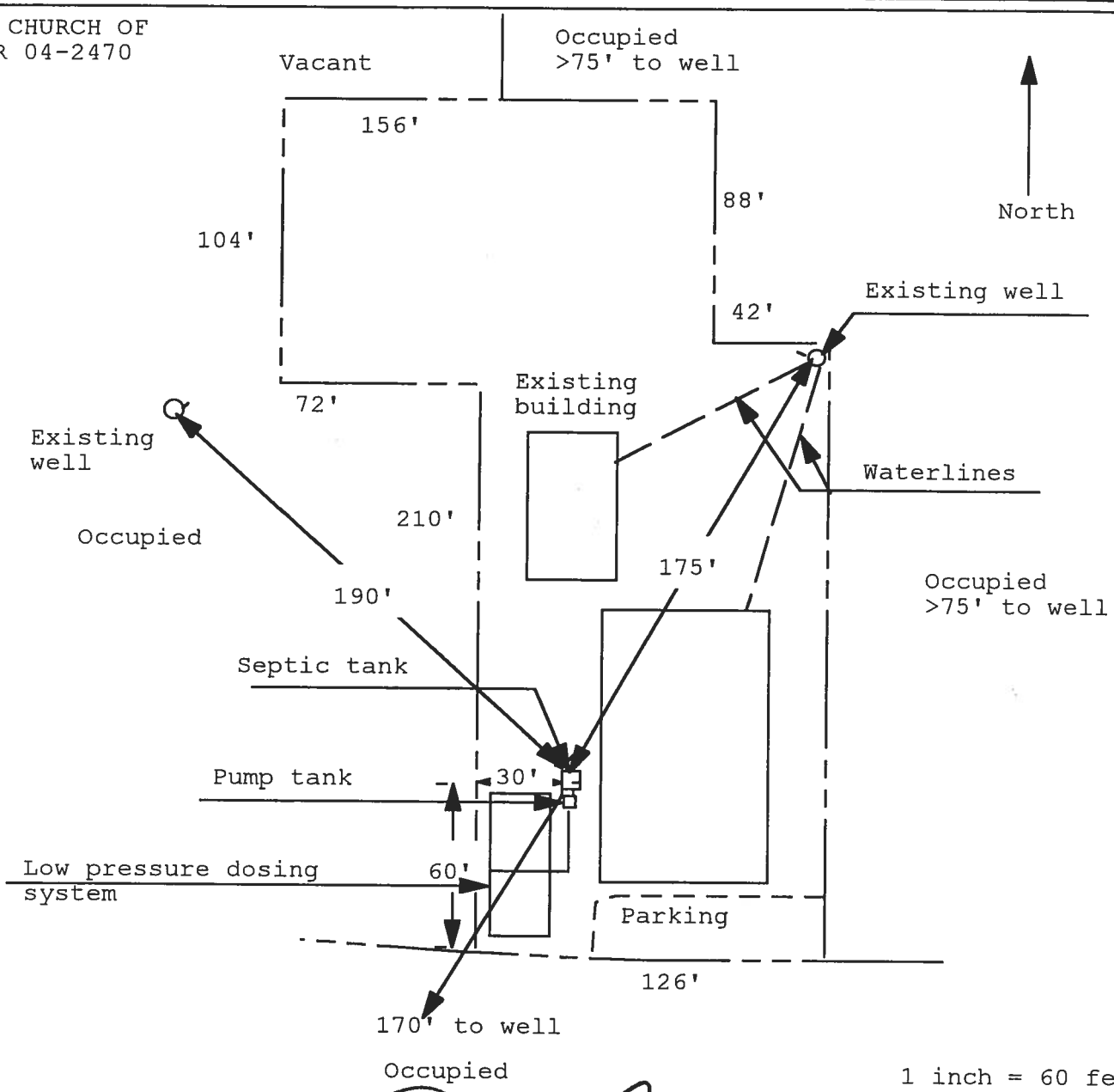
ARL7005 24APR2K7

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

Permit Application Number: 05-0164N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

WINFIELD CHURCH OF CHRIST/CR 04-2470



1 inch = 60 feet

Site Plan Submitted By Paul Lloyd **Date** 12/9/04

Plan Approved / **Not Approved** **Date** 12/9/04

By Sallie Gaddy **CPHU**

Notes: ESII

Columbia CHD

1-16-07

SUWANNEE RIVER WATER MANAGEMENT DISTRICT

December 13, 2004

Nathan and Mary Alyce Carter
769 Northeast Gurley Avenue
Lake City, Florida 32055

Subject: Receipt of Environmental Resource Permit Application for Winfield Church of Christ, ERP04-0590, Columbia County

Dear Mr. and Mrs. Carter:

The Suwannee River Water Management District (SRWMD) received your application package on December 13, 2004, for Winfield Church of Christ. Your proposed project has been assigned permit number ERP04-0590, and is currently under review by Resource Management staff. You will receive a response from staff within 30 days after receipt of the application package. This is pursuant to Chapter 120.60(1), Florida Statutes.

Please be advised that it is a violation of SRWMD rules to begin any work on the project before this permit is issued. Your submitted application package does not alleviate you from having to obtain all other clearances, permits, or authorization required by any other unit of local, state, or federal government.

Florida Statutes 373.419 states, "Within 30 days after the completion of construction or alteration of any stormwater management system, dam, impoundment, reservoir, appurtenant work, or works, the permittee shall file a written statement of completion with the governing board..." We will enclose the appropriate forms upon issuance of the permit to satisfy the requirement.

If you have any further questions, please contact Leroy Marshall at 386/362-1001, or toll free at 800/226-1066. In order to better serve you, please include the permit number in all correspondence.

Sincerely,

for

Jon Dinges
Director, Resource Management

cc: Winfield Church of Christ

SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT

9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

NOTICED GENERAL PERMIT

PERMITTEE:
NATHAN AND MARY ALYCE CARTER
769 NORTHEAST GURLEY AVENUE
LAKE CITY, FL 32055

PERMIT NUMBER: ERP04-0590
DATE ISSUED: 12/15/2004
DATE EXPIRES: 12/15/2007
COUNTY: COLUMBIA
TRS: S33/T2S/R16E

PROJECT: WINFIELD CHURCH OF CHRIST

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

WINFIELD CHURCH OF CHRIST
267 NORTHWEST QUEEN ROAD
LAKE CITY, FL 32055

~~Based on information provided, the Suwannee River Water Management District's (District) rules~~ have been adhered to and an environmental resource noticed general permit is in effect for the permitted activity description below:

Construction and operation of a surfacewater management system serving 0.16 acres of impervious surface on a total project area of 1.00 acres in a manner consistent with the application package submitted by Nathan Carter on December 13, 2004.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing pursuant to ss.120.57(1), Florida Statutes (F.S.), and s.40B-1.511, F.A.C., if they object to the District's actions. Failure to request a hearing within 14 days will constitute a waiver of your right to request such a hearing. In addition, the District will presume that permittee waives Chapter 120, F.S., rights to object or appeal the action upon commencement of construction authorized by the permit.

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A noticed general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

General Conditions for All Noticed General Permits:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this section are general permit conditions and are binding upon the permittee for all noticed general permits in Part II of this chapter. These conditions are enforceable under Part IV of chapter 373, F.S.

2. The general permit is valid only for the specific activity indicated. Any deviation from the specified activity and the conditions for undertaking that activity shall constitute a violation of the permit. A violation of the permit is a violation of Part IV of chapter 373, F.S., and may result in suspension or revocation of the permittee's right to conduct such activity under the general permit. The District may also begin legal proceedings seeking penalties or other remedies as provided by law for any violation of these conditions.

3. This general permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any construction, alteration, operation, maintenance, removal or abandonment authorized by this permit.

4. This general permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the general permit and Part II of this chapter.

5. This general permit does not relieve the permittee from liability and penalties when the permitted activity causes harm or injury to human health or welfare, animal, plant or aquatic life, or property. It does not allow the permittee to cause pollution in contravention of Florida Statutes and District rules.

6. The permittee is hereby advised that s.253.77, F.S., states that a person may not commence any excavation, construction or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the

Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

7. The authorization to conduct activities pursuant to general permit may be modified, suspended or revoked in accordance with chapter 120, and s.373.429, F.S.

8. This permit shall not be transferred to a third party except pursuant to s.40B-4.1130, F.A.C. The permittee transferring the general permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located.

9. Upon reasonable notice to the permittee, District staff with proper identification shall have permission to enter, inspect, sample and test the permitted system to insure conformity with the plans and specifications approved by the permit.

10. The permittee shall maintain any permitted system in accordance with the plans submitted to the District and authorized by this general permit.

11. A permittee's right to conduct a specific noticed activity under this noticed general permit is authorized for a duration of two years.

12. Construction, alteration, operation, maintenance, removal and abandonment approved by this general permit shall be conducted in a manner which does not cause violations of state water quality standards, including any antidegradation provisions of s.62-4.242(1)(a) and (b), 62-4.242(2) and (3), and 62-302.300, F.A.C., and any special standards for Outstanding Florida Waters and Outstanding National Resource Waters. The permittee shall implement best management practices for erosion, turbidity and other pollution control to prevent violation of state water quality standards. Temporary erosion control measures such as sodding, mulching, and seeding shall be implemented and shall be maintained on all erodible ground areas prior to and during construction. Permanent erosion control measures such as sodding and planting of wetland species shall be completed within seven days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into wetlands or other surface waters exists due to the permitted activity. Turbidity barriers shall remain in place and shall be maintained in a functional condition at all locations until construction is completed and soils are stabilized and vegetation has been established. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

13. The permittee shall hold and save the District harmless from any and all damages, claims or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the general permit.

14. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

15. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.

16. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by _____ Date Approved 12/15/04
District Staff

Home
Property Search
Agriculture Classification
Amendment 10
Exemptions
Tangible Property Tax
Tax Rates
Report & Map Pricing
Important Dates
Office Directory
E-mail us Comments

Parcel ID: 33-2S-16-01831-009 02

Columbia County Property Appraiser

Show: **Tax Info** | **GIS Map** | **Property Card**

Owner & Property Info

Owner's Name	WINFIELD CHURCH OF CHRIST INC
Site Address	QUEEN
Mailing Address	267 NW QUEEN RD LAKE CITY, FL 32055
Brief Legal	COMM SW COR OF N1/2 OF SE1/4 OF SE1/4, RUN E 420 FT FOR POB, RUN N 210 FT, W 72.21 FT,

Use Desc. (code)	CHURCHES (007100)
Neighborhood	33216.00
Tax District	3
UD Codes	
Market Area	03
Total Land Area	1.000 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (1)	$6,500.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (1)	$33,905.00
XFOB Value	cnt: (1)	$400.00
Total Appraised Value		$40,805.00

Just Value	$40,805.00
Class Value	$0.00
Assessed Value	$40,805.00
Exempt Value	(code: 02) $40,805.00
Total Taxable Value	$0.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
11/19/2001	940/633	WD	I	U	01	$100.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1973	Vinyl Side (31)	1920	1984	$33,905.00
	Note: All S.F. calculations are based on exterior building dimensions.					

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	2000	$400.00	1.000	0 x 0 x 0	(.00)

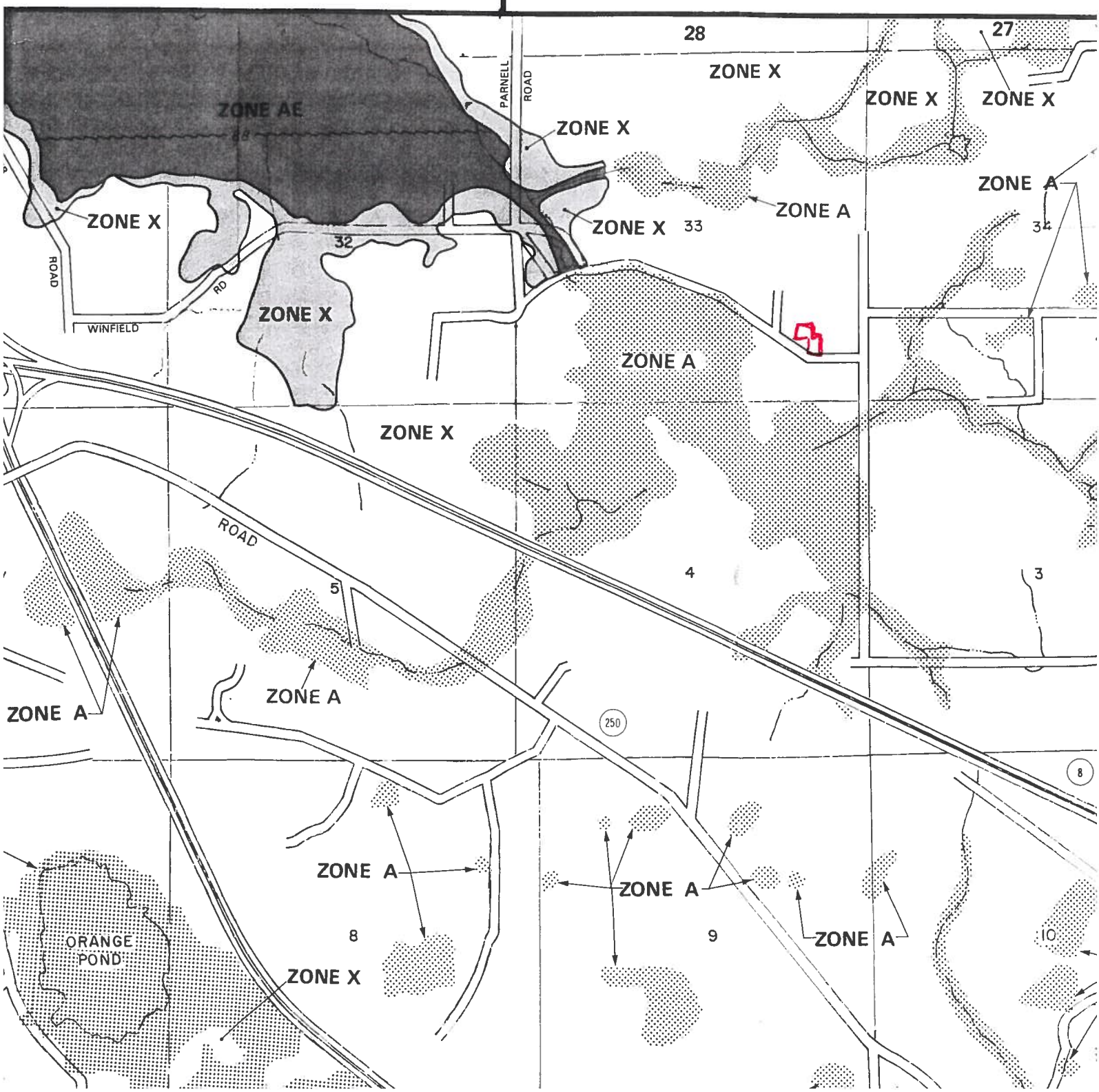
Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
007100	CHURCH (MKT)	1.000 AC	1.00/1.00/1.00/1.00	$6,500.00	$6,500.00

Columbia County Property Appraiser DB Last Updated: 10/8/2004

1 of 1

0610-68


ZONE AE
ZONE X
ZONE A
28
27
33
34
32
PARNELL ROAD
WINFIELD RD
ROAD
5
4
3
8
9
10
250
ORANGE POND

#25486

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

THIS DOCUMENT MUST BE RECORDED AT THE COUNTY CLERKS OFFICE BEFORE YOUR FIRST INSPECTION

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and inaccordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.
IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Tax Parcel ID Number 33-25-16-01831-009 Permit Number _____

1. Description of property: (legal description of the property and street address or 911 address)

Winfield Church Of Christ Inc., 267 N. W. Queen Rd. Lake City, Florida 32055

2. General description of improvement: New Building

3. Owner Name & Address Winfield Church OF Christ Inc.. 267 N. W. Queen Rd Lake City Florida 32055 Interest in Property _____

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

5. Contractor Name Frezell Rowe Phone Number 752-8941

Address 140 N.W. oostehoudt Rd. Lake City, Florida 32055

6. Surety Holders Name _____ Phone Number _____

Address _____

Amount of Bond _____

Inst:2007002871 Date:02/06/2007 Time:12:56
DC,P.DeWitt Cason,Columbia County B:1109 P:2639

7. Lender Name _____

Address _____

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

Name _____ Phone Number _____

Address _____

9. In addition to himself/herself the owner designates _____ of _____ to receive a copy of the Lien Notice as provided in Section 713.13 (1) – (a) 7. Phone Number of the designee _____

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

THE OWNER MUST SIGN THE NOTICE OF COMMENCEMENT AND NO ONE ELSE MAY BE PERMITTED TO SIGN IN HIS/HER STEAD.

Signature of Owner

Sworn to (or affirmed) and subscribed before day of Feb. 6, 2007.

Willis O. Cooper NOTARY STAMP/SEAL
Signature of Notary

WILLIS O. COOPER
Notary Public - State of Florida
My Commission Expires Mar 23, 2009
Commission # DD 410391
Bonded By National Notary Assn.

Florida Energy Efficiency Code For Building Construction
Florida Department of Community Affairs

EnergyGauge FlaCom v 2.11 FORM 400A-2004
Whole Building Performance Method for Commercial Buildings

Jurisdiction: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

Short Desc: New Prj
Project: WINFIELD CHURCH OF CHRIST
Owner: -
Address: -
-
City: LAKE CITY
State: FL
PermitNo: 0
Zip: 32055
Storeys: 1

Type: Religious Building
Class: New Finished building
***Conditioned Area:** 6720
***Cond + UnCond Area:** 6720

* denotes lighted area. Does not include wall crosection areas

Max Tonnage: 4.5 (if different, write in)

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Use	7,989.56	9,631.91	**PASSES**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**PASSES**
HVAC SYSTEM			**PASSES**
PLANT			**None Entered**
WATER HEATING SYSTEMS			**PASSES**
PIPING SYSTEMS			**PASSES**
Met all required compliance from Check List?			**Yes/No/NA**

IMPORTANT NOTE: An input report Print-Out from EnergyGauge Com of this design building must be submitted along with this Compliance Report.

