

DATE 09/18/2007

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000026250

APPLICANT RICHARD KEEN,AGENT PHONE 386.365.5999

ADDRESS 650 S MAIN BLVD. LAKE CITY FL 32055

OWNER JUANNA L. DUNCAN PHONE 386.965.4717

ADDRESS 4687 NE GUM SWAMP ROAD LAKE CITY FL 32055

CONTRACTOR JAMES H. JOHNSTON PHONE 386.365.5999

LOCATION OF PROPERTY 441-N TO GUM SWAMP ROAD,TR PAST STILL ROD, APPROX. 1/2 MILE
PROPERTY ON L BEHIND HOUSE W/ GREEN TIN ROOF.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 58500.00

HEATED FLOOR AREA 1170.00 TOTAL AREA 1271.00 HEIGHT 14.11 STORIES 1

FOUNDATION CONC WALLS FRAMES ROOF PITCH 6'12 FLOOR CONC

LAND USE & ZONING A-2 MAX. HEIGHT 35

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

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

PARCEL ID 13-3S-17-04948-008 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 1.00

CRC1328128

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor

EXISTING 07-0682-N BLK JTH N

Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD. SECTION 14.9 SPECIAL FAMILY LOT

PERMIT. VIA PHONE CALL FR: J. JOHNSTON AUTHORIZING AGENT. R. KEEN TO

SIGN FOR PERMIT. PROPOSED TAX ID.# FROM P.A. OFFICE (THERESA) HAVE NOC Check # or Cash 1142

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power Foundation Monolithic

Under slab rough-in plumbing Slab Sheathing/Nailing

Framing Rough-in plumbing above slab and below wood floor

Electrical rough-in Heat & Air Duct Peri. beam (Lintel)

Permanent power C.O. Final Culvert

M/H tie downs, blocking, electricity and plumbing Pool

Reconnection Pump pole Utility Pole

M/H Pole Travel Trailer Re-roof

BUILDING PERMIT FEE \$ 295.00 CERTIFICATION FEE \$ 6.36 SURCHARGE FEE \$ 6.36

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

FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 382.72

INSPECTORS OFFICE CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

NOTICE OF COMMENCEMENT

TO WHOM IT MAY CONCERN:

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

1. Description of Property: See Exhibit "A" attached hereto and by this reference made a part thereof.
2. General Description of Improvement: Construction of Dwelling
3. Owner Information:
 - a. Name and Address: Juanna L. Duncan, 1021 NW Brown Road, Lake City, FL 32055
 - b. Interest in property: Fee Simple
 - c. Name and address of fee simple title holder (if other than Owner): NONE
4. Contractor (name and address): HomeTown Homes, LLC, 650 SW Main Blvd, Lake City, FL 32025
5. Surety:
 - a. Name and Address: N/A
 - b. Amount of Bond: N/A
6. LENDER: First Federal Savings Bank of Florida
4705 West US Highway 90
PO Box 2029
Lake City, FL 32056
7. Persons within the State of Florida designated by Owner upon whom notices of other documents may be served as provided in Section 713.13(1)(a)7., Florida Statutes: NONE
8. In addition to himself, Owner designates PAULA HACKER, of FIRST FEDERAL SAVINGS BANK OF FLORIDA at 4705 WEST US HIGHWAY 90 / PO BOX 2029, LAKE CITY, FL 32056, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b) Florida Statutes.
8. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

Inst: 200712020063 Date: 9/5/2007 Time: 10:57 AM
DC, P. DeWitt Cason, Columbia County Page 1 of 2

*Owner is used for singular or plural as context requires.

Signed, sealed and delivered in the presence:

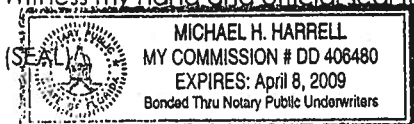
Traci Landry
WITNESS Traci Landry
Cheryl Beate
WITNESS Cheryl Beate

Juanna L. Duncan
Juanna L. Duncan.

