dc 1051

Columbia County Building Permit Application

left message 3/9/06

Revised 9-23-04

For Office Use Only Application # 0602-88 Date Received 3/27 By JW Permit # 24211/992

Application Approved by - Zoning Official BLK Date 03.03.06 Plans Examiner OK JTH Date 3-7-06

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

Comments Section 2.3.1

NOC

Applicants Name Glenn L. Keen Phone (386) 961-8223

Address 1534 SW DEKle Rd. LAKe City, FL 32024

Owners Name Glenn Keen / John Keen / A&B Planning Phone (386) 867-0156

911 Address 3037 SE County Rd. 245 LakeCity, FL 32025

Contractors Name JASON ELIXSON Phone (386)- 961-8223

Address 1534 SW DEKle Rd. LAKeCity, FL 32024

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address BEN SPARKS / MARK DISOWAY P.O. Box 868 LAKeCity, FL 32056

Mortgage Lenders Name & Address NA

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

Property ID Number 14-4S-17-08354-115 Estimated Cost of Construction 72,600.00

Subdivision Name Price Creek Landing Lot 15 Block ____ Unit ____ Phase ____

Driving Directions Go 90 EAST to SR 100 Turn right on 100 south, go 1/4 mile to CRd 245 (Price creek) turn, right and go 2 1/2 miles to P. Creek Subdivision, Turn left on Andrew 1st Lot (House) on left.

Type of Construction Residential home Number of Existing Dwellings on Property ____

Total Acreage 1/2 ACR Lot Size ____ Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 35' Side 35' Side 35' Rear 50'

Total Building Height 17'1" Number of Stories 1 Heated Floor Area 1415 Roof Pitch 6/12

Porch 15 GARAGE 389 TOTAL 1819

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.

Glenn L. Keen
Owner Builder or Agent (Including Contractor)

Glenn L. Keen
Contractor Signature

Contractors License Number CBC 1250331

Competency Card Number ____

NOTARY STAMP/SEAL

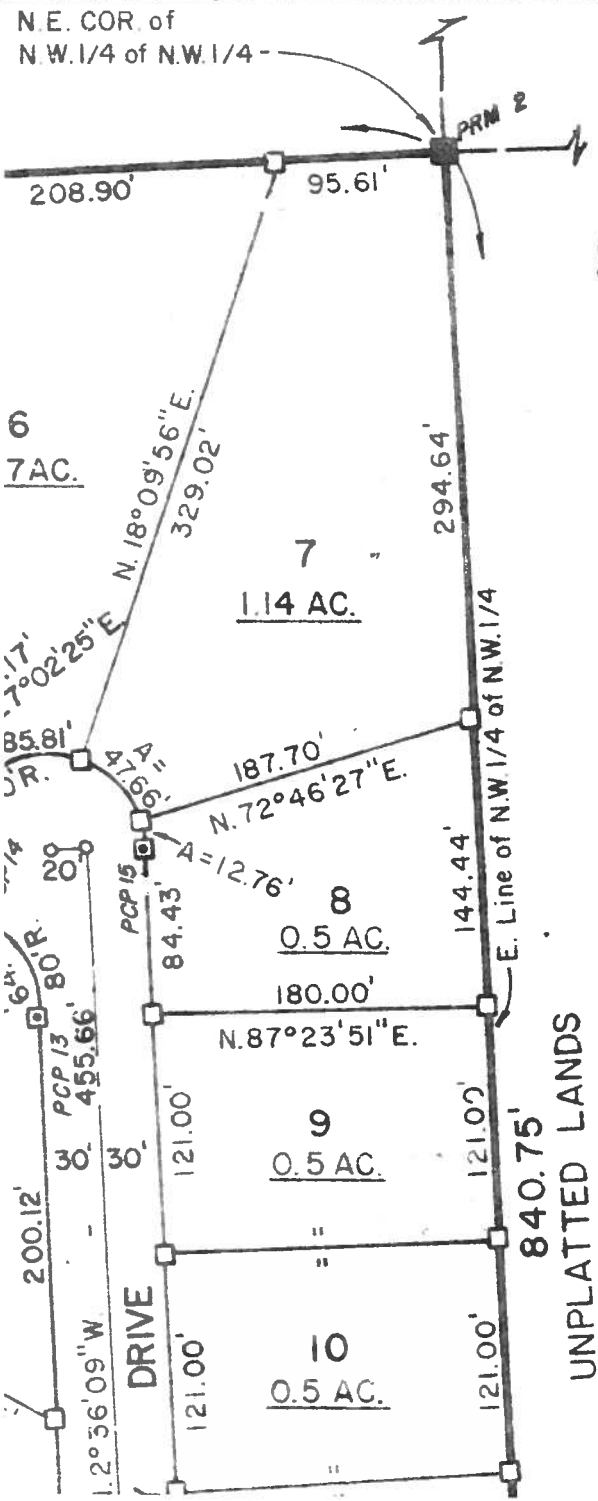
STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 24th day of Feb. 2006.

Personally known ✓ or Produced Identification ____

Barry Coleman My Commission DD 144884 Expires August 28, 2008

Notary Signature



"PRICE CREEK LANDING"
IN
SECTION 14, TWP. 4-S., RGE. 17-E.
COLUMBIA COUNTY, FLORIDA

DESCRIPTION

COMMENCE at the Northwest corner of Section 14, Township 4 South, Range 17 East, Columbia County, Florida and run N. 87°14'30"E. along the North line of said Section 14 a distance of 210.73 feet to a point on the East line of the Price Creek Cemetery and the POINT OF BEGINNING; thence continue N. 87°14'30"E. still along the North line of said Section 14 a distance of 1109.19 feet to the Northeast corner of the Northwest 1/4 of the Northwest 1/4; thence S. 02°36'09"E. along the East line of said Northwest 1/4 of the Northwest 1/4 a distance of 840.75 feet to a point on the Westerly Right-of-Way line of Andrews Road; thence continue S. 02°36'09"E. along said Westerly Right-of-Way line (still being the East line of said Northwest 1/4 of the Northwest 1/4) a distance of 519.42 feet to the Southeast corner of said Northwest 1/4 of the Northwest 1/4; thence continue S. 02°36'09"E. still along said Westerly Right-of-Way line 136.59 feet to a point on the Northeasterly Right-of-Way line of County Road No. 245; thence N. 61°17'51"W. along said Northeasterly Right-of-Way line 871.77 feet to the Point of Curve of a curve concave to the Northeast having a radius of 1096.28 feet and a central angle of 60°24'21", said curve also having a Chord bearing of N. 31°05'41"W. and a Chord distance of 1103.00 feet; thence Northwesterly along the arc of said curve, being also said Northeasterly Right-of-Way line 1155.79 feet to the Southwest corner of the Price Creek Cemetery; thence N. 85°24'39"E. along the South line of said Price Creek Cemetery 169.01 feet; thence N. 08°46'18"W. along the East line of said Price Creek Cemetery 65.90 feet to the POINT OF BEGINNING. Containing 30.71 acres, more or less.

LEGEND

1.) ⊠ = P.R.M. Set. 4" x 4" Concrete Monument with cap stampted P.L.S. 3628 and P.R.M. #

FILE NO. 87-077
RECORDED
BOOK 5 PAGE 98

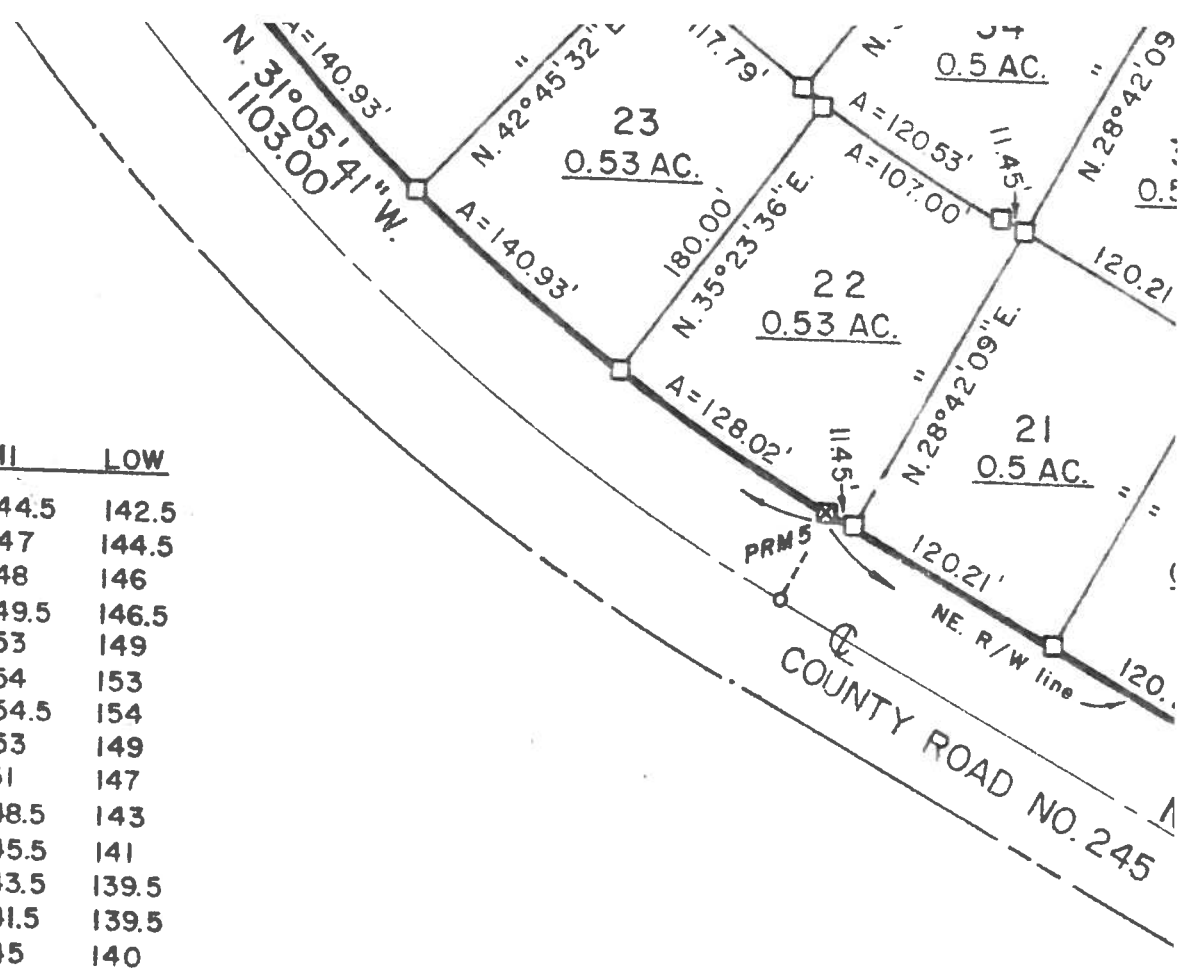
'87 JUL 20 AM 8:27

Mary A. Cochran
CLERK OF CIRCUIT COURT
COLUMBIA COUNTY, FLORIDA

HI / LOW LOT ELEVATIONS

LOT	HI	LOW
1	143	139
2	144	142
3	142.5	140
4	140	139.5
5	140	137
6	141	124
7	142	126
8	144.5	142
9	147.5	144.5
10	150	147
11	152.5	149.5
12	155	153
13	156	155
14	156	154
15	156	154
16	153.5	153
17	154	153.5
18	155	154.5
19	154	152
20	153	151.5
21	152	150
22	151	149
23	151	148
24	150.5	146
25	148	144
26	146.5	143
27	144	142
28	142	140
29	142	141
30	143	141

LOT	HI	LOW
31	144.5	142.5
32	147	144.5
33	148	146
34	149.5	146.5
35	153	149
36	154	153
37	154.5	154
38	153	149
39	151	147
40	148.5	143
41	145.5	141
42	143.5	139.5
43	141.5	139.5
44	145	140
45	148	144



100 YEAR FLOOD ELEV. = 123.0
(per Florida Dept. of Transportation)

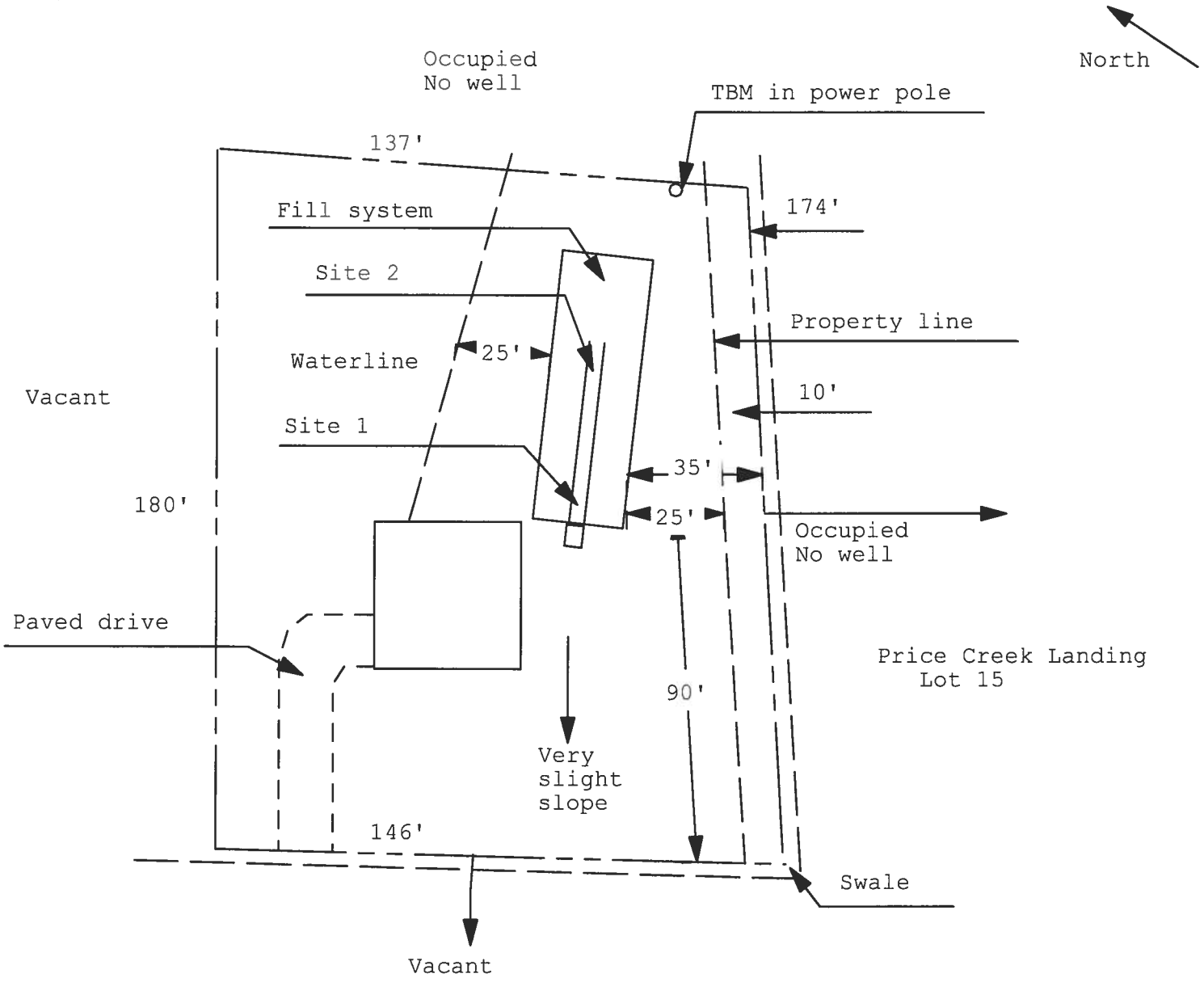
ZONING DISTRICT : RSF-1

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

Permit Application Number: 06-0130N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

KEEN/CR 05-3326



1 inch = 40 feet

Site Plan Submitted By Paul Lloyd **Date** 2/1/06

Plan Approved ✓ **Not Approved** ____ **Date** 2-15-06

By [signature] Columbia **CPHU**

Notes: ____

WARRANTY DEED

This Warranty Deed made and executed the 7th day of October A.D. 2005, by **SUBRANDY LIMITED PARTNERSHIP**, hereinafter called the grantor, to **A & B MANAGEMENT, L.L.C. AND JOHN W. KEEN, EACH AS TO AN UNDIVIDED ONE HALF INTEREST AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP, AND NOT AS TENANTS IN COMMON,** Whose post office address is 1534 SW DEKLE ROAD, LAKE CITY, FL 32024, hereinafter called the grantee:

(Wherever used herein the terms "Grantor" and "Grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporation)

Witnesseth: That the grantor, for the consideration of the sum of $ 10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

LOT 15, PRICE CREEK LANDING, a subdivision as recorded in Plat Book 5, Pages 98-98A, Columbia County, Florida, and subject to Restrictions recorded in O.R. Book 0628, Pages 0174-0176, and Restrictive Covenants recorded in O.R. Book 0862, Page 0329, Columbia County, Florida, and subject to Power Line Easment.

Together with all the tenements, hereditaments and appurtenances thereto belong or in any-wise appertaining.

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

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple: that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2000.

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

Signed, sealed and delivered in our presence:

Nanci Nettles
Signature of witness
Nanci Nettles

Amy E. Lee
Signature of witness
Amy E. Lee

Bradley N. Dicks L.S.
Bradley N. Dicks, General Partner
Subrandy Limited Partnership

Inst:2005025030 Date:10/07/2005 Time:14:26
Doc Stamp-Deed : 63.00
DC,P.DeWitt Cason,Columbia County B:1061 P:403

State of Florida
County of Columbia

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared Bradley N. Dicks, who is personally known to me to be the person described in and who executed the foregoing instrument, who was not required to furnish identification, and he acknowledged before me that he executed the same and who did not take an oath.

WITNESS my hand and official seal in the County and State last aforesaid this 7TH day of Octobber, A.D. 2005

Nanci Nettles
Notary Public, State of Florida

Signature of witness
Nanci Nettles

Amy E. Lee
Signature of witness
Amy E. Lee

Bradley N. Dicks, General Partner
Subrandy Limited Partnership

Inst:2005025030 Date:10/07/2005 Time:14:26
Doc Stamp-Deed : 63.00
DC,P.DeWitt Cason,Columbia County B:1061 P:403

State of Florida
County of Columbia

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared Bradley N. Dicks, who is personally known to me to be the person described in and who executed the foregoing instrument, who was not required to furnish identification, and he acknowledged before me that he executed the same and who did not take an oath.

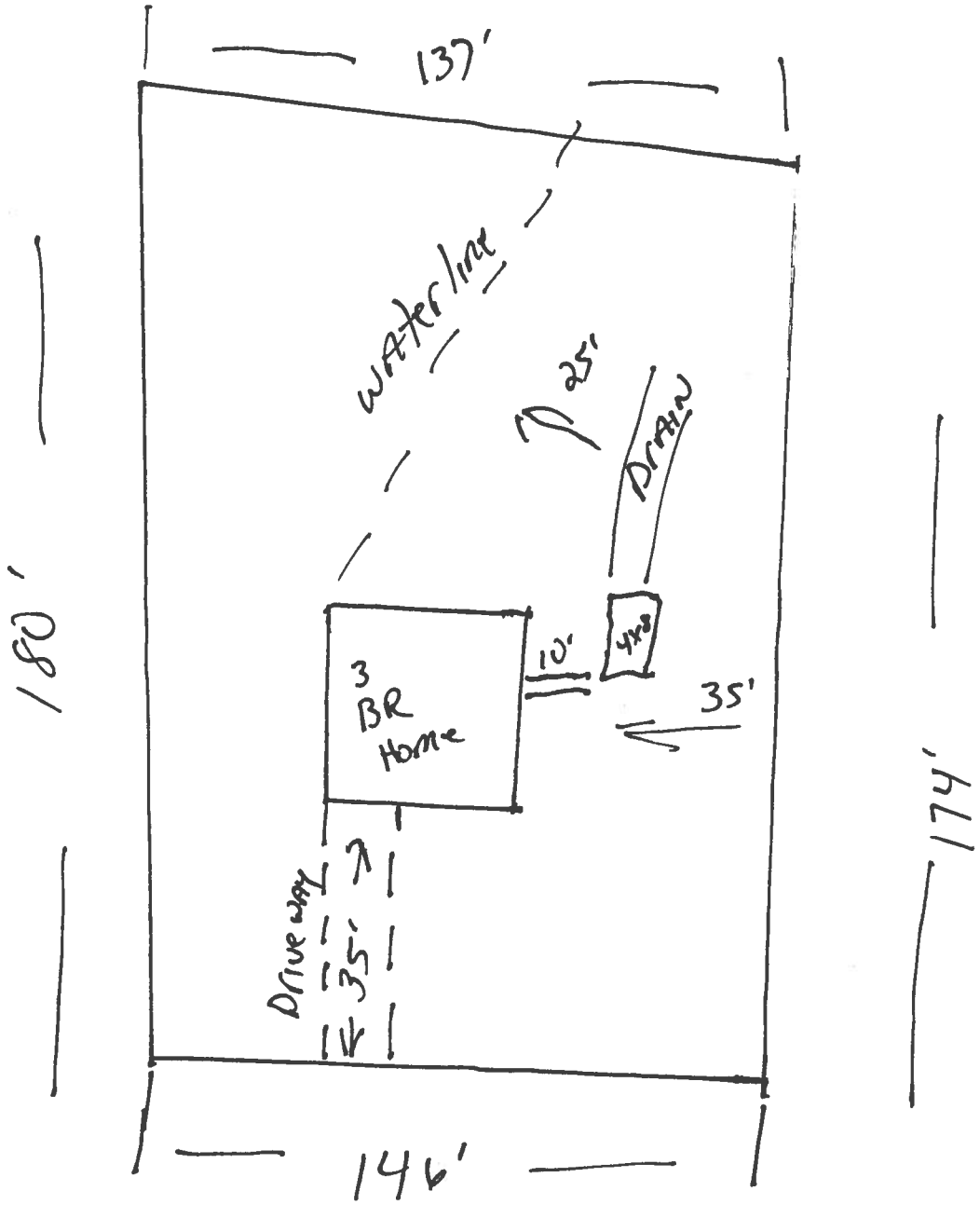
WITNESS my hand and official seal in the County and State last aforesaid this 7TH day of Octobber, A.D. 2005

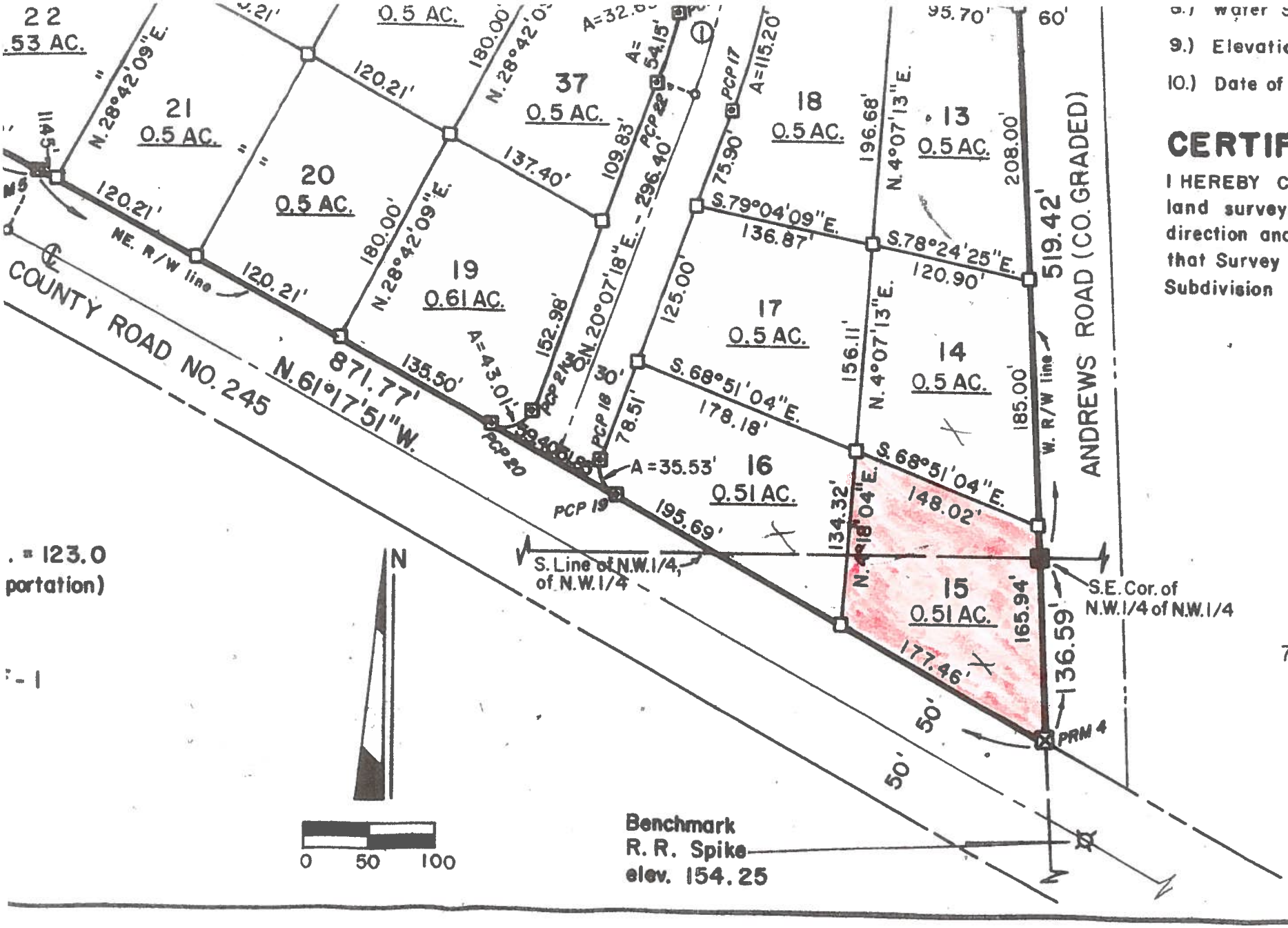
Nanci Nettles
Notary Public, State of Florida

This instrument prepared by: Bradley N. Dicks
Address: P.O. Box 513 Lake City, FL 32056

NANCI NETTLES
MY COMMISSION # DD 237895
EXPIRES: December 26, 2005
Bonded Thru Notary Public Underwriters

Go 90 EAST to St. Rd. 100 Turn right and go South 1/4 mile to CRd 245, turn right and go 2 1/2 mile to Price Creek Subdivision (Left), turn left on Andrew 1st Lot (House on corner of Andrew & 245).





. = 123.0
portation)

- 1

8.) Water Supply

9.) Elevations t

10.) Date of Prel

CERTIFIC

I HEREBY CERT
land surveyed
direction and sup
that Survey data
Subdivision Ordi

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7.5'

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Subrandy Limited Partnership

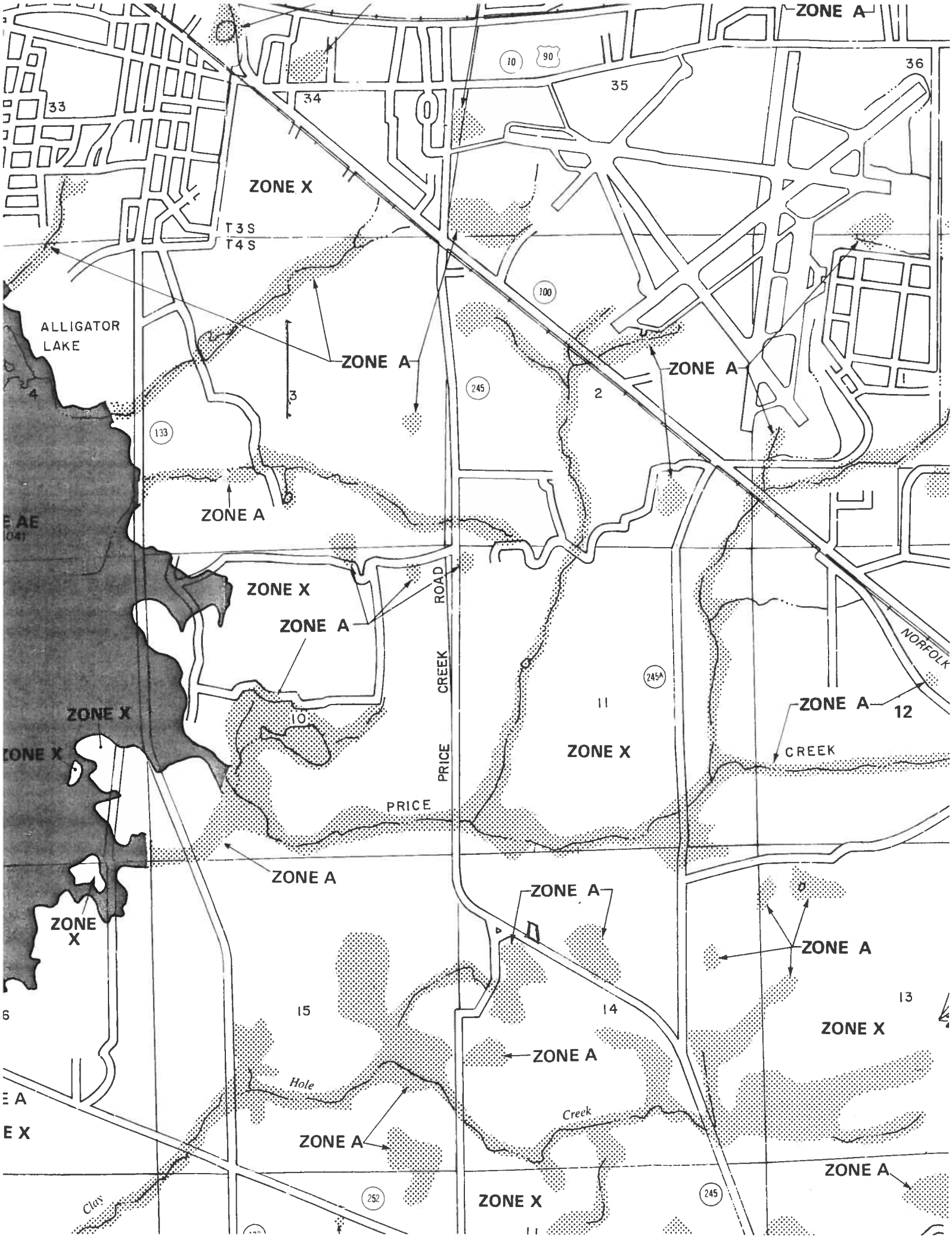
February 23, 2006

To: Whom It May Concern

Re: Lot #15

This letter is to confirm that the lot (lot#15) located at 337 SE CR 245, Lake City, Florida 32025 in Price Creek Landing does not have a well, but is supplied by a water system owned by Subrandy Limited Partnership.