COMPLIANCE CERTIFICATION:

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

PREPARED BY: NICHOLAS GEISLER
AR7005

DATE: 15NOV06

I hereby certify that this building is in compliance with the Florida Energy Efficiency Code.

OWNER AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____

If required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Code.

		REGISTRATION No.
ARCHITECT :	**NICHOLAS GEISLER** 15 NOV 06	AR0007005
ELECTRICAL SYSTEM DESIGNER		
LIGHTING SYSTEM DESIGNER:		
MECHANICAL SYSTEM DESIGNER:		
PLUMBING SYSTEM DESIGNER:		

(*) Signature is required where Florida Law requires design to be performed by registered design professionals. Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

Whole Building Compliance

	Design	Reference
Total	*83.44*	*100.00*
	$7,989.56	*$9,631.91*
ELECTRICITY(MBtu/kWh/$)	83.44 157,585.00 *$7,989.56*	100.00 188,861.00 *$9,631.91*
AREA LIGHTS	21.60 40,791.00 *$2,068.10*	24.89 47,002.00 *$2,397.10*
MISC EQUIPMT	5.21 9,845.00 *$499.14*	5.21 9,845.00 *$502.10*
PUMPS & MISC	0.03 59.00 *$2.99*	0.03 59.00 *$3.01*
SPACE COOL	26.92 50,830.00 *$2,577.08*	36.48 68,888.00 *$3,513.29*
VENT FANS	29.68 56,060.00 *$2,842.24*	33.39 63,067.00 *$3,216.42*

Credits & Penalties (if any): Modified Points: = 83.45 | **PASSES**

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

External Lighting Compliance

Description	Category	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Building Entrance with (or free standing) Canopy	3.00	176.0	528	100
Ext Light 2	Building exit	20.00	15.0	300	60

Design: 340 (W)
Allowance: 828 (W)

PASSES

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	No. of Tasks	Design CP	Min CP	Compli-ance
Pr0Zo1Sp1	.001	Worship-Pulpit, Choir	5,940	1	22	3	PASSES
Pr0Zo1Sp2	14	Classroom/Lecture Hall	780	1	9	1	PASSES

PASSES

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

System Report Compliance

Pr0Sy1 **System 1** — **Constant Volume Air Cooled Split System < 65000 Btu/hr** — **No. of Units 4**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled < 65000 Btu/h Cooling Capacity		13.50	10.00	8.00		PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES

Pr0Sy2 **System 2** — **Constant Volume Air Cooled Split System < 65000 Btu/hr** — **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled < 65000 Btu/h Cooling Capacity		14.00	10.00	8.00		PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES

Pr0Sy3 **System 3** — **Constant Volume Air Cooled Split System < 65000 Btu/hr** — **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled < 65000 Btu/h Cooling Capacity		14.00	10.00	8.00		PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance

None

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	<= 12 [kW]	0.89	0.86			PASSES

PASSES

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILL

Piping System Compliance

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance
Domestic and Service Hot Water Systems	0.75	False	125.00	0.28	0.60	0.50	PASSES

PASSES

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILL

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Infiltration	406.1	Infiltration Criteria have been met	☐
System	407.1	HVAC Load sizing has been performed	☐
Ventilation	409.1	Ventilation criteria have been met	☐
ADS	410.1	Duct sizing and Design have been performed	☐
T & B	410.1	Testing and Balancing will be performed	☐
Motors	414.1	Motor efficiency criteria have been met	☐
Lighting	415.1	Lighting criteria have been met	☐
O & M	102.1	Operation/maintenance manual will be provided to owner	☐
Roof/Ceil	404.1	R-19 for Roof Deck with supply plenums beneath it	☐
Report	101	Input Report Print-Out from EnergyGauge FlaCom attached?	☐

EnergyGauge FlaCom v 2.11

INPUT DATA REPORT

Project Information

Project Name: New Prj
Project Title: WINFIELD CHURCH OF CHRIST
Address: -
-
State: FL
Zip: 32055
Owner: -

Orientation: South
Building Type: Religious Building
Building Classification: New Finished building
No.of Storeys: 1
GrossArea: 6720

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	Pr0Zo1	Zone 1	CONDITIONED	6720.0	1	6720.0	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multiplier	Total Area [sf]	Total Volume [cf]

In Zone: Pr0Zo1									
1	Pr0Zo1Sp1	Zo0Sp1	Worship-Pulpit, Choir	99.00	60.00	10.67	1	5940.0	63379.8
2	Pr0Zo1Sp2	Zo0Sp2	Classroom/Lecture Hall	13.00	60.00	10.67	1	780.0	8322.6

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts
In Zone: Pr0Zo1							
In Space: Pr0Zo1Sp1							
1	Compact Fluorescent	General Lighting	39	80	3120	Manual On/Off	9
2	Incandescent	General Lighting	35	60	2100	Manual On/Off	11
3	Incandescent	General Lighting	10	720	7200	Manual On/Off	2
4	Incandescent	Display/Accent Lighting	1	300	300	Manual On/Off	1
In Space: Pr0Zo1Sp2							
1	Compact Fluorescent	General Lighting	9	80	720	Manual On/Off	6
2	Incandescent	General Lighting	3	60	180	Manual On/Off	3

Walls

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone: Pr0Zo1											
1	Pr0Zo1Wa1	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	60.00	10.67	1	640.2	South	0.2067	5.7314	34.65	4.84
2	Pr0Zo1Wa2	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	112.00	10.67	1	1195.0	West	0.2067	5.7314	34.65	4.84

3	Pr0Zo1Wa3	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	60.00	10.67	1	640.2	North	0.2067	5.7314	34.65	4.84
4	Pr0Zo1Wa4	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	112.00	10.67	1	1195.0	East	0.2067	5.7314	34.65	4.84

Windows

No	Description	Type	Shaded	U [Btu/hr sf F]	SHG	Vis.Tr	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]
In Zone: Pr0Zo1										
In Wall: Pr0Zo1Wa1										
1	Pr0Zo1Wa1Wi1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	2	30.0
2	Pr0Zo1Wa1Wi2	User Defined	Yes	1.2500	0.70	0.58	3.00	5.00	2	30.0
In Wall: Pr0Zo1Wa2										
1	Pr0Zo1Wa2Wi1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	3	45.0
2	Pr0Zo1Wa2Wi2	User Defined	No	1.2500	0.70	0.58	5.67	6.83	3	116.2
In Wall: Pr0Zo1Wa3										
1	Pr0Zo1Wa3Wi1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	2	30.0
2	Pr0Zo1Wa3Wi2	User Defined	No	1.2500	0.70	0.58	3.00	3.00	1	9.0
In Wall: Pr0Zo1Wa4										
1	Pr0Zo1Wa4Wi1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	2	30.0
2	Pr0Zo1Wa4Wi2	User Defined	No	1.2500	0.70	0.58	5.67	6.83	3	116.2

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]
In Zone: Pr0Zo1											
In Wall: Pr0Zo1Wa1											
1	Pr0Zo1Wa1Dr1	Panel with 1-1/8" panels	No	3.00	6.67	2	20.0	0.5834	0.00	0.00	1.71
In Wall: Pr0Zo1Wa2											

1	Pr0Zo1Wa2Dr1	Panel with 1-1/8" panels	No	3.00	6.67	1	20.0	0.5834	0.00	0.00	1.71	☐
In Wall:	**Pr0Zo1Wa3**											
1	Pr0Zo1Wa3Dr1	Panel with 1-1/8" panels	No	3.00	6.67	2	20.0	0.5834	0.00	0.00	1.71	☐
In Wall:	**Pr0Zo1Wa4**											
1	Pr0Zo1Wa4Dr1	Panel with 1-1/8" panels	No	3.00	6.67	1	20.0	0.5834	0.00	0.00	1.71	☐

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone:	**Pr0Zo1**											
1	Pr0Zo1Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	33.50	112.00	1	3752.0	27.00	0.0320	1.50	8.22	31.24	☐
2	Pr0Zo1Rf2	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	33.50	112.00	1	3752.0	27.00	0.0320	1.50	8.22	31.24	☐

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]	
In Zone:											
In Roof:											☐

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone:	**Pr0Zo1**									

1	Pr0Zo1Fl1	Concrete floor, carpet and rubber pad	60.00	112.00	1	6720.0	0.5987	9.33	140.00	1.67	☐

Systems

Pr0Sy1 **System 1** **Constant Volume Air Cooled Split System < 65000 Btu/hr** **No. Of Units 4**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)	53500.00	13.50	8.00	☐
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	2000.00	0.80		☐

Pr0Sy2 **System 2** **Constant Volume Air Cooled Split System < 65000 Btu/hr** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)	35000.00	14.00	8.00	☐
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	1200.00	0.80		☐

Pr0Sy3 **System 3** **Constant Volume Air Cooled Split System < 65000 Btu/hr** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)	41000.00	14.00	8.00	☐
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	1400.00	0.80		☐

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV	
						☐

Water Heaters

	W-Heater Description	Capacit	Cap.Unit	I/P Rt.	Efficienc	Loss	
1	Electric water heater	50	[Gal]	5 [kW]	0.8900 [Ef]	[Btu/h]	☐

Ext-Lighting

	Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]	
1	Ext Light 1	Building Entrance with (or free standing) Canopy	1	100	176.00	Photo Sensor control	100.00	☐
2	Ext Light 2	Building exit	4	60	15.00	Photo Sensor control	240.00	☐

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?	
1	Domestic and Service Hot Water Systems	125.00	0.28	0.75	0.60	No	☐

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT	
ASHULTntAllFrm	User Defined	1	1.2500	0.7000	0.5800	☐

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	☐
151	Matl151	CONC HW, DRD, 140LB, 4IN	No	0.4403	0.3333	0.7570	140.00	0.2000	☐
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					☐
268	Matl268	0.625" stucco	No	0.1302	0.0521	0.4000	16.00	0.2000	☐
42	Matl42	8 in. Lightweight concrete block	No	2.0212	0.6670	0.3300	38.00	0.2000	☐
269	Matl269	.75" ISO BTWN24" oc	No	2.2321	0.0625	0.0280	4.19	0.3000	☐
12	Matl12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000	☐
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	☐
81	Matl81	ASPHALT-ROOFING, ROLL	Yes	0.1500					☐
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	☐

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1004	Concrete floor, carpet and rubber pad	No	No	0.60	9.33	140.00	1.6703	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	151	CONC HW, DRD, 140LB, 4IN	0.3333	0.00	☐
2	178	CARPET W/RUBBER PAD		0.00	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1011	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	No	No	0.21	5.73	34.65	4.8368	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	268	0.625" stucco	0.0521	0.00	☐
2	42	8 in. Lightweight concrete block	0.6670	0.00	☐
3	269	.75" ISO BTWN24" oc	0.0625	0.00	☐
4	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.00	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1026	Panel with 1-1/8" panels	No	Yes	0.58			1.7141	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	277	Panel with 1-1/8" panels (1.75")		0.00	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1038	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	No	No	0.03	1.50	8.22	31.2351	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	81	ASPHALT-ROOFING, ROLL		0.00	☐
2	244	PLYWOOD, 1/2IN	0.0417	0.00	☐
3	12	3 in. Insulation	0.2500	0.00	☐
4	23	6 in. Insulation	0.5000	0.00	☐
5	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.00	☐

Notice of Treatment 12463

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

Site Location: Subdivision Winfield Church
Lot # _____ Block# _____ Permit # 25486
Address 267 NW Queen Rd. L.C

Product used	Active Ingredient	% Concentration
☐ Dursban TC	Chlorpyrifos	0.5%
☐ Termidor	Fipronil	0.06%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%
☒ Premise		.12

Type treatment: ☐ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Church	6900	394	500gals

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

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

5-14-07	12:50	F299
Date	Time	Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink
6/04 ©

From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: 0610-68

Frezell Rowe as the contractor for owners Windfield Church of Christ Inc.
Property ID 33-2s-16-01831-009

On the date of October 26, 2006 application 0610-68 and plans for construction of a group A-3 assembly structure (church) were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0610-68 and when making reference to this application.

This is a plan review for compliance with the Florida Building Codes 2004 only and doesn't make any consideration toward the land use and zoning requirements.

1. Sections 106.3.5 of the building code minimum plan review criteria for buildings requires that a soil conditions/analysis be preformed to the following standards:

Section 1802.6 soil reports

The soil classification and design load-bearing capacity shall be shown on the construction document. Where required by the building official, a written report of the investigation shall be submitted that includes, but need not be limited to, the following information:

1. A plot showing the location of test borings and/or excavations.

2. A complete record of the soil samples.

3. A record of the soil profile.

4. Elevation of the water table, if encountered.

5. Recommendations for foundation type and design criteria, including but not limited to: bearing capacity of natural or compacted soil; provisions to mitigate the effects of expansive soils; mitigation of the effects of liquefaction, differential settlement and varying soil strength; and the effects of adjacent loads.

6. Expected total and differential settlement.

7. Pile and pier foundation information in accordance with Section 1808.2.2.

8. Special design and construction provisions for footings or foundations founded on expansive soils, as necessary.

9. Compacted fill material properties and testing in accordance with Section 1803.5

2. Provide a detail of the protection method of type V A (protected) structure for the following building elements (one hours) structural frame including columns, girders, trusses, bearing walls, exterior, interior,roof construction, including supporting beams and joists.

3. Provide the Florida Energy Efficiency Code for Building Construction, information of section 13-101.1 commercial building compliance methods. Commercial buildings of any size and multiple-family residential buildings greater than three stories shall comply with Subchapter 13-4 of the code. This chapter contains three compliance methods:

Method A: Whole Building Performance Method

Method B: Building Envelope Trade-off Method

Method C: Buildings Prescriptive Envelope Method

4. Provide one additional emergency light in the men's and women's bathrooms. One additional emergency light in nursery room and one additional emergency light in Sunday school room nr.5

5. Show the egress path from the second story mechanical room (Mechanical equipment rooms with no fuel-fired equipment shall be permitted to have a common path of travel not exceeding 100 feet).

6. Show the method of guards for the doors which provides access to the equipment in the second floor mechanical room.

1012.5 Mechanical equipment.

Guards shall be provided where appliances, equipment, fans or other components that require service are located within 10 feet (3048 mm) of a roof edge or open side of a walking surface and such edge or open side is located more than 30 inches (762 mm) above the floor, roof or grade below. The guard shall be constructed so as to prevent the passage of a 21-inch-diameter (533 mm) sphere.

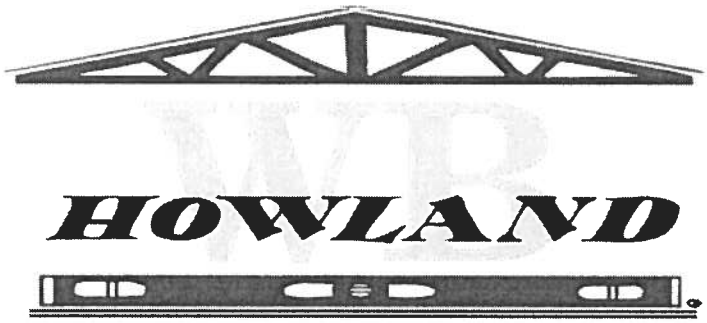
7. Show the method of providing a one hour fire barrier which will separate the mechanical room form the A-3 assembly area.

8. Have the truss designer certify that the truss design and floor system will have sufficient live load bearing capacity to support the concentrated load applied by the HVAC equipment.

The revised plans will be forwarded to the Columbia County Fire Department for review of life safety code requirements once the above requirements are meet.

Thank You:

Joe Haltiwanger
Plan Examiner
Columbia County Building Department



Hardware & Building Materials
Roof & Floor Trusses
Equipment Rental
P.O. Box 700
Live Oak, Fl. 32064
(386) 362-1235
Fax (386) 362-7124
www.WBHowland.com

9/29/06

Job Number: 1821 **Date: 9/29/06**
Floor Trusses
Job Name: Carter / Winfield Church
Approved by:_____

Please find enclosed two sets of sealed drawings and a layout for permitting. Also enclosed is another set of sealed drawings, a layout, notes, etc. for *your* review. You may wish to review this package with one or all of the following professionals: plan designer, engineer of record, building contractor, professional framer.

Careful review is important as trusses will be built in strict accordance with the enclosed layout and drawings.

A delivery pack will come with your trusses on the day of delivery. This pack contains BCSI-B1 summary sheet, truss layout, sealed drawings, etc. The BCSI-B1 sheet is a "guide for handling, installing and bracing of metal plate connected wood trusses". You should review this guide carefully as the installation and bracing of trusses requires extreme care. We will gladly furnish you with a copy of this guide in advance of delivery upon request.

We are four weeks out on deliveries.

We appreciate your business!

PLEASE REVIEW LAYOUT
AND DRAWINGS CAREFULLY
AS TRUSSES WILL BE BUILT
IN STRICT ACCORDANCE WITH
THIS LAYOUT.