STATE OF FLORIDA
COUNTY OF COLUMBIA

Before me, personally appeared Juanna L. Duncan to me known to be the person(s) described in and who executed the foregoing instrument, and they acknowledged to and before me that they executed said instrument for the purpose therein expressed.

Witness my hand and official seal this 31st day of August, 2007.



NOTARY PUBLIC

My Commission Expires:

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS

By Staron Feagle
Deputy Clerk

Date 09-05-2007

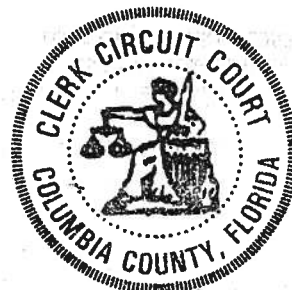


Exhibit "A"

Commence at the Southwest corner of the Northeast $\frac{1}{4}$ of the Northwest $\frac{1}{4}$ of Section 13, Township 3 South, Range 17 East, Columbia County, Florida, and run thence North $87^{\circ}24'12''$ East, along the South line of said NE $\frac{1}{4}$ of NW $\frac{1}{4}$, 161.84 feet to the Easterly right of way of NE Gum Swamp Road (State Road No. S-250); thence North $46^{\circ}18'19''$ East, along said Easterly right of way, 768.57 feet; thence North $43^{\circ}34'43''$ West, 309.92 feet; thence North $48^{\circ}10'19''$ East, 212.28 feet to the Point of Beginning; thence North $48^{\circ}10'40''$ East, 212.60 feet; thence North $43^{\circ}37'29''$ West, 204.89 feet; thence South $48^{\circ}10'28''$ West 212.61 feet; thence South $43^{\circ}37'39''$ East, 204.88 feet to the Point of Beginning.

Together with an ingress and egress easement (20 feet wide) being and lying 20 feet to the left of the following described line: Commence at the Southwest corner of the Northeast $\frac{1}{4}$ of the Northwest $\frac{1}{4}$ of Section 13, Township 3 South, Range 17 East, Columbia County, Florida, and run thence North $87^{\circ}24'12''$ East, along the South line of said NE $\frac{1}{4}$ of NW $\frac{1}{4}$, 161.84 feet to the Easterly right of way of NE Gum Swamp Road (State Road No. S-250); thence North $46^{\circ}18'19''$ East, along said Easterly right of way, 768.57 feet; thence North $43^{\circ}34'43''$ West, 100.00 feet to the Westerly right of way of said NE Gum Swamp Road; thence North $46^{\circ}18'19''$ East, along said Westerly right of way, 212.77 feet to the Point of Beginning; thence North $43^{\circ}44'46''$ West, 203.01 feet; thence North $43^{\circ}37'39''$ West, 30.00 feet to the Point of Termination. The side lines of said ingress and egress easement are to be extended or shortened to meet at angle points and right of ways.

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0709.35 Date Received 9/12/07 By G Permit # 26250
Application Approved by - Zoning Official BLK Date 9-09-07 Plans Examiner OK JTH Date 9-13-07
Flood Zone X Development Permit N/A Zoning A-2 Land Use Plan Map Category A-2
Comments Section 14.9 Special Family Lot Permit T. Johnston called 9.19.07
+ 2nd Review R. Keen to Sign Permit (SFL) for only