Thank you.


ZONE A
ZONE X
T3S
T4S
ALLIGATOR LAKE
ZONE A
ZONE A
ZONE A
ZONE X
ZONE A
ZONE X
ZONE X
ZONE X
ZONE A
ZONE A
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ZONE A
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ZONE A
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ZONE A
ZONE X
PRICE CREEK ROAD
PRICE
NORFOLK
CREEK
Hole
Creek
Clay
10
90
100
245
133
252
245A
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34
35
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15

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000000992

DATE 03/09/2006 PARCEL ID # 14-4S-17-08354-115

APPLICANT GLENN KEEN PHONE 961-8223

ADDRESS 1534 SW DEKLE RD LAKE CITY FL 32024

OWNER GLENN&JOHN KEEN/A&B MANAGEMENT PHONE 867-0156

ADDRESS 3037 SE CR 245 LAKE CITY FL 32025

CONTRACTOR JASON ELIXSON PHONE 961-8223

LOCATION OF PROPERTY 90 E, R 100, R 245, L ANDREW (PRICE CREEK LANDING)

1ST LOT ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT PRICE CREEK LANDING 15

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

[ ] Culvert installation shall conform to the approved site plan standards.

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

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

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

Amount Paid 25.00

COLUMBIA COUNTY GOVERNMENT FLORIDA

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

Tax Parcel ID Number 08354-115 PERMIT NUMBER _____

1. Description of property: (legal description of the property and street address or 911 address)
3037 SE County Rd. 245 Lake City, FL 32025
Go 90 EAST to 100 south, Turn right go ... to CR 245 (Price creek) Turn right and go 2½ miles to Price Creek Subdivision, Turn left on Andrew, 1st Lot (house) on right

2. General description of improvement: New Residential 3 BD/2 BATH Dwelling

3. Owner Name & Address Glenn Keen 1534 SW DeKle Rd. Lake City, FL 32024
John W. Keen 4062 SW old wire rd Fort White, FL Interest in Property _____

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

5. Contractor Name Glenn Keen / Jason Elixson Phone Number (386) 961-8223
Address 1534 SW DeKle Rd. Lake City, FL 32024

6. Surety Holders Name NA Phone Number _____
Address _____
Amount of Bond _____

7. Lender Name NA Phone Number _____
Address _____

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

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

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

NOTICE AS PER CHAPTER 713, Florida Statutes:
The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Signature of Owner

Sworn to (or affirmed) and subscribed before day of 24th Feb., 2006

NOTARY STAMP/SEAL Barry Coleman My Commission DD144654 Expires August 26, 2006

Signature of Notary

Inst:2006004656 Date:02/27/2006 Time:09:00
DC,P.DeWitt Cason,Columbia County B:1075 P:785

24211

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**512121K&HFraming**	Builder:	
Address:	**Lot: 15, Sub: Price Creek SD, Plat:**	Permitting Office:	Columbia County
City, State:	**Lake City, FL**	Permit Number:	24211
Owner:	**Spec House**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	1415 ft²	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. Description Area (Dble Default) 102.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 102.0 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 189.0(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 1400.0 ft²	
b.	Frame, Wood, Exterior	R=13.0, 199.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 1415.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 140.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 31.0 kBtu/hr SEER: 10.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 31.0 kBtu/hr HSPF: 7.00	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.93	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

Glass/Floor Area: 0.07 Total as-built points: 22482 Total base points: 23890 **PASS**

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

PREPARED BY: _____

DATE: 1-23-06

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 15, Sub: Price Creek SD, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1415.0	20.04	5104.2	Double, Clear	NW	1.5	5.5	45.0	25.97	0.91	1065.5	
				Double, Clear	NW	1.5	7.0	10.0	25.97	0.95	246.0	
				Double, Clear	SE	1.5	5.5	15.0	42.75	0.86	552.1	
				Double, Clear	SE	1.5	0.0	20.0	42.75	0.38	324.4	
				Double, Clear	SE	1.5	0.0	6.0	42.75	0.38	97.3	
				Double, Clear	SW	1.5	3.5	6.0	40.16	0.72	174.5	
				As-Built Total:				**102.0**			**2460.0**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1400.0	1.50		2100.0	
Exterior	1599.0	1.70	2718.3	Frame, Wood, Exterior			13.0	199.0	1.50		298.5	
Base Total:	**1599.0**		**2718.3**	**As-Built Total:**				**1599.0**			**2398.5**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	20.0	1.60	32.0	Exterior Insulated				10.0	4.10		41.0	
Exterior	30.0	4.10	123.0	Exterior Insulated				20.0	4.10		82.0	
				Adjacent Insulated				20.0	1.60		32.0	
Base Total:	**50.0**		**155.0**	**As-Built Total:**				**50.0**			**155.0**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	1415.0	1.73	2447.9	Under Attic			30.0	1415.0	1.73 X 1.00		2447.9	
Base Total:	**1415.0**		**2447.9**	**As-Built Total:**				**1415.0**			**2447.9**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	189.0(p)	-37.0	-6993.0	Slab-On-Grade Edge Insulation			0.0	189.0(p	-41.20		-7786.8	
Raised	0.0	0.00	0.0									
Base Total:			**-6993.0**	**As-Built Total:**				**189.0**			**-7786.8**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	1415.0	10.21	14447.2					1415.0	10.21		14447.2	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 15, Sub: Price Creek SD, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 17879.6				**Summer As-Built Points:**						**14121.8**
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
				(sys 1: Central Unit 31000 btuh ,SEER/EFF(10.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)						
				14122	1.00	(1.09 x 1.147 x 1.00)	0.341	1.000	6025.8	
17879.6	**0.4266**	**7627.4**		**14121.8**	**1.00**	**1.250**	**0.341**	**1.000**	**6025.8**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 15, Sub: Price Creek SD, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	1415.0	12.74	3244.9	Double, Clear	NW	1.5	5.5	45.0	24.30	1.00	1097.8
				Double, Clear	NW	1.5	7.0	10.0	24.30	1.00	243.4
				Double, Clear	SE	1.5	5.5	15.0	14.71	1.11	245.8
				Double, Clear	SE	1.5	0.0	20.0	14.71	2.65	779.4
				Double, Clear	SE	1.5	0.0	6.0	14.71	2.65	233.8
				Double, Clear	SW	1.5	3.5	6.0	16.74	1.18	119.0
				As-Built Total:				**102.0**			**2719.2**
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1400.0	3.40		4760.0
Exterior	1599.0	3.70	5916.3	Frame, Wood, Exterior			13.0	199.0	3.40		676.6
Base Total:	**1599.0**		**5916.3**	**As-Built Total:**				**1599.0**			**5436.6**
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points
Adjacent	20.0	8.00	160.0	Exterior Insulated				10.0	8.40		84.0
Exterior	30.0	8.40	252.0	Exterior Insulated				20.0	8.40		168.0
				Adjacent Insulated				20.0	8.00		160.0
Base Total:	**50.0**		**412.0**	**As-Built Total:**				**50.0**			**412.0**
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points
Under Attic	1415.0	2.05	2900.8	Under Attic			30.0	1415.0	2.05 X	1.00	2900.8
Base Total:	**1415.0**		**2900.8**	**As-Built Total:**				**1415.0**			**2900.8**
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Slab	189.0(p)	8.9	1682.1	Slab-On-Grade Edge Insulation			0.0	189.0(p	18.80		3553.2
Raised	0.0	0.00	0.0								
Base Total:			**1682.1**	**As-Built Total:**				**189.0**			**3553.2**
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points
	1415.0	-0.59	-834.8					1415.0	-0.59		-834.8

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 15, Sub: Price Creek SD, Plat: , Lake City, FL,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**13321.2**	**Winter As-Built Points:**					**14186.9**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 31000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
			14186.9	1.000	(1.069 x 1.169 x 1.00)	0.487	1.000	8636.5
13321.2	**0.6274**	**8357.7**	**14186.9**	**1.00**	**1.250**	**0.487**	**1.000**	**8636.5**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 15, Sub: Price Creek SD, Plat: , Lake City, FL,** PERMIT #:

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

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
7627	**8358**	**7905**	**23890**	**6026**	**8636**	**7820**	**22482**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 15, Sub: Price Creek SD, Plat: , Lake City, FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.0

The higher the score, the more efficient the home.

Spec House, Lot: 15, Sub: Price Creek SD, Plat: , Lake City, FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 31.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 10.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	1415 ft²		c. N/A	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 102.0 ft²		a. Electric Heat Pump	Cap: 31.0 kBtu/hr
	b. SHGC:				HSPF: 7.00
	(or Clear or Tint DEFAULT) 7b.	(Clear) 102.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 189.0(p) ft		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 1400.0 ft²			EF: 0.93
	b. Frame, Wood, Exterior	R=13.0, 199.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 1415.0 ft²	15.	HVAC credits	
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 140.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

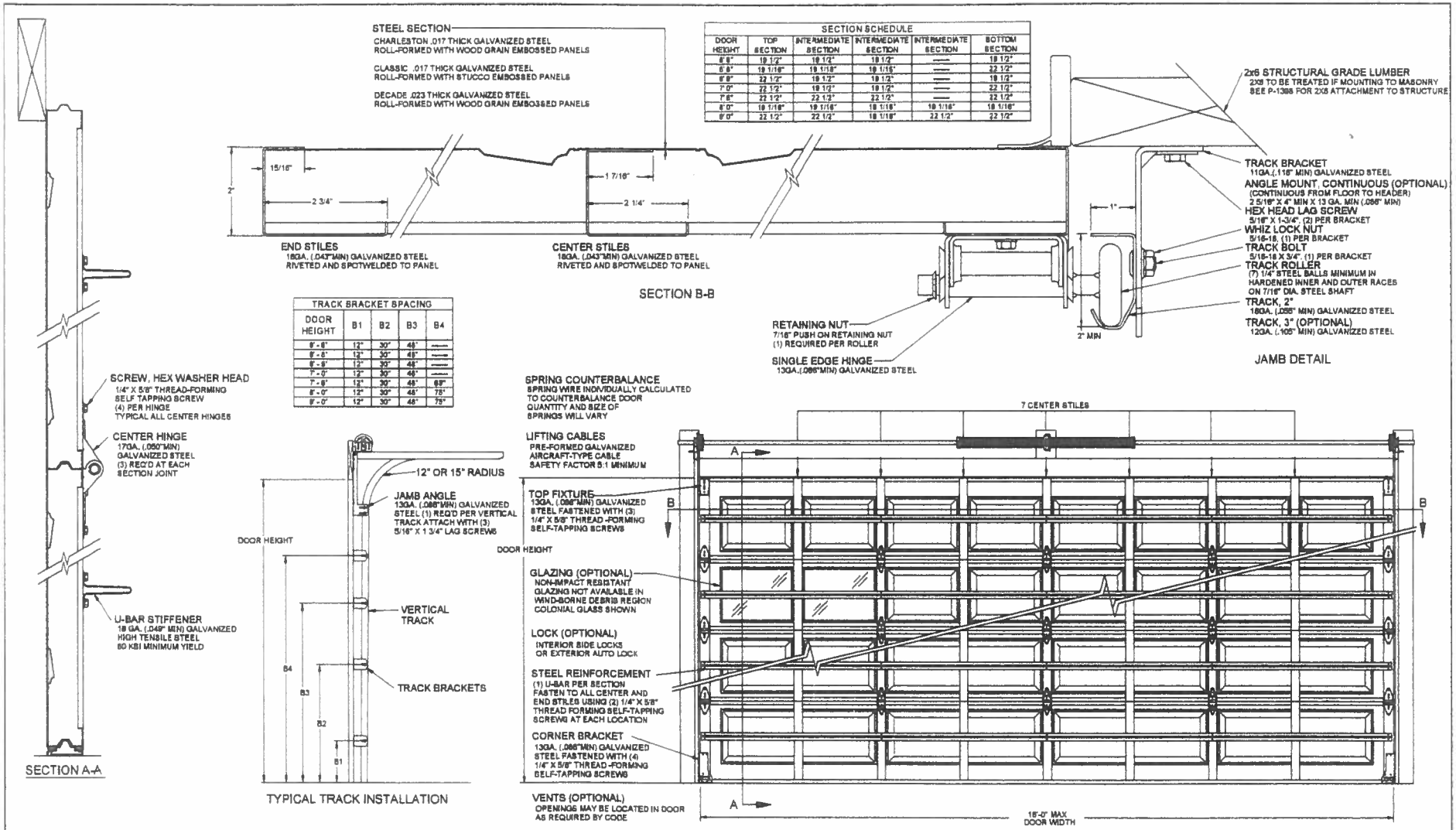
I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant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

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

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

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



DOORS TESTED PER ASTM E-330

CHARLESTON, CLASSIC, DECADE						
QTY OF CENTER STILES	NO GLASS		COLONIAL GLASS		RANCH GLASS	
	PSF RATING		PSF RATING		PSF RATING	
	DESIGN +/-	TEST +/-	DESIGN +/-	TEST +/-	DESIGN +/-	TEST +/-
7	+18.3 -20.4	+27.5 -30.6	+18.3 -20.4	+27.5 -30.6	N/A	N/A

REV.	DESCRIPTION	ECO	DATE
A	RELEASED FOR PRODUCTION	4719	07/13/04

SCALE FULL
DRAWN BY M. McCormick
CHECKED BY G. Wadeland
DATE 07/13/04
ECO 4719

RAYNOR
1101 EAST RIVER ROAD
DIXON IL 61021

TITLE: SPEC, WINDLOAD CHARLESTON/CLASSIC/ DECADE 16' WIDE

NO. P-2342 | SHEET 1 OF 1 | REV A

AAMA/NWWDA 101/I.S.2-97
TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

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

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

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

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:nlb

ALLEN M. REEVES
CERTIFICATE
NO. 18354
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Allen M. Reeves
1 APRIL 2002

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

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

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

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

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

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

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

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

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

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

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

Allen M. Reeves
1 APRIL 2002

REEVES NO. 19354 STATE OF FLORIDA PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Weatherstripping:

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

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

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

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

Hardware:

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

Allen N. Reeves
1 APRIL 2002

ALLEN N. REEVES
CERTIFICATE
NO. 19884
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

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

Test Results:

The results are tabulated as follows:

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

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

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

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

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

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1 APRIL 2002

ALLEN N. REEVES
CERTIFICATE
NO. 1937
STATE OF
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PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"*	0.26" max.
	@ 47.2 psf (negative)	0.46"*	0.26" max.

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

	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 67.5 psf (positive)	0.05"	0.18" max.
	@ 70.8 psf (negative)	0.05"	0.18" max.

Allen N. Reeves
1 APRIL 2002

ALLEN N. REEVES
CERTIFICATE NO. 19334
STATE OF FLORIDA
PROFESSIONAL ENGINEER

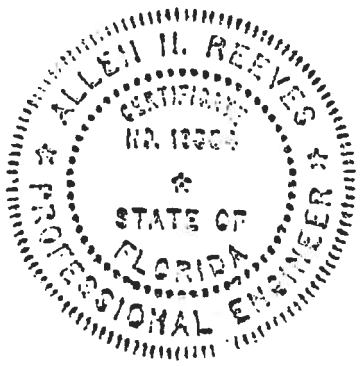
Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification.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

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

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

MAH:nlb
01-41134.01



AAMA/NWWDA 101/I.S.2-97
TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650
TYPE: Aluminum Triple Single Hung Window

Title of Test	Summary of Results
AAMA Rating	H-R35 112 x 72
Uniform Load Deflection Test Pressure	+35.3 psf -47.2 psf
Operating Force	25 lb max.
Air Infiltration	0.16 cfm/ft^2
Water Resistance Test Pressure	5.25 psf
Uniform Load Structural Test Pressure	+53.0 psf -52.5 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to ATI Report No. 01-41641.01 for complete test specimen description and data.

Allen N. Reeves
7 JUNE 2002

ALLEN N. REEVES
NO. 19354
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

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

Report No: 01-41641.01
Test Date: 05/13/02
And: 05/16/02
Report Date: 06/05/02
Expiration Date: 05/16/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness testing on a Series/Model 650, aluminum triple single hung window at their facility located in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for a H-R35 112 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 650

Type: Aluminum Triple Single Hung Window

Overall Size: 9' 3-1/2" wide by 5' 11-11/16" high

Active Sash Size (3): 3' 0-1/4" wide by 2' 10-3/4" high

Fixed Daylight Opening Size (3): 2' 8-1/4" wide by 2' 9-1/8" high

Screen Size (3): 2' 9-1/8" wide by 2' 11" high

Finish: All aluminum was painted white.

ALLEN N. REEVES
CERTIFICATE
NO. 19254
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Allen N. Reeves
7 JUNE 2002

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

Test Specimen Description: (Continued)

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

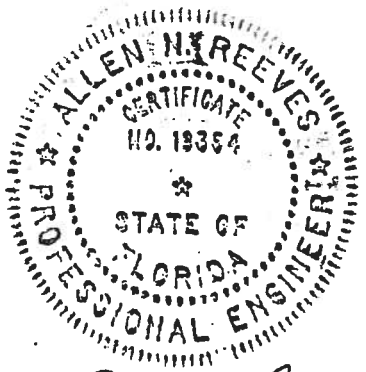
Weatherstripping:

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

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

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

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



Allen N. Reeves
7 JUNE 2002

Test Specimen Description: (Continued)

Hardware:

Description	Quantity	Location
Metal cam lock with keeper	1	Midspan of each active meeting rail with adjacent keepers
Plastic tilt latch	2	Each active sash meeting rail ends
Metal tilt pin	2	Each active sash bottom rail ends
Balance assembly	2	Each active sash contained one in each jamb
Screen plunger	2	Each screen contained two 4" from rail ends on top rail

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

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

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	25 lbs	30 lbs max.
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.16 cfm/ft^2	0.3 cfm/ft^2 max.

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

Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage

Allen N. Reeves
7 JUNE 2002

ALLEN N. REEVES CERTIFICATE NO. 13354 STATE OF FLORIDA PROFESSIONAL ENGINEER

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 52 seconds)		
	@ 15.0 psf (positive)	0.15"	0.41" max.
	@ 15.0 psf (negative)	0.29"	0.41" max.
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 10 seconds)		
	@ 22.5 psf (positive)	0.01"	0.29" max.
	@ 22.5 psf (negative)	0.01"	0.29" max.
2.2. .6.2	Deglazing Test (ASTM E 987-88) In operating direction at 70 lbs		
	Right sash, meeting rail	0.12"/25%	0.50"/100%
	Right sash, bottom rail	0.12"/25%	0.50"/100%
	Middle sash, meeting rail	0.12"/25%	0.50"/100%
	Middle sash, bottom rail	0.12"/25%	0.50"/100%
	Left sash, meeting rail	0.12"/25%	0.50"/100%
	Left sash, bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Right sash, right stile	0.06"/12%	0.50"/100%
	Right sash, left stile	0.06"/12%	0.50"/100%
	Middle sash, right stile	0.06"/12%	0.50"/100%
	Middle sash, left stile	0.06"/12%	0.50"/100%
	Left sash, right stile	0.06"/12%	0.50"/100%
	Left sash, left stile	0.06"/12%	0.50"/100%
2 .8	Forced Entry Resistance (ASTM F 588-97)		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Allen N. Reeves
7 JUNE 2002

ALLEN N. REEVES CERTIFICATE NO. 19354 STATE OF FLORIDA PROFESSIONAL ENGINEER

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
	Optional Performance		
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 5.25 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 52 seconds)		
	@ 35.3 psf (positive)	0.46"*	0.41" max
	@ 47.2 psf (negative)	0.67"*	0.41" max
	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 10 seconds)		
	@ 53.0 psf (positive)	0.03"	0.29" max
	@ 52.5 psf (negative)	0.02"	0.29" max

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

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

For ARCHITECTURAL TESTING, INC

Mark A. Hess
Technician

MAH:nlb
01-41641.01

Allen N. Reeves, P.E.
Director - Engineering Services
7 JUNE 2002

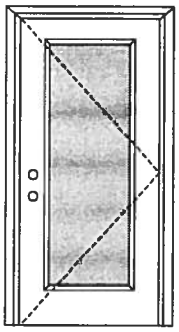
ALLEN N. REEVES
CERTIFICATE
NO. 19354
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

X
Glazed Outswing Unit

COP-WL-JH4161-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Note:
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Single Door
Maximum unit size = 3'0" x 6'8"

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

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

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0011-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

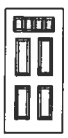
1/4 GLASS:


100 Series

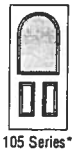

133, 135 Series

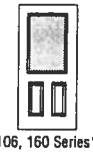

136 Series

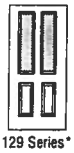

680 Series


822 Series

1/2 GLASS:

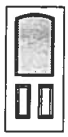

105 Series*


106, 160 Series*

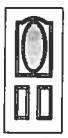

129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 Series

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

Johnson™ EntrySystems

June 17, 2002
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PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

X
Glazed Outswing Unit

COP-WL-JH4161-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

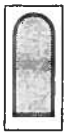
3/4 GLASS:

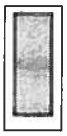

404 Series

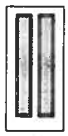

410 Series

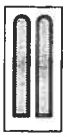

450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

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

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

Kurt L Balthazor

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

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

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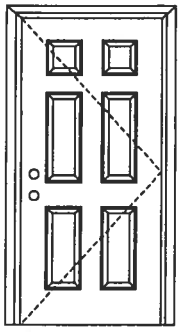
X
Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Warnock Hersey

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Note:
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure
+66.0/-66.0
limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is NOT REQUIRED.

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0001-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:


Flush

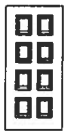

Arch Top 3-panel


3-panel


6-panel


New England 4-panel


Eyebrow 4-panel


8-panel

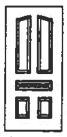

9-panel


15-panel


5-panel


5-panel with scroll


Eyebrow 5-panel


Eyebrow 5-panel with scroll

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PREMDOR Collection Premium Quality Doors

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Masonite International Corporation

X
Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

CERTIFIED TEST REPORTS:

NCTL 210-2185-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA201, PA202 and PA203.

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO
PA201, PA202 & PA203

COMPANY NAME
CITY, STATE

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

Kurt L Balthazor

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

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Johnson™ EntrySystems

June 17, 2002
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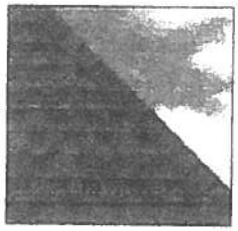
PREMDOR® Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

ELK Roofing Products Specifications – Tuscaloosa, AL



PRESTIQUE®
HIGH DEFINITION®

RAISED PROFILE®

Prestique Plus *High Definition* and Prestique Gallery Collection®

Product size	13¼"x 39¼"
Exposure	5⅝"
Pieces/Bundle	16
Bundles/Square	4/98.5 sq.ft.
Squares/Pallet	11

50-year limited warranty period: 5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 110 mph***

Prestique I *High Definition*

Product size	13¼"x 39⅜"
Exposure	5⅝"
Pieces/Bundle	16
Bundles/Square	4/98.5 sq.ft.
Squares/Pallet	14

40-year limited warranty period: 5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 90 mph***

Prestique *High Definition*

Product size	13¼"x 38⅞"
Exposure	5⅞"
Pieces/Bundle	22
Bundles/Square	3/100 sq.ft.
Squares/Pallet	16

30-year limited warranty period: 5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph.

Raised Profile

Product size	13¼"x 38⅞"
Exposure	5⅞"
Pieces/Bundle	22
Bundles/Square	3/100 sq.ft
Squares/Pallet	16

30-year limited warranty period: 5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 70 mph.

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/*FLX*™

Size: 12"x 12"
Exposure: 6⅛"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

Vented RidgeCrest® w/*FLX*

Size: 13"x13¼"
Exposure: 9¼"
Pieces/Box: 26
Coverage: 5 boxes = 100 linear feet

Elk Starter Strip

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors (Check Availability): Antique Slate, Weatheredwood, Shakewood, Sablewood, Hickory, Barkwood, Forest Green, Wedgewood, Birchwood, Sandalwood. Gallery Collection: Balsam Forest*, Weathered Sage*, Sienna Sunset*.

All Prestique, Raised Profile and Seal-A-Ridge, and Prestique Starter Strip roofing products contain sealant which activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard* treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae.

All Prestique and Raised Profile shingles meet UL* Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles have approval from the Florida Building Code Commission, Metro-Dade County, ICBO, and Texas Department of Insurance.

*See actual limited warranty for conditions and limitations.
** Effective January 1, 2004, the seven year non-prorated Umbrella Coverage Period applies only when a full Elk Roof System is installed with the original installation of the Elk shingles, all in accordance with Elk's application instructions for such products. A full Elk roof system includes Elk Hip and Ridge shingles on all hips and ridges, Elk Starter Strip along all rake and eave edges, an Elk ventilation system, and Elk All-Climate Self-Adhering Underlayment in all valleys. Additionally, Elk All-Climate Self-Adhering Underlayment is required along the rake and eave edges of the roof in and north of the states of VA, KY, MO, KS, CO, UT, NV, & OR.
***For a limited Wind Warranty up to 110 mph for Prestique Gallery Collection, Prestique Plus, or 90 mph for Prestique I or Grande, at least six (6) properly placed NAILS and Elk Starter Strip shingles are required. See application instructions printed on the shingle wrapper for additional requirements.

Specifications

Scope: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula *FLX*.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

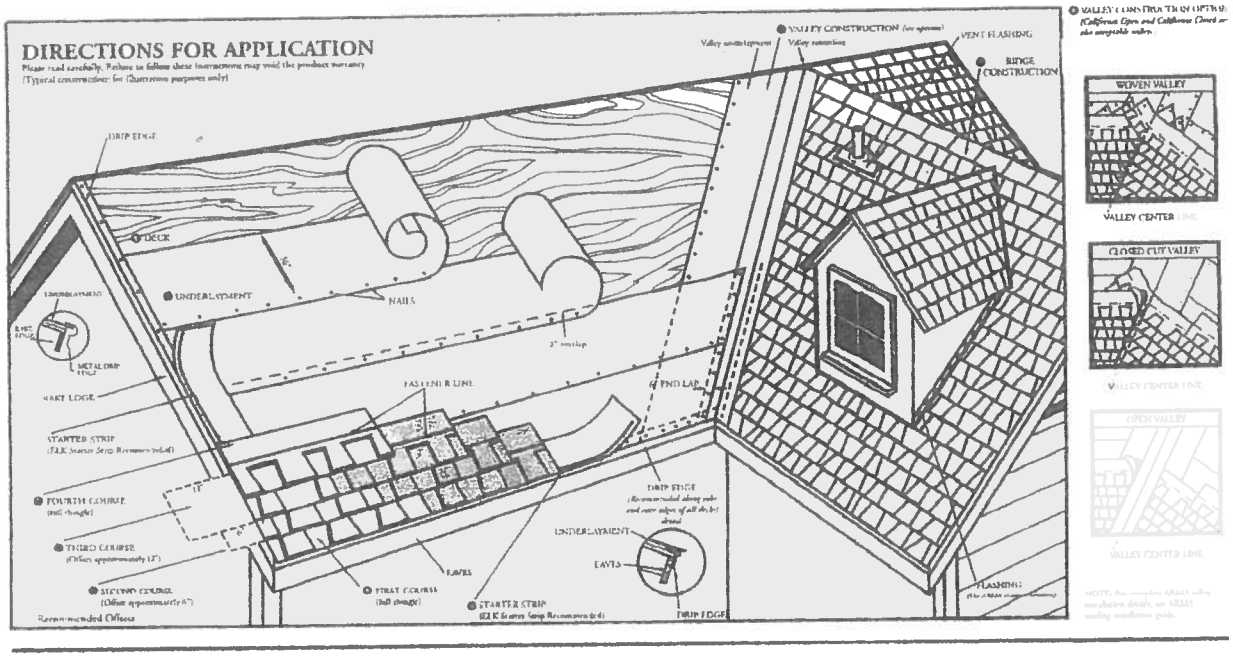
Preparation of Roof Deck: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association, 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and

Materials: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For Low slopes[4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)], use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula *FLX* with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.



DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All attics should be properly ventilated. Note: It is not necessary to remove tape on back of shingle.

❶ DECK PREPARATION

Roof decks should be dry, well-seasoned 1 x 6 boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

❷ UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Elk Versashield® or self adhering underlayment is also acceptable. Cover drip edge at eaves only.

For low slope(2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 19". Begin by fastening a 19" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR. REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 21/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the Elk Technical Services Department for application specifications over other decks and other slopes.

❸ STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR THE HEADLAP OF A STRIP SHINGLE WITH THE ADHESIVE STRIP POSITIONED AT THE EAVE EDGE. With at least 3" trimmed from the end of the first shingle, start at the rake edge overhanging the eave and rake edges 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side.

❹ FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course alignment of 45° on the roof.

❺ SECOND COURSE

Offset the second course of shingles with respect to the first by approximately 6". Other offsets are approved if greater than 4".

❻ THIRD COURSE

Offset the next course by 6" with respect to the second course, or consistent with the original offset.

❼ FOURTH COURSE

Start at the rake and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof. Offsets may be adjusted around valleys and penetrations.

❽ VALLEY CONSTRUCTION

Open woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys use 36" wide vertical underlayment prior to applying metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

❾ RIDGE CONSTRUCTION

For ridge construction Elk recommends Elite "A" ZRidge or Seal-A-Ridge® with formula *FLX*™ or RidgeCrest® with *FLX* (See ridge package for installation instructions). Vented RidgeCrest or 3-tab shingles are also approved.

FASTENERS

While nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

Using the fastener line as a reference, nail or staple the shingle in the double thickness common bond area. For shingles without a fastener line, nails or staples must be placed between and/or in the sealant dots.

NAILS: Corrosive resistant, 3/8" head minimum 12-gauge roofing nails. Elk recommends 1-1/4" for new roofs and 1-1/2" for roof-overs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 3/4" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less. This product meets the requirements of the IRC 2003 code when fastened with 4 nails.

MANSARD APPLICATIONS

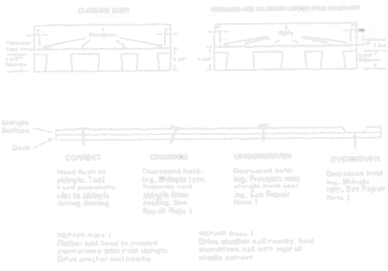
Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

LIMITED WIND WARRANTY

- For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique I, shingles must be applied with 6 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestique Plus, Prestique Gallery Collection and Prestique I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Elk Starter Strip overhang the eaves or rake edge more than 3/4 of an inch.

HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along – and through – the "fastener line" or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.

All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALER: Careless and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

ELK
The Premium Choice
www.elkcorp.com

K & H Framing 1415
HVAC Load Calculations

for

K & H Framing
4062 South West Old Wire Road
Fort White Fl 32038

Elite Software

RHVAC RESIDENTIAL HVAC LOADS

Prepared By:
Chuck Fischer
North Central Florida Air Conditioning
P.O Box 700
High Springs Fl 32655-0700
386-454-4767
Wednesday, January 25, 2006

Project Report

General Project Information

Project Filename:	C:\Documents and Settings\Heat\My Documents\Projects\AutoLoad MJ8.rhv
Project Title:	K & H Framing 1415
Designed By:	Chuck Fischer
Project Date:	January 14th 2006
Client Name:	K & H Framing
Client Address:	4062 South West Old Wire Road
Client City:	Fort White Fl 32038
Client Phone:	386-867-0155
Client Comment:	
Company Name:	North Central Florida Air Conditioning
Company Representative:	Chuck Fischer
Company Address:	P.O Box 700
Company City:	High Springs Fl 32655-0700
Company Phone:	386-454-4767
Company Fax:	386-454-4854
Company Comment:	Bedroom 2&3 R/A are 10x10x8 Master bedroom R/A is 12x12x9 Main R/A is 20x24x18

Design Data

Reference City:		Gainesville, Florida
Daily Temperature Range:		Medium
Latitude:	29	Degrees
Elevation:	152	ft.
Altitude Factor:	0.995	
Elevation Sensible Adj. Factor:	1.000	
Elevation Total Adj. Factor:	1.000	
Elevation Heating Adj. Factor:	1.000	
Elevation Heating Adj. Factor:	1.000	

	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	31	0	0	68	0
Summer:	93	77	50	75	50

Check Figures

Total Building Supply CFM:	1,073	CFM Per Square ft.:	0.758
Square ft. of Room Area:	1,415	Square ft. Per Ton:	557
Volume (ft³) of Cond. Space:	13,735	Air Turnover Rate (per hour):	4.7

Building Loads

Total Heating Required With Outside Air:	27,439 Btuh	27.439 MBH	
Total Sensible Gain:	23,479 Btuh	83 %	
Total Latent Gain:	4,711 Btuh	17 %	
Total Cooling Required With Outside Air:	28,190 Btuh	2.35 Tons (Based On Sensible + Latent)	
		2.54 Tons (Based On 77% Sensible Capacity)	

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

Miscellaneous Report

System 1 Main Floor Input Data	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	31	0	50	68	30.84
Summer:	93	77	50	75	50.06

Duct Sizing Inputs

	Main Trunk		Runouts	
Calculate:	Yes		Yes	
Use Schedule:	No		No	
Roughness Factor:	0.00300		0.01000	
Pressure Drop:	0.1000	in.wg./100 ft.	0.1000	in.wg./100 ft.
Minimum Velocity:	650	ft./min	450	ft./min
Maximum Velocity:	900	ft./min	750	ft./min
Minimum Height:	0	in.	0	in.
Maximum Height:	0	in.	0	in.

Outside Air Data

	Winter		Summer	
Infiltration:	0.900	AC/hr	0.400	AC/hr
Volume of Conditioned Space:	X 13735	Cu.ft.	X 13735	Cu.ft.
	12,362	Cu.ft./hr	5,494	Cu.ft./hr
	X 0.0167		X 0.0167	
Total Building Infiltration:	206	CFM	92	CFM
Total Building Ventilation:	0	CFM	0	CFM

—System 1—

Infiltration & Ventilation Sensible Gain Multiplier:	19.69	= (1.10 X 0.995 X 18.00 Summer Temp. Difference)
Infiltration & Ventilation Latent Gain Multiplier:	33.85	= (0.68 X 0.995 X 50.06 Grains Difference)
Infiltration & Ventilation Sensible Loss Multiplier:	40.48	= (1.10 X 0.995 X 37.00 Winter Temp. Difference)

Load Preview Report

Scope	Area	Sens Gain	Lat Gain	Net Gain	Sens Loss	Win CFM	Sum CFM	Sys CFM	Duct Size
Building: 2.35 Net Tons, 2.54 Recommended Tons, 557 ft²/Ton, 27.44 MBH Heating									
Building	1,415	23,479	4,711	28,190	27,439	358	1,073	1,073	
System 1: 2.35 Net Tons, 2.54 Recommended Tons, 557 ft²/Ton, 27.44 MBH Heating									
System 1	1,415	23,479	4,711	28,190	27,439	358	1,073	1,073	14x14
Zone 1	1,415	23,479	4,711	28,190	27,439	358	1,073	1,073	
1-Bedroom 3	174	3,119	986	4,105	4,546	59	143	143	1-7
2-Bath 2	59	743	112	855	942	12	34	34	1-3
3-Bedroom 2	193	3,178	1,006	4,184	4,724	62	145	145	1-7
4-Hall	49	388	0	388	130	2	18	18	1-3
5-Family Room	251	4,079	505	4,584	4,318	56	186	186	2-6
6-Eating Area	108	2,200	362	2,562	2,948	38	101	101	1-6
7-Kitchen	123	2,986	230	3,216	235	3	136	136	1-7
8-Foyer	92	898	60	958	779	10	41	41	1-4
9-Laundry Room	35	875	237	1,112	1,831	24	40	40	1-4
10-Master Bedroom	219	3,242	727	3,969	3,060	40	148	148	1-7
11-W.i.c	31	666	223	889	1,702	22	30	30	1-3
12-Master Bath	81	1,102	263	1,365	2,224	29	50	50	1-4

Total Building Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	86	2,069	0	2,020	2,020
10B-f: Glazing-French door, double pane clear glass, insulated fiberglass frame, ground reflectance = 0.23	40.8	725	0	1,713	1,713
11P: Door-Polyurethane Core	20.4	219	0	172	172
12C-4sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, R-4 board insulation, siding finish, wood studs	1098	2,803	0	1,547	1,547
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1415.6	1,676	0	1,949	1,949
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	140	7,034	0	0	0
Subtotals for structure:		14,526	0	7,401	7,401
People:	7		1,610	2,100	3,710
Equipment:			0	1,200	1,200
Lighting:	2070			7,059	7,059
Ductwork:		4,574	0	3,915	3,915
Infiltration: Winter CFM: 206, Summer CFM: 92		8,339	3,101	1,804	4,905
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
Total Building Load Totals:		27,439	4,711	23,479	28,190

Check Figures

Total Building Supply CFM:	1,073	CFM Per Square ft.:	0.758
Square ft. of Room Area:	1,415	Square ft. Per Ton:	557
Volume (ft³) of Cond. Space:	13,735	Air Turnover Rate (per hour):	4.7

Building Loads

Total Heating Required With Outside Air:	27,439 Btuh	27.439 MBH	
Total Sensible Gain:	23,479 Btuh	83 %	
Total Latent Gain:	4,711 Btuh	17 %	
Total Cooling Required With Outside Air:	28,190 Btuh	2.35 Tons (Based On Sensible + Latent)	
		2.54 Tons (Based On 77% Sensible Capacity)	

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1 Main Floor Summary Loads (Average Method)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	86	2,069	0	2,020	2,020
10B-f: Glazing-French door, double pane clear glass, insulated fiberglass frame, ground reflectance = 0.23	40.8	725	0	1,713	1,713
11P: Door-Polyurethane Core	20.4	219	0	172	172
12C-4sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, R-4 board insulation, siding finish, wood studs	1098	2,803	0	1,547	1,547
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1415.6	1,676	0	1,949	1,949
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	140	7,034	0	0	0
Subtotals for structure:		14,526	0	7,401	7,401
People:	7		1,610	2,100	3,710
Equipment:			0	1,200	1,200
Lighting:	2070			7,059	7,059
Ductwork:		4,574	0	3,915	3,915
Infiltration: Winter CFM: 206, Summer CFM: 92		8,339	3,101	1,804	4,905
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
System 1 Main Floor Load Totals:		27,439	4,711	23,479	28,190

Check Figures

Supply CFM:	1,073	CFM Per Square ft.:	0.758
Square ft. of Room Area:	1,415	Square ft. Per Ton:	557
Volume (ft³) of Cond. Space:	13,735	Air Turnover Rate (per hour):	4.7

System Loads

Total Heating Required With Outside Air:	27,439 Btuh	27.439 MBH	
Total Sensible Gain:	23,479 Btuh	83 %	
Total Latent Gain:	4,711 Btuh	17 %	
Total Cooling Required With Outside Air:	28,190 Btuh	2.35 Tons (Based On Sensible + Latent)	
		2.54 Tons (Based On 77% Sensible Capacity)	

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1, Zone 1 Summary Loads (Average Method)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	86	2,069	0	2,020	2,020
10B-f: Glazing-French door, double pane clear glass, insulated fiberglass frame, ground reflectance = 0.23	40.8	725	0	1,713	1,713
11P: Door-Polyurethane Core	20.4	219	0	172	172
12C-4sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, R-4 board insulation, siding finish, wood studs	1098	2,803	0	1,547	1,547
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1415.6	1,676	0	1,949	1,949
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	140	7,034	0	0	0
Subtotals for structure:		14,526	0	7,401	7,401
People:	7		1,610	2,100	3,710
Equipment:			0	1,200	1,200
Lighting:	2070			7,059	7,059
Ductwork:		4,574	0	3,915	3,915
Infiltration: Winter CFM: 206, Summer CFM: 92		8,339	3,101	1,804	4,905
System 1, Zone 1 Load Totals:		27,439	4,711	23,479	28,190

Check Figures

Supply CFM:	1,073	CFM Per Square ft.:	0.758
Square ft. of Room Area:	1,415	Square ft. Per Ton:	557
Volume (ft³) of Cond. Space:	13,735	Air Turnover Rate (per hour):	4.7

Zone Loads

Total Heating Required:	27,439 Btuh	27.439 MBH	
Total Sensible Gain:	23,479 Btuh	83 %	
Total Latent Gain:	4,711 Btuh	17 %	
Total Cooling Required:	28,190 Btuh	2.35 Tons (Based On Sensible + Latent)	
		2.54 Tons (Based On 77% Sensible Capacity)	

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Air Sys CFM
---Zone 1---										
1	Bedroom 3	174	4,546	59	1-7	533	3,119	986	143	143
2	Bath 2	59	942	12	1-3	692	743	112	34	34
3	Bedroom 2	193	4,724	62	1-7	544	3,178	1,006	145	145
4	Hall	49	130	2	1-3	361	388	0	18	18
5	Family Room	251	4,318	56	2-6	475	4,079	505	186	186
6	Eating Area	108	2,948	38	1-6	512	2,200	362	101	101
7	Kitchen	123	235	3	1-7	511	2,986	230	136	136
8	Foyer	92	779	10	1-4	470	898	60	41	41
9	Laundry Room	35	1,831	24	1-4	458	875	237	40	40
10	Master Bedroom	219	3,060	40	1-7	555	3,242	727	148	148
11	W.i.c	31	1,702	22	1-3	620	666	223	30	30
12	Master Bath	81	2,224	29	1-4	577	1,102	263	50	50
	System 1 total	1,415	27,439	358			23,479	4,711	1,073	1,073

System 1 Main Trunk Size: 14x14 in.
Velocity: 874 ft./min
Loss per 100 ft.: 0.101 in.wg

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	2.35	83% / 17%	23,479	4,711	28,190
Recommended:	2.54	77% / 23%	23,479	7,013	30,492
Actual:	3.04	69% / 31%	25,185	11,315	36,500

Equipment Data

	Heating System	Cooling System
Type:	Air Source Heat Pump	Air Source Heat Pump
Model:	RHE36C2*/BBC36A2A+CHA36TCC	RHE36C2*/BBC36A2A+CHA36TCC
Brand:	AMANA	
Efficiency:	8.1 HSPF	13 SEER
Sound:		
Capacity:	36,500	36,500
Sensible Capacity:	n/a	25,185 Btuh
Latent Capacity:	n/a	11,315 Btuh

Residential System Sizing Calculation

Summary

Spec House

Lake City, FL

Project Title:
512121K&HFraming

Class 3 Rating
Registration No. 0
Climate: North

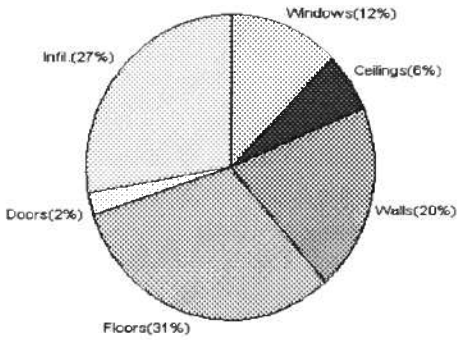
1/23/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**26285**	**Btuh**	**Total cooling load calculation**	**18446**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	117.9	31000	Sensible (SHR = 0.75)	165.3	23250
Heat Pump + Auxiliary(0.0kW)	117.9	31000	Latent	177.0	7750
			Total (Electric Heat Pump)	168.1	31000

WINTER CALCULATIONS

Winter Heating Load (for 1415 sqft)

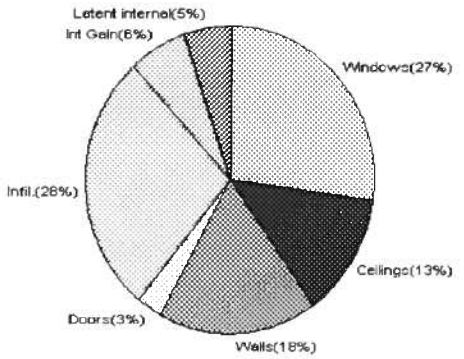
Load component			Load	
Window total	102	sqft	3283	Btuh
Wall total	1599	sqft	5251	Btuh
Door total	50	sqft	648	Btuh
Ceiling total	1415	sqft	1667	Btuh
Floor total	189	sqft	8252	Btuh
Infiltration	177	cfm	7184	Btuh
Duct loss			0	Btuh
Subtotal			**26285**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**26285**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1415 sqft)

Load component			Load	
Window total	102	sqft	5029	Btuh
Wall total	1599	sqft	3335	Btuh
Door total	50	sqft	490	Btuh
Ceiling total	1415	sqft	2343	Btuh
Floor total			0	Btuh
Infiltration	92	cfm	1721	Btuh
Internal gain			1150	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**14068**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3378	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1000	Btuh
Total latent gain			**4378**	**Btuh**
TOTAL HEAT GAIN			**18446**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: [signature]
DATE: 1-23-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House | Project Title: 512121K&HFraming | Class 3 Rating

Lake City, FL | Registration No. 0 | Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F | 1/23/2006

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	NW	10.0	32.2	322 Btuh
3	2, Clear, Metal, 0.87	SE	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	SE	20.0	32.2	644 Btuh
5	2, Clear, Metal, 0.87	SE	6.0	32.2	193 Btuh
6	2, Clear, Metal, 0.87	SW	6.0	32.2	193 Btuh
	Window Total		102(sqft)		3283 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1400	3.3	4598 Btuh
2	Frame - Wood - Ext(0.09)	13.0	199	3.3	654 Btuh
	Wall Total		1599		5251 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		10	12.9	130 Btuh
	Door Total		50		648Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1415	1.2	1667 Btuh
	Ceiling Total		1415		1667Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	189.0 ft(p)	43.7	8252 Btuh
	Floor Total		189		8252 Btuh
			Zone Envelope Subtotal:		19101 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.94	11320	177.3	7184 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**26285 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	26285 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	26285 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL

Project Title:
512121K&HFraming

Class 3 Rating
Registration No. 0
Climate: North

1/22/2020

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

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Spec House | Project Title: 512121K&HFraming | Class 3 Rating

Lake City, FL | Registration No. 0 | Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F | 1/23/2006

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	NW	10.0	32.2	322 Btuh
3	2, Clear, Metal, 0.87	SE	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	SE	20.0	32.2	644 Btuh
5	2, Clear, Metal, 0.87	SE	6.0	32.2	193 Btuh
6	2, Clear, Metal, 0.87	SW	6.0	32.2	193 Btuh
	Window Total		102(sqft)		3283 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1400	3.3	4598 Btuh
2	Frame - Wood - Ext(0.09)	13.0	199	3.3	654 Btuh
	Wall Total		1599		5251 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		10	12.9	130 Btuh
	Door Total		50		648Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1415	1.2	1667 Btuh
	Ceiling Total		1415		1667Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	189.0 ft(p)	43.7	8252 Btuh
	Floor Total		189		8252 Btuh
			Zone Envelope Subtotal:		19101 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.94	11320	177.3	7184 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**26285 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	26285 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	26285 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL

Project Title:
512121K&HFraming

Class 3 Rating
Registration No. 0
Climate: North

1/30/2009

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House

Project Title:
512121K&HFraming

Class 3 Rating
Registration No. 0

Lake City, FL

Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

1/23/2006

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

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Overhang Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	HTM Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	7ft.	10.0	0.0	10.0	29	60	600 Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734 Btuh
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	20.0	20.0	0.0	29	63	579 Btuh
5	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	6.0	6.0	0.0	29	63	174 Btuh
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	6.0	4.0	2.0	29	63	239 Btuh
	Window Total				102 (sqft)					5029 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1400.0	2.1	2920 Btuh
2	Frame - Wood - Ext	13.0/0.09	199.0	2.1	415 Btuh
	Wall Total		1599 (sqft)		3335 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
3	Insulated - Exterior	10.0	9.8	98 Btuh
	Door Total	50 (sqft)		490 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1415.0	1.7	2343 Btuh
	Ceiling Total		1415 (sqft)		2343 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	189 (ft(p))	0.0	0 Btuh
	Floor Total		189.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		11197 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.49	11320	92.4	1721 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		5	X 230 +	0	1150 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**14068 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL

Project Title:
512121K&HFraming

Class 3 Rating
Registration No. 0
Climate: North

1/23/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**14068 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**14068 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**14068 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	3378 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (5 people @ 200 Btuh per person)	1000 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4378 Btuh**
	TOTAL GAIN	**18446 Btuh**

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House
Lake City, FL

Project Title:
512121K&HFraming

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/23/2006

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

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Overhang Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	HTM Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	7ft.	10.0	0.0	10.0	29	60	600 Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734 Btuh
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	20.0	20.0	0.0	29	63	579 Btuh
5	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	6.0	6.0	0.0	29	63	174 Btuh
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	6.0	4.0	2.0	29	63	239 Btuh
	Window Total				102 (sqft)					5029 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1400.0	2.1	2920 Btuh
2	Frame - Wood - Ext	13.0/0.09	199.0	2.1	415 Btuh
	Wall Total		1599 (sqft)		3335 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
3	Insulated - Exterior	10.0	9.8	98 Btuh
	Door Total	50 (sqft)		490 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1415.0	1.7	2343 Btuh
	Ceiling Total		1415 (sqft)		2343 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	189 (ft(p))	0.0	0 Btuh
	Floor Total		189.0 (sqft)		0 Btuh

	Zone Envelope Subtotal:	11197 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.49	11320	92.4	1721 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	5	X 230 +	0	1150 Btuh

Duct load		
	Unsealed, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh

	Sensible Zone Load	**14068 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL

Project Title:
512121K&HFraming

Class 3 Rating
Registration No. 0
Climate: North

1/23/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**14068 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**14068 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**14068 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	3378 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (5 people @ 200 Btuh per person)	1000 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4378 Btuh**
	TOTAL GAIN	**18446 Btuh**

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

For Florida residences only

Residential Window Diversity

MidSummer

Spec House

Lake City, FL

Project Title:
512121K&HFraming

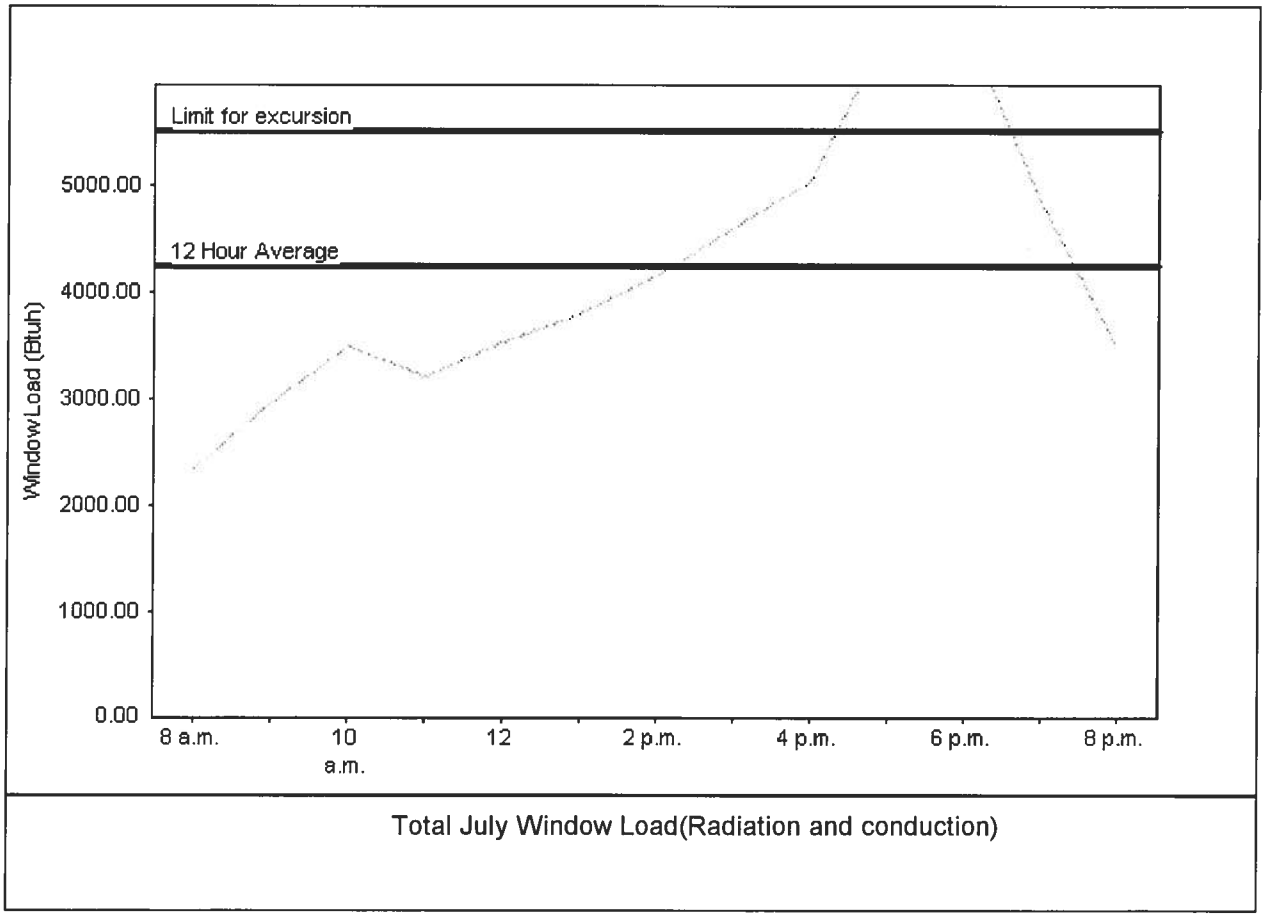
Class 3 Rating
Registration No. 0
Climate: North

1/23/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	4240 Btuh
Summer setpoint	75 F	Peak window load for July	6503 Btuh
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	5512 Btuh
Latitude	29 North	Window excursion (July)	992 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 1-23-06

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☑	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☐	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☑	☑	**Site Plan including:** See NOTE 1 a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☑	**Wind-load Engineering Summary, calculations and any details required** Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m²) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
☑	☑	**Elevations including:** a) All sides
☑	☑	b) Roof pitch
☑	☑	c) Overhang dimensions and detail with attic ventilation

d) Location, size and height above roof of chimneys.
e) Location and size of skylights
f) Building height
e) Number of stories

Floor Plan including:

a) Rooms labeled and dimensioned.
b) Shear walls identified.
c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**
d) Show safety glazing of glass, where required by code.
e) Identify egress windows in bedrooms, and size.
f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).**
g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

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

Roof System:

a) Truss package including:
   1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
   2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

b) Conventional Framing Layout including:
   1. Rafter size, species and spacing
   2. Attachment to wall and uplift
   3. Ridge beam sized and valley framing and support details
   4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

a) Masonry wall
   1. All materials making up wall
   2. Block size and mortar type with size and spacing of reinforcement
   3. Lintel, tie-beam sizes and reinforcement
   4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
   5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
   6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
   7. Fire resistant construction (if required)
   8. Fireproofing requirements
   9. Shoe type of termite treatment (termiticide or alternative method)
   10. Slab on grade
      a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
      b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
   11. Indicate where pressure treated wood will be placed
   12. Provide insulation R value for the following:

a. Attic space
b. Exterior wall cavity
c. Crawl space (if applicable)

☑ ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

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

Floor Framing System:

☐ ☐ a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

☑ ☑ **Plumbing Fixture layout**

Electrical layout including:

☑ ☑ a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

☑ ☑ b) Ceiling fans

☑ ☑ c) Smoke detectors

☑ ☑ d) Service panel and sub-panel size and location(s)

☑ ☐ e) Meter location with type of service entrance (overhead or underground)

☑ ☑ f) Appliances and HVAC equipment

☑ ☑ g) Arc Fault Circuits (AFCI) in bedrooms

☑ ☑ h) Exhaust fans in bathroom

HVAC information

☑ ☑ a) Energy Calculations (dimensions shall match plans)

☑ ☑ b) Manual J sizing equipment or equivalent computation

☐ ☑ c)Gas System Type (LP or Natural) Location and BTU demand of equipment

☐ ☐ **Disclosure Statement for Owner Builders**

☑ ☐ ***Notice Of Commencement Required Before Any Inspections Will Be Done**

☑ ☐ **Private Potable Water**

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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.