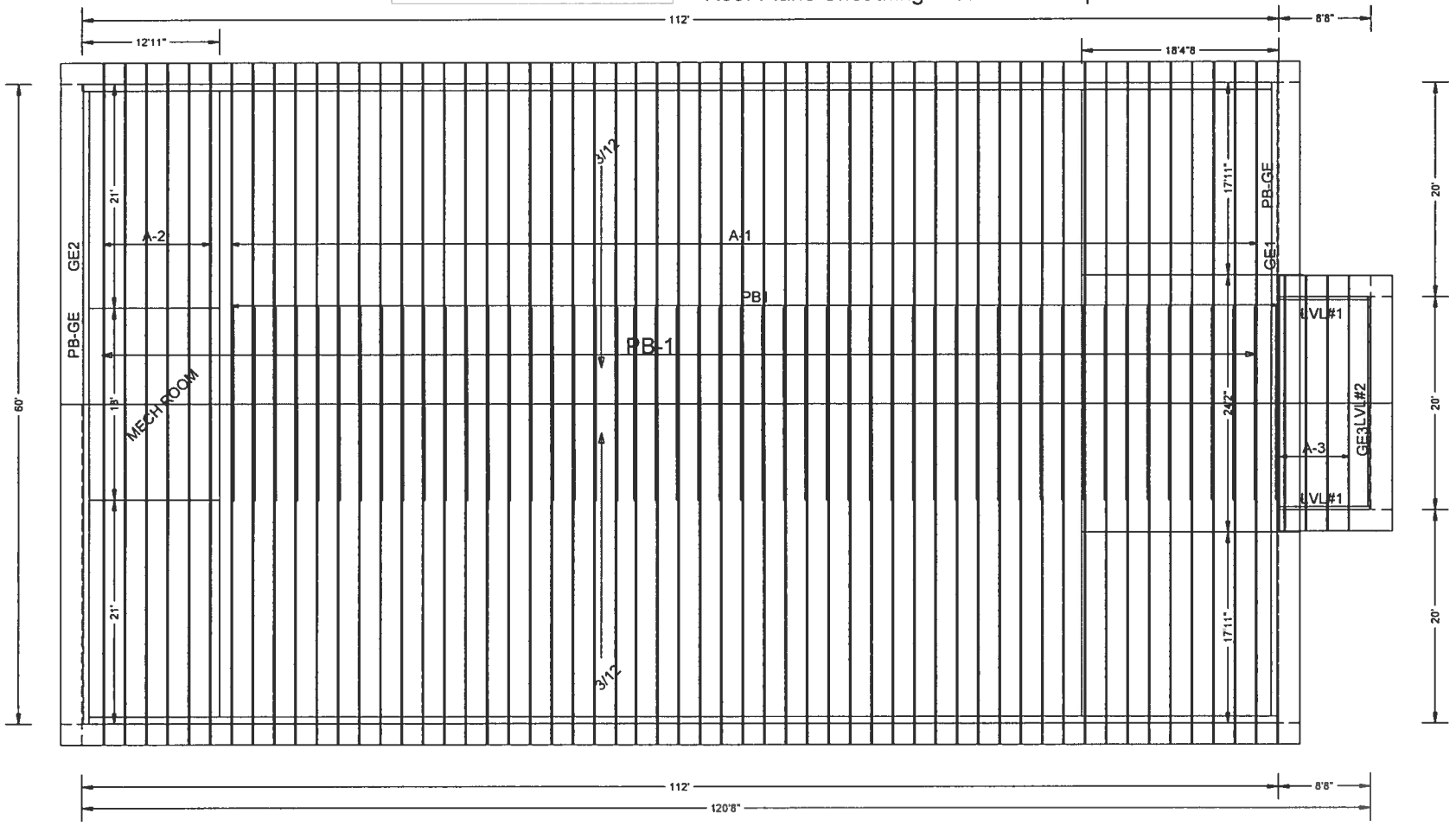
DATE:9/29/06
ROOF PITCH 6/12
CLG. PITCH:FLAT
OVERHANG:2'
LOADING:40#s PSF
WIND LOAD:110 MPH
EXT. WALLS:8" CMU
AT 10' HT.

Roof Plane Sheathing Area = 8587 sq. ft
Gable Sheathing Area = 957 sq. ft
Total Sheathing Area = 9544 sq. ft
Fascia Material = 423 linear ft
Ridge Cap Material = 127 linear ft

MECH ROOM SIZE
18' 1 5/8" X 8'

TOP CHORD LENGTH
35' 9 5/16"
Roof Plane Sheathing Area = 8587 sq. ft

QUOTE UPDATE,
9/22/06



Job Name: CARTER/WINFIELD CHURCH
Customer: HOUSE ACCOUNT
Designer: Lynn Bell

JOB NO:
1821

PAGE NO:
1 OF 1

PLEASE REVIEW LAYOUT
AND DRAWINGS CAREFULLY
AS TRUSSES WILL BE BUILT
IN STRICT ACCORDANCE WITH
THIS LAYOUT.

DATE 9/29/06
ROOF PITCH 6/12
CLG. PITCH.FLAT
OVERHANG.2'
LOADING:40#s PSF
WIND LOAD:110 MPH
EXT. WALLS:8" CMU
AT 10' HT.

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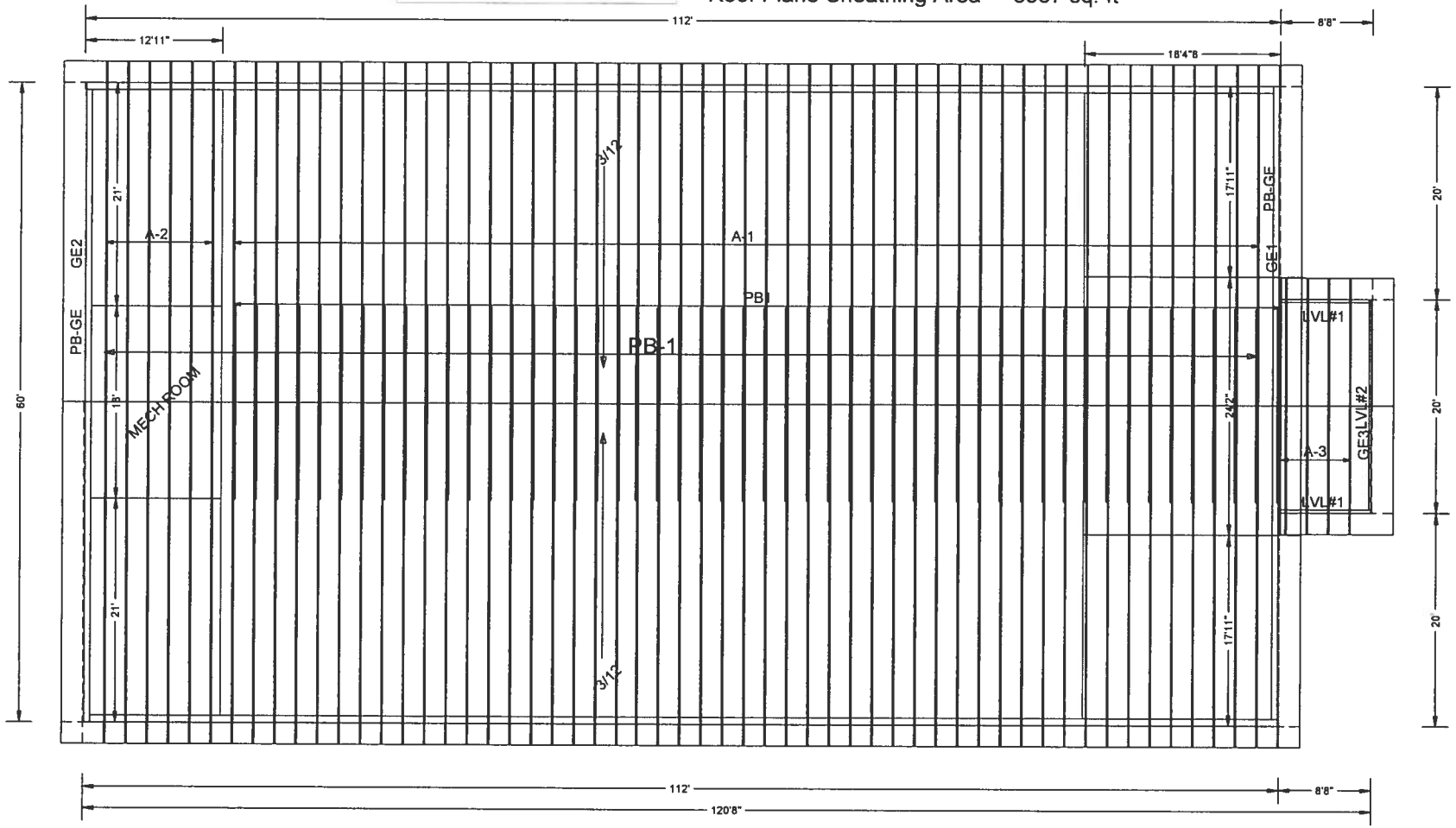
9/22/06



Job Name: CARTER/WINFIELD CHURCH
Customer: HOUSE ACCOUNT
Designer: Lynn Bell

JOB NO:
1821

PAGE NO:
1 OF 1

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
 Document ID:1T0Z215-Z0428080933

Truss Fabricator:	W.B. Howland
Job Identification:	1821-/CARTER//WINFIELD CHURCH /HOUSE ACCOUNT -- , **
Truss Count:	9
Model Code:	Florida Building Code 2004
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Version 7.25.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 32.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Seal Date: 09/28/2006

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. 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: BRCLBSUB-A11030EE-GBLLETIN-MAX DEAD LOAD-A11015EE-

#	Ref	Description	Drawing#	Date
1	10834	--A-1	06270059	09/27/06
2	10835	--A-2	06270060	09/27/06
3	10836	--A-3	06270058	09/27/06
4	10837	--GE1	06270061	09/27/06
5	10838	--GE2	06270062	09/27/06
6	10839	--GE3	06270063	09/27/06
7	10840	--PB1	06270065	09/27/06
8	10841	--PB-1	06270066	09/27/06
9	10842	--PB-GE	06270067	09/27/06

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
 Document ID:1T0Z215-Z0428080933

Truss Fabricator:	W.B. Howland
Job Identification:	1821-/CARTER//WINFIELD CHURCH /HOUSE ACCOUNT -- , **
Truss Count:	1
Model Code:	Florida Building Code 2004
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Version 7.25.
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: 09/28/2006

-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	10839--GE3		06270063	09/27/06

(1821-/CARTER//WINFIELD CHURCH /HOUSE ACCOUNT -- , ** - A-1)

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

Wind reactions based on MWFRS pressures.

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.

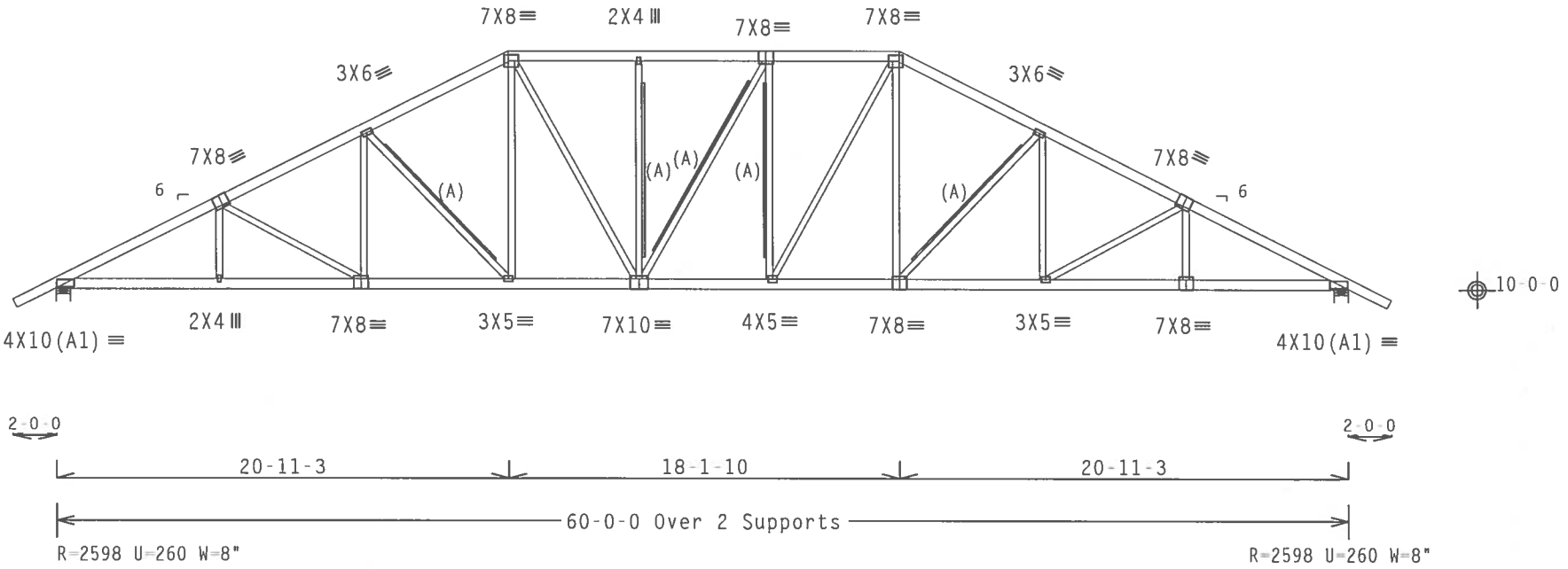
110 mph wind, 15.27 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) 1x4 "T" brace. 80% length of web member. Same species & grade or better. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" 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 11-0-0.



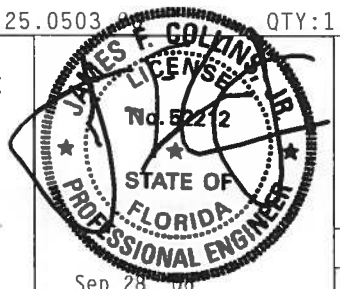
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R Cq/RT=1.00(1.25)/10(0) 7.25.0503 QTY:1 FL/-/5/-/-/R/- Scale =.125"/Ft.

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Sep 28 06

TC LL	20.0 PSF	REF	R215-- 10834
TC DL	10.0 PSF	DATE	09/27/06
BC DL	10.0 PSF	DRW	HCUSR215 06270059
BC LL	0.0 PSF	HC-ENG	EC/WHK
TOT.LD.	40.0 PSF	SEQN-	27526
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TOZ215_Z04

Top chord 2x6 SP #2 N :T4 2x4 SP #2 N: :T7 2x6 SP SS:
Bot chord 2x10 SP SS :B1 2x6 SP SS:
Webs 2x4 SP #2 N
:Lt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.833'

(A) Continuous lateral bracing equally spaced on member.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

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

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

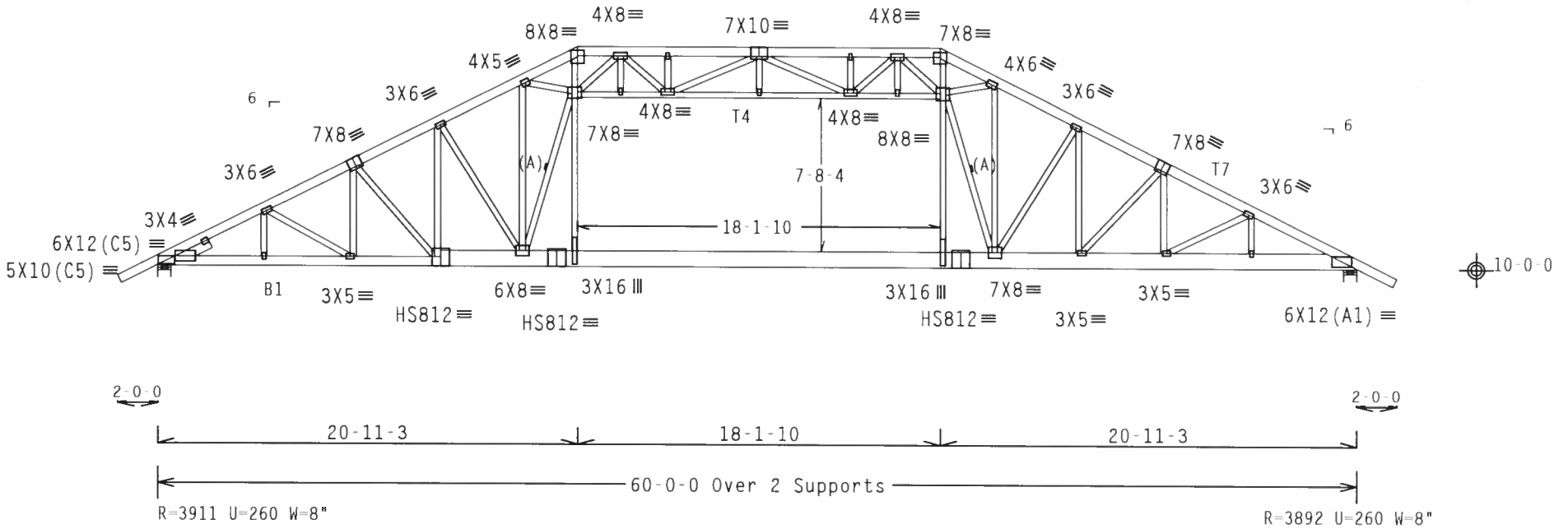
Wind reactions based on MWFRS pressures.

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

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 20-11-3 to 39-0-13.

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

The overall height of this truss excluding overhang is 11-0-0.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave\R Cq/RT=1.00(1.25)/10(0) 7.25.0503.00 QTY:1 FL/-/5/-/-/R/- Scale =.125"/Ft.