Applicants Name James Johnston Phone 365-5999
Address 650 S Main Blvd Lake City FL 32055
Owners Name Juwanna Duncan Phone 965-4717
911 Address 4687 NE Gum Swamp Rd. LAKE City FL 32055
Contractors Name James Johnston Phone 365-5999
Address 650 S Main Blvd LAKE City FL 32055
Fee Simple Owner Name & Address Juwanna Duncan
Bonding Co. Name & Address _____
Architect/Engineer Name & Address Mark Disosway
Mortgage Lenders Name & Address First Federal
Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
Property ID Number 13-35-17-04948-008 Estimated Cost of Construction \$85,000⁰⁰
Subdivision Name N/A Lot _____ Block _____ Unit _____ Phase _____
Driving Directions 441 N to Gum Swamp Rd., turn right,
Go past Still Rd about 1/2 mile, property on left
Behind cedar house with Green Tin Roof
Type of Construction SFD Number of Existing Dwellings on Property 0
Total Acreage 1.00 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 88 Side 80 Side 100 Rear 100
Total Building Height 14'11" Number of Stories 1 Heated Floor Area 1170 Roof Pitch 6/12
TOTAL 1271

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

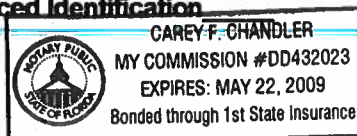
OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 12th day of September 2007.
Personally known X or Produced Identification



Contractor Signature

Contractors License Number CRK 1328/28

Competency Card Number _____

NOTARY STAMP/SEAL

Carey F. Chandler
Notary Signature

T. Johnston called RE 9.18.07

AFFIDAVIT OF SUBDIVIDED REAL PROPERTY
FOR USE OF IMMEDIATE FAMILY MEMBERS
FOR PRIMARY RESIDENCE

STATE OF FLORIDA
COUNTY OF COLUMBIA

BEFORE ME the undersigned Notary Public personally appeared.

Eael Green Sr + Parsy L. Green, the Owner of the parent tract which has been subdivided for immediate family primary residence use, hereinafter the Owner, and Juanita G. Duncan, the family member of the Owner, who is the owner of the family parcel which is intended for immediate family primary residence use, hereafter the Family Member, and is related to the Owner as daughter, and both individuals being first duly sworn according to law, depose and say:

1. Both the Owner and the Family Member have personal knowledge of all matters set forth in this Affidavit.
2. The Owner holds fee simple title to certain real property situated in Columbia County, and more particularly described by reference to the Columbia county Property Appraiser Tax Parcel No. 13-35-17-04948-000.
3. The Owner has divided his parent parcel for use of immediate family members for their primary residence and the parcel divided and the remaining parent parcel are at least ½ acre in size. Immediate family is defined as grandparent, parent, step-parent, adopted parent, sibling, child, step-child, adopted child or grandchild.
4. The Family Member is a member of the Owner's immediate family, as set forth above, and holds fee simple title to certain real property divided from the Owner's parcel situated in Columbia County and more particularly described by reference to the Columbia County Property Appraiser Tax Parcel No. 13-35-17-04948-008.
5. No person or entity other than the Owner and Family Member claims or is presently entitled to the right of possession or is in possession of the property, and there are no tenancies, leases or other occupancies that affect the Property.
6. This Affidavit is made for the specific purpose of inducing Columbia County to recognize a family division for a family member on the parcel divided in accordance with Section 14.9 of the Columbia County Land Development Regulations.

0709-35

7. This Affidavit is made and given by Affiants with full knowledge that the facts contained herein are accurate and complete, and with full knowledge that the penalties under Florida law for perjury include conviction of a felony of the third degree.

We Hereby Certify that the information contained in this Affidavit are true and correct.

Earl Green Sr.
Owner

Juana Duncan
Family Member

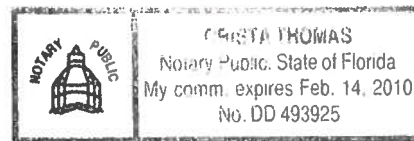
EARL GREEN SR.
Typed or Printed Name

Juana G. Duncan
Typed or Printed Name

Pansy L Green

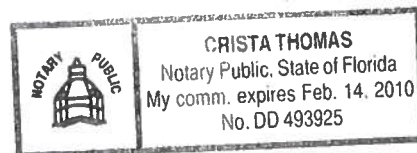
Subscribed and sworn to (or affirmed) before me this 13 day of Sept, 2007, by EARL & PANSY GREEN (Owner) who is personally known to me or has produced FL/DL as identification.