2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 **(Toilet facilities shall be provided for construction workers)**

4. **City Approval:** **If the project is to be located within the city limits of the Town of Fort White,** prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. **(386) 497-2321**

5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
A development permit will also be required. Development permit cost is **$50.00**

6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit **($25.00)** must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver **($50.00)**. All culvert waivers are sent to the Columbia County Public Works Department for approval or denial. **If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.**

7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS –PLEASE DO NOT ASK

Location:_____ **Project Name:**_____

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

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

I understand these products may have to be removed if approval cannot be demonstrated during inspection

_____

_____

_____

K & H FRAMING — Glenn L. Keen — 2/24/06

Contractor or Contractor's Authorized Agent Signature — Print Name — Date

_____ — _____

Location — Permit # **(FOR STAFF USE ONLY)**

NOTICE:

ADDRESSES BY APPOINTMENT ONLY!

TO OBTAIN A 9-1-1 ADDRESS THE REQUESTER MUST CONTACT THE COLUMBIA COUNTY 9-1-1 ADDRESSING DEPARTMENT AT (386) 752-8787 FOR AN APPOINTMENT TIME AND DATE:

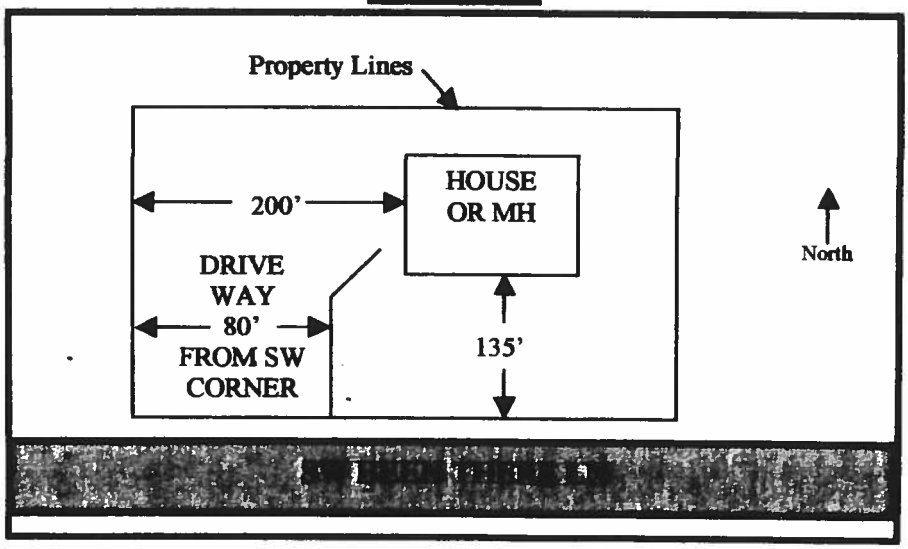
YOU CAN NOT OBTAIN A NEW ADDRESS OVER THE TELEPHONE. MUST MAKE AN APPOINTMENT!

THE ADDRESSING DEPARTMENT IS LOCATED AT 263 NW LAKE CITY AVENUE (OFF OF WEST U.S. HIGHWAY 90 WEST OF INTERSTATE 75 AT THE COLUMBIA COUNTY EMERGENCY OPERATIONS CENTER).

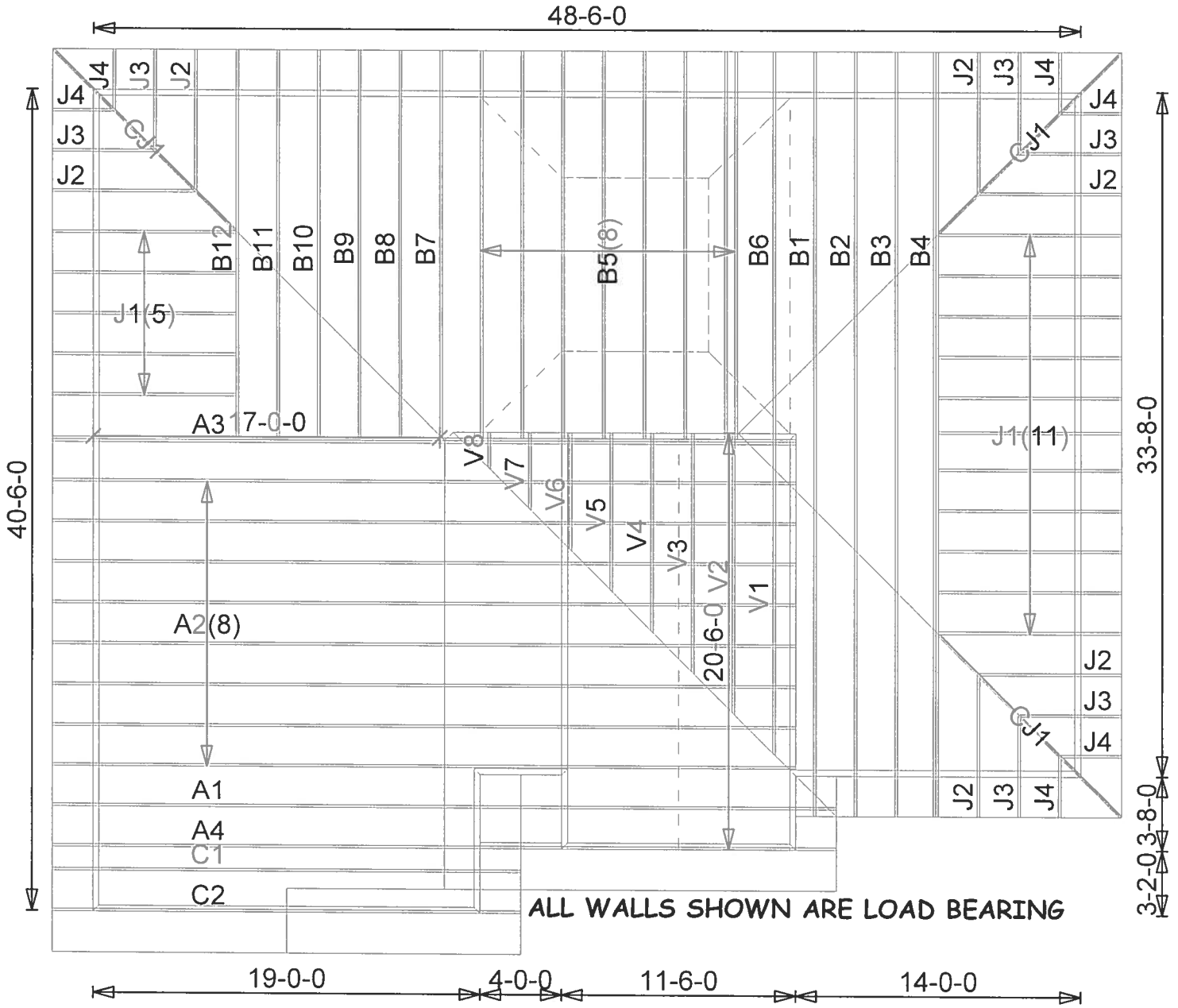
THE REQUESTER WILL NEED THE FOLLOWING:

1. THE PARCEL OR TAX ID NUMBER (SAMPLE: "25-4S-17-12345-123" OR "R12345-123) FOR THE PROPERTY.
2. A PLAT, PLAN, SITE PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
   a. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
   b. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
   c. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



NOTE: 5 TO 7 WORKING DAYS MAY BE REQUIRED IF ADDRESSING DEPARTMENT NEEDS TO CONDUCT AN ON SITE SURVEY.



Mayo Truss Co. Inc.

362 NE CLYDE AVE.
MAYO, FL 32066

(386)294-3988
(877)-558-6262

K & H FRAMING

KEEN

110 MPH ASCE WIND LOAD

Roof Loading
TC Live: 20.00 psf
TC Dead: 10.00 psf
BC Live: 0.00 psf
BC Dead: 10.00 psf
TC Stress Inc: 25.00
BC Stress Inc: 25.00
Spacing: 2- 0- 0 o.c.

Account: CONTRACTORS
Job: KH-KEEN
Designer: A. HIGHSMITH
Checker: M.MURRAY
Date: 01-12-06

Permit Number:_____ Lot Number:_____

Miscellaneous:_____ Address:_____

The information in this box is for administrative purposes only and is not part of the engineering review.

Truss Fabricator:Mayo Truss Company, Inc

Job Reference:KH-KEEN - KEEN MODEL

Standard Loading:

T.C. Live	20 psf
T.C Dead	10 psf
B.C Live	0 psf
B.C. Dead	10 psf
Total	40 psf

ANSI/ASCE 7-02
Wind Speed - 110 mph
Mean Roof Ht. - 15 ft.
Exposure Catergory -B
Occupancy Factor - 1.00
MWFRS
Enclosed

ROBBINS ENGINEERING, INC.
P.O. Box 280055
Tampa, FL 33682-0055
Phone: (813) 972-1135

Engineering Index Sheet

Index Page 1 of 1

Job Number	Date	FBC - 2004 Chapter 16 and 23	Specification Quantity
T06010966	01/11/2006		31

A Professional Engineer's seal affixed to this Index Sheet indicates the acceptance of Professional Engineering responsibilities for individual truss components fabricated in accordance with the listed and attached Truss Specification Sheets. Determination as to the suitability of these individual truss components for any structure is the responsibilty of the Building Designer, as defined in ANSI/TPI 1-1995, Section 2.2. Permanent files of the original Truss Specificstion Sheet are maintained by Robbins Engineering, Inc. Questions regarding this Index Sheet and/or the attached Specification Sheets may be directed to the truss fabricator listed above or Robbins Engineering, Inc. (Sofware - Online Plus)

Notes: Refer to individual truss design drawings for special loading conditions.

	Date	Mark
1	01/11/06	A1
5	01/11/06	B1
9	01/11/06	B5
13	01/11/06	B9
17	01/11/06	C1
21	01/11/06	J2
25	01/11/06	V2
29	01/11/06	V6

	Date	Mark
2	01/11/06	A2
6	01/11/06	B2
10	01/11/06	B6
14	01/11/06	B10
18	01/11/06	C2
22	01/11/06	J3
26	01/11/06	V3
30	01/11/06	V7

	Date	Mark
3	01/11/06	A3
7	01/11/06	B3
11	01/11/06	B7
15	01/11/06	B11
19	01/11/06	CJ1
23	01/11/06	J4
27	01/11/06	V4
31	01/11/06	V8

	Date	Mark
4	01/11/06	A4
8	01/11/06	B4
12	01/11/06	B8
16	01/11/06	B12
20	01/11/06	J1
24	01/11/06	V1
28	01/11/06	V5

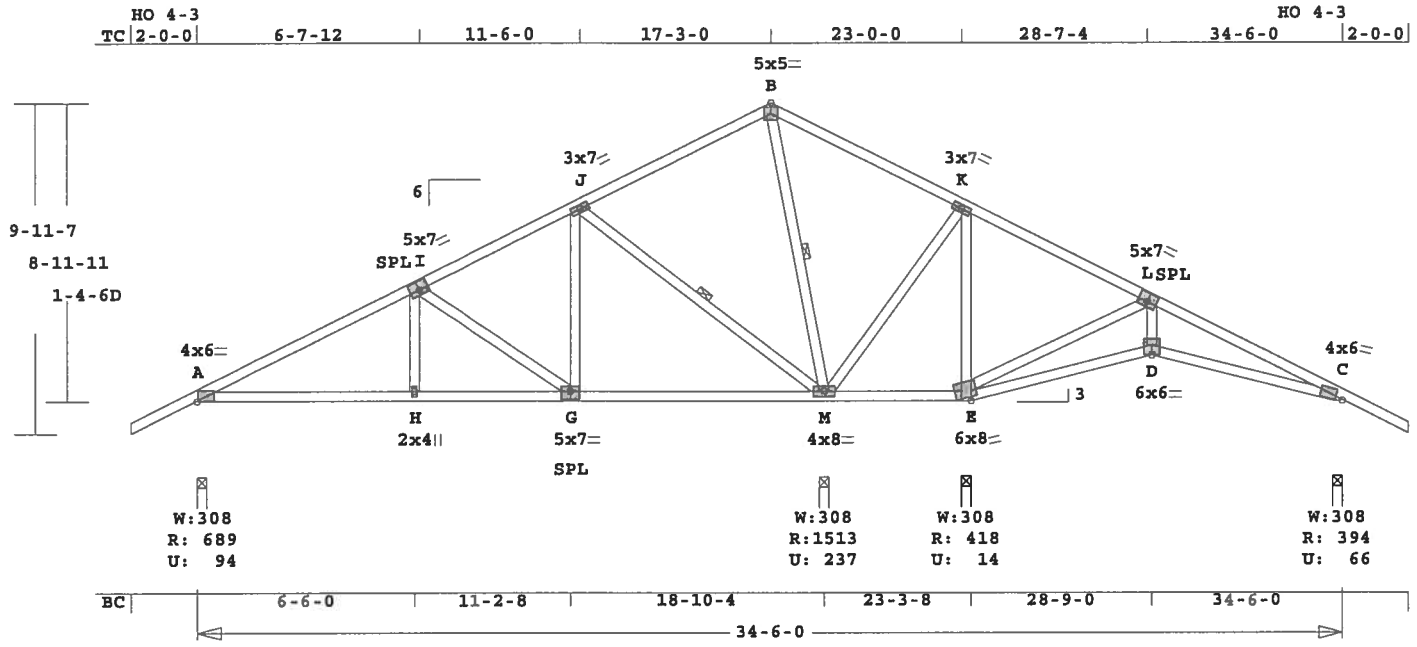
Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

PHILIP J. O'REGAN LICENSE No. 58126 STATE OF FLORIDA PROFESSIONAL ENGINEER

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	A1	1	SP	340600	6	2- 0- 0	2- 0- 0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 244.5 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.40	2x 4	SP-#2
BC	0.29	2x 4	SP-#2
WB	0.31	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	34- 6- 0
BC Cont.	0- 0- 0	34- 6- 0

WB 1 rows CLB on J -M
WB 1 rows CLB on B -M
Attach CLB with (2)-10d nails at each web.

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	Req'd In-Sx
A	690	95	3- 8	1- 0
			Hz =	-180
M	1513	237	3- 8	1-10
E	419	14	3- 8	1- 0
C	394	67	3- 8	1- 0
			Hz =	181

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -I	0.31	715	C	0.00	0.31
I -J	0.31	265	C	0.00	0.31
J -B	0.30	368	T	0.04	0.26
B -K	0.40	523	T	0.07	0.33
K -L	0.40	379	T	0.07	0.33
L -C	0.29	251	C	0.00	0.29
Bottom Chords					
A -H	0.28	646	T	0.10	0.18
H -G	0.28	646	T	0.06	0.22
G -M	0.29	235	T	0.02	0.27
M -E	0.27	336	C	0.00	0.27
E -D	0.17	242	T	0.03	0.14
D -C	0.20	249	T	0.04	0.16
Webs					
H -I	0.03	223	T		
I -G	0.20	496	C		
G -J	0.07	454	T		
J -M	0.20	712	C		1 Br
B -M	0.20	755	C		1 Br
M -K	0.14	233	C		
E -K	0.05	124	C		
E -L	0.31	646	C		
D -L	0.04	300	T		

LL Defl -0.06" in G -M L/999
TL Defl -0.12" in G -M L/999
Shear // Grain in A -I 0.23

Hz Disp	LL	DL	TL
Jt C	0.01"	0.01"	0.03"

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 6.0	Ctr	0.1	0.68
I	LOCK	5.0x 7.0	-0.2	0.5	0.72
J	LOCK	3.0x 7.0	Ctr	Ctr	0.41
B	LOCK	5.0x 5.0	Ctr	Ctr	0.66
K	LOCK	3.0x 7.0	Ctr	Ctr	0.46
L	LOCK	5.0x 7.0	0.2	0.5	0.72
C	LOCK	4.0x 6.0	Ctr	Ctr	0.85
H	LOCK	2.0x 4.0	Ctr	Ctr	0.44
G	LOCK	5.0x 7.0	Ctr	-0.5	0.73
M	LOCK	4.0x 8.0	Ctr	Ctr	0.47
E	LOCK	6.0x 8.0	-0.4	2.1	1.00
D	LOCK	6.0x 6.0	Ctr	-0.6	0.63

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

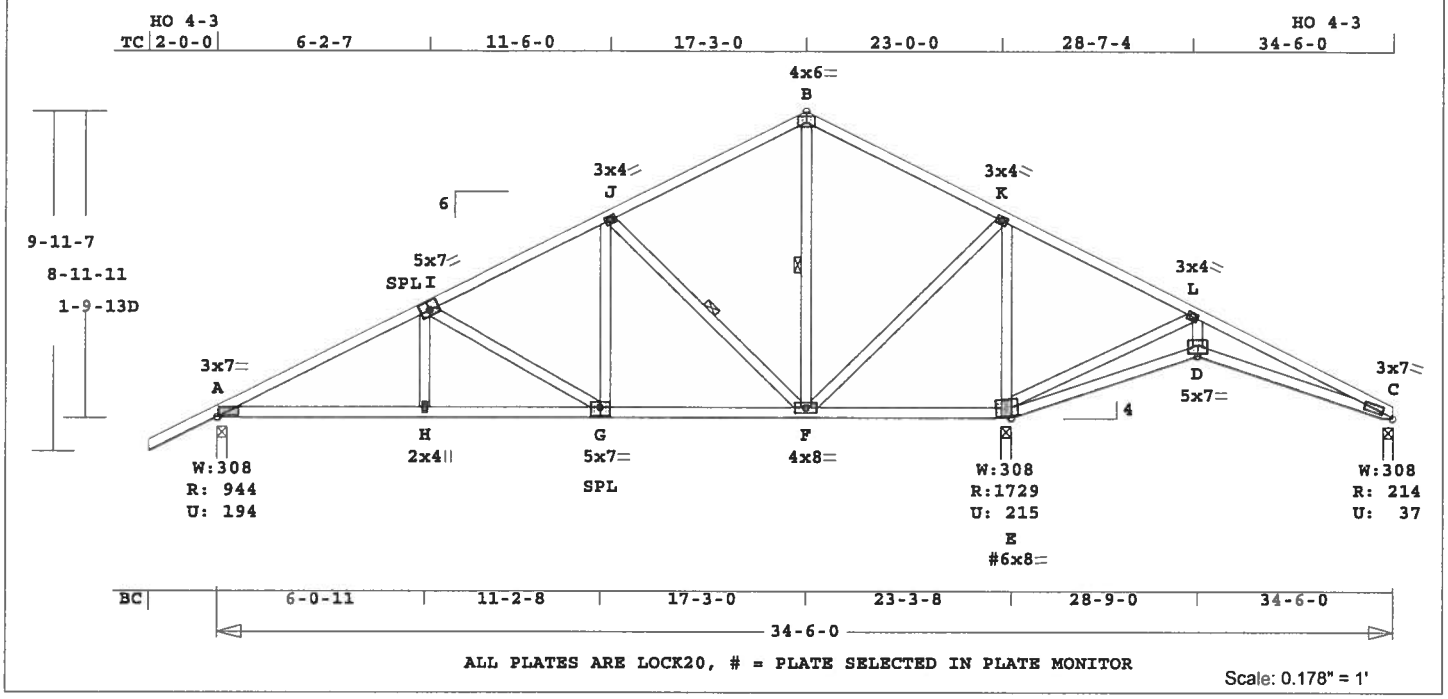
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Run vertical thru bottom chord Joint E
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 755 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	A2	8	SP	340600	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 239.4 LBS

Online Plus -- Version 18.0.020
RUN DATE: 1-11-06

	CSI	SIZE LUMBER	1.15FB
TOP	0.43	2X 4 SP-#2	1720
BTM	0.33	2X 4 SP-#2	1720
WBS	0.74	2X 4 SP-#2	1720

REPETITIVE MEMBER INCREASES:
FB 15.0% FT 0.0% FC 0.0%

LATERAL BRACING:
TOP CHORD - CONTINUOUS
BTM CHORD - CONTINUOUS
ONE BRACE - J-F F-B
TRUSS SPACING - 24.0 IN.

STANDARD LOADING
LUMBER STRESS INCREASE: 25.0%
PLATE STRESS INCREASE: 25.0%

LOADING	LIVE	DEAD (PSF)	
TOP CHD	20.0	10.0	
BTM CHD	0.0	10.0	
TOTAL	20.0	20.0	40.0

SUPPORT CRITERIA

JT	REACT	WIDTH	JT	REACT	WIDTH
	LBS	IN-SX		LBS	IN-SX
A	944	3- 8	E	1729	3- 8
C	214	3- 8			

LOAD CASE #1 UBC LL CHECK
LUMBER STRESS INCREASE: 50.0%
PLATE STRESS INCREASE: 50.0%

LOADING	LIVE	DEAD (PSF)	
TOP CHD	0.0	10.0	
BTM CHD	10.0	10.0	
TOTAL	10.0	20.0	30.0

SUPPORT CRITERIA

JT	REACT	WIDTH	JT	REACT	WIDTH
	LBS	IN-SX		LBS	IN-SX
A	660	3- 8	E	1298	3- 8
C	159	3- 8			

	LEFT	RIGHT
HEEL	0IN - 4SX	0IN - 4SX

MEMBR	CSI	P(LBS)	M@1ST	M@2ND
TOP CHORDS				
A-I	0.29	1294 C	1008	-1796
I-J	0.30	821 C	1796	-1943
J-B	0.30	295 C	1943	-1475
B-K	0.33	296 C	1473	-2152
K-L	0.43	507 T	2152	-1965
L-C	0.30	84 C	1965	396
BOTTOM CHORDS				
A-H	0.33	1162 T	-257	-665
H-G	0.32	1162 T	665	-547
G-F	0.27	736 T	547	-676
F-E	0.19	453 C	676	-804
E-D	0.13	99 T	282	-648
D-C	0.19	107 T	630	1078

WEBS

H-I	=	229 T	I-G	=	493 C
G-J	=	405 T	J-F	=	662 C
F-B	=	87 C	F-K	=	975 T
E-K	=	1377 C	E-L	=	608 C
D-L	=	269 T			

DL+LL DEFL = 0.12" IN J-B
LL DEFL = 0.03" < BRG-SPAN/240
SPAN/DEFL (DL+LL) = 999

PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
PLATES - 20 GAUGE LOCK
GRIPPING 632-312 PSI PER PAIR
INCLUDES 25.0% INCREASE
TENSION 1339- 465 PLI PER PAIR
SHEAR 784- 506 PLI PER PAIR

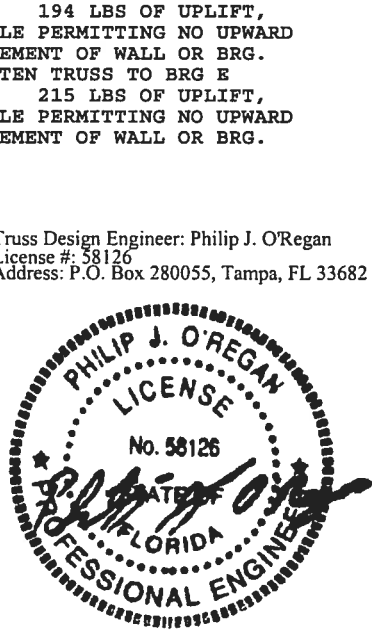
JT	TYPE	PLATE	SIZE	X	Y
A	2001	3.00	X 7.00	6.2	2.9
B	3001	4.00	X 6.00	3.0	2.2
C	2101	3.00	X 7.00	11.0	2.6
D	6001	5.00	X 7.00	3.5	3.0
!E	5093	6.00	X 8.00	5.9	2.9
F	1070	4.00	X 8.00	CTR	CTR
G	1131	5.00	X 7.00	CTR	3.0
H	1001	2.00	X 4.00	CTR	CTR
I	1151	5.00	X 7.00	CTR	3.0
J	1050	3.00	X 4.00	CTR	CTR
K	1050	3.00	X 4.00	CTR	CTR
L	1050	3.00	X 4.00	CTR	CTR

! SELECTED VIA PLATE MONITOR
REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
1. TRUSSES MANUFACTURED BY - Mayo Truss Co. Inc.
2. EMPIRICAL ANALOG IS USED.
3. DESIGN INCLUDES CHECK FOR 10 PSF NON-CONCURRENT LIVE LOAD ON BOTTOM CHORD.
4. WIND LOADS - ANSI/ASCE 7-02
   TRUSS IS DESIGNED AS A MAIN WIND-FORCE RES SYSTEM
   FOR EXTERIOR ZONE LOCATION
   WIND SPEED - 110 MPH
   MEAN ROOF HEIGHT - 15'
   EXPOSURE CATEGORY - B
   OCCUPANCY FACTOR - 1.00
   ENCLOSED BUILDING.
   TC DEAD LOAD = 5.0 PSF
   BC DEAD LOAD = 5.0 PSF
5. ANCHOR TRUSS FOR A TOTAL HORIZONTAL LOAD OF 191 LBS.
6. FASTEN TRUSS TO BRG A FOR 194 LBS OF UPLIFT, WHILE PERMITTING NO UPWARD MOVEMENT OF WALL OR BRG.
7. FASTEN TRUSS TO BRG E FOR 215 LBS OF UPLIFT, WHILE PERMITTING NO UPWARD MOVEMENT OF WALL OR BRG.

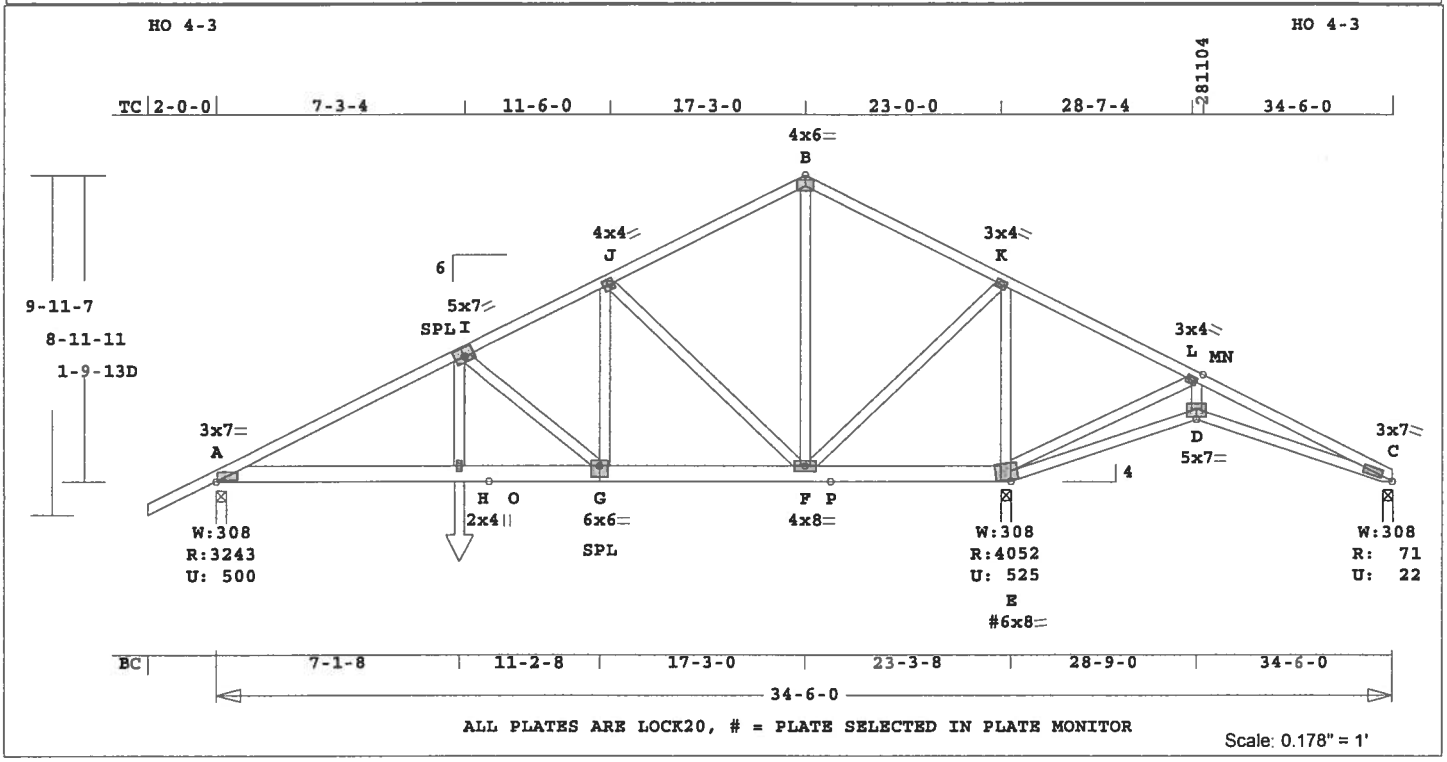
Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	A3	1*2P	SP	340600	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 259.4 LBS

Online Plus -- Version 18.0.020
RUN DATE: 1-11-06

****
* 2-PLY TRUSS *
****

	CSI	SIZE LUMBER	FB
TOP	0.51	2X 4 SP-#2	1500
BTM	0.80	2X 6 SP-#2	1250
WBS	0.98	2X 4 SP-#2	1500

EXCEPTIONS:
E-D 2X 4 SP-#2 1500
D-C SAME AS E-D

LATERAL BRACING:
TOP CHORD - CONTINUOUS
BTM CHORD - CONTINUOUS
TRUSS SPACING - 24.0 IN.