ALPINE

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

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JAMES E. COLLINS, JR. LICENSE No. 42212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Sep

TC LL	20.0 PSF	REF R215-- 10835
TC DL	10.0 PSF	DATE 09/27/06
BC DL	10.0 PSF	DRW HCUSR215 06270060
BC LL	0.0 PSF	HC-ENG EC/WHK
TOT.LD.	40.0 PSF	SEQN- 27503
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TOZ215_Z04

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

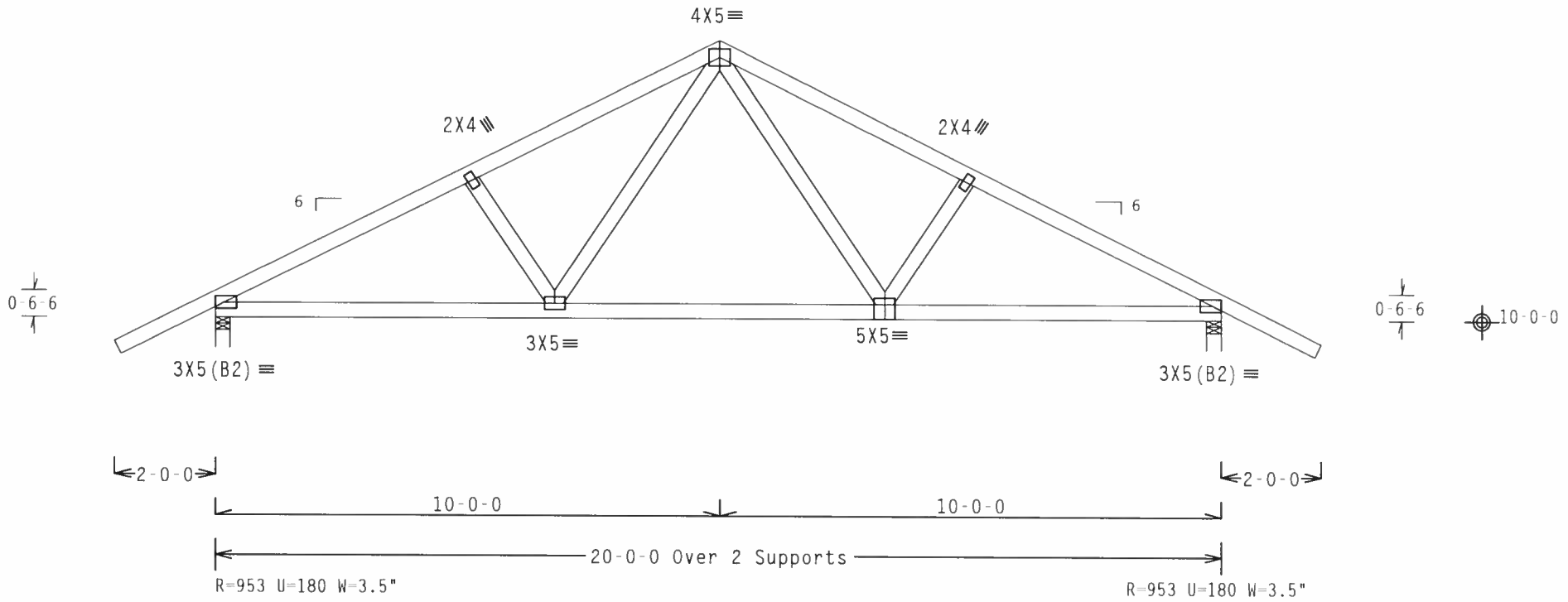
Wind reactions based on MWFRS pressures.

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 5-6-6.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave\R Cq/RT=1.00(1.25)/10(0) 7.25.0503 QTY:1 FL/-/5/-/-/R/- Scale =.3125"/Ft.

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

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JAMES R. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Sep 28 '06

TC LL	20.0 PSF	REF	R215-- 10836
TC DL	10.0 PSF	DATE	09/27/06
BC DL	10.0 PSF	DRW	HCUSR215 06270058
BC LL	0.0 PSF		HC-ENG EC/WHK *
TOT.LD.	40.0 PSF	SEQN-	27086
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1T0Z215_Z04

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

Wind reactions based on MWFRS pressures.

See DWGS A11030EE0405 & GBLLETIN0405 for more requirements.

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.

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.

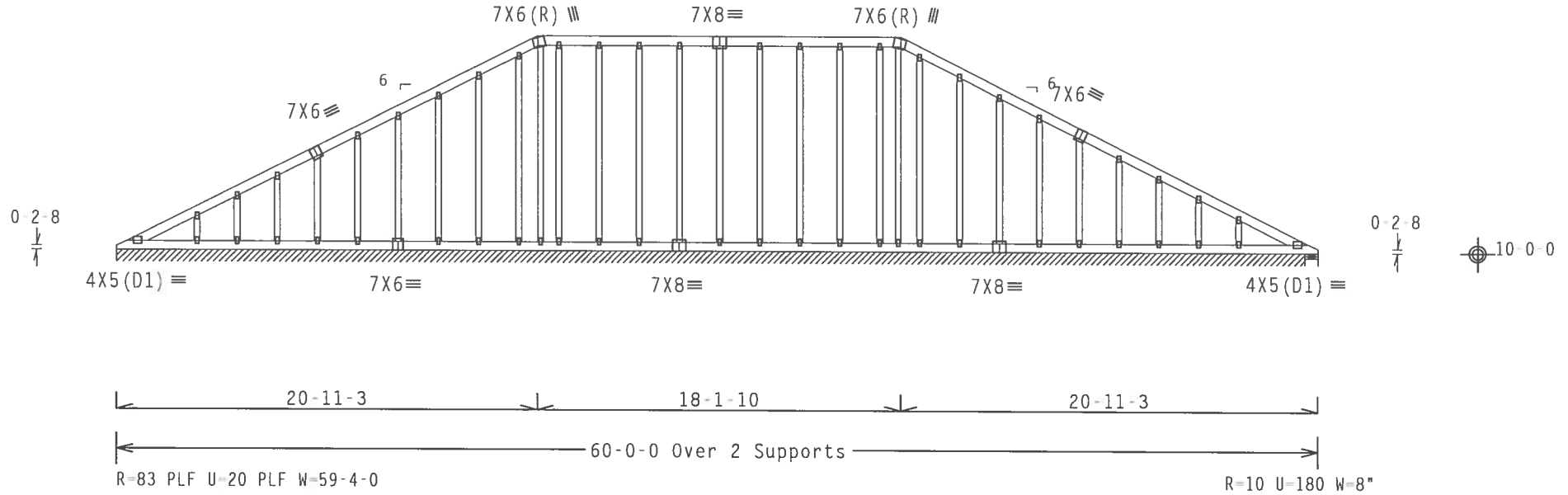
110 mph wind, 15.57 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Gable end supports 8" max rake overhang.

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 10-8-1.



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) 7.25.0503.0 QTY:1 FL/-/5/-/-/R/- Scale =.125"/Ft.

ALPINE

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

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JAMES F. COLLINS LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Sep 28 '06

TC LL	20.0 PSF	REF R215-- 10837
TC DL	10.0 PSF	DATE 09/27/06
BC DL	10.0 PSF	DRW HCUSR215 06270061
BC LL	0.0 PSF	HC-ENG EC/WHK
TOT.LD.	40.0 PSF	SEQN- 49200
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TOZ215_Z04

Top chord 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 172 PLF at 0.50 to 172 PLF at 59.50
BC - From 80 PLF at 0.00 to 80 PLF at 0.50
BC - From 20 PLF at 0.50 to 20 PLF at 14.00
BC - From 20 PLF at 14.00 to 20 PLF at 59.50
BC - From 80 PLF at 59.50 to 80 PLF at 60.00

See DWGS A11030EE0405 & GBLLETIN0405 for more requirements.

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

Wind reactions based on MWFRS pressures.

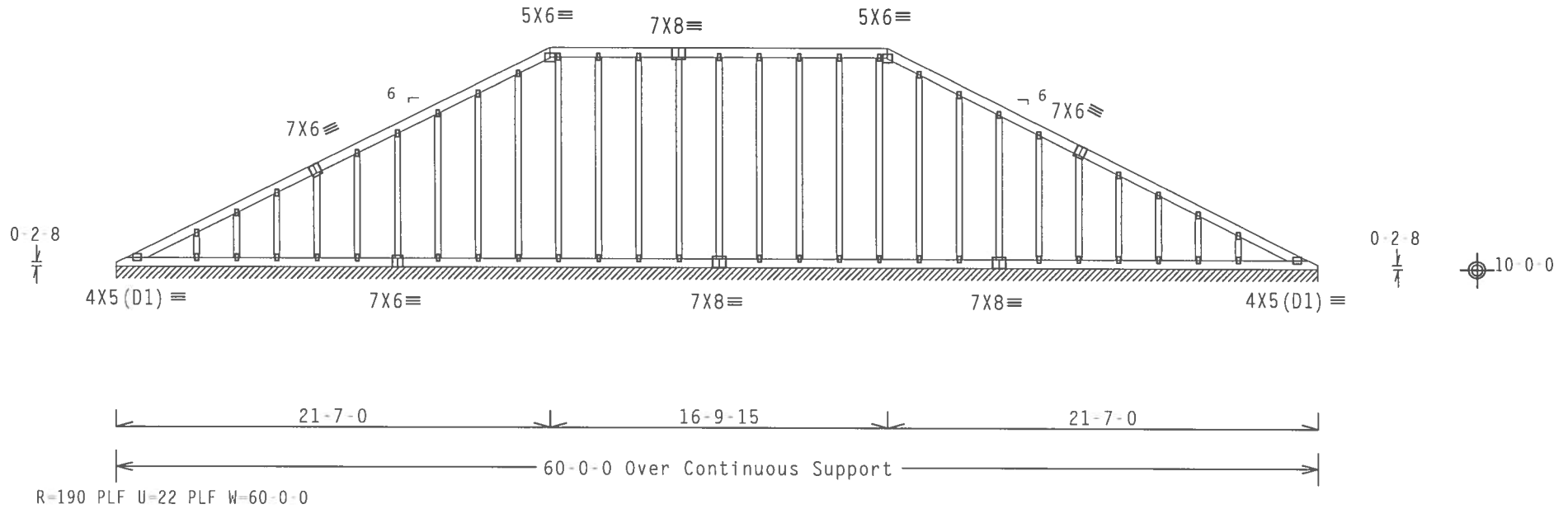
Dead loads are stated on projected horizontal area basis.

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 11-0-0.

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 Cq/RT=1.00(1.25)/10(0) 7.25.0503 QTY:1 FL/-/5/-/-/R/- Scale =.125"/Ft.

ALPINE

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

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Sep 28 '06

TC LL	20.0 PSF	REF	R215-- 10838
TC DL	10.0 PSF	DATE	09/27/06
BC DL	10.0 PSF	DRW	HCUSR215 06270062
BC LL	0.0 PSF	HC-ENG	EC/WHK
TOT.LD.	40.0 PSF	SEQN-	27078
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TOZ215_Z04

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 172 PLF at 0.17 to 172 PLF at 19.83
BC - From 20 PLF at 10.00 to 20 PLF at 19.83
BC - From 80 PLF at 19.83 to

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

The overall height of this truss excluding overhang is 5-2-8.

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

Wind reactions based on MWFRS pressures.

Dead loads are stated on projected horizontal area basis.

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

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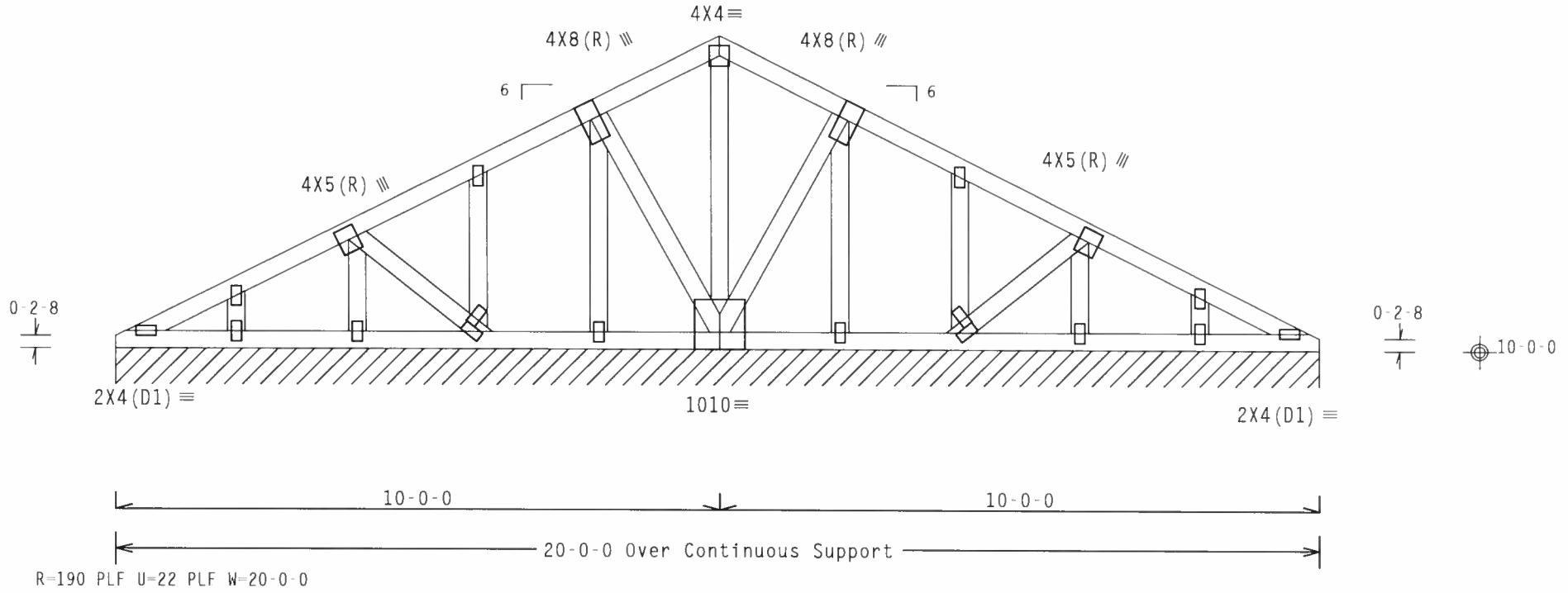

Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R Cq/RT=1.00(1.25)/10(0) 7.25.0503.00 QTY:1 FL/-/5/-/-/R/- Scale =.375"/Ft.

ALPINE

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FL Certificate of Authorization # 567

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Sep

TC LL	20.0 PSF	REF R215-- 10839
TC DL	10.0 PSF	DATE 09/27/06
BC DL	10.0 PSF	DRW HCUSR215 06270063
BC LL	0.0 PSF	HC-ENG EC/WHK
TOT.LD.	40.0 PSF	SEQN- 27088 REV
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TOZ215_Z04

(1821 /CARTER//WINFIELD CHURCH /HOUSE ACCOUNT -- , ** - PB1)

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

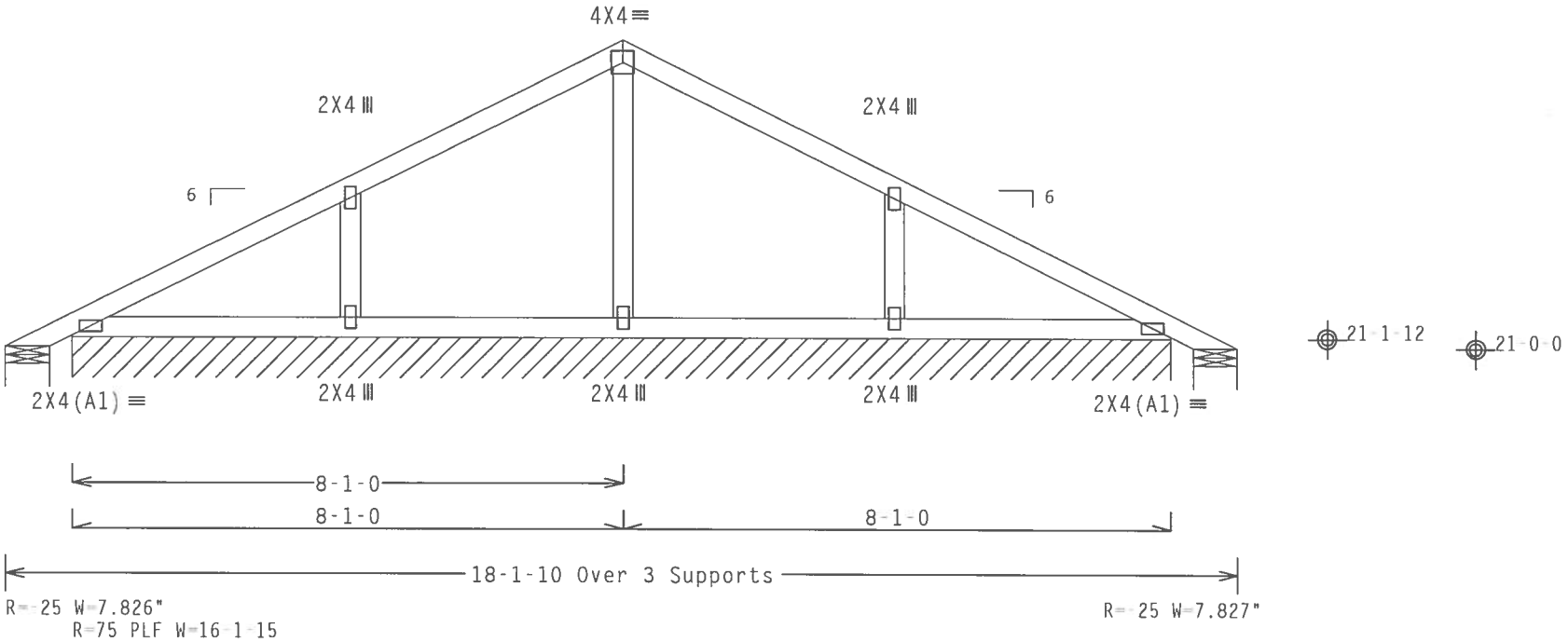
Plates sized for a minimum of 3.00 sq.in./piece.

REFER TO DRAWING PIGBACKB0204 FOR PIGGYBACK DETAILS.
TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED @ 24" O.C.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R Cq/RT=1.00(1.25)/10(0) 7.25.0503.0 QTY:1 FL/-/5/-/-/R/- Scale =.375"/Ft.

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

JAMES F. COLLINS LICENSE NO. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Sep 28 06

TC LL	20.0 PSF	REF R215-- 10840
TC DL	10.0 PSF	DATE 09/27/06
BC DL	2.0 PSF	DRW HCUSR215 06270065
BC LL	0.0 PSF	HC-ENG EC/WHK
TOT.LD.	32.0 PSF	SEQN- 27519
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TOZ215_Z04

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

Wind reactions based on MWFRS pressures.

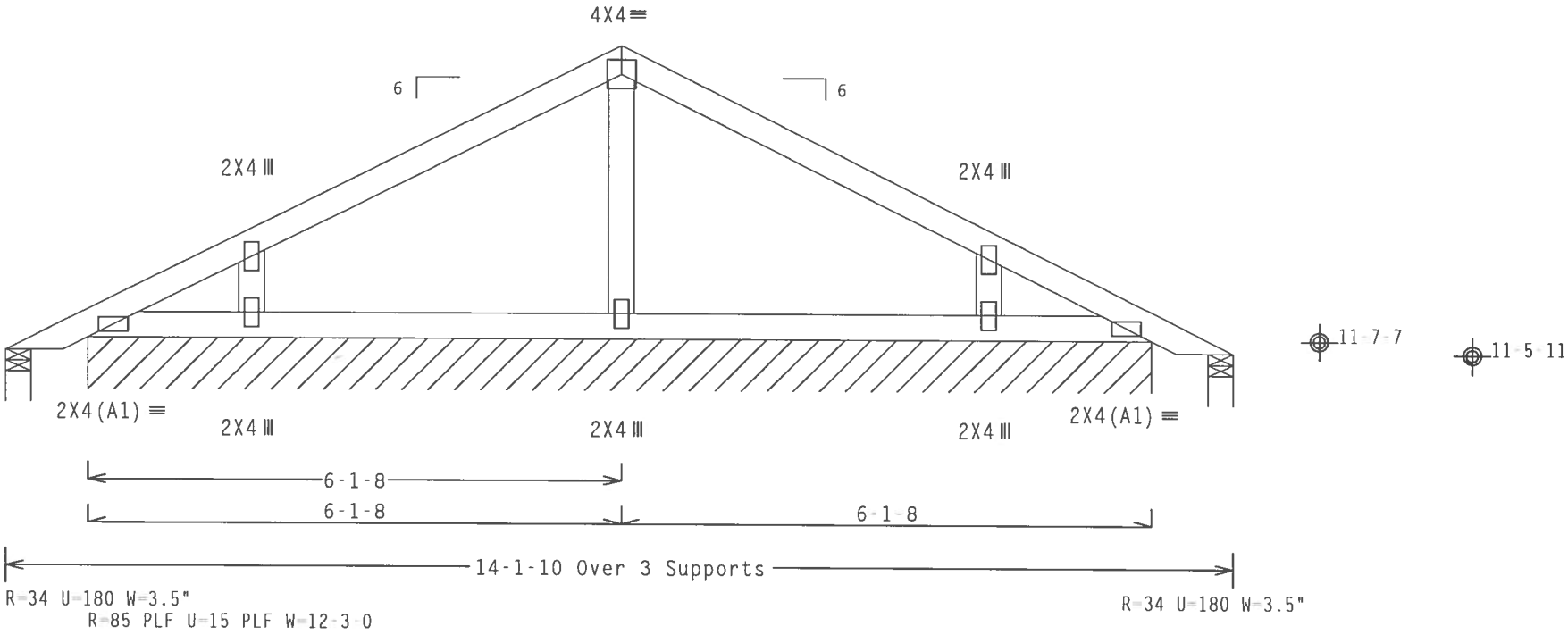
Plates sized for a minimum of 3.00 sq.in./piece.

REFER TO DRAWING PIGBACKB0204 FOR PIGGYBACK DETAILS.
TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED @ 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.

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

The overall height of this truss excluding overhang is 5-0-1.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.25.0503 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave\R

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

REF	R215-- 10841
DATE	09/27/06
DRW	HCUSR215 06270066
HC-ENG	EC/WHK
SEQN-	27263
FROM	LRB
JREF-	1TOZ215_Z04

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

JAMES F. COLLINS JR. LICENSE No. 62211 STATE OF FLORIDA PROFESSIONAL ENGINEER

Sep 28 06

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

Wind reactions based on MWFRS pressures.

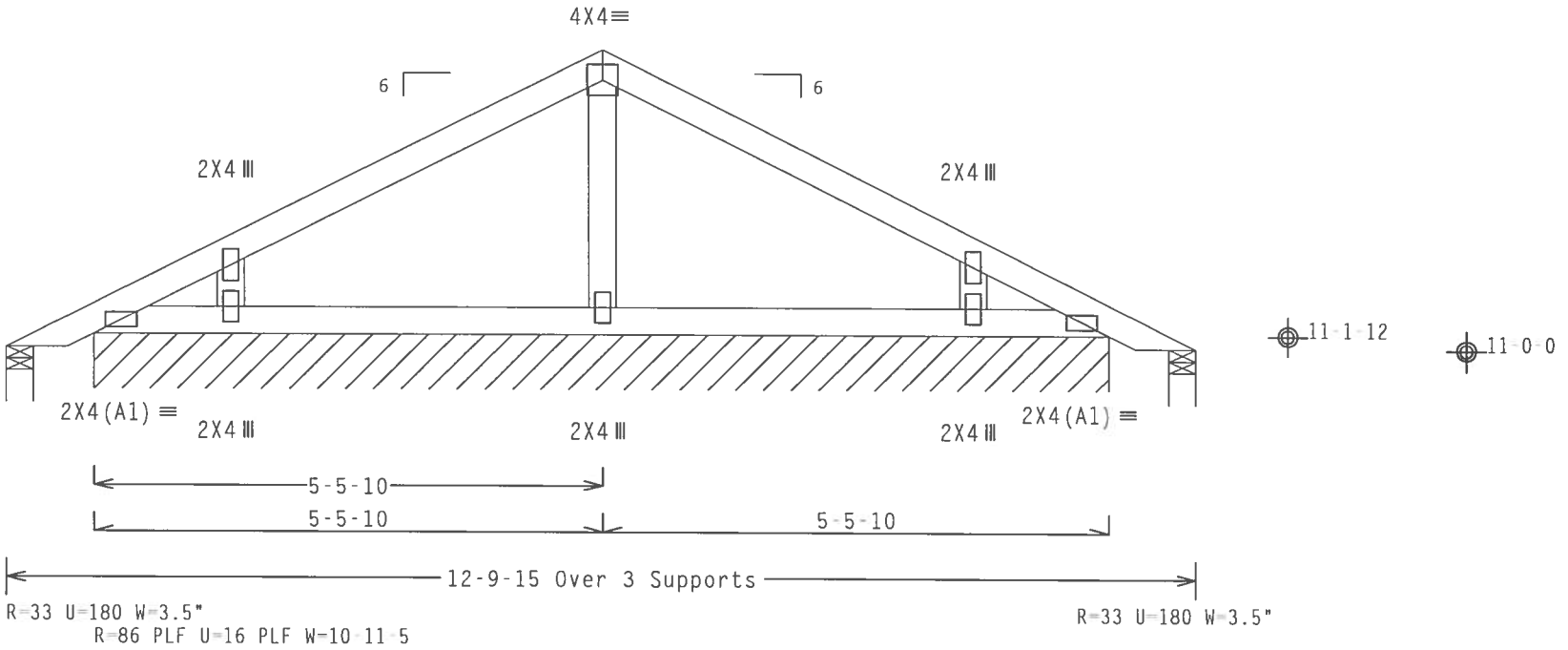
Plates sized for a minimum of 3.00 sq.in./piece.

REFER TO DRAWING PIGBACKB0204 FOR PIGGYBACK DETAILS.
TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED @ 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.

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R Cq/RT=1.00(1.25)/10(0) 7.25.0503.00 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Sep [illegible]

TC LL	20.0 PSF	REF R215-- 10842
TC DL	10.0 PSF	DATE 09/27/06
BC DL	10.0 PSF	DRW HCUSR215 06270067
BC LL	0.0 PSF	HC-ENG EC/WHK
TOT.LD.	40.0 PSF	SEQN- 27270
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TOZ215_Z04

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

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

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

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

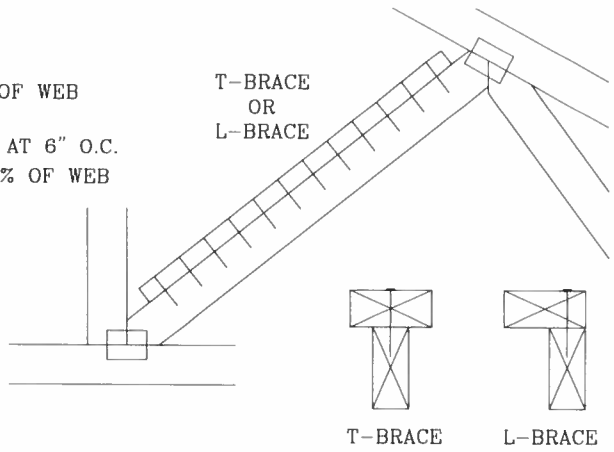
(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE

ATTACH WITH 16d NAILS AT 6" O.C.

BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH

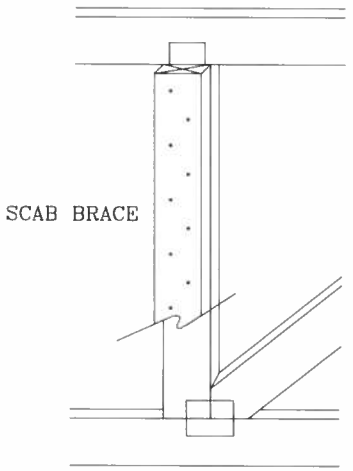


SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.

NO MORE THAN (1) SCAB PER FACE.

ATTACH WITH 10d OR .128"x3" GUN NAILS AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579,640

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER Sep 28 '06

TC LL	PSF	REF CLB SUBST.
TC DL	PSF	DATE 11/26/03
BC DL	PSF	DRWG BRCLBSUB1103
BC LL	PSF	-ENG MLH/KAR
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

ASCE 7-02: 110 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 8"	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"
		#3	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"
		STUD	3' 7"	5' 5"	5' 5"	7' 1"	7' 1"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"
		STANDARD	3' 7"	4' 8"	4' 8"	6' 1"	6' 1"	8' 3"	8' 3"	9' 6"	9' 6"	12' 11"	12' 11"
	SP DFL	#1	4' 0"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#2	3' 11"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#3	3' 9"	5' 7"	5' 7"	7' 4"	7' 4"	8' 11"	9' 5"	11' 5"	11' 5"	14' 0"	14' 0"
		STUD	3' 9"	5' 6"	5' 6"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"	14' 0"
		STANDARD	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	8' 5"	8' 5"	9' 9"	9' 9"	13' 3"	14' 0"
16" O.C.	SPF HF	#1 / #2	4' 2"	7' 3"	7' 5"	8' 7"	8' 10"	10' 3"	10' 6"	13' 5"	13' 10"	14' 0"	14' 0"
		#3	4' 1"	6' 8"	6' 8"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"
		STUD	4' 1"	8' 0"	8' 0"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"
		STANDARD	4' 1"	5' 8"	5' 8"	7' 6"	7' 6"	10' 1"	10' 1"	11' 8"	11' 8"	14' 0"	14' 0"
	SP DFL	#1	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
		#2	4' 6"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	6' 10"	6' 10"	8' 7"	9' 0"	10' 3"	10' 9"	13' 5"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	6' 9"	6' 9"	8' 7"	8' 11"	10' 3"	10' 9"	13' 5"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 2"	5' 10"	5' 10"	7' 8"	7' 8"	10' 3"	10' 4"	11' 11"	11' 11"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 7"	8' 0"	8' 2"	9' 5"	9' 8"	11' 3"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 8"	7' 8"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 6"	7' 8"	7' 8"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 6"	6' 7"	6' 7"	8' 8"	8' 8"	11' 3"	11' 3"	13' 6"	13' 6"	14' 0"	14' 0"
	SP DFL	#1	5' 1"	8' 0"	8' 7"	9' 5"	10' 2"	11' 3"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 11"	8' 0"	8' 7"	9' 5"	10' 2"	11' 3"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	7' 11"	7' 11"	9' 5"	9' 11"	11' 3"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 9"	7' 9"	7' 9"	9' 5"	9' 11"	11' 3"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 7"	6' 9"	6' 9"	8' 10"	8' 10"	11' 3"	11' 7"	13' 10"	13' 10"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

SOUTHERN PINE
#3
STUD
STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 100 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

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

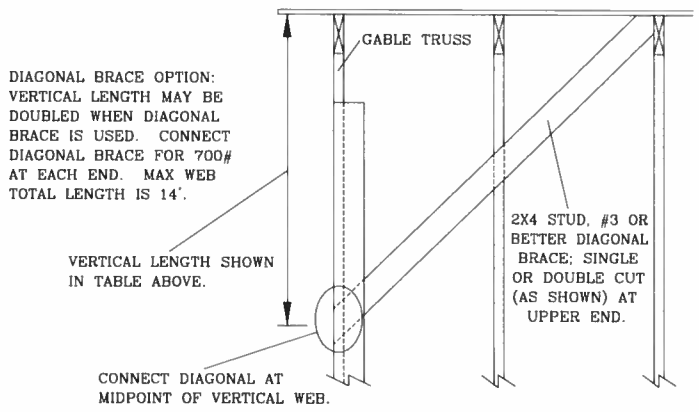
ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

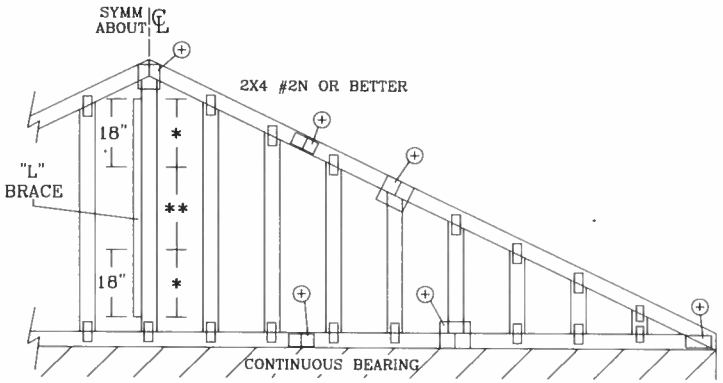
"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

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.





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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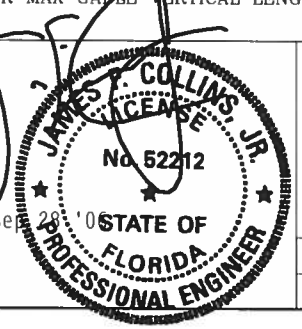


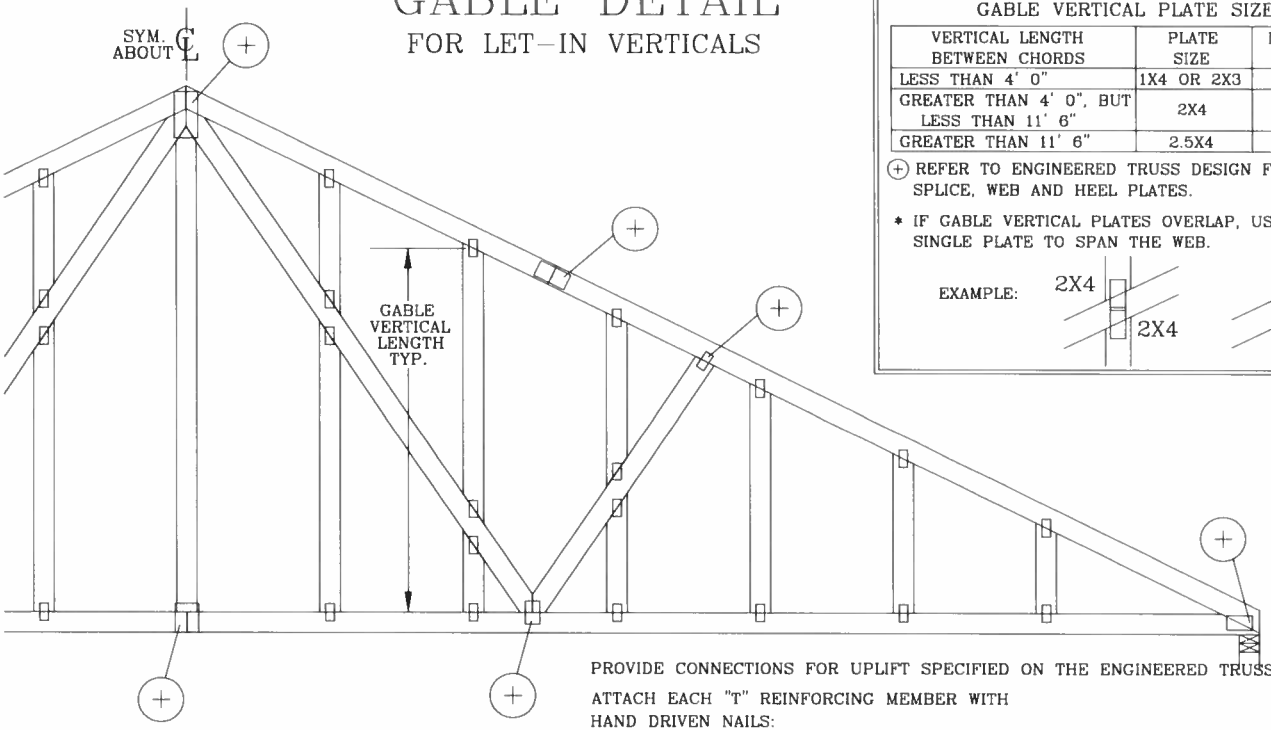
Sep 28 '05

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11030
DATE	04/14/05
DRWG	A11030EE0405
-ENG	

GABLE DETAIL
FOR LET-IN VERTICALS

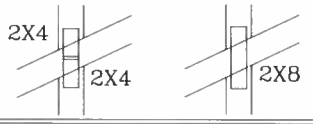


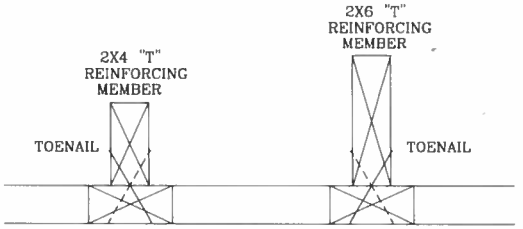
GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

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

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

EXAMPLE:





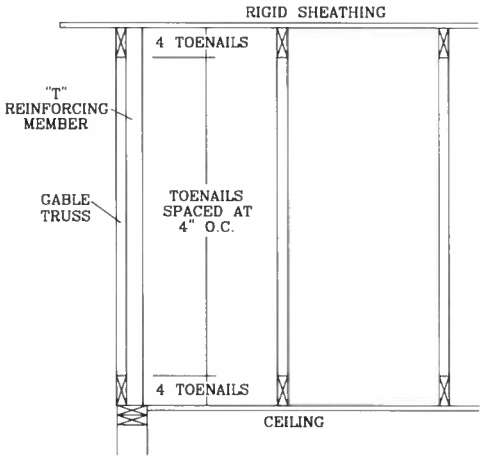
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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

WEB LENGTH INCREASE W/ "T" BRACE

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

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



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148"X 3.",MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5",MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:
8d COMMON (0.131"X 2.5",MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103
ASCE 7-02 GABLE DETAIL DRAWINGS
A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405,
A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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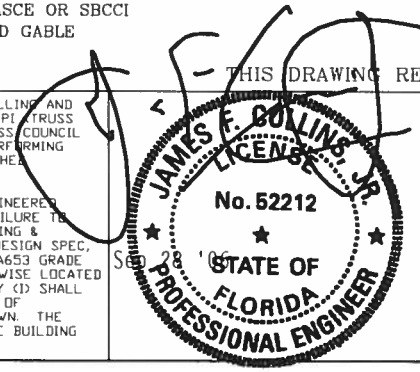


SEP 2006

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

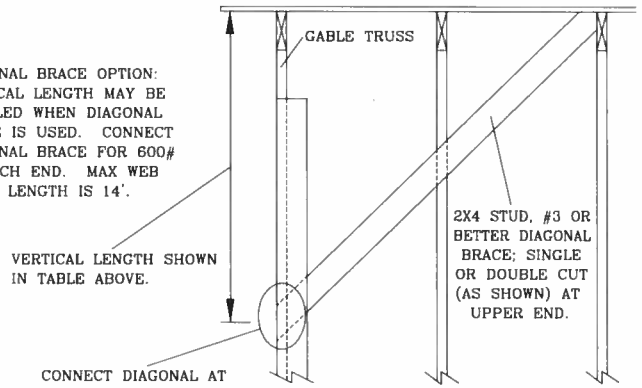
REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLLETIN0405
-ENG	DLJ/KAR

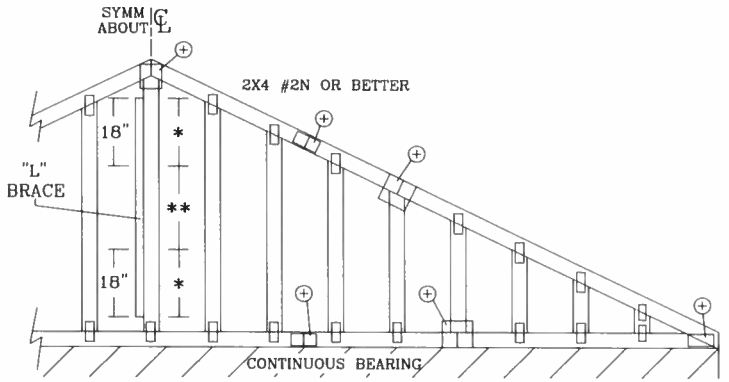
ASCE 7-02: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
16" O.C.	SPF HF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 0"	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"

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





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

SOUTHERN PINE
#3
STUD
STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" 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

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POMPANO BEACH, FLORIDA

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER Sep 28 '06

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11015
DATE	04/15/05
DRWG	A11015EE0405
-ENG	

HOWLAND

Hardware & Building Materials
Roof & Floor Trusses
Equipment Rental
P.O. Box 700
Live Oak, Fl. 32064
(386) 362-1235
Fax (386) 362-7124
www.WBHowland.com

9/29/06

Job Number: 1891 **Date: 9/29/06**
Floor Trusses
Job Name: Carter / Winfield Church
Approved by:_____

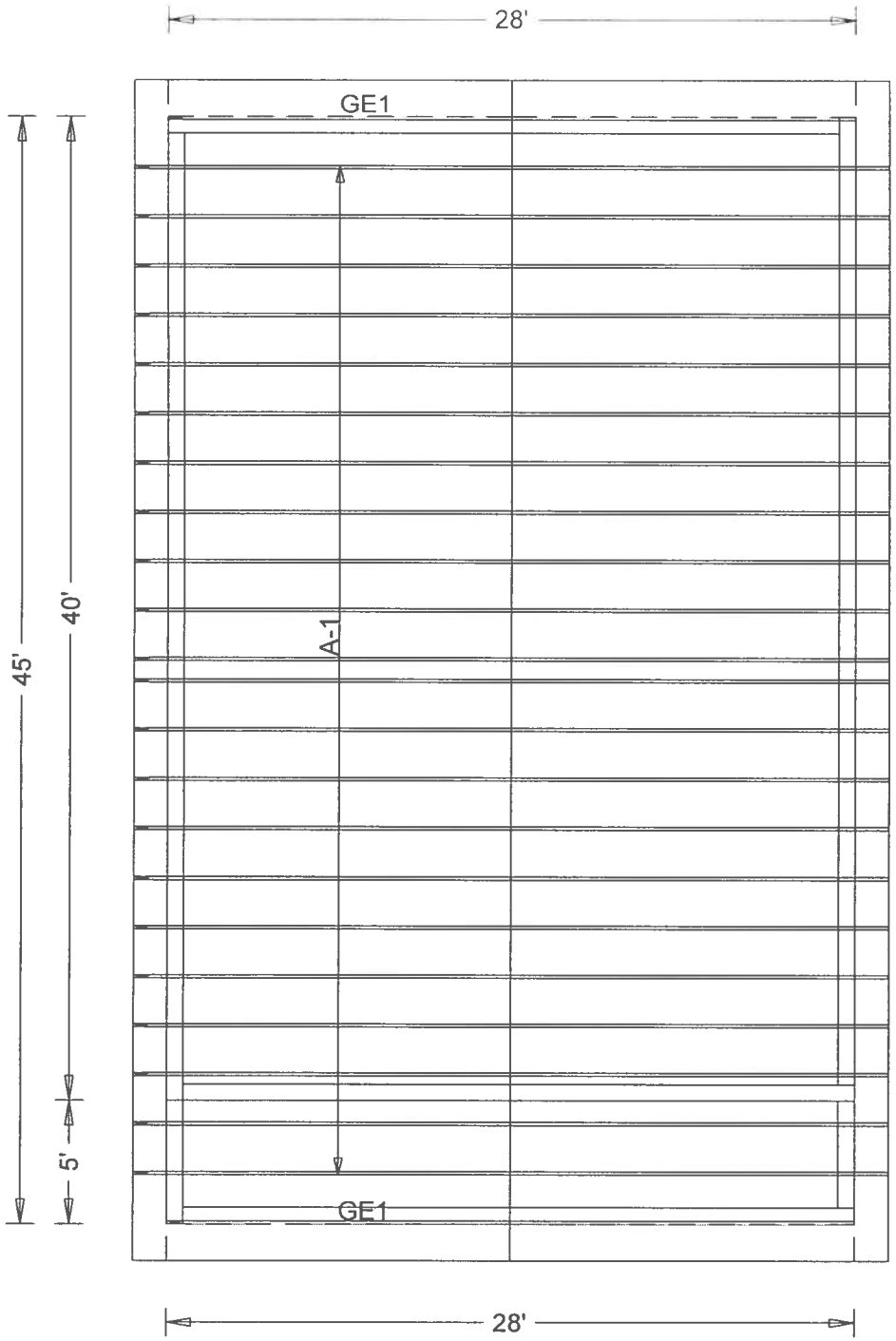
Please find enclosed two sets of sealed drawings and a layout for permitting. Also enclosed is another set of sealed drawings, a layout, notes, etc. for *your* review. You may wish to review this package with one or all of the following professionals: plan designer, engineer of record, building contractor, professional framer.

Careful review is important as trusses will be built in strict accordance with the enclosed layout and drawings.

A delivery pack will come with your trusses on the day of delivery. This pack contains BCSI-B1 summary sheet, truss layout, sealed drawings, etc. The BCSI-B1 sheet is a "guide for handling, installing and bracing of metal plate connected wood trusses". You should review this guide carefully as the installation and bracing of trusses requires extreme care. We will gladly furnish you with a copy of this guide in advance of delivery upon request.

We are four weeks out on deliveries.

We appreciate your business!



Roof Plane Sheathing Area = 1556 sq. ft
Gable Sheathing Area = 132 sq. ft
Total Sheathing Area = 1688 sq. ft
Fascia Material = 161 linear ft
Ridge Cap Material = 48 linear ft

QUOTE UPDATE, 9/20/06

PRELIMINARY LAYOUT
ROOF 4/12 FLAT CLG.
WALL 8"CMU
SEAT PLATES REQUIRED
1 OF 14 UNITS

W.B. HOWLANDS
386-362-1235

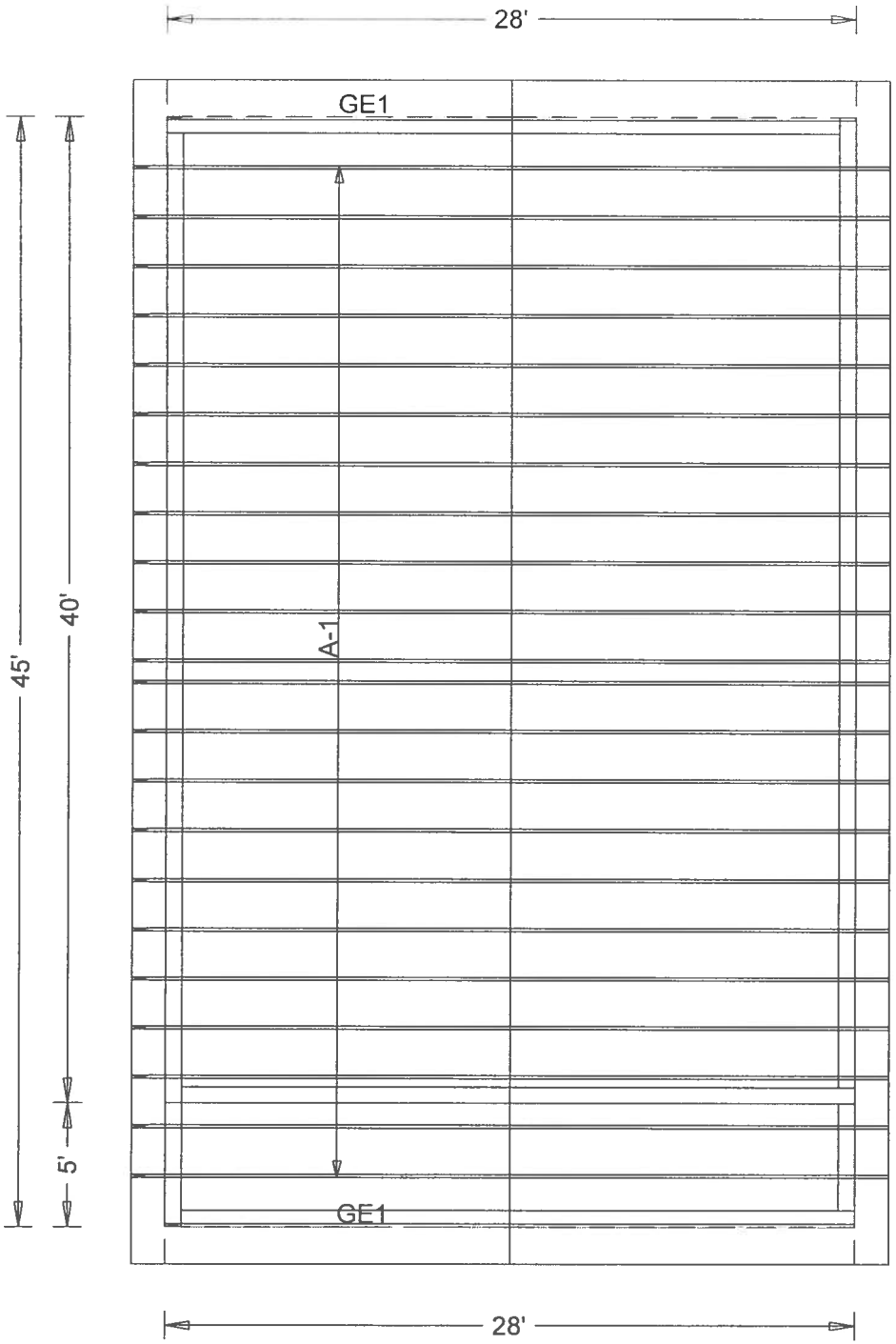
W.B. HOWLAND
Office:(386)362-1235
Fax: (386)362-7124

DATE:9/20/06
ROOF PITCH:4/12
CLG. PITCH:N/A
OVERHANG:1' 4 1/2"s
LOADING:40#s PSF
WIND LOAD:110 MPH
EXT. WALLS:8" CMU

Job Name: WINFIELD CHURCH /UNITS 1-
Customer: HOUSE ACCOUNT
Designer: Lynn Bell

JOB NO:
1891

PAGE NO:
1 OF 1



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PRELIMINARY LAYOUT
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WALL 8"CMU
SEAT PLATES REQUIRED
1 OF 14 UNITS

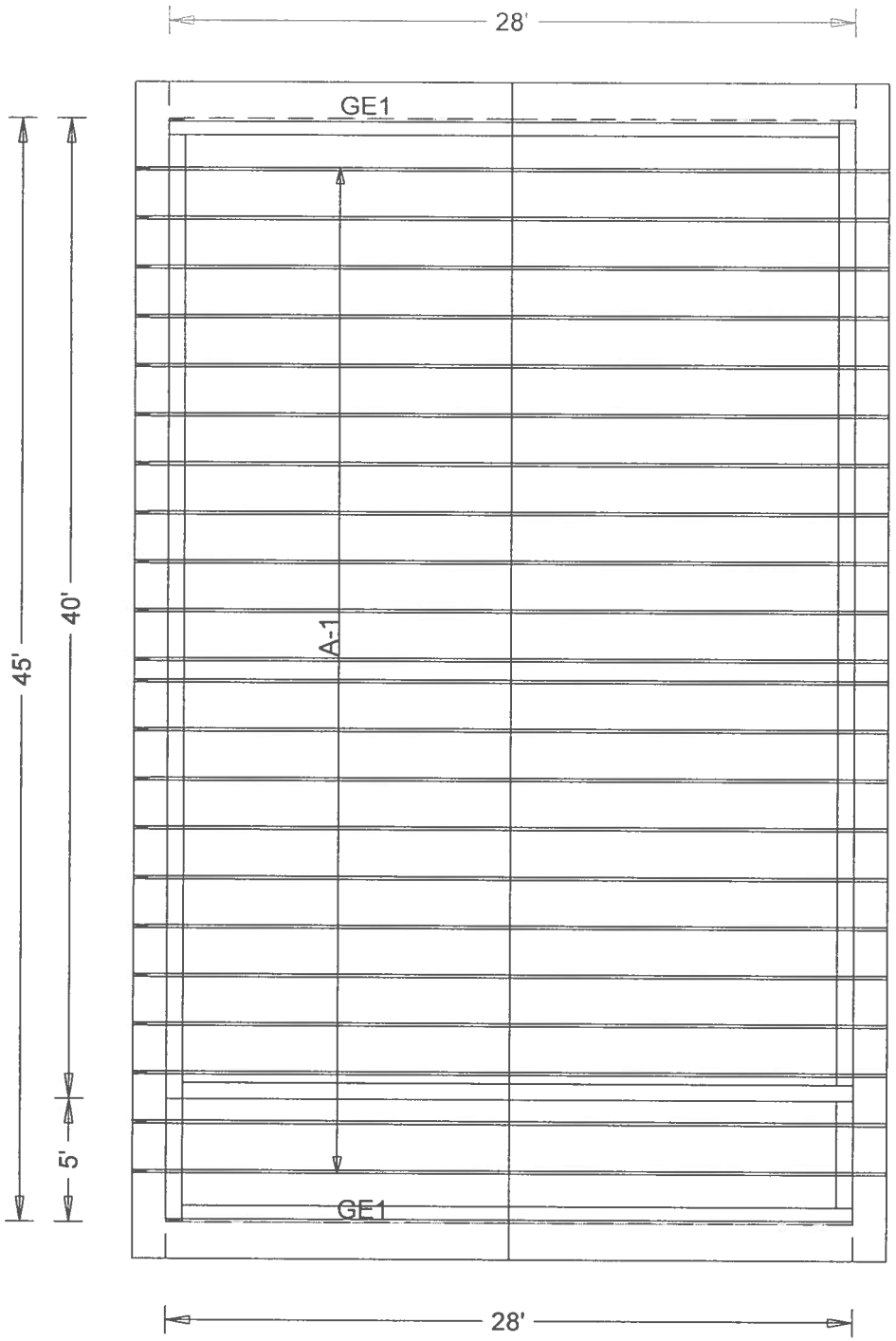
W.B. HOWLANDS
386-362-1235

W.B. HOWLAND
Office:(386)362-1235
Fax: (386)362-7124

DATE:9/20/06
ROOF PITCH:4/12
CLG. PITCH:N/A
OVERHANG:1' 4 1/2"s
LOADING:40#s PSF
WIND LOAD:110 MPH
EXT. WALLS:8" CMU

Job Name: WINFIELD CHURCH /UNITS 1-
Customer: HOUSE ACCOUNT
Designer: Lynn Bell

JOB NO:
1891



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Office:(386)362-1235
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DATE:9/20/06
ROOF PITCH:4/12
CLG. PITCH:N/A
OVERHANG:1' 4 1/2"s
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WIND LOAD:110 MPH
EXT. WALLS:8" CMU

Job Name: WINFIELD CHURCH /UNITS 1-
Customer: HOUSE ACCOUNT
Designer: Lynn Bell

JOB NO:
1891

PAGE NO:
1 OF 1

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
 Document ID:1T0S215-Z0120093126

Truss Fabricator:	W.B. Howland
Job Identification:	1891-/WINFIELD CHURCH /UNITS 1- /HOUSE ACCOUNT -- , **
Truss Count:	2
Model Code:	Florida Building Code 2004
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Version 7.25.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Seal Date: 09/20/2006