STANDARD LOADING
LUMBER STRESS INCREASE: 25.0%
PLATE STRESS INCREASE: 25.0%

LOADING	LIVE	DEAD (PSF)	
TOP CHD	20.0	10.0	
BTM CHD	0.0	10.0	
TOTAL	20.0	20.0	40.0

EXCEPTIONS:
O-P 75.6 85.6
CONCENTRATED LOADS (LBS)
H 728 (LIVE)
H 728 (DEAD)

SUPPORT CRITERIA

JT	REACT	WIDTH	JT	REACT	WIDTH
	LBS	IN-SX		LBS	IN-SX
A	3243	3- 8	E	4052	3- 8
C	71	3- 8			

LOAD CASE #1 UBC LL CHECK
LUMBER STRESS INCREASE: 50.0%
PLATE STRESS INCREASE: 50.0%

LOADING	LIVE	DEAD (PSF)	
TOP CHD	0.0	10.0	
BTM CHD	10.0	10.0	
TOTAL	10.0	20.0	30.0

EXCEPTIONS:
O-P 85.6 85.6
CONCENTRATED LOADS (LBS)
H 728 (LIVE)
H 728 (DEAD)

SUPPORT CRITERIA

JT	REACT	WIDTH	JT	REACT	WIDTH
	LBS	IN-SX		LBS	IN-SX
A	2957	3- 8	E	3624	3- 8
C	16	3- 8			

LEFT RIGHT

HEEL 0IN - 4SX 0IN - 4SX

MEMBER FORCES - EACH PLY

MEMBR	CSI	P(LBS)	M@1ST	M@2ND
		TOP CHORDS		
A-I	0.51	3144 C	876	-655
I-J	0.23	2269 C	655	-732
J-B	0.16	938 C	732	-853
B-K	0.18	939 C	855	-978
K-L	0.29	404 T	978	-1274
L-M	0.29	366 T	1274	-1053
M-C	0.25	355 T	618	634
		BOTTOM CHORDS		
A-H	0.48	2811 T	-933	262
H-O	0.50	2811 T	-262	1460
O-G	0.80	2811 T	-1460	-5003
G-F	0.69	2030 T	5003	-3161
F-P	0.27	364 C	3161	-2110
P-E	0.18	364 C	2110	-216
E-D	0.09	323 C	552	-611
D-C	0.13	319 C	606	381
		WEBS		
H-I	= 930 T	I-G	= 1017 C	
G-J	= 1594 T	J-F	= 1647 C	
F-B	= 741 T	F-K	= 1634 T	
E-K	= 1876 C	E-L	= 86 C	
D-L	= 110 C			

DL+LL DEFL = 0.18" IN G-F
LL DEFL = 0.09" < BRG-SPAN/240
SPAN/DEFL (DL+LL) = 999

PLATES ARE FOR EACH PLY

PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
PLATES - 20 GAUGE LOCK
GRIPPING 632-312 PSI PER PAIR
INCLUDES 25.0% INCREASE
TENSION 1339- 465 PLI PER PAIR
SHEAR 784- 506 PLI PER PAIR

JT	TYPE	PLATE	SIZE	X	Y
A	2001	3.00 X	7.00	10.2	4.9
B	3001	4.00 X	6.00	3.0	2.2
C	2101	3.00 X	7.00	11.0	2.6
D	6001	5.00 X	7.00	3.5	3.0
!E	5093	6.00 X	8.00	2.4	3.2
F	1070	4.00 X	8.00	CTR	CTR
G	1131	6.00 X	6.00	CTR	4.0
H	1001	2.00 X	4.00	CTR	CTR
I	1151	5.00 X	7.00	CTR	3.0
J	1050	4.00 X	4.00	1.5	CTR
K	1050	3.00 X	4.00	CTR	CTR
L	1050	3.00 X	4.00	CTR	CTR
M					
O					
P					

! SELECTED VIA PLATE MONITOR
REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
1. TRUSSES MANUFACTURED BY - Mayo Truss Co. Inc.
2. EMPIRICAL ANALOG IS USED.
3. DESIGN INCLUDES CHECK FOR 10 PSF NON-CONCURRENT LIVE LOAD ON BOTTOM CHORD.
4. WIND LOADS - ANSI/ASCE 7-02
   TRUSS IS DESIGNED AS A MAIN WIND-FORCE RES SYSTEM
   FOR EXTERIOR ZONE LOCATION
   WIND SPEED - 110 MPH
   MEAN ROOF HEIGHT - 15'
   EXPOSURE CATEGORY - B
   OCCUPANCY FACTOR - 1.00
   ENCLOSED BUILDING.
   TC DEAD LOAD = 5.0 PSF
   BC DEAD LOAD = 5.0 PSF
5. TIE-IN LOADS SHOWN WITHOUT DAMAGE TO TRUSS.

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	A3	1*2P	SP	340600	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL

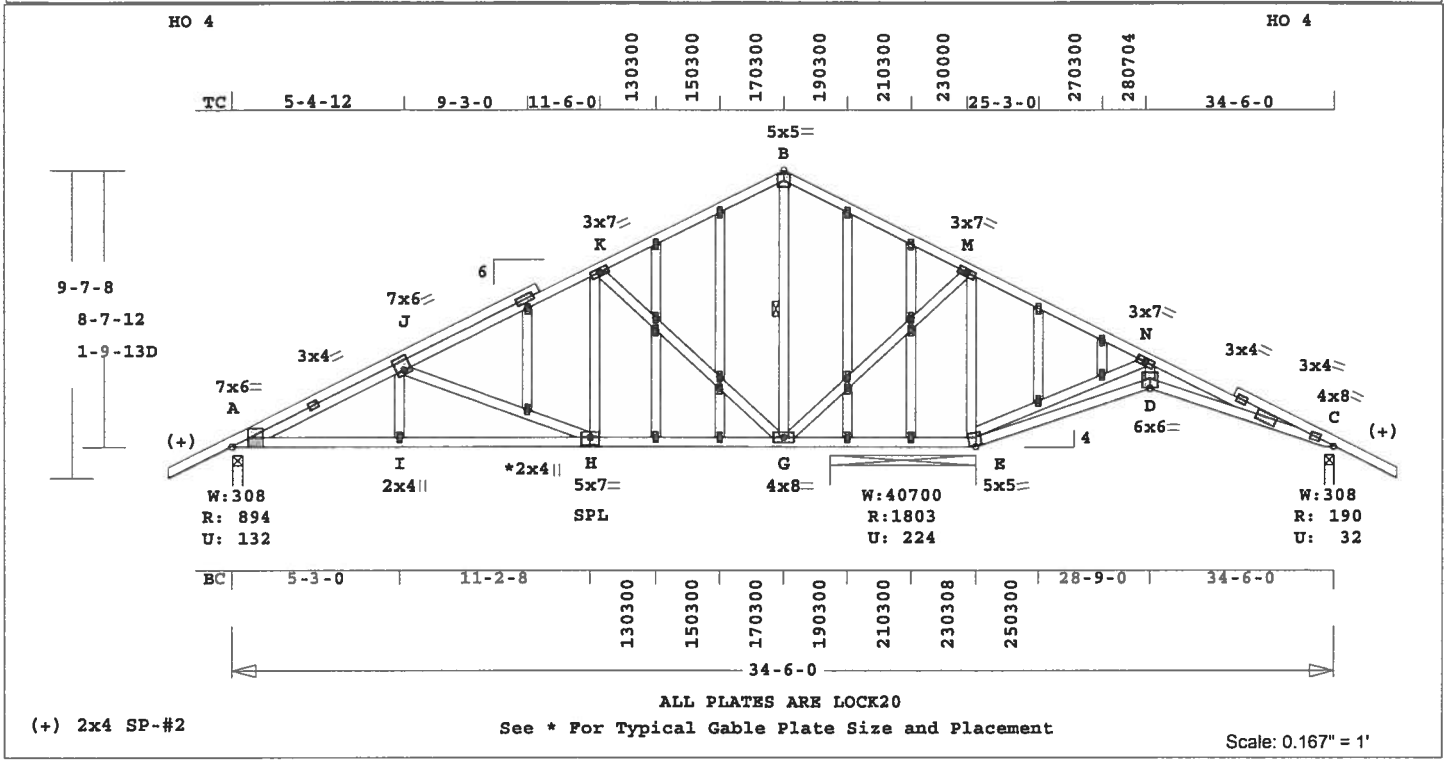
6. PREVENT TRUSS ROTATION AT ALL BEARING LOCATIONS.
7. ANCHOR TRUSS FOR A TOTAL HORIZONTAL LOAD OF 190 LBS.
8. FASTEN TRUSS TO BRG A FOR 500 LBS OF UPLIFT, WHILE PERMITTING NO UPWARD MOVEMENT OF WALL OR BRG.
9. FASTEN TRUSS TO BRG E FOR 525 LBS OF UPLIFT, WHILE PERMITTING NO UPWARD MOVEMENT OF WALL OR BRG.
10. 2 COMPLETE TRUSSES REQUIRED. FASTEN TRUSSES TOGETHER W/ 10d NAILS AS EACH LAYER IS APPLIED, STAGGERED AS FOLLOWS

MEMBER	ROWS	SPACING(IN)
TOP CHD	1	12.0
BTM CHD	2	12.0
WEBS	1	4.0

PLUS CLUSTERS OF NAILS IF SHOWN.

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	A4	1	SP	340600	6	0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 325.4 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.44	2x 4	SP-#2
BC	0.33	2x 4	SP-#2
WB	0.55	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	34- 6- 0
BC Cont.	0- 0- 0	34- 6- 0

WB 1 rows CLB on G -B
Attach CLB with (2)-10d nails at each web.

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0

Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	894	133	3- 8	1- 1
			Hz =	-174
Cont. Brg	18- 8- 8 to 23- 3- 8			
	1803	224	Hz =	0
C	191	33	3- 8	1- 0
			Hz =	175

Membr	CSI	P Lbs	Axl	CSI	Bnd
----------Top Chords----------					
A -J	0.17	1229	C	0.00	0.17
J -U	0.04	422	C	0.00	0.04
J -U	0.04	422	C	0.00	0.04
U -K	0.19	698	C	0.00	0.19
K -B	0.26	178	C	0.00	0.26
B -M	0.34	181	C	0.00	0.34
M -N	0.44	566	T	0.10	0.34
N -C	0.29	162	T	0.03	0.26
--------Bottom Chords---------					
A -I	0.28	1107	T	0.18	0.10
I -H	0.33	1107	T	0.11	0.22
H -G	0.28	677	T	0.06	0.22
G -HH	0.31	485	C	0.00	0.31
HH-E	0.31	485	C	0.00	0.31
E -D	0.32	133	C	0.00	0.32
D -C	0.20	107	C	0.00	0.20
----------Webs----------					
I -J	0.03	223	T		
J -H	0.24	469	C		
H -K	0.06	407	T		
K -G	0.55	706	C		
G -B	0.04	182	C		1 Br
G -M	0.16	870	T		
E -M	0.47	1281	C		
E -N	0.19	419	C		
D -N	0.02	145	T		

LL Defl -0.04" in D -D L/999
TL Defl -0.08" in D -D L/999
Shear // Grain in N -D 0.22

Hz Disp	LL	DL	TL
Jt C	0.02"	0.02"	0.04"

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	7.0x 6.0	5.4	1.6	0.95
J	LOCK	7.0x 6.0-0.8	1.6	0.52	
U	LOCK	3.0x 7.0	Ctr	Ctr	0.84
K	LOCK	3.0x 7.0	Ctr	Ctr	0.42
B	LOCK	5.0x 5.0	Ctr	Ctr	0.66
M	LOCK	3.0x 7.0	Ctr	Ctr	0.48
N	LOCK	3.0x 7.0	Ctr	Ctr	0.40
C	LOCK	4.0x 8.0	Ctr-0.3		0.96
I	LOCK	2.0x 4.0	Ctr	Ctr	0.44
H	LOCK	5.0x 7.0	Ctr-0.5		0.73
G	LOCK	4.0x 8.0	Ctr	Ctr	0.42
E	LOCK	5.0x 5.0-0.5	2.9		1.00
D	LOCK	6.0x 6.0	Ctr-0.7		0.63

11 Gable studs to be attached with 2.0x4.0 plates each end.

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

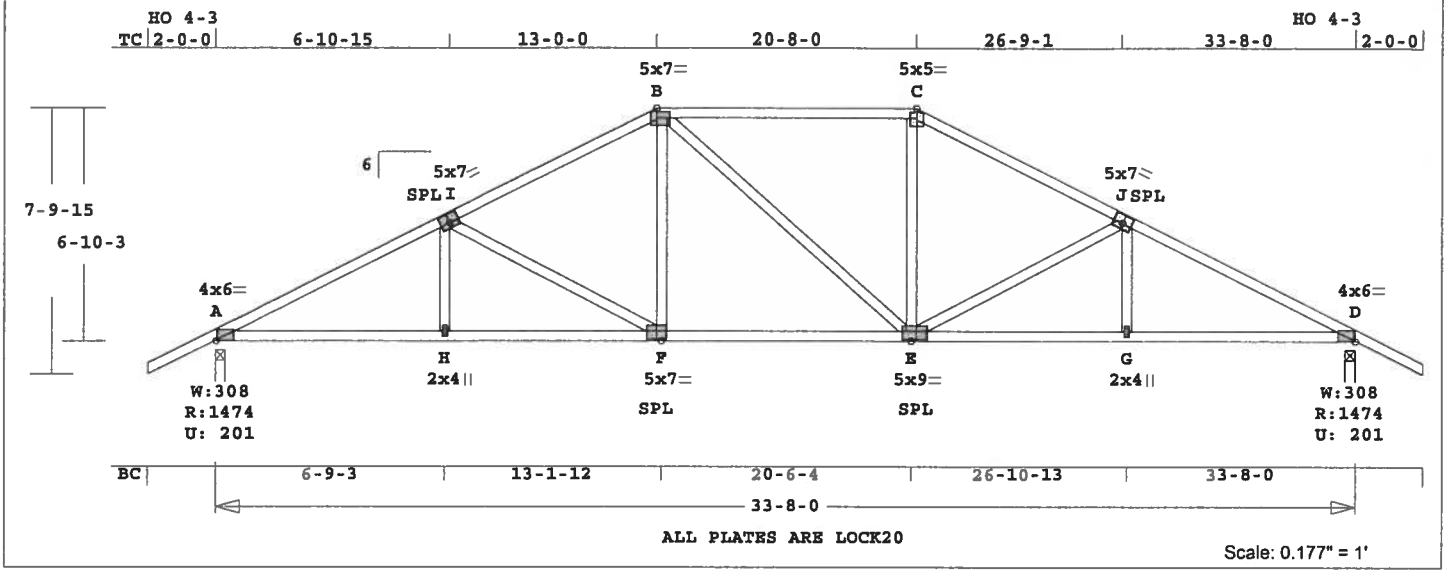
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1281 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B1	1	HIPP	330800	6	2- 0- 0	2- 0- 0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 221.5 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.63	2x 4	SP-#2
BC	0.51	2x 4	SP-#2
WB	0.35	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	33- 8- 0
BC Cont.	0- 0- 0	33- 8- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	1475	202	3- 8	1-12
			Hz =	-135
D	1475	202	3- 8	1-12
			Hz =	136

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -I	0.41	2386	C	0.09	0.32
I -B	0.37	1845	C	0.01	0.36
B -C	0.63	1651	C	0.04	0.59
C -J	0.35	1845	C	0.01	0.34
J -D	0.40	2387	C	0.09	0.31
Bottom Chords					
A -H	0.47	2136	T	0.35	0.12
H -F	0.49	2136	T	0.35	0.14
F -E	0.43	1645	T	0.27	0.16
E -G	0.51	2137	T	0.35	0.16
G -D	0.47	2137	T	0.35	0.12

Webs

H -I	0.03	253	T
I -F	0.35	550	C
F -B	0.07	470	T
B -E	0.12	105	T
E -C	0.07	469	T
E -J	0.35	551	C
G -J	0.03	251	T

LL Defl -0.11" in F -E L/999
TL Defl -0.26" in F -E L/999
Shear // Grain in B -C 0.28

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 6.0	Ctr	0.1	0.67
I	LOCK	5.0x 7.0	-0.2	0.5	0.71
B	LOCK	5.0x 7.0	-0.5	-0.1	0.92
C	LOCK	5.0x 5.0	Ctr	-0.2	0.97
J	LOCK	5.0x 7.0	0.2	0.5	0.71
D	LOCK	4.0x 6.0	Ctr	0.1	0.67
H	LOCK	2.0x 4.0	Ctr	Ctr	0.44
F	LOCK	5.0x 7.0	Ctr	-0.5	0.73
E	LOCK	5.0x 9.0	-0.5	-0.5	0.73
G	LOCK	2.0x 4.0	Ctr	Ctr	0.44

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

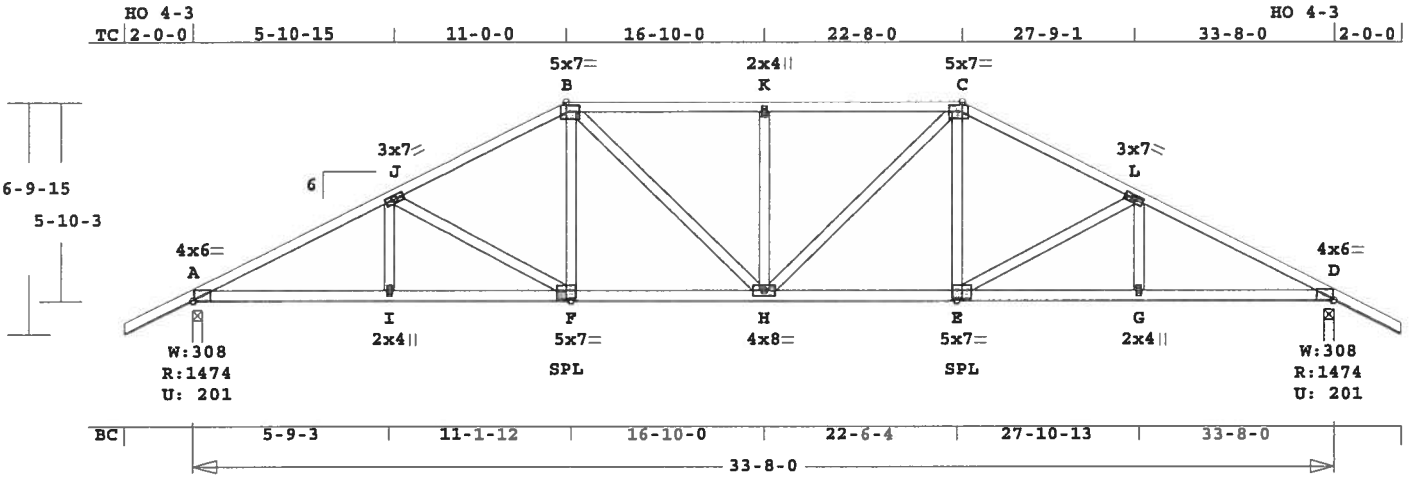
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 2387 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B2	1	HIPP	330800	6	2- 0- 0	2- 0- 0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 231.3 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.38	2x 4	SP-#2
BC	0.45	2x 4	SP-#2
WB	0.20	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	33- 8- 0
BC Cont.	0- 0- 0	33- 8- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size In-Sx	Req'd In-Sx
A	1475	202	3- 8	1-12
			Hz = -113	
D	1475	202	3- 8	1-12
			Hz = 114	

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -J	0.25	2436	C	0.06	0.19
J -B	0.25	2003	C	0.02	0.23
B -K	0.38	2048	C	0.02	0.36
K -C	0.38	2048	C	0.02	0.36
C -L	0.25	2003	C	0.02	0.23
L -D	0.25	2436	C	0.06	0.19
Bottom Chords					
A -I	0.43	2178	T	0.36	0.07
I -F	0.45	2178	T	0.36	0.09
F -H	0.39	1787	T	0.30	0.09
H -E	0.39	1787	T	0.30	0.09
E -G	0.45	2178	T	0.36	0.09
G -D	0.43	2178	T	0.36	0.07
Webs					
I -J	0.03	207	T		
J -F	0.20	437	C		
F -B	0.06	377	T		
B -H	0.06	362	T		
H -K	0.15	390	C		
H -C	0.06	362	T		
E -C	0.06	377	T		
E -L	0.20	437	C		
G -L	0.03	207	T		

LL Defl -0.12" in H -E L/999
TL Defl -0.25" in H -E L/999
Shear // Grain in B -K 0.25

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 6.0	Ctr	0.1	0.67
J	LOCK	3.0x 7.0	Ctr	Ctr	0.40
B	LOCK	5.0x 7.0	-0.5	-0.1	0.92
K	LOCK	2.0x 4.0	Ctr	Ctr	0.44
C	LOCK	5.0x 7.0	0.5	-0.1	0.92
L	LOCK	3.0x 7.0	Ctr	Ctr	0.40
D	LOCK	4.0x 6.0	Ctr	0.1	0.67
I	LOCK	2.0x 4.0	Ctr	Ctr	0.44
F	LOCK	5.0x 7.0	Ctr	-0.5	0.73
H	LOCK	4.0x 8.0	Ctr	Ctr	0.42
E	LOCK	5.0x 7.0	Ctr	-0.5	0.73
G	LOCK	2.0x 4.0	Ctr	Ctr	0.44

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

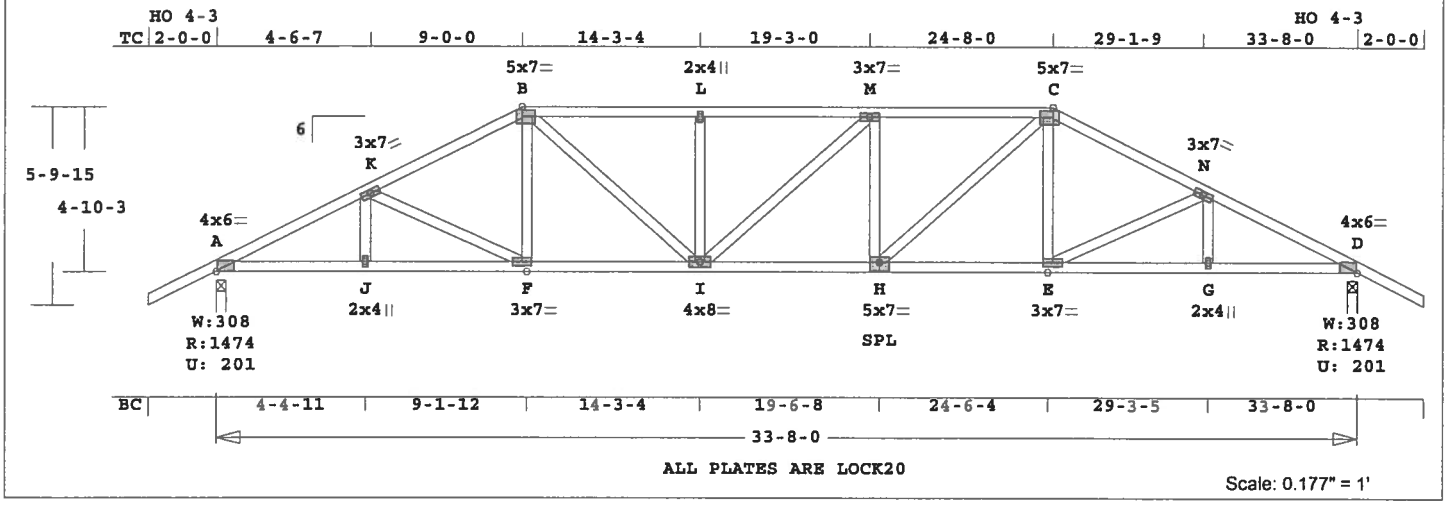
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 2436 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B3	1	HIPP	330800	6	2- 0- 0	2- 0- 0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 235.0 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.28	2x 4	SP-#2
BC	0.47	2x 4	SP-#2
WB	0.11	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	33- 8- 0
BC	Cont.	0- 0- 0	33- 8- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	1475	202	3- 8	1-12
			Hz =	-92
D	1475	202	3- 8	1-12
			Hz =	93

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
A -K	0.19	2491	C	0.04 0.15
K -B	0.22	2168	C	0.02 0.20
B -L	0.27	2422	C	0.04 0.23
L -M	0.28	2422	C	0.04 0.24
M -C	0.28	2422	C	0.04 0.24
C -N	0.22	2168	C	0.02 0.20
N -D	0.19	2491	C	0.04 0.15
Bottom Chords				
A -J	0.47	2221	T	0.37 0.10
J -F	0.46	2221	T	0.37 0.09
F -I	0.40	1940	T	0.32 0.08
I -H	0.46	2422	T	0.40 0.06
H -E	0.40	1940	T	0.32 0.08
E -G	0.46	2221	T	0.37 0.09
G -D	0.47	2221	T	0.37 0.10
Webs				
J -K	0.02	147	T	
K -F	0.10	303	C	
F -B	0.04	304	T	
B -I	0.11	639	T	
I -L	0.08	320	C	
I -M	0.02	46	C	
H -M	0.08	320	C	
H -C	0.11	640	T	
E -C	0.04	303	T	
E -N	0.10	304	C	
G -N	0.02	147	T	

LL Defl -0.14" in I -H L/999
TL Defl -0.30" in I -H L/999
Shear // Grain in B -L 0.21

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

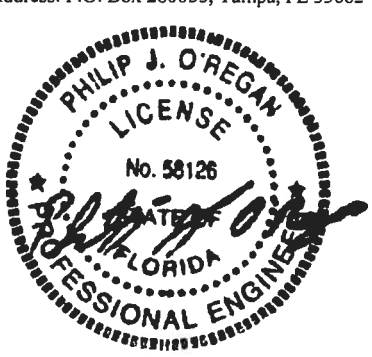
Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 6.0	Ctr	0.1	0.67
K	LOCK	3.0x 7.0	Ctr	Ctr	0.40
B	LOCK	5.0x 7.0	-0.5	-0.1	0.92
L	LOCK	2.0x 4.0	Ctr	Ctr	0.44
M	LOCK	3.0x 7.0	Ctr	Ctr	0.44
C	LOCK	5.0x 7.0	0.5	-0.1	0.92
N	LOCK	3.0x 7.0	Ctr	Ctr	0.40
D	LOCK	4.0x 6.0	Ctr	0.1	0.67
J	LOCK	2.0x 4.0	Ctr	Ctr	0.44
F	LOCK	3.0x 7.0	Ctr	Ctr	0.45
I	LOCK	4.0x 8.0	Ctr	Ctr	0.42
H	LOCK	5.0x 7.0	Ctr	-0.5	0.73
E	LOCK	3.0x 7.0	Ctr	Ctr	0.45
G	LOCK	2.0x 4.0	Ctr	Ctr	0.44

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 2491 Lbs
Quality Control Factor 1.25

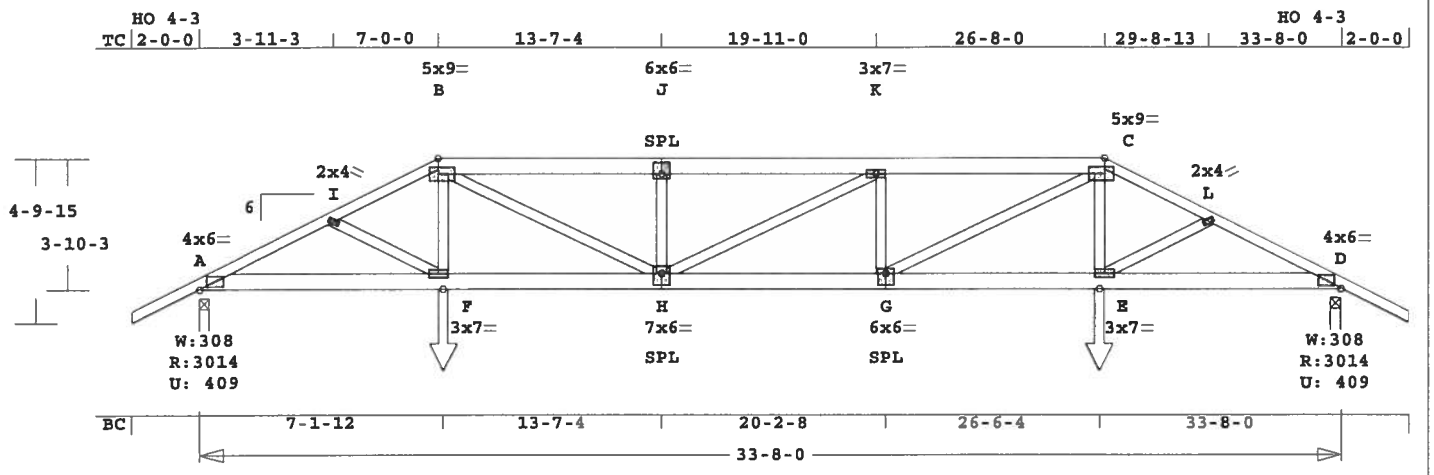
Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B4	1*2P	HIPP	330800	6	2- 0- 0	2- 0- 0	T06010966

U# J#KH-KEEN KEEN MODEL



ALL PLATES ARE LOCK20

Scale: 0.177" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 263.9 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06
****
* 2-Ply Truss *
****

	CSI	-Size-	----Lumber----
TC	0.34	2x 4	SP-#2
EX B -J		2x 6	SP-#2
EX J -C		2x 6	SP-#2
BC	0.58	2x 6	SP-#2
WB	0.25	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC Cont.		0- 0- 0	33- 8- 0
BC Cont.		0- 0- 0	33- 8- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.00 Fc=1.00 Ft=1.00
BC Fb=1.00 Fc=1.00 Ft=1.00

Load Case # 1 Girder Loading
Lumber Duration Factor 1.25
Plate Duration Factor 1.25

plf -	Live	Dead	From	To
TC V	40	20	0.0'	33.7'
BC V	0	20	0.0'	33.7'
TC V	50	25	7.0'	26.7'
BC V	0	25	7.1'	26.5'
BC V	280	280	7.1'	CL-LB
BC V	280	280	26.5'	CL-LB

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	3014	409	3- 8	1-12
			Hz =	-70
D	3014	409	3- 8	1-12
			Hz =	71

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -I	0.20	5870 C	0.07	0.13
I -B	0.34	5795 C	0.06	0.28
B -J	0.34	7722 C	0.06	0.28
J -K	0.27	7722 C	0.05	0.22
K -C	0.33	7727 C	0.06	0.27
C -L	0.34	5794 C	0.06	0.28
L -D	0.20	5870 C	0.07	0.13
--------Bottom Chords---------				
A -F	0.41	5224 T	0.34	0.07
F -H	0.44	5205 T	0.34	0.10
H -G	0.58	7727 T	0.51	0.07
G -E	0.44	5205 T	0.34	0.10
E -D	0.41	5224 T	0.34	0.07
------------Webs------------				
I -F	0.00	85 T		
F -B	0.07	805 T		
B -H	0.25	2808 T		
H -J	0.04	939 C		
H -K	0.00	42 C		
G -K	0.04	940 C		
G -C	0.25	2814 T		
E -C	0.06	805 T		
E -L	0.00	85 T		

LL Defl -0.18" in H -G L/999
TL Defl -0.37" in H -G L/999
Shear // Grain in K -C 0.21

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 6.0	Ctr	Ctr	0.70
I	LOCK	2.0x 4.0	Ctr	Ctr	0.44
B	LOCK	5.0x 9.0	-0.5 Ctr		0.98
J	LOCK	6.0x 6.0	Ctr	1.2	0.58
K	LOCK	3.0x 7.0	Ctr	Ctr	0.44
C	LOCK	5.0x 9.0	0.5 Ctr		0.98
L	LOCK	2.0x 4.0	Ctr	Ctr	0.44
D	LOCK	4.0x 6.0	Ctr	Ctr	0.70
F	LOCK	3.0x 7.0	Ctr	Ctr	0.43
H	LOCK	7.0x 6.0	Ctr	-0.8	0.88
G	LOCK	6.0x 6.0	Ctr	-1.2	0.67
E	LOCK	3.0x 7.0	Ctr	Ctr	0.43

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Girder Step Down Hip
Framing King Jacks
Jack Open Faced
Setback 7- 0- 0
2 COMPLETE TRUSSES REQUIRED.
Fasten together in staggered pattern. (1/2" bolts -OR- SDS3 screws -OR- 10d nails as each layer is applied.)