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. 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-

#	Ref	Description	Drawing#	Date
1	45399--A-1		06263001	09/20/06
2	45400--GE1		06263002	09/20/06

(1891-/WINFIELD CHURCH /UNITS 1- /HOUSE ACCOUNT -- , ** - A-1)

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

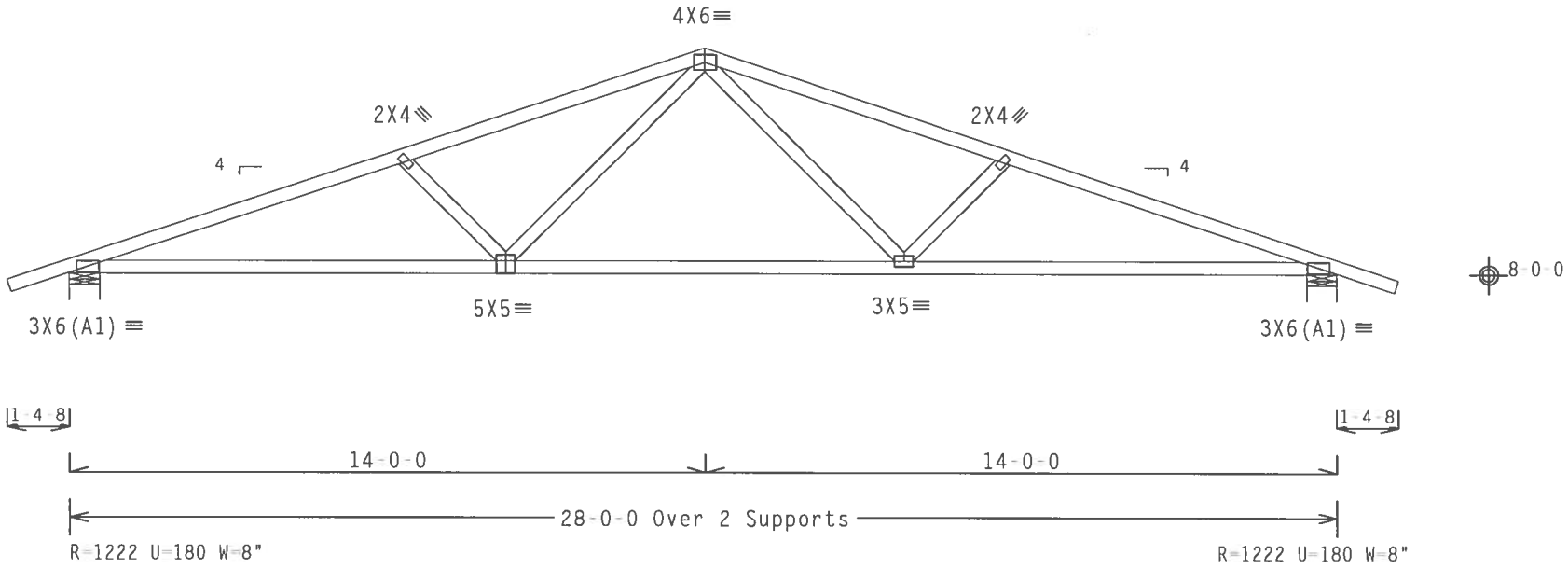
Wind reactions based on MWFRS pressures.

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 4-11-15.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R Cq/RT=1.00(1.25)/10(0) 7.25.0503 QTY:1 FL/-/5/-/-/R/- Scale =.25"/Ft.

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

JAMES P. COLLINS, JR. ENGINEER No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Sep 20 '06

TC LL	20.0 PSF	REF	R215-- 45399
TC DL	10.0 PSF	DATE	09/20/06
BC DL	10.0 PSF	DRW	HCUSR215 06263001
BC LL	0.0 PSF	HC-ENG	EC/AP *
TOT.LD.	40.0 PSF	SEQN-	27006
DUR.FAC.	1.25	FROM	CAW
SPACING	24.0"	JREF-	1TOS215_Z01

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

Wind reactions based on MWFRS pressures.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

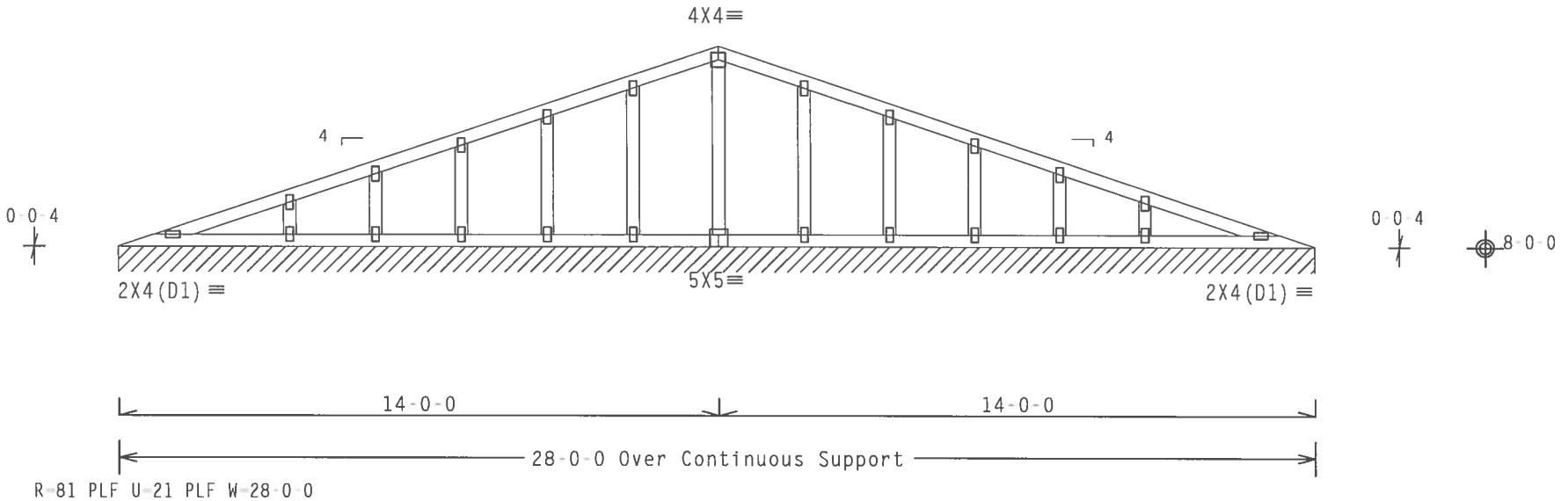
Deflection meets L/360 live and L/240 total load.

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

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.

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 BEDESIGNED BY THE BUILDING DESIGNER.



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) 7.25.0503.00 QTY:1 FL/-/5/-/-/R/- Scale =.25"/Ft.

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FL Certificate of Authorization # 567

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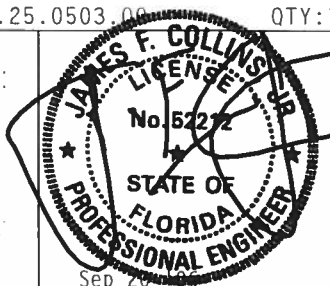


Sep 20 06

TC LL	20.0 PSF	REF R215-- 45400
TC DL	10.0 PSF	DATE 09/20/06
BC DL	10.0 PSF	DRW HCUSR215 06263002
BC LL	0.0 PSF	HC-ENG EC/AP
TOT.LD.	40.0 PSF	SEQN- 27008
DUR.FAC.	1.25	FROM CAW
SPACING	24.0"	JREF- 1TOS215_Z01

ASCE 7-02: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
16" O.C.	SPF HF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 0"	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

SOUTHERN PINE
#3
STUD
STANDARD

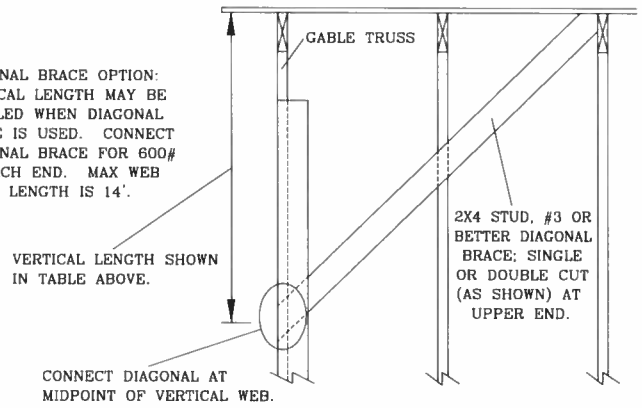
GROUP B:

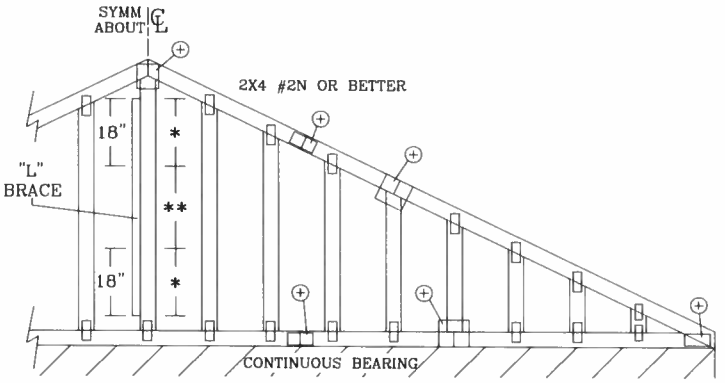
HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2

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





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" 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

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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JAMES F. DOLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

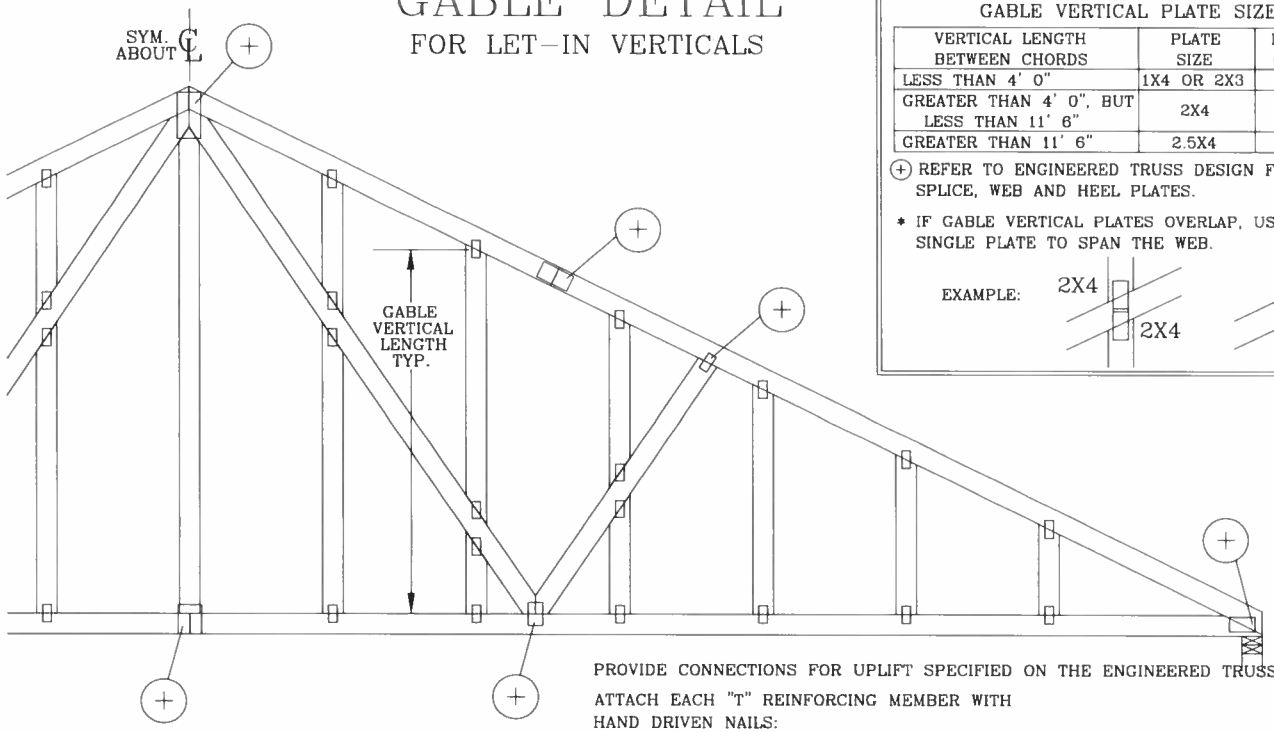
Seal Date: 04/15/05

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11015
DATE	04/15/05
DRWG	A11015EE0405
-ENG	

GABLE DETAIL
FOR LET-IN VERTICALS

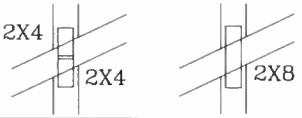


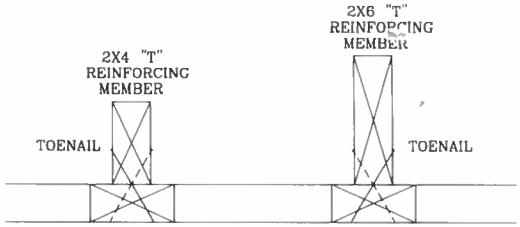
GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

(+) REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

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

EXAMPLE:





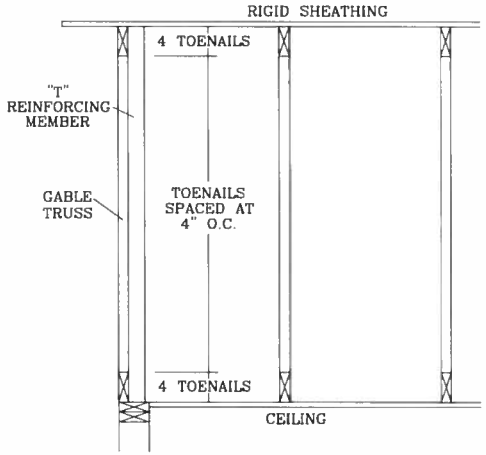
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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

WEB LENGTH INCREASE W/ "T" BRACE

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

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



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148"X 3.",MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5",MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:
8d COMMON (0.131"X 2.5",MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103
ASCE 7-02 GABLE DETAIL DRAWINGS
A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405,
A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE
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POMPANO BEACH, FLORIDA

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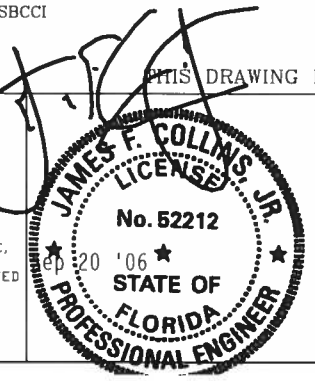


MAX TOT. LD. 60 PSF
DUR. FAC. ANY
MAX SPACING 24.0"

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLLETIN0405
-ENG	DLJ/KAR

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
 Document ID:1T0S215-Z0120093126

Truss Fabricator:	W.B. Howland
Job Identification:	1891-/WINFIELD CHURCH /UNITS 1- /HOUSE ACCOUNT -- , **
Truss Count:	2
Model Code:	Florida Building Code 2004
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Version 7.25.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Seal Date: 09/20/2006

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. 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-

#	Ref	Description	Drawing#	Date
1	45399--A-1		06263001	09/20/06
2	45400--GE1		06263002	09/20/06

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

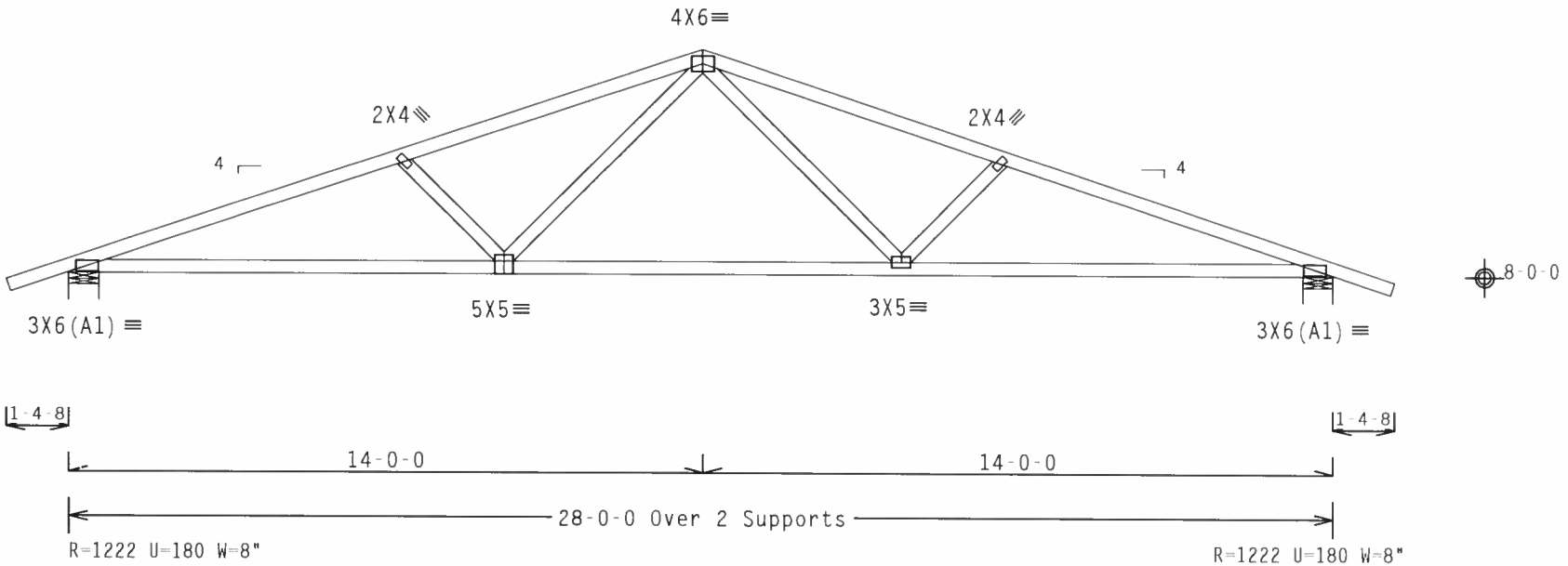
Wind reactions based on MWFRS pressures.