	Rows	Nails	Screws	Bolts
		----Spacing (In)----		
TC	1	12	24	0
BC	2	12	24	0
WB	1	4	4	

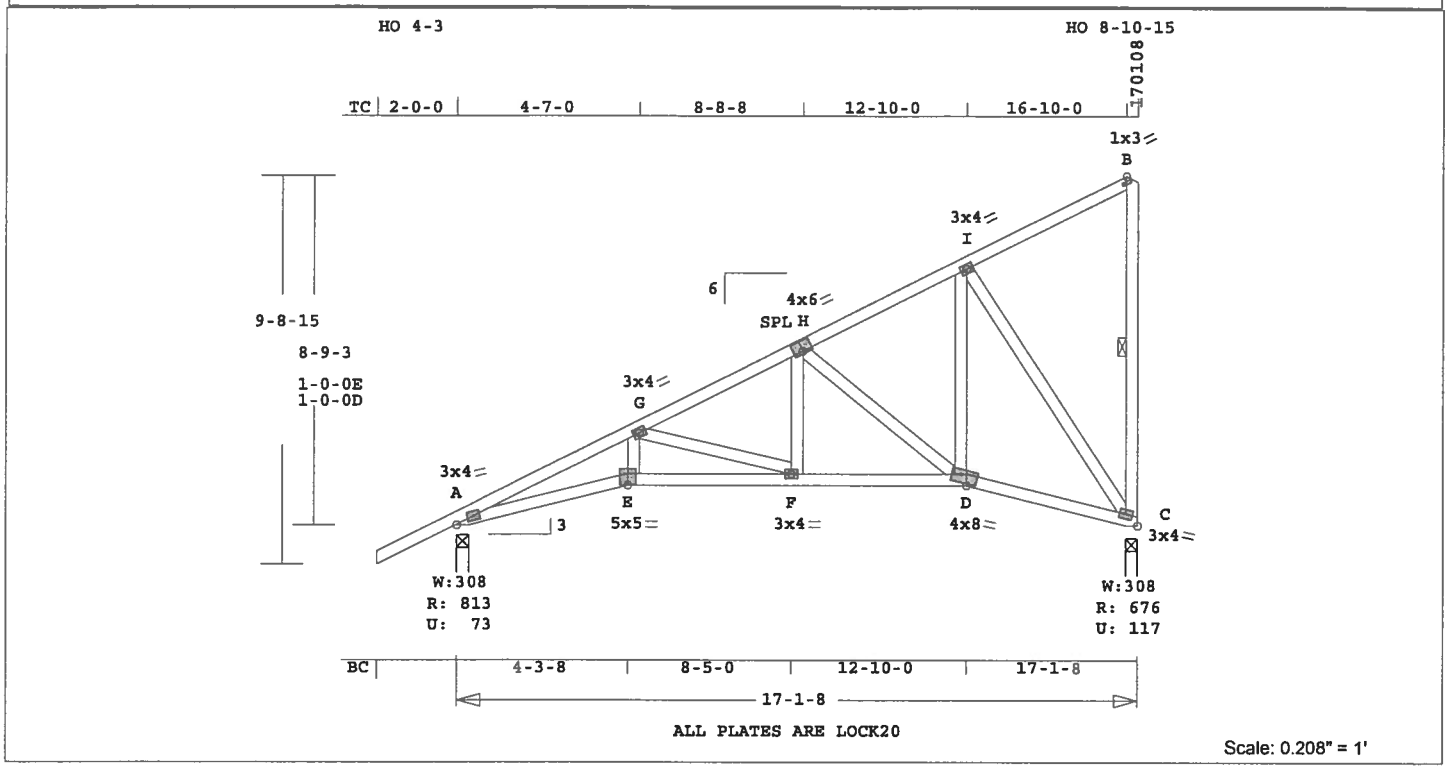
Plus clusters of nails where shown.
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Prevent truss rotation at all bearing locations.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 7727 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B5	8	SP	170108	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 137.3 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.19	2x 4	SP-#2
BC	0.39	2x 4	SP-#2
WB	0.54	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	17- 1- 8
BC Cont.	0- 0- 0	17- 1- 8

WB 1 rows CLB on C -B
Attach CLB with (2)-10d nails at each web.

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	813	74	3- 8	1- 0
			Hz = -218	
C	676	118	3- 8	1- 0
			Hz = 392	

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -G	0.14	1959 C	0.03	0.11
G -H	0.15	976 C	0.00	0.15
H -I	0.19	477 C	0.00	0.19
I -B	0.19	136 C	0.00	0.19
--------Bottom Chords---------				
A -E	0.39	1793 T	0.30	0.09
E -F	0.34	1746 T	0.29	0.05
F -D	0.28	880 T	0.14	0.14
D -C	0.18	428 T	0.07	0.11
------------Webs------------				
E -G	0.09	494 T		
G -F	0.21	905 C		
F -H	0.05	345 T		
H -D	0.19	573 C		
D -I	0.10	556 T		
I -C	0.54	751 C		
C -B	0.25	103 C	WindLd 1 Br	

LL Defl -0.06" in E -F L/999
TL Defl -0.12" in E -F L/999
Shear // Grain in I -B 0.17

Hz Disp	LL	DL	TL
Jt C	0.04"	0.04"	0.08"

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.85
G	LOCK	3.0x 4.0	Ctr	Ctr	0.54
H	LOCK	4.0x 6.0	-0.5	0.9	0.53
I	LOCK	3.0x 4.0	Ctr	Ctr	0.54
B	LOCK	1.0x 3.0	Ctr	Ctr	0.75
E	LOCK	5.0x 5.0	Ctr	-1.0	0.48
F	LOCK	3.0x 4.0	Ctr	Ctr	0.66
D	LOCK	4.0x 8.0	-0.7	-0.7	0.55
C	LOCK	3.0x 4.0	Ctr	Ctr	0.64

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR

ADDITIONAL SPECIFICATIONS.

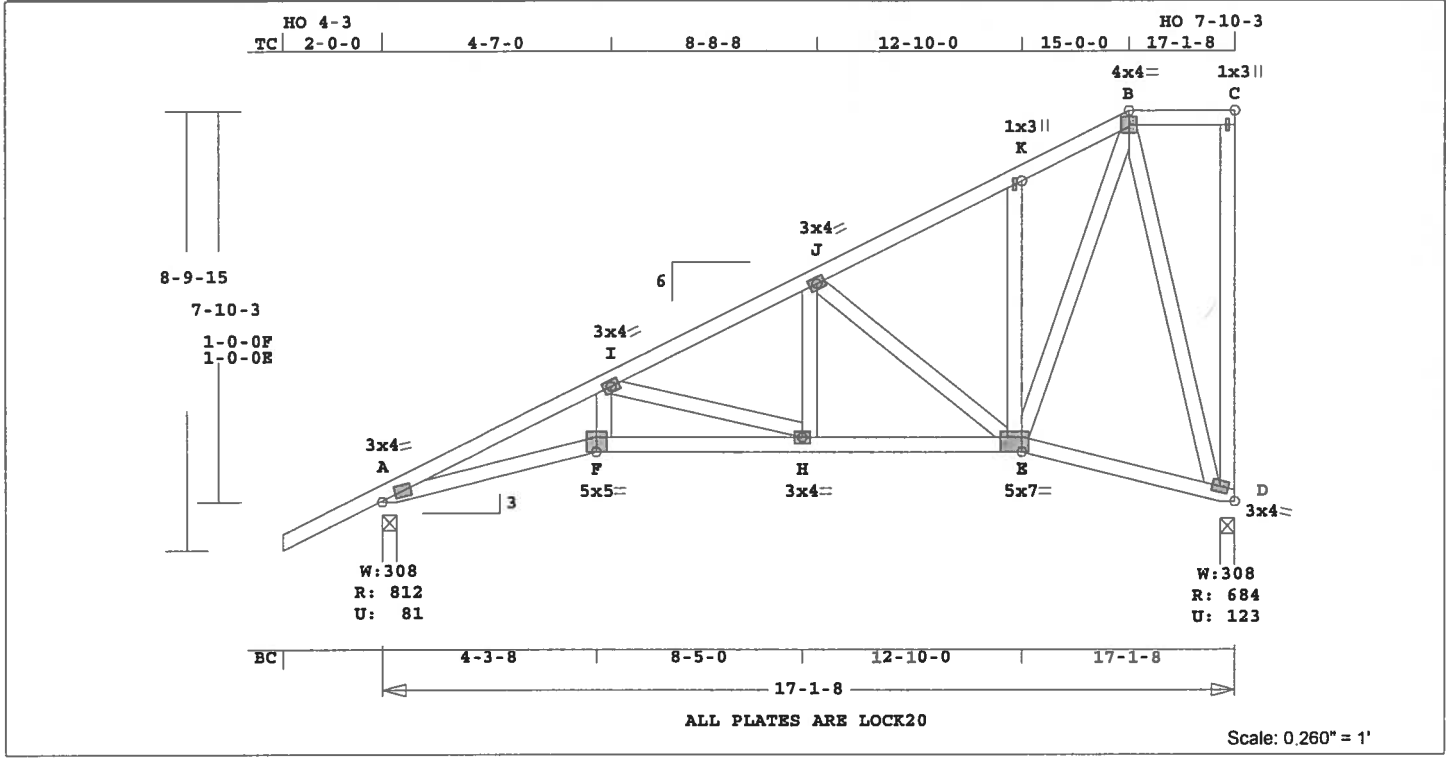
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Provide connection to bearing for 391 Lbs Horiz Reaction
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1959 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B6	1	SP	170108	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 147.9 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.19	2x 4	SP-#2
BC	0.38	2x 4	SP-#2
WB	0.45	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	17- 1- 8
BC Cont.	0- 0- 0	17- 1- 8

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	813	82	3- 8	1- 0
			Hz =	-194
D	685	123	3- 8	1- 0
			Hz =	350

Membr	CSI	P Lbs	Axl	CSI-Bnd
----------Top Chords----------				
A -I	0.14	1957 C	0.03	0.11
I -J	0.19	978 C	0.00	0.19
J -K	0.19	464 C	0.00	0.19
K -B	0.11	451 C	0.00	0.11
B -C	0.09	94 C	0.00	0.09
--------Bottom Chords--------				
A -F	0.38	1791 T	0.30	0.08
F -H	0.34	1744 T	0.29	0.05
H -E	0.32	884 T	0.14	0.18
E -D	0.16	246 T	0.01	0.15
----------Webs----------				
F -I	0.09	496 T		
I -H	0.21	899 C		
H -J	0.05	342 T		
J -E	0.20	596 C		
E -K	0.05	160 C		
E -B	0.13	704 T		
B -D	0.45	597 C		
D -C	0.18	90 C	WindLd	

LL Defl -0.06" in F -H L/999
TL Defl -0.13" in F -H L/999
Shear // Grain in I -J 0.16

Hz Disp	LL	DL	TL
Jt D	0.04"	0.04"	0.08"

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.85
I	LOCK	3.0x 4.0	Ctr	Ctr	0.54
J	LOCK	3.0x 4.0	Ctr	Ctr	0.54
K	LOCK	1.0x 3.0	Ctr	Ctr	0.75
B	LOCK	4.0x 4.0	Ctr	Ctr	0.80
C	LOCK	1.0x 3.0	Ctr	Ctr	0.81
F	LOCK	5.0x 5.0	Ctr	-1.0	0.48
H	LOCK	3.0x 4.0	Ctr	Ctr	0.66
E	LOCK	5.0x 7.0	Ctr	-1.0	0.55
D	LOCK	3.0x 4.0	Ctr	Ctr	0.64

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

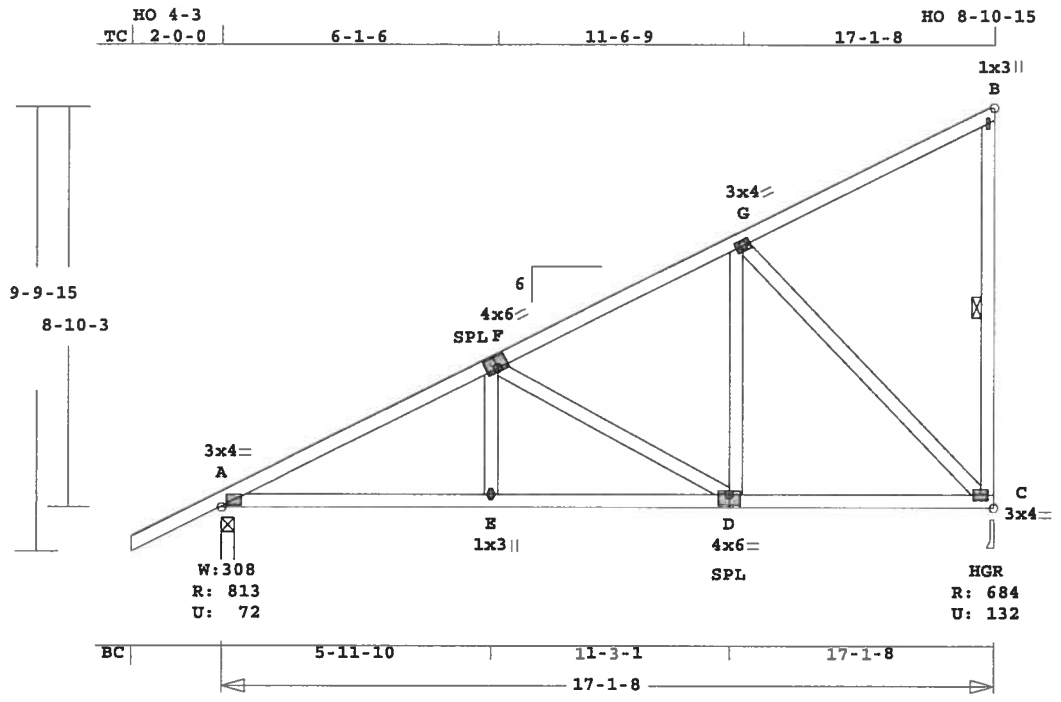
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Provide connection to bearing for 350 Lbs Horiz Reaction
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1957 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B7	1	MONO	170108	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 129.7 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.33	2x 4	SP-#2
BC	0.28	2x 4	SP-#2
WB	0.54	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC Cont.		0- 0- 0	17- 1- 8
BC Cont.		0- 0- 0	17- 1- 8

WB 1 rows CLB on C -B
Attach CLB with (2)-10d nails at each web.

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	813	72	3- 8	1- 0
			Hz =	-220
C	685	133	3- 8	1- 0
			Hz =	396

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -F	0.27	1018	C 0.00	0.27
F -G	0.33	533	C 0.00	0.33
G -B	0.33	149	C 0.00	0.33
--------Bottom Chords---------				
A -E	0.28	916	T 0.15	0.13
E -D	0.28	916	T 0.09	0.19
D -C	0.24	479	T 0.05	0.19
------------Webs------------				
E -F	0.03	226	T	
F -D	0.23	500	C	
D -G	0.06	428	T	
G -C	0.54	688	C	
C -B	0.24	142	C WindLd 1 Br	

LL Defl -0.03" in D -C L/999
TL Defl -0.07" in D -C L/999
Shear // Grain in G -B 0.23

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.72
F	LOCK	4.0x 6.0	-0.5	0.9	0.53
G	LOCK	3.0x 4.0	Ctr	Ctr	0.54
B	LOCK	1.0x 3.0	Ctr	Ctr	0.75
E	LOCK	1.0x 3.0	Ctr	Ctr	0.81
D	LOCK	4.0x 6.0	Ctr	-1.0	0.53
C	LOCK	3.0x 4.0	Ctr	Ctr	0.64

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

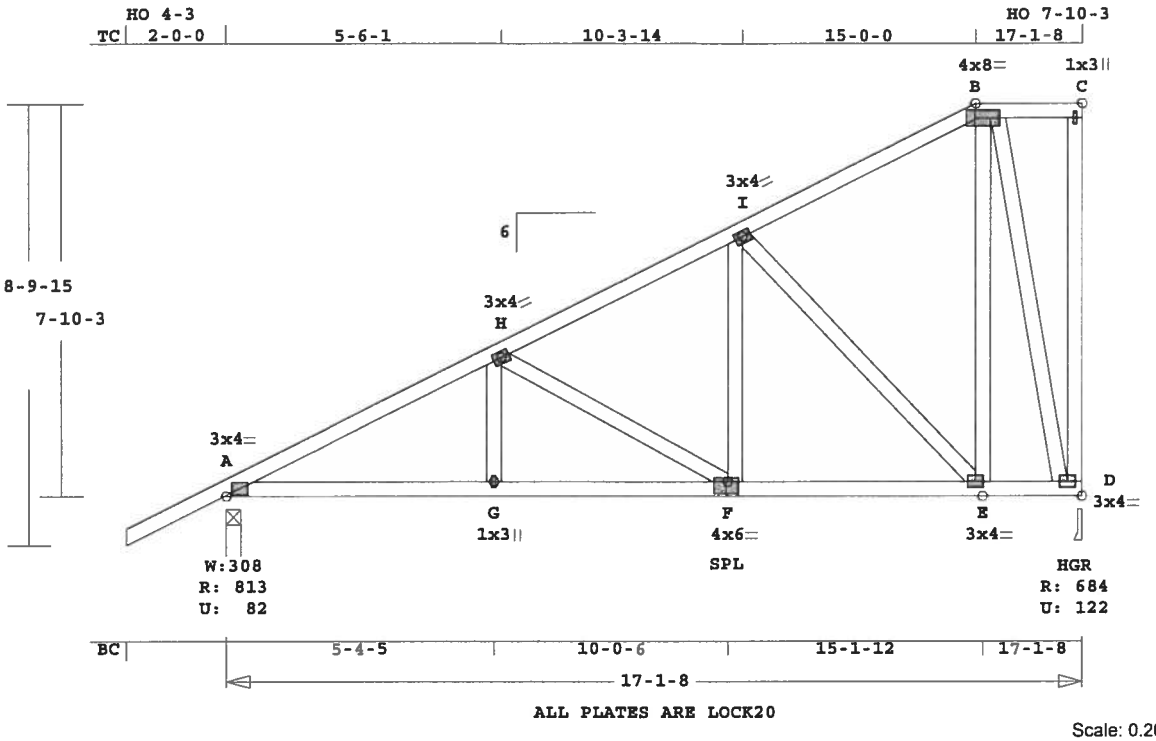
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Provide connection to bearing for 395 Lbs Horiz Reaction
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1018 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B8	1	HHIP	170108	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 150.5 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.23	2x 4	SP-#2
BC	0.24	2x 4	SP-#2
WB	0.48	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC Cont.		0- 0- 0	17- 1- 8
BC Cont.		0- 0- 0	17- 1- 8

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	813	82	3- 8	1- 0
			Hz =	-194
D	685	123	3- 8	1- 0
			Hz =	350

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -H	0.21	1055 C	0.00	0.21	
H -I	0.23	630 C	0.00	0.23	
I -B	0.23	183 C	0.00	0.23	
B -C	0.04	94 C	0.00	0.04	
Bottom Chords					
A -G	0.24	948 T	0.15	0.09	
G -F	0.22	948 T	0.15	0.07	
F -E	0.18	565 T	0.05	0.13	
E -D	0.09	228 T	0.01	0.08	
Webs					
G -H	0.03	202 T			
H -F	0.16	439 C			
F -I	0.05	365 T			
I -E	0.36	590 C			
E -B	0.09	500 T			
B -D	0.48	650 C			
D -C	0.17	40 C	WindLd		

LL Defl -0.02" in A -G L/999
TL Defl -0.05" in A -G L/999
Shear // Grain in I -B 0.19

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.72
H	LOCK	3.0x 4.0	Ctr	Ctr	0.54
I	LOCK	3.0x 4.0	Ctr	Ctr	0.54
B	LOCK	4.0x 8.0	Ctr	Ctr	0.80
C	LOCK	1.0x 3.0	Ctr	Ctr	0.81
G	LOCK	1.0x 3.0	Ctr	Ctr	0.81
F	LOCK	4.0x 6.0	Ctr	-1.0	0.53
E	LOCK	3.0x 4.0	Ctr	Ctr	0.48
D	LOCK	3.0x 4.0	Ctr	Ctr	0.64

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:

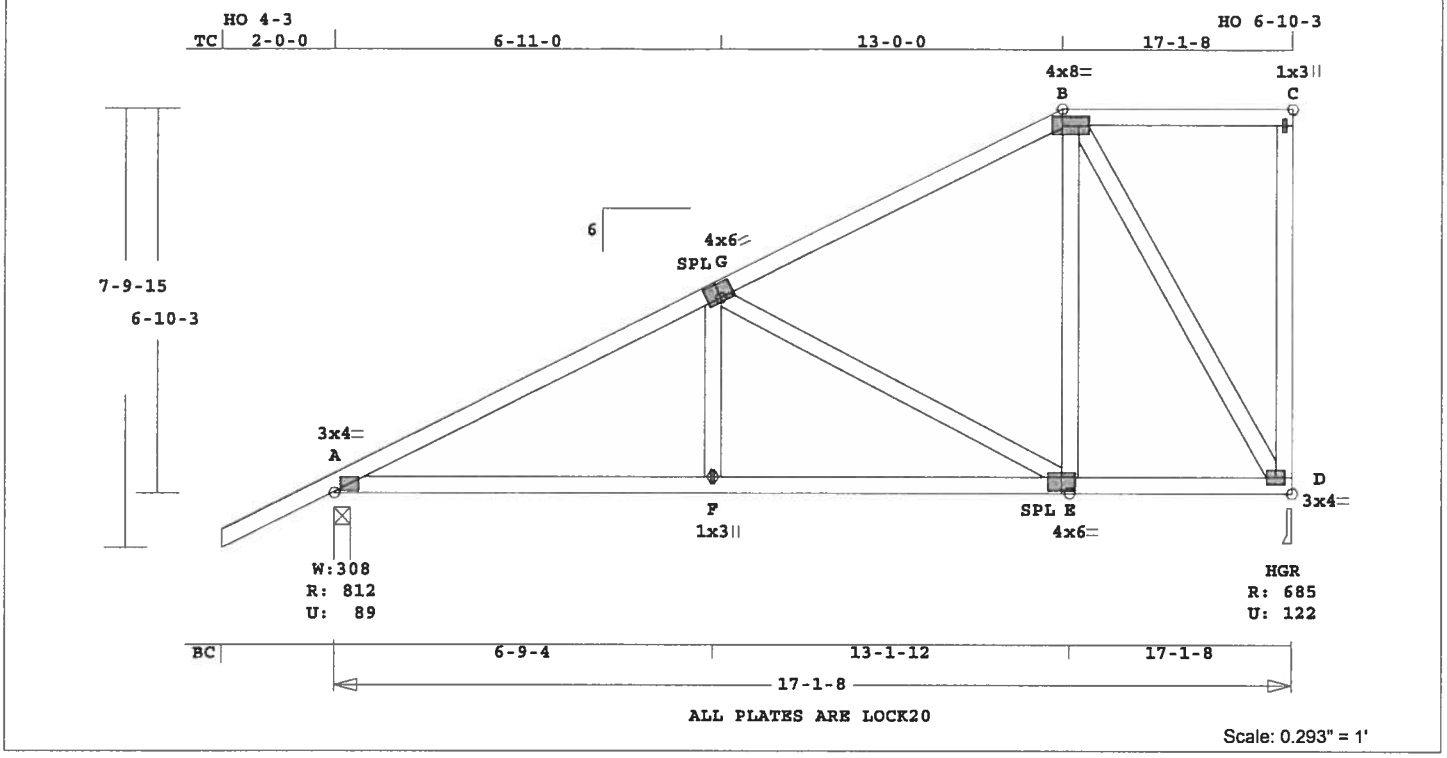
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Provide connection to bearing for 349 Lbs Horiz Reaction
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1055 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B9	1	HHIP	170108	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 128.4 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.43	2x 4	SP-#2
BC	0.34	2x 4	SP-#2
WB	0.44	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC Cont.		0- 0- 0	17- 1- 8
BC Cont.		0- 0- 0	17- 1- 8

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	Req'd In-Sx
A	813	90	3- 8	1- 0
			Hz =	-167
D	685	123	3- 8	1- 0
			Hz =	303

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -G	0.43	980 C	0.00		0.43
G -B	0.43	377 C	0.00		0.43
B -C	0.14	81 C	0.00		0.14
Bottom Chords					
A -F	0.34	886 T	0.09		0.25
F -E	0.34	886 T	0.09		0.25
E -D	0.18	320 T	0.03		0.15

Webs

F -G	0.04	282 T	
G -E	0.40	635 C	
E -B	0.07	442 T	
B -D	0.44	633 C	
D -C	0.13	108 C	WindLd

LL Defl -0.04" in A -F L/999
TL Defl -0.09" in A -F L/999
Shear // Grain in A -G 0.25

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.72
G	LOCK	4.0x 6.0	-0.5	0.9	0.53
B	LOCK	4.0x 8.0	Ctr	Ctr	0.80
C	LOCK	1.0x 3.0	Ctr	Ctr	0.81
F	LOCK	1.0x 3.0	Ctr	Ctr	0.81
E	LOCK	4.0x 6.0	Ctr	-1.0	0.53
D	LOCK	3.0x 4.0	Ctr	Ctr	0.64

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0

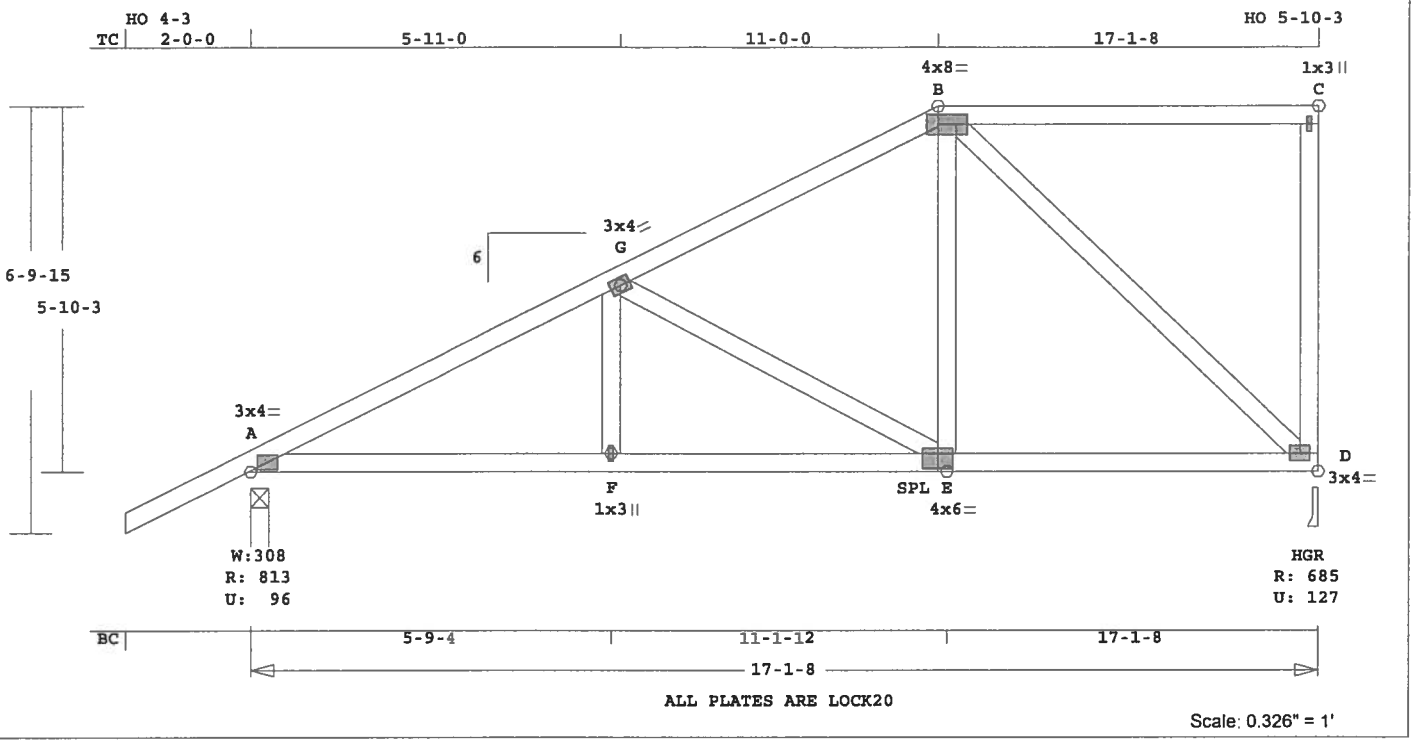
Provide connection to bearing for 303 Lbs Horiz Reaction
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 980 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B10	1	HHIP	170108	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 121.9 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.40	2x 4	SP-#2
BC	0.29	2x 4	SP-#2
WB	0.53	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	17- 1- 8
BC Cont.	0- 0- 0	17- 1- 8

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	Req'd In-Sx
A	813	96	3- 8	1- 0
			Hz =	-141
D	685	128	3- 8	1- 0
			Hz =	256

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -G	0.25	1030	C	0.00	0.25
G -B	0.25	557	C	0.00	0.25
B -C	0.40	68	C	0.00	0.40
Bottom Chords					
A -F	0.26	927	T	0.15	0.11
F -E	0.29	927	T	0.09	0.20
E -D	0.25	491	T	0.05	0.20
Webs					
F -G	0.03	218	T		
G -E	0.22	488	C		
E -B	0.06	421	T		
B -D	0.53	674	C		
D -C	0.10	172	C	WindLd	

LL Defl -0.04" in E -D L/999
TL Defl -0.08" in E -D L/999
Shear // Grain in B -C 0.22

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.72
G	LOCK	3.0x 4.0	Ctr	Ctr	0.54
B	LOCK	4.0x 8.0	Ctr	Ctr	0.80
C	LOCK	1.0x 3.0	Ctr	Ctr	0.81
F	LOCK	1.0x 3.0	Ctr	Ctr	0.81
E	LOCK	4.0x 6.0	Ctr	-1.0	0.53
D	LOCK	3.0x 4.0	Ctr	Ctr	0.64

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.