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 4-11-15.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave\R Cq/RT=1.00(1.25)/10(0) 7.25.0503.00 QTY:1 FL/-/5/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
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JAMES F. COLLINS JR. ENGINEER No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Sep 20 '06

TC LL	20.0 PSF	REF	R215-- 45399
TC DL	10.0 PSF	DATE	09/20/06
BC DL	10.0 PSF	DRW	HCUSR215 06263001
BC LL	0.0 PSF	HC-ENG	EC/AP *
TOT.LD.	40.0 PSF	SEQN-	27006
DUR.FAC.	1.25	FROM	CAW
SPACING	24.0"	JREF-	1TOS215_Z01

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

Wind reactions based on MWFRS pressures.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

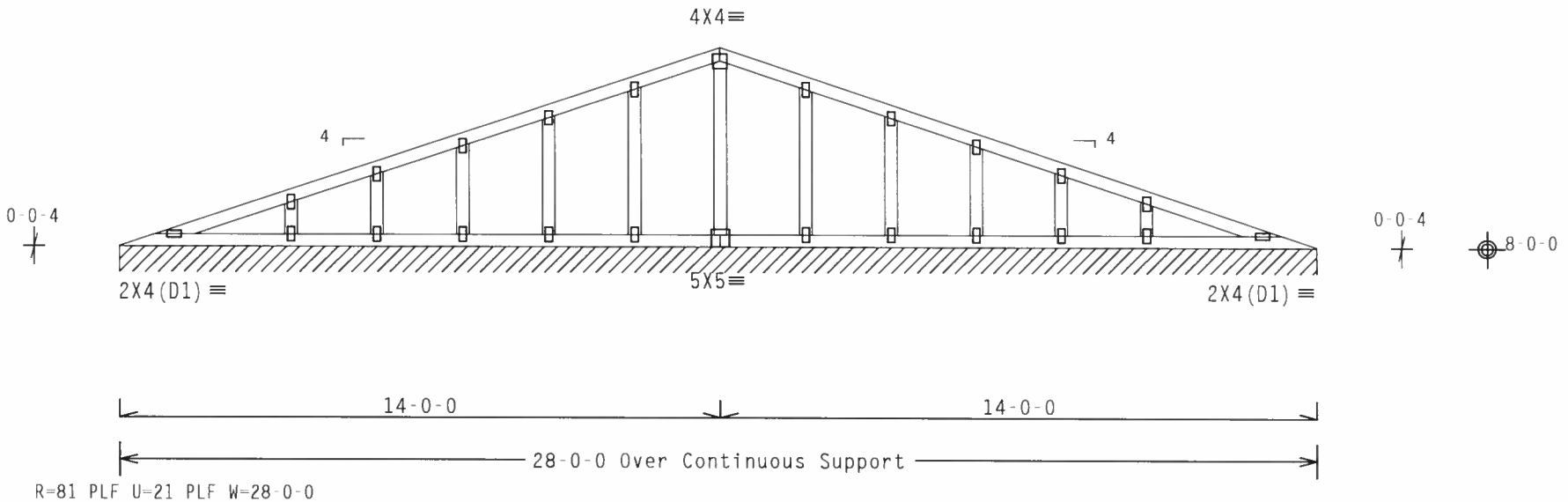
Deflection meets L/360 live and L/240 total load.

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

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.

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 BEDESIGNED BY THE BUILDING DESIGNER.



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) 7.25.0503.00 QTY:1 FL/-/5/-/-/R/- Scale =.25"/Ft.

ALPINE

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Sep 20

TC LL	20.0 PSF	REF R215-- 45400
TC DL	10.0 PSF	DATE 09/20/06
BC DL	10.0 PSF	DRW HCUSR215 06263002
BC LL	0.0 PSF	HC-ENG EC/AP
TOT.LD.	40.0 PSF	SEQN- 27008
DUR.FAC.	1.25	FROM CAW
SPACING	24.0"	JREF- 1TOS215_Z01

ASCE 7-02: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
16" O.C.	SPF HF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 0"	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

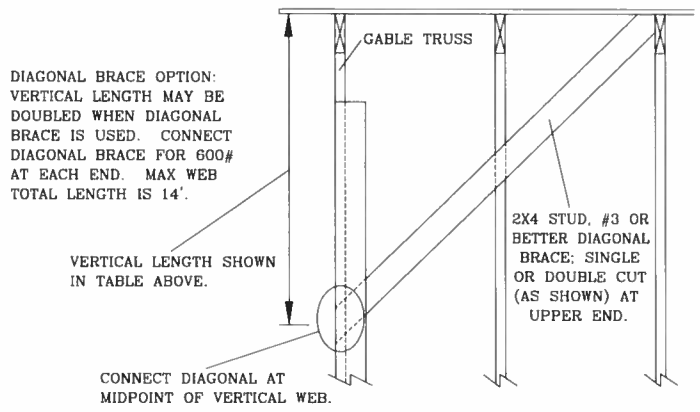
SOUTHERN PINE
#3
STUD
STANDARD

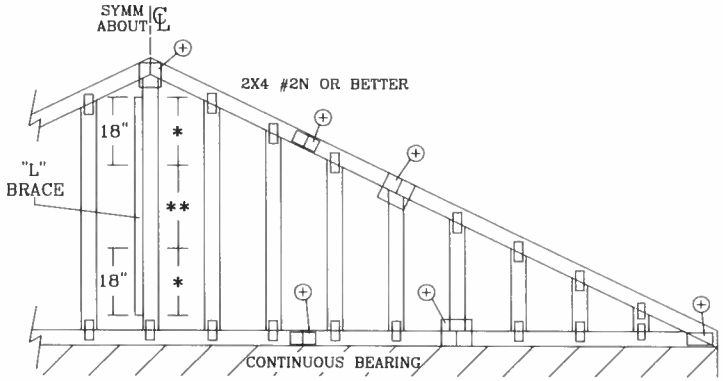
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" 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

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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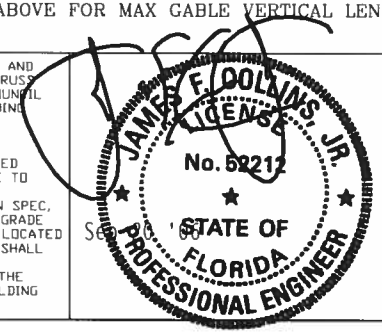
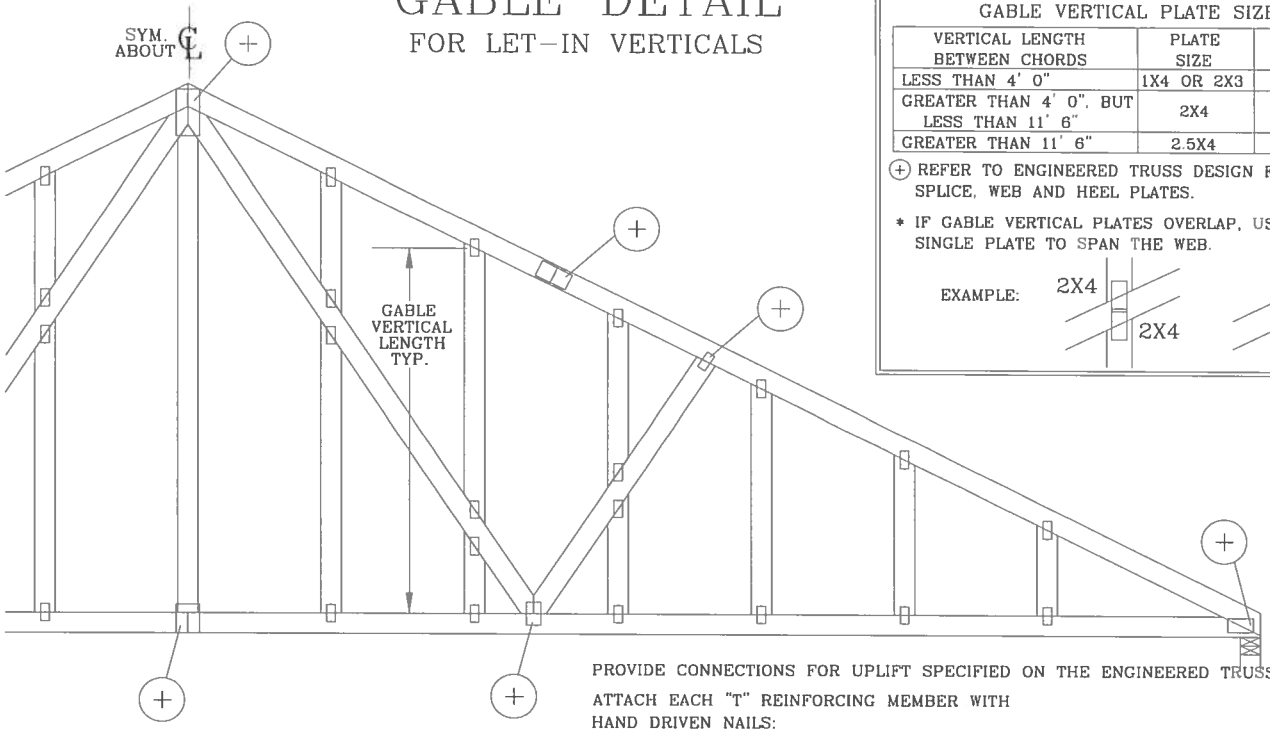


MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11015
DATE	04/15/05
DRWG	A11015EE0405
-ENG	

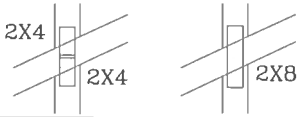
GABLE DETAIL
FOR LET-IN VERTICALS

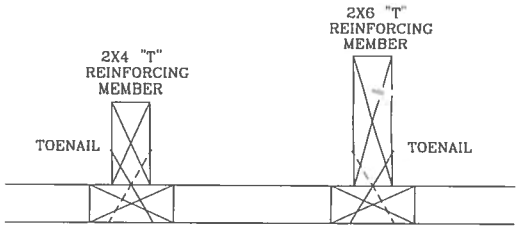


GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

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

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

EXAMPLE: 



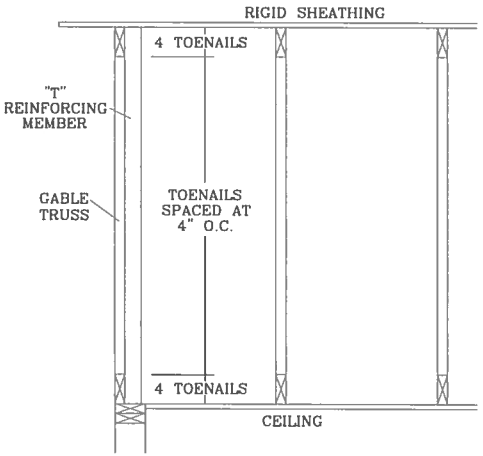
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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

WEB LENGTH INCREASE W/ "T" BRACE

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

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



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148"X 3.",MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5",MIN) TOENAILS IN TOP AND BOTTOM CHORD.
GUN DRIVEN NAILS:
8d COMMON (0.131"X 2.5",MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103
ASCE 7-02 GABLE DETAIL DRAWINGS
A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405,
A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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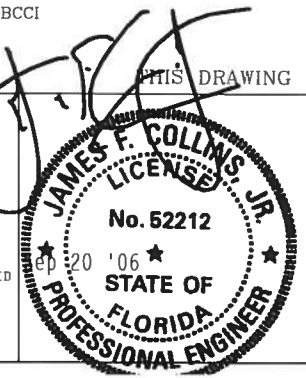


MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLLETIN0405
-ENG	DLJ/KAR

A COPY HAS BEEN FILE
JOE
0612-06

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 32257

Tel. (386) 755-3633 • Fax (386) 752-5456
Tel. (904) 262-4046 • Fax (904) 262-4047

December 7, 2006

Freedom Mobile Homes
466 SW Deputy J. Davis Lane
Lake City, Florida 32024

Attention: Mr. Bill Harper

Reference: Modular Home
Deercreek Subdivision, Lot 77
Lake City, Florida
Cal-Tech Project No. 06-681

Dear Mr. Harper,

Cal-Tech Testing, Inc. has completed the subsurface investigation and engineering evaluation for the proposed structure at the above referenced location. Our work was performed in conjunction with and authorized by you.

Introduction

We understand you will place a modular home at the above referenced lot. The structure will measure approximately 1,500 square feet in plan area, and it will be supported by conventional, shallow spread footings. We understand that the design bearing pressure for the foundations is 2,000 pounds per square foot (psf). Detailed foundation loads have not been provided; however, we assume column or pier loads will not exceed 15 kips.

The purposes of our investigation were to evaluate the existing subgrade soils for an allowable bearing pressure of 2,000 psf and to present recommendations for foundation design and construction.

Site Investigation

The subsurface conditions were investigated by performing two (2) dynamic cone penetration tests with a hand-auger boring advanced to a depth of six feet. The borings were performed at the approximate locations indicated on the attached Report of Soil Borings.

The dynamic cone penetration test is performed by driving a standard 60 degree cone into the soil by blows from a 15-pound slide-hammer falling 20 inches. The number of blows required to advance the cone 1.75 inches is designated the dynamic cone penetration resistance. This value can be correlated to N-values of the Standard Penetration Test and is an index of soil density or consistency.

Findings

Boring A-1 initially encountered approximately one foot of sandy clay (CL). We believe that this material is probably fill in origin. Below this and from the ground surface in Boring A-2, very loose to loose fine sands (SP) were encountered to a depth of about four feet. This was underlain by medium dense clayey fine sands (SC) to the termination depth of six feet.

Ground water was not encountered in either of the borings.

For a more detailed description of the subsurface conditions encountered, please refer to the attached Report of Soil Borings. Note that 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

The site soils appear to be very loose to loose to a depth of about three to four feet and then medium dense below. Also, there may be some surface fill soils within the home site. Based upon these findings, moderate site improvement should be performed; however, it is our opinion the site soils are suitable to provide support for the structure using conventional, shallow spread footings. We concur that the foundations may be sized using a maximum soil bearing pressure of 2,000 psf; however, we recommend foundations have minimum width of 24 inches for isolated column or pier footings, even though the allowable soil bearing pressure may not be developed. The bottoms of foundations should penetrate any near surface fill soils and/or be embedded a minimum of 18 inches below the lowest adjacent grade (finished surface grade, for example).

Due to the generally loose condition of the immediate bearing soils, we believe it would be beneficial to proof-roll and then proof-compact the bearing soils in all foundation and floor slab areas. These bearing soils should be proof-compacted to a minimum of 95% of the Modified Proctor maximum dry density to a depth of at least two feet. Compaction of the bearing soils will reduce settling of the foundations and thereby reduce the likelihood of distress in the structure.

Our evaluation is based upon subsurface conditions encountered at this site and as presented within this report. However, subsurface conditions may exist that differ from our findings. We request that we be notified if substantially different subsurface conditions are encountered.

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 should you have questions concerning this report or if we may be further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.

Linda Creamer, CEO

Linda Creamer
President / CEO

Robert W Clark 12/7/06

Robert W. Clark, P.E.
Geotechnical Engineer
Registered Florida No. 52210

A-1

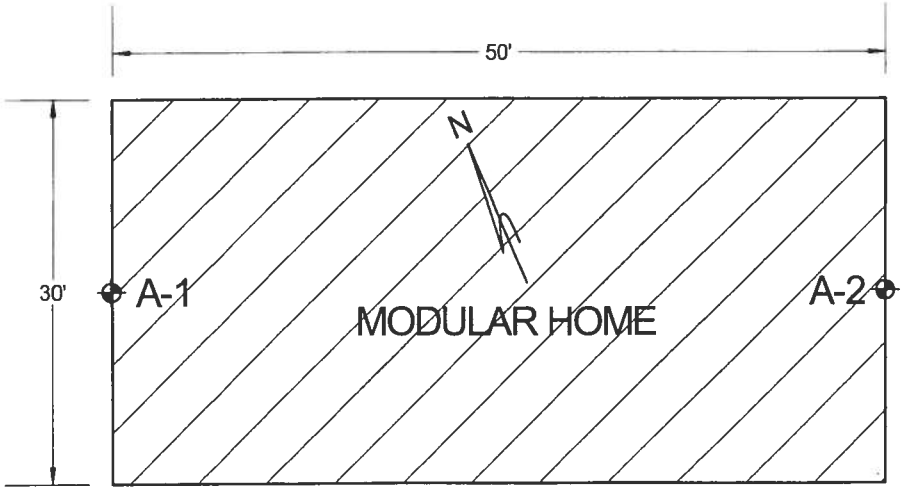
Water Table: N/A

Depth (ft)	Equivalent N - Value	Soil Description
0 ft		Light Green and Orange, Sandy Clay (CL)
	9	Loose, Tan, Fine Sand (SP)
	7	Loose to Medium Dense, Tan and Orange, Fine Sand (SP)
	12	
	18	Medium Dense, Light Grey and Orange, Clayey, Fine Sand (SC)
5 ft	23	
TOB		

A-2

Water Table: N/A

Depth (ft)	Equivalent N - Value	Soil Description
0 ft		
	3	Very Loose, Tan, Fine Sand (SP)
	6	Loose, Tannish Orange, Fine Sand (SP)
	11	Medium Dense, Orange and Tan, Clayey, Fine Sand (SC)
	30	Medium Dense to Dense, Light Grey and Orange, Clayey, Fine Sand (SC)
5 ft	32	
TOB		



MODULAR HOME
DEERCREEK SUBDIVISION
LOT # 77

REPORT OF SOIL BORINGS

DRAWN BY:	CHECKED BY:	DATE	JOB NO.
S.C. YOUNG	R.W. CLARK	12/6/06	06-681

SHEET NO.

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