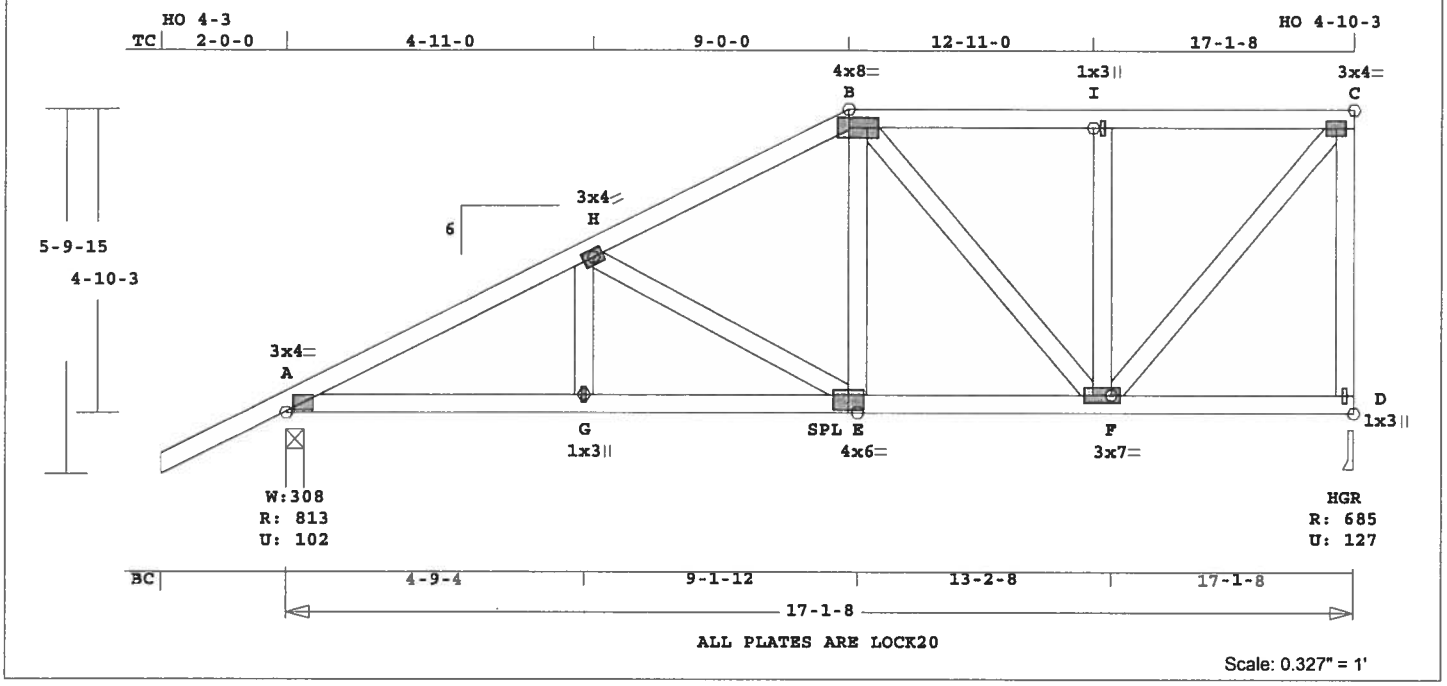
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1030 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B11	1	HHIP	170108	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 129.4 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.18	2x 4	SP-#2
BC	0.22	2x 4	SP-#2
WB	0.17	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	17- 1- 8
BC	Cont.	0- 0- 0	17- 1- 8

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	813	102	3- 8	1- 0
			Hz =	-115
D	685	128	3- 8	1- 0
			Hz =	208

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
A -H	0.15	1089 C	0.00	0.15
H -B	0.15	714 C	0.00	0.15
B -I	0.18	471 C	0.00	0.18
I -C	0.18	471 C	0.00	0.18
Bottom Chords				
A -G	0.22	977 T	0.16	0.06
G -E	0.20	977 T	0.16	0.04
E -F	0.15	630 T	0.10	0.05
F -D	0.09	149 T	0.00	0.09

Webs

G -H	0.02	182 T	
H -E	0.11	389 C	
E -B	0.05	300 T	
B -F	0.10	241 C	
F -I	0.07	281 C	
F -C	0.13	723 T	
D -C	0.17	649 C	WindLd

LL Defl -0.02" in G -E L/999
TL Defl -0.05" in G -E L/999
Shear // Grain in B -I 0.18

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.72
H	LOCK	3.0x 4.0	Ctr	Ctr	0.54
B	LOCK	4.0x 8.0	Ctr	Ctr	0.80
I	LOCK	1.0x 3.0	Ctr	Ctr	0.81
C	LOCK	3.0x 4.0	Ctr	Ctr	0.64
G	LOCK	1.0x 3.0	Ctr	Ctr	0.81
E	LOCK	4.0x 6.0	Ctr	-1.0	0.53
F	LOCK	3.0x 7.0	Ctr	Ctr	0.53
D	LOCK	1.0x 3.0	Ctr	Ctr	0.81

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004

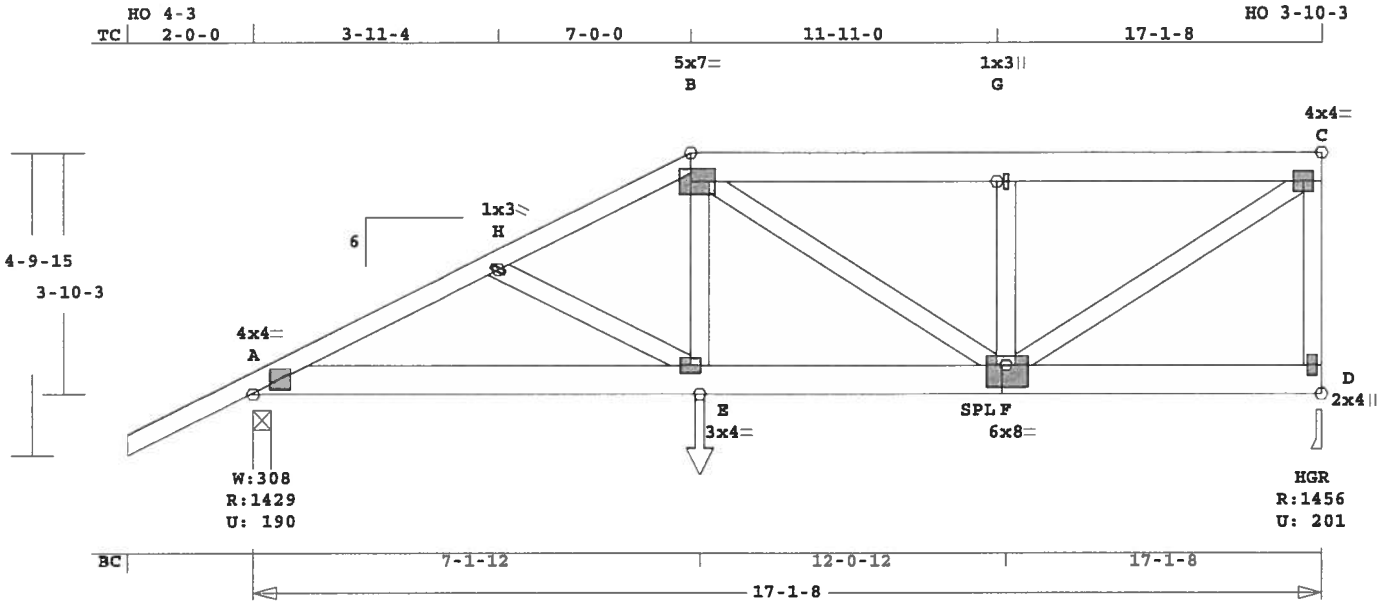
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1089 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	B12	1	HHIP	170108	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 140.5 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.47	2x 4	SP-#2
EX B -C		2x 6	SP-#2
BC	0.42	2x 6	SP-#2
WB	0.40	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC Cont.		0- 0- 0	17- 1- 8
BC Cont.		0- 0- 0	17- 1- 8

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.00 Fc=1.00 Ft=1.00
BC Fb=1.00 Fc=1.00 Ft=1.00

Load Case # 1 Girder Loading
Lumber Duration Factor 1.25
Plate Duration Factor 1.25

plf -	Live	Dead	From	To
TC V	40	20	0.0'	17.1'
BC V	0	20	0.0'	17.1'
TC V	50	25	7.0'	16.1'
TC V	-40	-20	16.1'	17.1'
BC V	0	25	7.1'	16.1'
BC V	0	-20	16.1'	17.1'
BC V	280	280	7.1'	CL-LB

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	1430	190	3- 8	1-11
			Hz =	-83
D	1457	202	3- 8	1-12
			Hz =	152

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -H	0.22	2415	C 0.05	0.17
H -B	0.47	2278	C 0.04	0.43
B -G	0.40	1818	C 0.01	0.39
G -C	0.40	1818	C 0.01	0.39
--------Bottom Chords---------				
A -E	0.42	2155	T 0.28	0.14
E -F	0.37	2043	T 0.27	0.10
F -D	0.18	108	T 0.00	0.18
------------Webs-------------				
H -E	0.01	97	C	
E -B	0.14	762	T	
B -F	0.11	268	C	
F -G	0.12	842	C	
F -C	0.40	2209	T	
D -C	0.20	1402	C WindLd	

LL Defl -0.05" in E -F L/999
TL Defl -0.11" in E -F L/999
Shear // Grain in B -G 0.36

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 4.0	Ctr	Ctr	0.81
H	LOCK	1.0x 3.0	Ctr	Ctr	0.75
B	LOCK	5.0x 7.0	-0.5	Ctr	0.88
G	LOCK	1.0x 3.0	Ctr	Ctr	0.81
C	LOCK	4.0x 4.0	Ctr	Ctr	0.99
E	LOCK	3.0x 4.0	Ctr	Ctr	0.60
F	LOCK	6.0x 8.0	1.0	-1.2	0.90
D	LOCK	2.0x 4.0	Ctr	Ctr	0.53

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

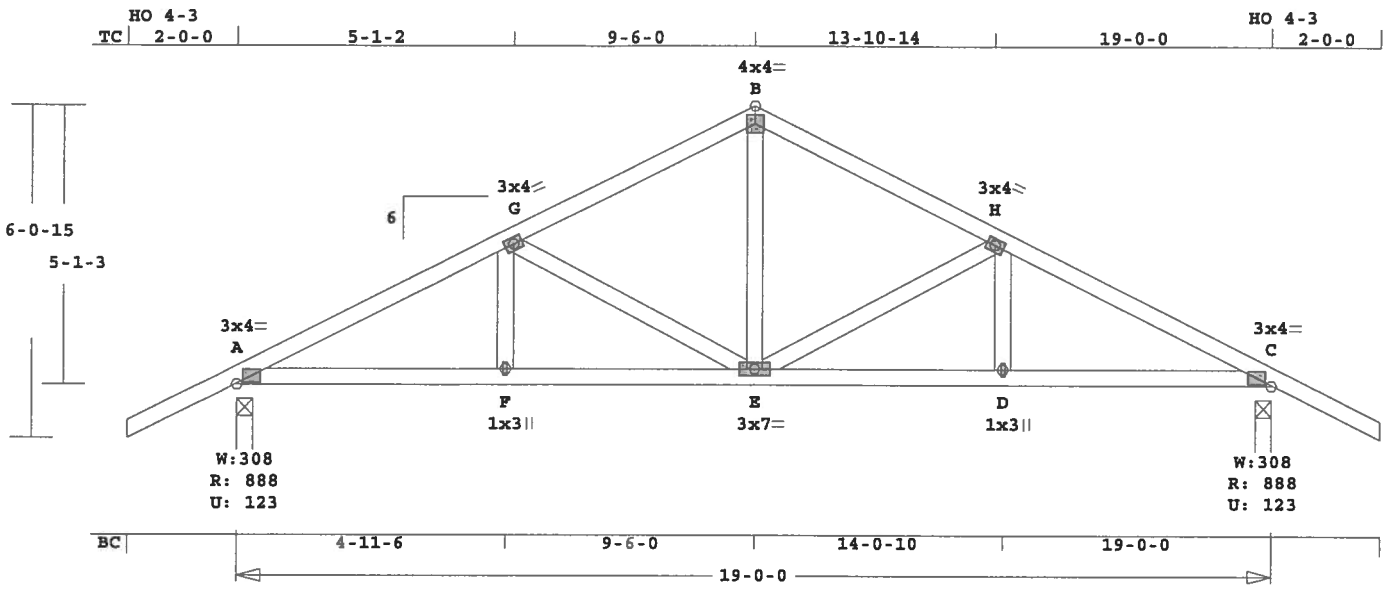
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Girder Half Hip
Framing King Jacks
Jack Open Faced
Setback 7- 0- 0
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 2415 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	C1	1	TR	190000	6	2- 0- 0	2- 0- 0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 120.3 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	Size	Lumber
TC	0.18	2x 4	SP-#2
BC	0.24	2x 4	SP-#2
WB	0.13	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	19- 0- 0
BC	Cont.	0- 0- 0	19- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	888	124	3- 8	1- 1
			Hz =	-85
C	888	124	3- 8	1- 1
			Hz =	86

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -G	0.18	1239	C	0.00	0.18
G -B	0.18	847	C	0.00	0.18
B -H	0.18	847	C	0.00	0.18
H -C	0.18	1239	C	0.00	0.18
Bottom Chords					
A -F	0.24	1112	T	0.18	0.06
F -E	0.24	1112	T	0.18	0.06
E -D	0.24	1112	T	0.18	0.06
D -C	0.24	1112	T	0.18	0.06
Webs					
F -G	0.02	183	T		
G -E	0.13	409	C		
E -B	0.09	492	T		
E -H	0.13	409	C		
D -H	0.02	183	T		

LL Defl -0.03" in F -E L/999
TL Defl -0.07" in E -D L/999
Shear // Grain in A -G 0.16

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.75
G	LOCK	3.0x 4.0	Ctr	Ctr	0.56
B	LOCK	4.0x 4.0	Ctr	Ctr	0.62
H	LOCK	3.0x 4.0	Ctr	Ctr	0.56
C	LOCK	3.0x 4.0	Ctr	Ctr	0.75
F	LOCK	1.0x 3.0	Ctr	Ctr	0.81
E	LOCK	3.0x 7.0	Ctr	Ctr	0.47
D	LOCK	1.0x 3.0	Ctr	Ctr	0.81

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

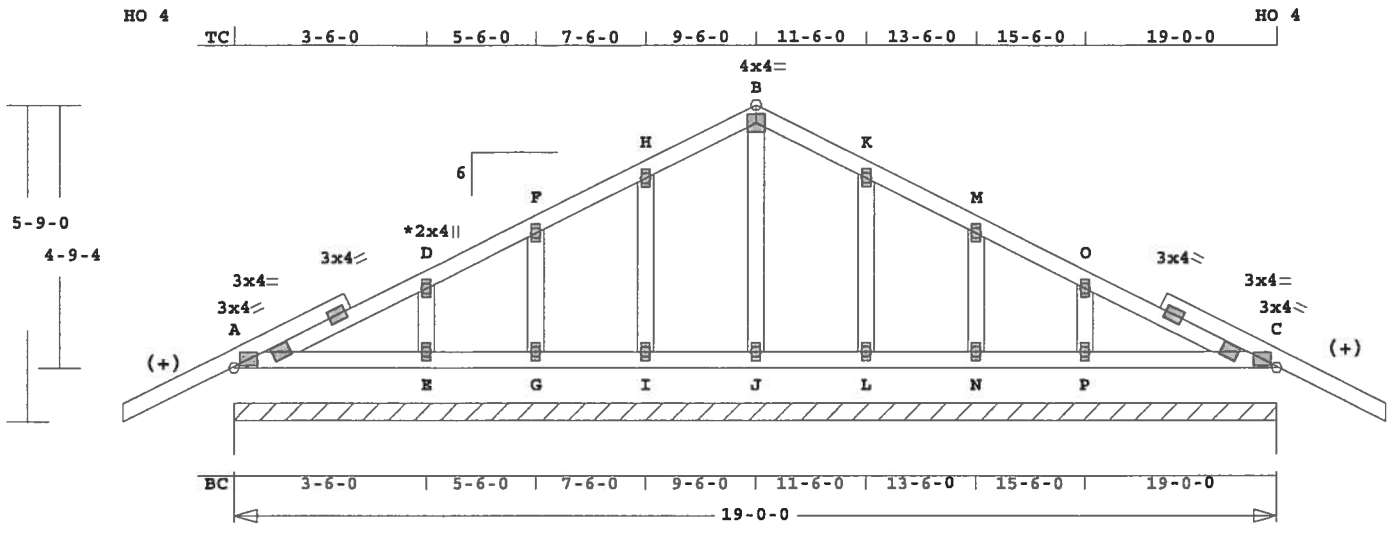
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1239 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	C2	1	SP	190000	6	0	0	T06010966

U# J#KH-KEEN KEEN MODEL



(+) 2x4 SP-#2

ALL PLATES ARE LOCK20

See Joint D For Typical Gable Plate Size and Placement

Scale: 0.287" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 124.2 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.07	2x 4	SP-#2
BC	0.05	2x 4	SP-#2
GW	0.02	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	19- 0- 0
BC	Cont.	0- 0- 0	19- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
Cont.	Brg 0- 0- 0	to 19- 0- 0		
	1520	202	Hz =	80

Membr	CSI	P Lbs	Axl	CSI	Bnd
----------Top Chords----------					
A -D	0.07	90	C	0.00	0.07
D -F	0.07	108	C	0.00	0.07
F -H	0.03	102	C	0.00	0.03
H -B	0.03	106	C	0.00	0.03
B -K	0.03	106	C	0.00	0.03
K -M	0.03	102	C	0.00	0.03
M -O	0.07	108	C	0.00	0.07
O -C	0.07	90	C	0.00	0.07
--------Bottom Chords---------					
A -E	0.05	5	T	0.00	0.05
E -G	0.04	0	T	0.00	0.04
G -I	0.02	0	T	0.00	0.02
I -J	0.02	0	T	0.00	0.02
J -L	0.02	0	T	0.00	0.02
L -N	0.02	0	T	0.00	0.02
N -P	0.04	0	T	0.00	0.04
P -C	0.05	5	T	0.00	0.05
----------Gable Webs----------					
E -D	0.01	176	C		
G -F	0.01	107	C		
I -H	0.02	124	C		
J -B	0.00	32	C		
L -K	0.02	124	C		
N -M	0.01	107	C		
P -O	0.01	176	C		

LL Defl 0.00" in P -C L/999
TL Defl 0.00" in P -C L/999
Shear // Grain in A -D 0.11

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

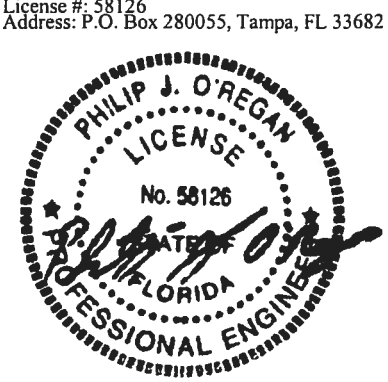
Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.75
D	LOCK	2.0x 4.0	Ctr	Ctr	0.00
F	LOCK	2.0x 4.0	Ctr	Ctr	0.00
H	LOCK	2.0x 4.0	Ctr	Ctr	0.00
B	LOCK	4.0x 4.0	Ctr	Ctr	0.62
K	LOCK	2.0x 4.0	Ctr	Ctr	0.00
M	LOCK	2.0x 4.0	Ctr	Ctr	0.00
O	LOCK	2.0x 4.0	Ctr	Ctr	0.00
C	LOCK	3.0x 4.0	Ctr	Ctr	0.75
E	LOCK	2.0x 4.0	Ctr	Ctr	0.00
G	LOCK	2.0x 4.0	Ctr	Ctr	0.00
I	LOCK	2.0x 4.0	Ctr	Ctr	0.00
J	LOCK	2.0x 4.0	Ctr	Ctr	0.00
L	LOCK	2.0x 4.0	Ctr	Ctr	0.00
N	LOCK	2.0x 4.0	Ctr	Ctr	0.00
P	LOCK	2.0x 4.0	Ctr	Ctr	0.00

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 176 Lbs
Quality Control Factor 1.25

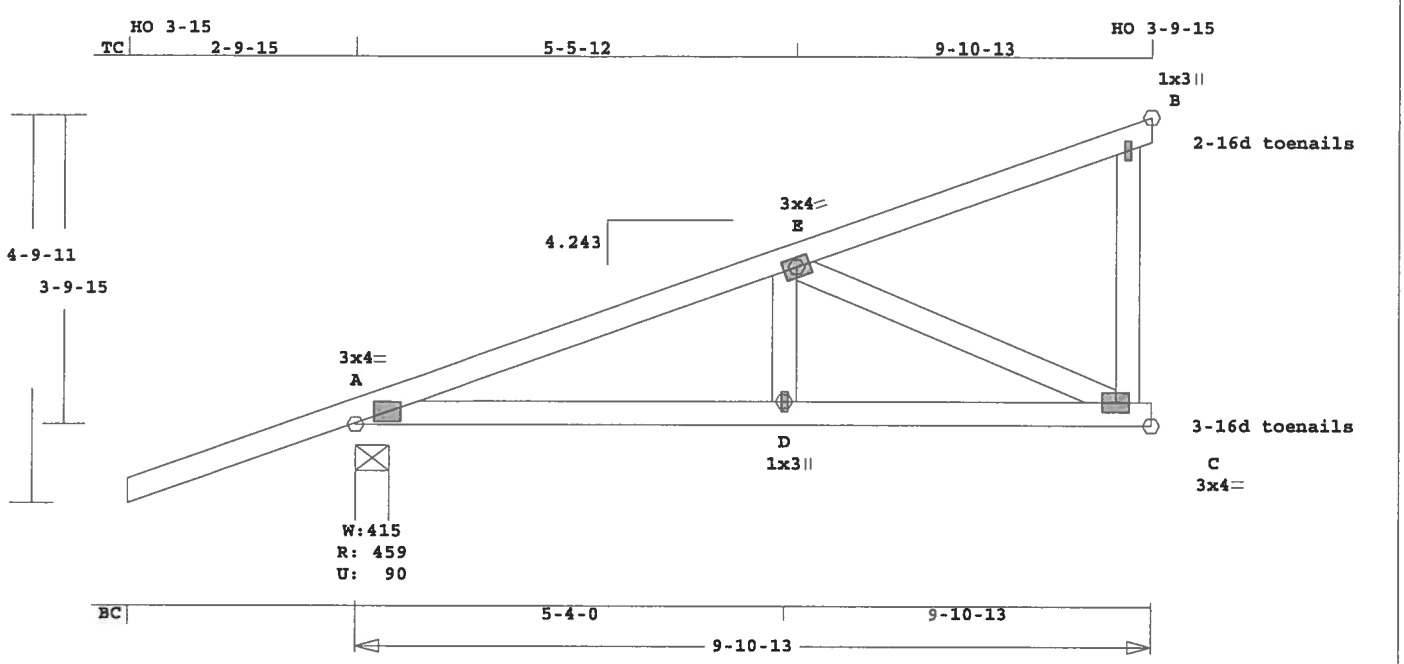
Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	CJ1	3	MONO	91013	4.243	2- 9-15	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 61.7 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.32	2x 4	SP-#2
BC	0.24	2x 4	SP-#2
WB	0.17	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	9-10-13
BC Cont.	0- 0- 0	9-10-13

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.00	Fc=1.00	Ft=1.00	
BC Fb=1.00	Fc=1.00	Ft=1.00	

Load Case # 1 Girder Loading
Lumber Duration Factor 1.25
Plate Duration Factor 1.25

plf -	Live	Dead	From	To
TC V	40	20	0.0'	9.9'
BC V	0	20	0.0'	9.9'
TC V	-40	-20	0.0'	
	45	22		9.9'
BC V	0	-20	0.0'	
	0	22		9.9'

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	459	90	4-15	1- 0
			Hz =	-79
B	210	78	3- 8	1- 0
			Hz =	160
C	340	15	3- 8	1- 0

Membr	CSI	P Lbs	Axl-CSI-Bnd		
Top Chords					
A -E	0.29	611	C	0.00	0.29
E -B	0.32	98	T	0.00	0.32
Bottom Chords					
A -D	0.21	592	T	0.06	0.15
D -C	0.24	592	T	0.06	0.18
Webs					
D -E	0.03	237	T		
E -C	0.17	649	C		
C -B	0.03	0	T	WindLd	

LL Defl -0.02" in D -C L/999
TL Defl -0.04" in D -C L/999
Shear // Grain in E -B 0.26

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.64
E	LOCK	3.0x 4.0	Ctr	Ctr	0.43
B	LOCK	1.0x 3.0	Ctr	Ctr	0.75
D	LOCK	1.0x 3.0	Ctr	Ctr	0.75
C	LOCK	3.0x 4.0	Ctr	Ctr	0.54

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:

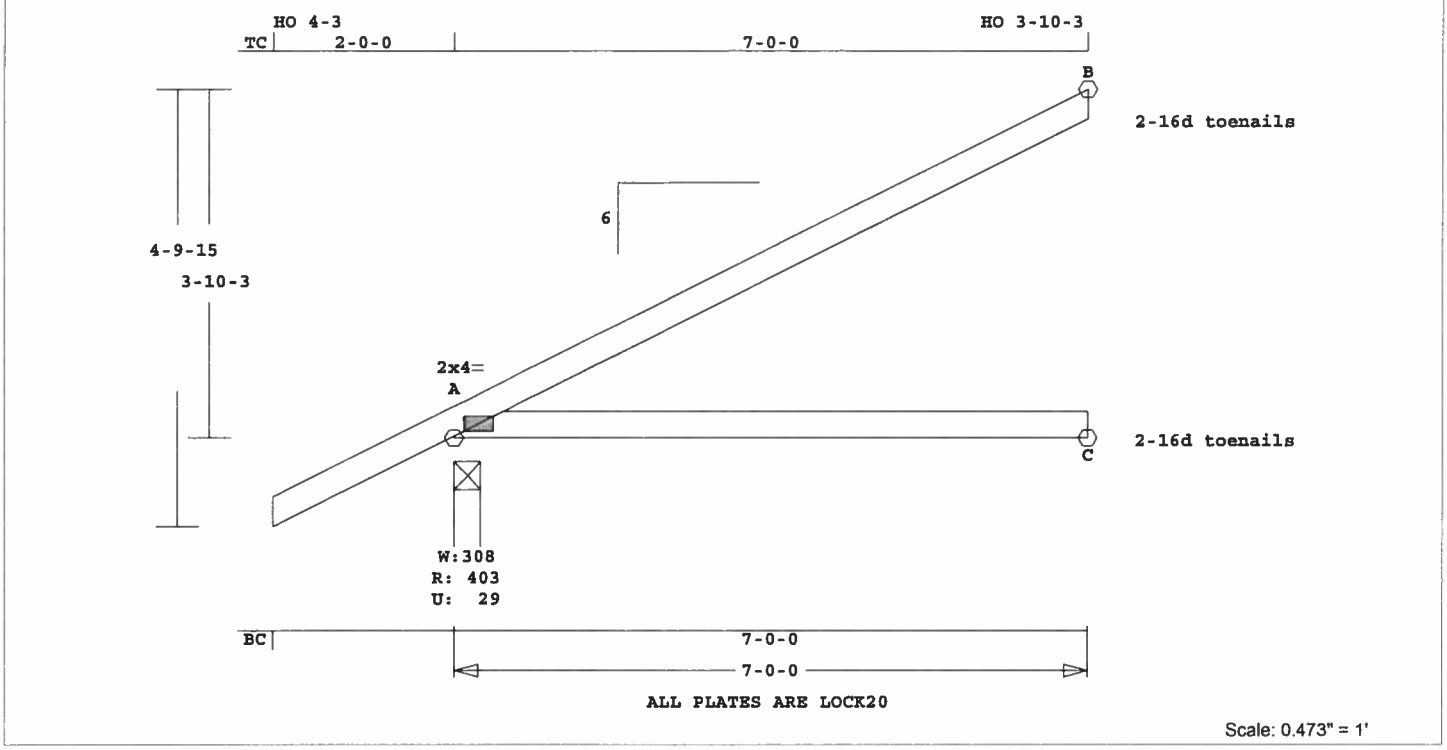
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Girder King Jack
Loading TC and BC
Setback 7- 0- 0
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Use properly rated hangers for loads framing into girder truss.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 649 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	J1	16	JCA2	70000	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 32.5 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.47	2x 4	SP-#2
BC	0.34	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	7- 0- 0
BC	Cont.	0- 0- 0	7- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	Req'd In-Sx
A	404	29	3- 8	1- 0
			Hz =	106
B	196	85	3- 8	1- 0
C	132	0	3- 8	1- 0
			Hz =	72

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.47	53 C	0.00 0.47
--------Bottom Chords---------			
A -C	0.34	72 T	0.00 0.34

LL Defl -0.07" in A -C L/999
TL Defl -0.18" in A -C L/427
Shear // Grain in A -B 0.22

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	2.0x 4.0	Ctr	Ctr	0.69

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

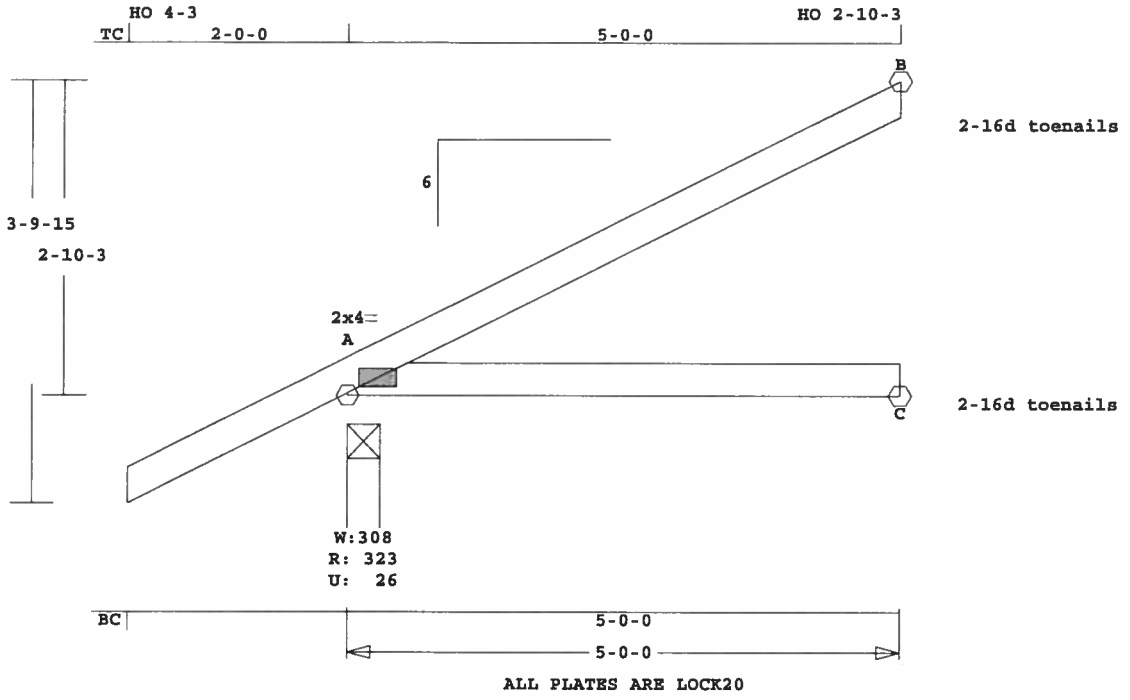
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 53 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	J2	6	JCA2	50000	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 24.5 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.22	2x 4	SP-#2
BC	0.16	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	5- 0- 0
BC Cont.	0- 0- 0	5- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	324	26	3- 8	1- 0
			Hz =	75
B	142	62	3- 8	1- 0
C	94	0	3- 8	1- 0
			Hz =	51

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.22	38 C	0.00 0.22
--------Bottom Chords---------			
A -C	0.16	51 T	0.00 0.16

LL Defl -0.02" in A -C L/999
TL Defl -0.04" in A -C L/999
Shear // Grain in A -B 0.15

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	2.0x 4.0	Ctr	Ctr	0.65

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

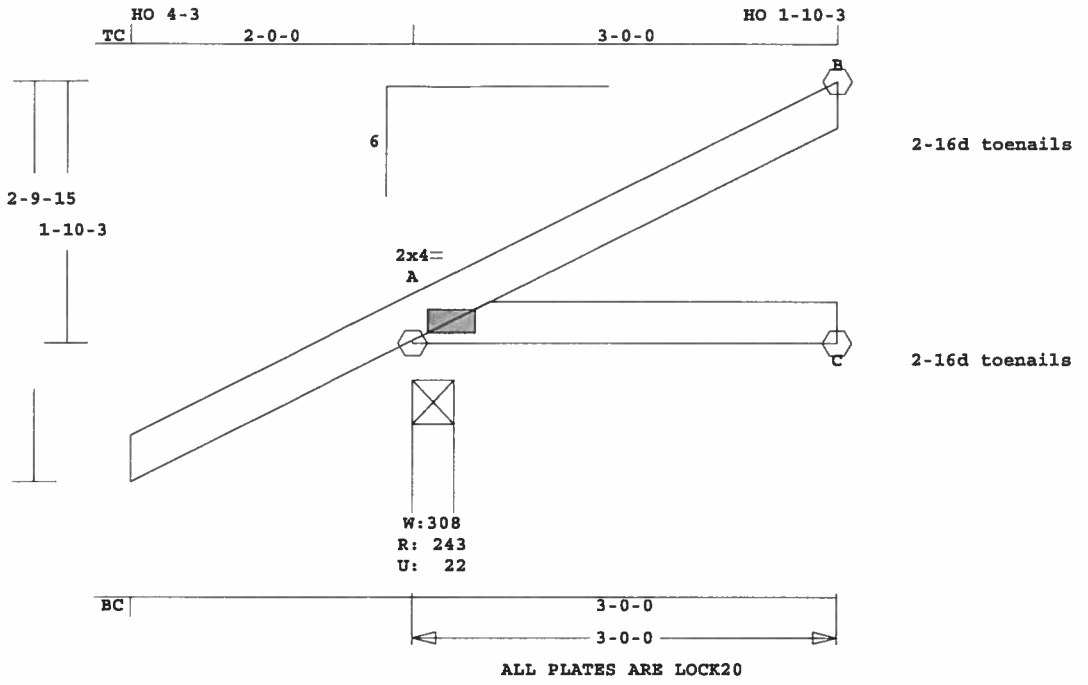
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 38 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
KH-KEEN	J3	6	JCA2	30000	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Scale: 0.739" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 16.5 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.06	2x 4	SP-#2
BC	0.05	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC Cont.		0- 0- 0	3- 0- 0
BC Cont.		0- 0- 0	3- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	Req'd In-Sx
A	243	23	3- 8	1- 0
			Hz =	45
B	88	39	3- 8	1- 0
C	56	0	3- 8	1- 0
			Hz =	30

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.06	23 C	0.00 0.06
--------Bottom Chords---------			
A -C	0.05	30 T	0.00 0.05

LL Defl 0.00" in A -C L/999
TL Defl 0.00" in A -C L/999
Shear // Grain in A -B 0.08

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	2.0x 4.0	Ctr	Ctr	0.65

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

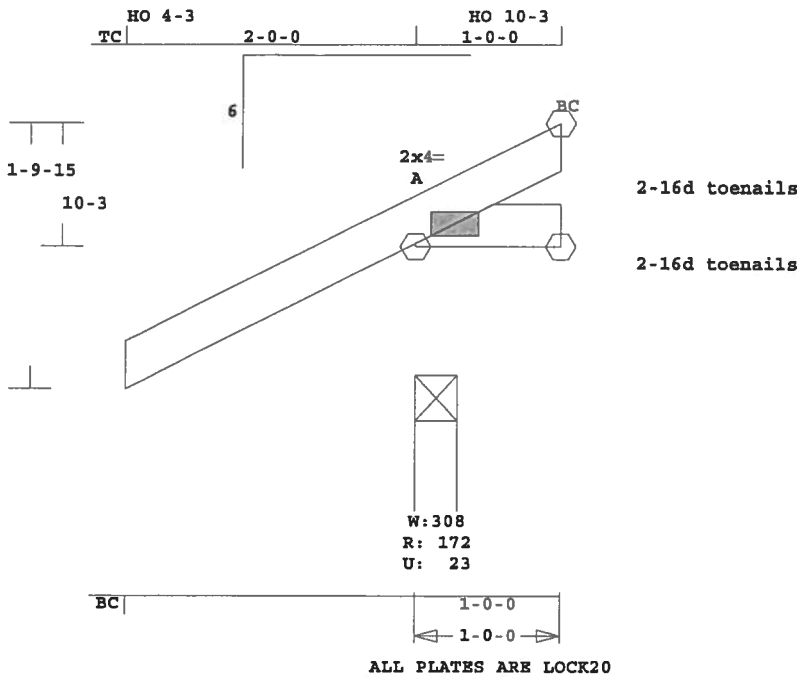
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 23 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	J4	6	JCA2	10000	6	2- 0- 0	0	T06010966

U# J#KH-KEEN KEEN MODEL



Scale: 0.759" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 8.5 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.00	2x 4	SP-#2
BC	0.00	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC Cont.		0- 0- 0	1- 0- 0
BC Cont.		0- 0- 0	1- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	172	23	3- 8	1- 0
			Hz =	13
B	20	9	1- 8	1- 0
C	14	0	1- 8	1- 0

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.00	4	C
--------Bottom Chords---------			
A -C	0.00	8	T

LL Defl 0.00" in A -C L/999
TL Defl 0.00" in A -C L/999
Shear // Grain in A -B 0.02

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt Type	Plt Size	X	Y	JSI
A	LOCK	2.0x	4.0 Ctr	Ctr 0.65

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02

Truss is designed as a Main Wind-Force Resistance System.

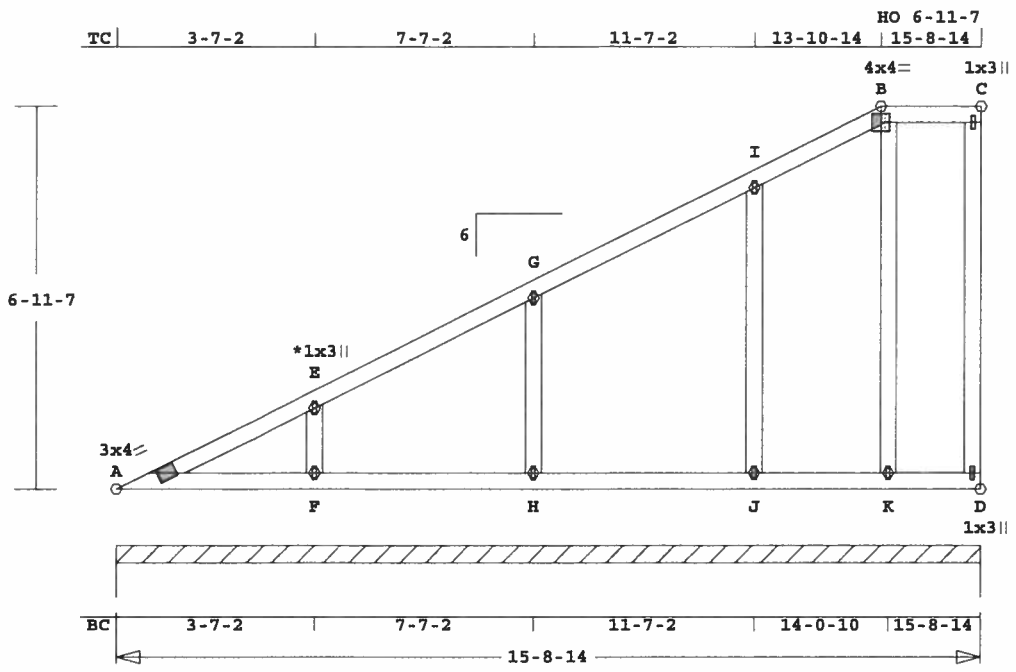
Wind Speed:	110 mph
Mean Roof Height:	15-0
Exposure Category:	B
Occupancy Factor :	1.00
Building Type:	Enclosed
Zone location:	Exterior
TC Dead Load :	5.0 psf
BC Dead Load :	5.0 psf
Max comp. force	4 Lbs
Quality Control Factor	1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	V1	1	VLMHP.SB	150814	6	0	0	T06010966

U# J#KH-KEEN KEEN MODEL



ALL PLATES ARE LOCK20

See Joint E For Typical Gable Plate Size and Placement

Scale: 0.287" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 103.8 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.16	2x 4	SP-#2
BC	0.09	2x 4	SP-#2
GW	0.07	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	15- 8-14
BC Cont.	0- 0- 0	15- 8-14

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
Cont.	Brg 0- 0- 0 to 15- 8-14			
	1210	161	Hz =	204

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -E	0.11	202 C	0.00	0.11
E -G	0.16	144 C	0.00	0.16
G -I	0.16	72 C	0.00	0.16
I -B	0.10	15 C	0.00	0.10
B -C	0.02	0 T	0.00	0.02
--------Bottom Chords---------				
A -F	0.06	0 T	0.00	0.06
F -H	0.09	0 T	0.00	0.09
H -J	0.09	0 T	0.00	0.09
J -K	0.06	0 T	0.00	0.06
K -D	0.01	0 T	0.00	0.01
----------Gable Webs----------				
F -E	0.02	207 C		
H -G	0.04	253 C		
J -I	0.07	205 C		
K -B	0.05	105 C		
D -C	0.02	50 C	WindLd	

LL Defl 0.00" in H -J L/999
TL Defl -0.01" in H -J L/999
Shear // Grain in E -G 0.14

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.70
E	LOCK	1.0x 3.0	Ctr	Ctr	0.75
G	LOCK	1.0x 3.0	Ctr	Ctr	0.75
I	LOCK	1.0x 3.0	Ctr	Ctr	0.75
B	LOCK	4.0x 4.0	Ctr	Ctr	0.78
C	LOCK	1.0x 3.0	Ctr	Ctr	0.75
F	LOCK	1.0x 3.0	Ctr	Ctr	0.75
H	LOCK	1.0x 3.0	Ctr	Ctr	0.75
J	LOCK	1.0x 3.0	Ctr	Ctr	0.75
K	LOCK	1.0x 3.0	Ctr	Ctr	0.75
D	LOCK	1.0x 3.0	Ctr	Ctr	0.75

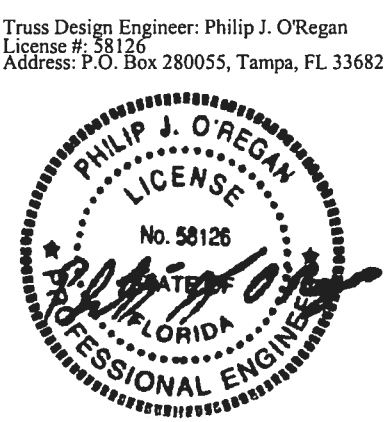
REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 253 Lbs
Quality Control Factor 1.25

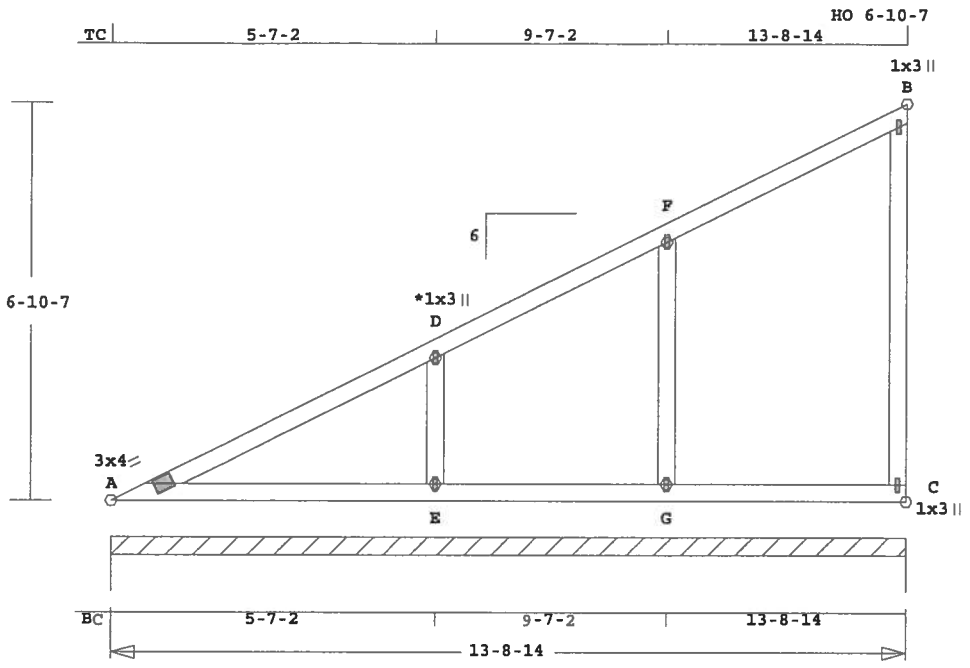
Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	V2	1	VLM.SB	130814	6	0	0	T06010966

U# J#KH-KEEN KEEN MODEL



ALL PLATES ARE LOCK20

See Joint D For Typical Gable Plate Size and Placement

Scale: 0.302" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 77.8 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.17	2x 4	SP-#2
BC	0.10	2x 4	SP-#2
WB	0.13	2x 4	SP-#2
GW	0.06	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	13- 8-14
BC Cont.	0- 0- 0	13- 8-14

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
Cont. Brg	0- 0- 0 to 13- 8-14			
	1050	140 Hz =	302	

Membr	CSI	P Lbs	Axl-CSI-Bnd	
Top Chords				
A -D	0.17	211 C	0.01	0.16
D -F	0.17	161 C	0.00	0.17
F -B	0.17	111 C	0.00	0.17
Bottom Chords				
A -E	0.09	0 T	0.00	0.09
E -G	0.10	0 T	0.00	0.10
G -C	0.10	0 T	0.00	0.10
Webs				
C -B	0.13	105 C	WindLd	
Gable Webs				
E -D	0.02	256 C		
G -F	0.06	264 C		

LL Defl -0.01" in G -C L/999
TL Defl -0.01" in G -C L/999
Shear // Grain in F -B 0.16

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.66
D	LOCK	1.0x 3.0	Ctr	Ctr	0.75
F	LOCK	1.0x 3.0	Ctr	Ctr	0.75
B	LOCK	1.0x 3.0	Ctr	Ctr	0.75
E	LOCK	1.0x 3.0	Ctr	Ctr	0.75
G	LOCK	1.0x 3.0	Ctr	Ctr	0.75
C	LOCK	1.0x 3.0	Ctr	Ctr	0.75

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

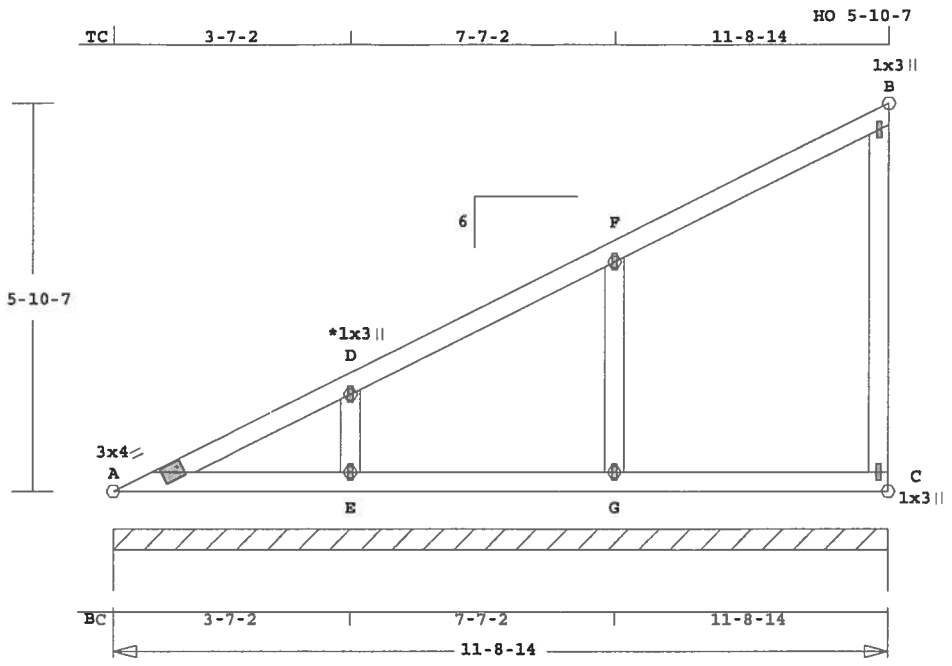
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Provide connection to bearing for 301 Lbs Horiz Reaction
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 264 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	V3	1	VLM.SB	110814	6	0	0	T06010966

U# J#KH-KEEN KEEN MODEL



ALL PLATES ARE LOCK20

See Joint D For Typical Gable Plate Size and Placement

Scale: 0.345" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 64.2 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.18	2x 4	SP-#2
BC	0.10	2x 4	SP-#2
WB	0.09	2x 4	SP-#2
GW	0.04	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	11- 8-14
BC Cont.	0- 0- 0	11- 8-14

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
Cont. Brg	0- 0- 0 to 11- 8-14			
	890	119	Hz =	255

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -D	0.10	186 C	0.00 0.10
D -F	0.18	148 C	0.00 0.18
F -B	0.18	97 C	0.00 0.18
Bottom Chords			
A -E	0.06	0 T	0.00 0.06
E -G	0.10	0 T	0.00 0.10
G -C	0.10	0 T	0.00 0.10
Webs			
C -B	0.09	103 C	WindLd
Gable Webs			
E -D	0.01	200 C	
G -F	0.04	277 C	

LL Defl -0.01" in G -C L/999
TL Defl -0.01" in G -C L/999
Shear // Grain in F -B 0.17

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.63
D	LOCK	1.0x 3.0	Ctr	Ctr	0.75
F	LOCK	1.0x 3.0	Ctr	Ctr	0.75
B	LOCK	1.0x 3.0	Ctr	Ctr	0.75
E	LOCK	1.0x 3.0	Ctr	Ctr	0.75
G	LOCK	1.0x 3.0	Ctr	Ctr	0.75
C	LOCK	1.0x 3.0	Ctr	Ctr	0.75

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

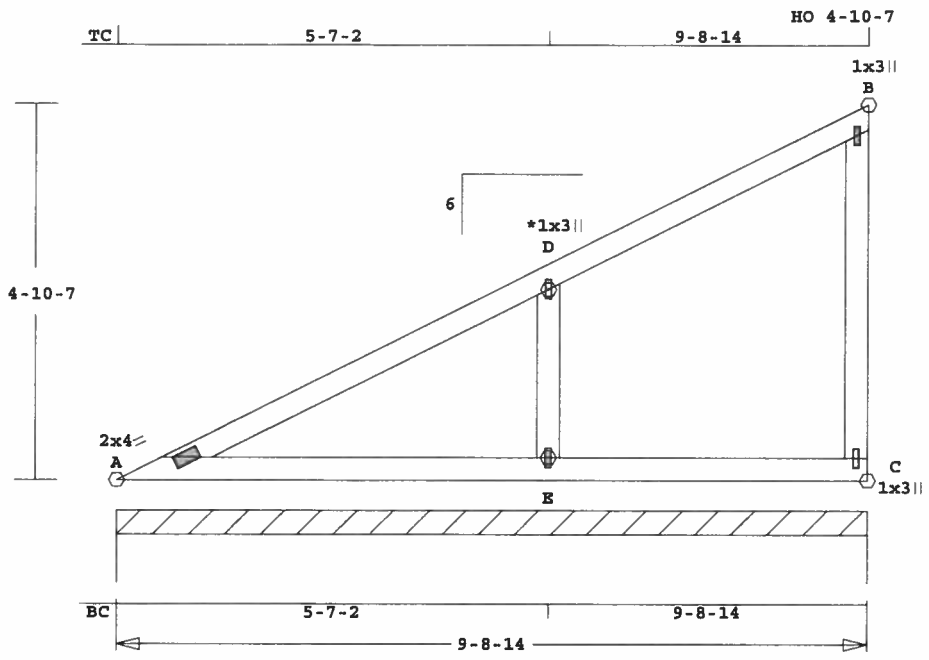
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 277 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 1/11/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN	V4	1	VLM.SB	90814	6	0	0	T06010966

U# J#KH-KEEN KEEN MODEL



ALL PLATES ARE LOCK20

See Joint D For Typical Gable Plate Size and Placement

Scale: 0.403" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 50.0 LBS

Online Plus -- Version 18.0.020
RUN DATE: 11-JAN-06

	CSI	-Size-	----Lumber----
TC	0.21	2x 4	SP-#2
BC	0.12	2x 4	SP-#2
WB	0.06	2x 4	SP-#2
GW	0.03	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	9- 8-14
BC Cont.	0- 0- 0	9- 8-14

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
Cont. Brg	0- 0- 0 to		9- 8-14	
	730	97	Hz =	208

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -D	0.21	136 C	0.01	0.20
D -B	0.20	82 C	0.00	0.20
--------Bottom Chords---------				
A -E	0.12	0 T	0.00	0.12
E -C	0.12	0 T	0.00	0.12
----------Webs----------				
C -B	0.06	100 C	WindLd	
----------Gable Webs----------				
E -D	0.03	292 C		

LL Defl -0.01" in E -C L/999
TL Defl -0.01" in E -C L/999
Shear // Grain in D -B 0.17

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	2.0x 4.0	Ctr	Ctr	0.75
D	LOCK	1.0x 3.0	Ctr	Ctr	0.75
B	LOCK	1.0x 3.0	Ctr	Ctr	0.75
E	LOCK	1.0x 3.0	Ctr	Ctr	0.75
C	LOCK	1.0x 3.0	Ctr	Ctr	0.75

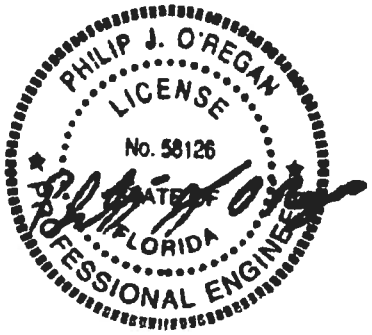
FBC2004
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 292 Lbs
Quality Control Factor 1.25

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 1/11/2006