[Signature]
Notary Public



Subscribed and sworn to (or affirmed) before me this 13 day of Sept, 2007, by Susanne Duncan (Family Member) who is personally known to me or has produced FL/DL as identification.

[Signature]
Notary Public

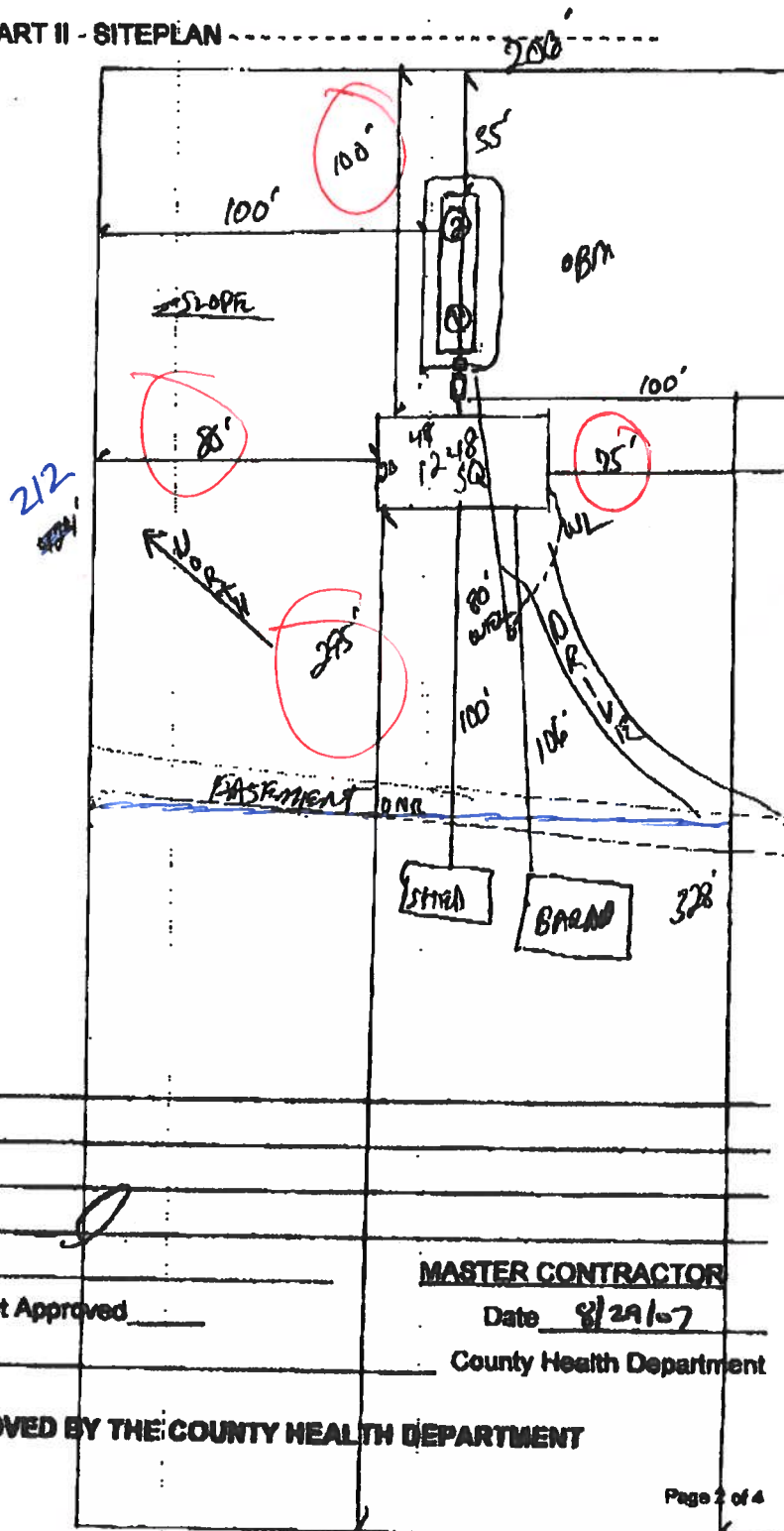


Permit Application Number 07-0682

PART II - SITEPLAN

(Earl Street St.)

SEE ATTACHED



Notes: 2 of 4.7 ACRES

Site Plan submitted by:

Plan Approved

By

Not Approved

MASTER CONTRACTOR

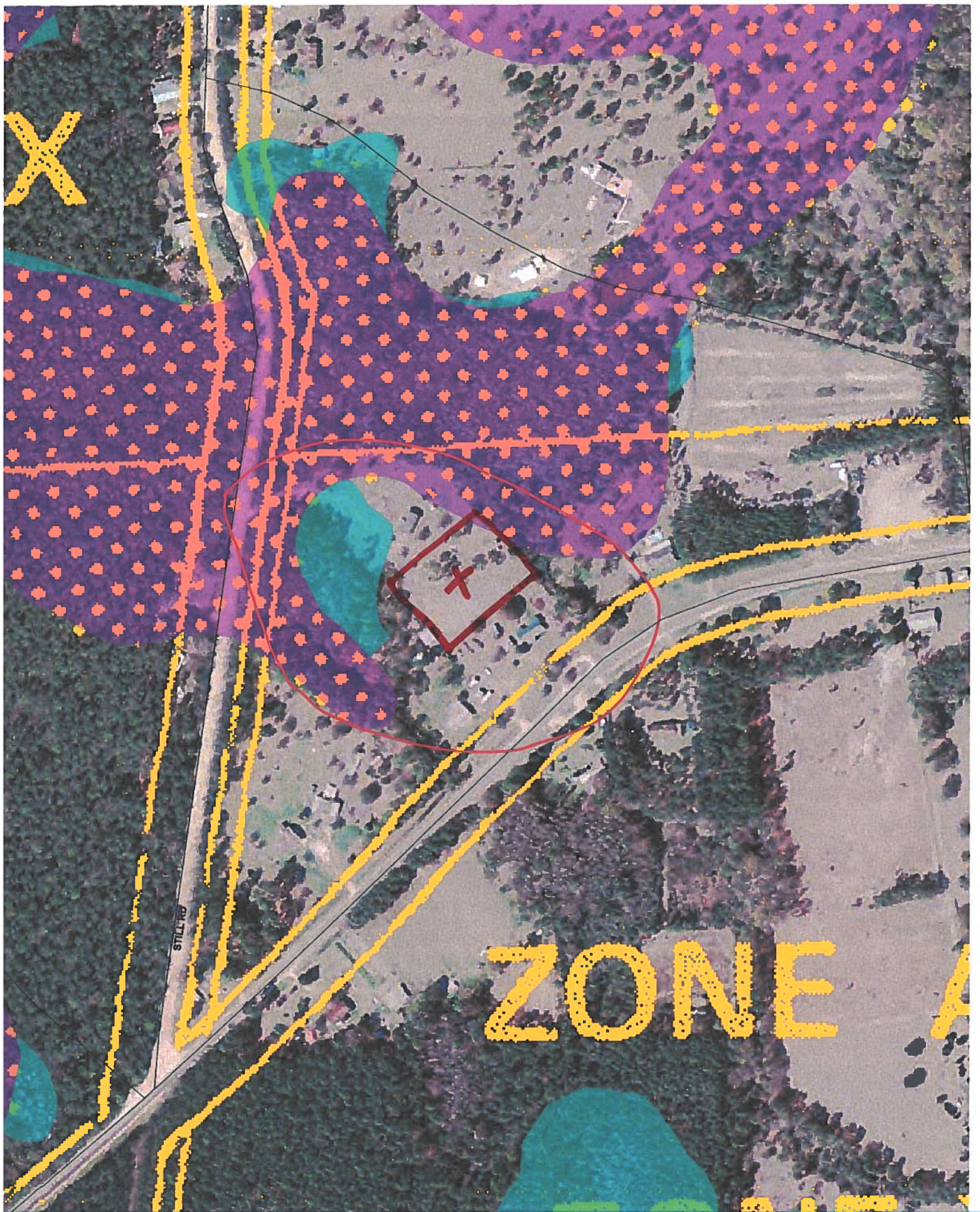
Date 8/29/07

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4016, 10/98 (Replaces HRS-H Form 4016 which may be used)
 (Stock Number: 5744-002-4015-6)

Page 2 of 4



0709-35

Notice of Treatment

Applicator: **Florida Pest Control & Chemical Co. (www.flapest.com)**

Address: 536 S Bay Ave

City: Lake Park Phone: 752-1703

Site Location: Subdivision

Lot # _____ Block # _____ Permit # RT-480

Address: 4687 NE 4th St 26250

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

Type treatment:

☒ Soil

☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
<u>Driveway / 1st Floor</u>	<u>112</u>	<u>100</u>	<u>20 gals</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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

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

7-24-07
Date

3:45
Time

F299
Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



Notice of Treatment

12734

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)

Address: 536 SE Bay Ave

City LAKE CITY Phone 752-1703

Site Location: Subdivision _____

Lot # _____ Block# _____ Permit # RICHARD KERNER

Address 4687 NE Gum Swamp Rd.

Product used

Active Ingredient

% Concentration

- | | | |
|---|----------------------------------|-------|
| ☒ Premise | Imidacloprid | 0.1% |
| ☐ Termidor | Fipronil | 0.12% |
| ☐ Bora Care | Disodium Octaborate Tetrahydrate | 23.0% |

Type treatment:

☒ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

<u>Dwelling</u>	<u>1170</u>	<u>142</u>	<u>90 gals</u>
<u> / </u>	<u> / </u>	<u> / </u>	<u> / </u>
<u> / </u>	<u> / </u>	<u> / </u>	<u> / </u>

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

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

9-20-07

Date

1:05

Time

F259

Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name:	708299KeenRichardDunkenRes.	Builder:	Keen, Richard
Address:	Gum Swamp Road	Permitting Office:	COLUMBIA
City, State:	, FL	Permit Number:	26250
Owner:	Dunken Res.	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 24.0 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	c. N/A	
6. Conditioned floor area (ft²)	1170 ft²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 24.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default)	104.0 ft²		HSPF: 7.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	104.0 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 142.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 972.0 ft²	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1202.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 150.0 ft		
b. N/A			

Glass/Floor Area: 0.09

Total as-built points: 18868

Total base points: 20354

PASS

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

PREPARED BY: _____

DATE: 8/30/07

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

OWNER/AGENT: _____

DATE: 9/7/07

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

BUILDING OFFICIAL: _____

DATE: _____



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

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

ADDRESS: Gum Swamp Road, , FL,

PERMIT #:

BASE				AS-BUILT						
GLASS TYPES										
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X	SPM X	SOF = Points	
.18	1170.0	20.04	4220.4	Double, Clear	W	1.5 5.5	15.0	38.52	0.90	518.3
				Double, Clear	W	1.5 5.5	20.0	38.52	0.90	691.0
				Double, Clear	W	1.5 3.5	9.0	38.52	0.78	269.9
				Double, Clear	E	1.5 5.5	30.0	42.06	0.90	1131.0
				Double, Clear	E	6.3 5.5	30.0	42.06	0.48	610.5
				As-Built Total:			104.0			3220.7
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		972.0	1.50	1458.0	
Exterior	972.0	1.70	1652.4							
Base Total:				As-Built Total:			972.0		1458.0	
DOOR TYPES Area X BSPM = Points				Type			Area X	SPM	= Points	
Adjacent	0.0	0.00	0.0	Exterior Insulated			40.0	4.10	164.0	
Exterior	60.0	4.10	246.0	Exterior Insulated			20.0	4.10	82.0	
Base Total:				As-Built Total:			60.0		246.0	
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X	SPM X SCM	= Points	
Under Attic	1170.0	1.73	2024.1	Under Attic	30.0		1202.0	1.73 X 1.00	2079.5	
Base Total:				As-Built Total:			1202.0		2079.5	
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X	SPM	= Points	
Slab	142.0(p)	-37.0	-5254.0	Slab-On-Grade Edge Insulation	0.0		142.0(p)	-41.20	-5850.4	
Raised	0.0	0.00	0.0							
Base Total:				As-Built Total:			142.0		-5850.4	
INFILTRATION Area X BSPM = Points							Area X	SPM	= Points	
	1170.0	10.21	11945.7				1170.0	10.21	11945.7	

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

ADDRESS: Gum Swamp Road, , FL,

PERMIT #:

BASE				AS-BUILT											
Summer Base Points: 14834.6				Summer As-Built Points: 13099.4											
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
14834.6		0.4266		6328.5	(sys 1: Central Unit 24000 btuh ,SEER/EFF(10.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 13099		1.00		(1.09 x 1.147 x 0.91)		0.341		1.000		5086.5
					13099.4		1.00		1.138		0.341		1.000		5086.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Gum Swamp Road, , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC Overhang Ornt Len Hgt Area X WPM X WOF = Points							
.18	1170.0	12.74	2683.0	Double, Clear	W	1.5	5.5	15.0	20.73	1.03	319.7
				Double, Clear	W	1.5	5.5	20.0	20.73	1.03	426.2
				Double, Clear	W	1.5	3.5	9.0	20.73	1.07	198.9
				Double, Clear	E	1.5	5.5	30.0	18.79	1.04	587.1
				Double, Clear	E	6.3	5.5	30.0	18.79	1.32	745.9
				As-Built Total:				104.0		2277.8	
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		972.0	3.40	3304.8	
Exterior	972.0	3.70	3596.4								
Base Total:		972.0	3596.4	As-Built Total:				972.0	3304.8		
DOOR TYPES Area X BWPM = Points				Type		Area X WPM = Points					
Adjacent	0.0	0.00	0.0	Exterior Insulated				40.0	8.40	336.0	
Exterior	60.0	8.40	504.0	Exterior Insulated				20.0	8.40	168.0	
Base Total:		60.0	504.0	As-Built Total:				60.0	504.0		
CEILING TYPESArea X BWPM = Points				Type		R-Value		Area X WPM X WCM = Points			
Under Attic	1170.0	2.05	2398.5	Under Attic		30.0		1202.0	2.05 X 1.00	2464.1	
Base Total:		1170.0	2398.5	As-Built Total:				1202.0	2464.1		
FLOOR TYPES Area X BWPM = Points				Type		R-Value		Area X WPM = Points			
Slab	142.0(p)	8.9	1263.8	Slab-On-Grade Edge Insulation		0.0		142.0(p)	18.80	2669.6	
Raised	0.0	0.00	0.0								
Base Total:			1263.8	As-Built Total:				142.0	2669.6		
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
1170.0 -0.59 -690.3				1170.0 -0.59 -690.3							

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Gum Swamp Road, , FL,

PERMIT #:

BASE				AS-BUILT						
Winter Base Points:		9755.4		Winter As-Built Points:			10530.0			
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	
9755.4		0.6274	6120.6	(sys 1: Electric Heat Pump 24000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0 10530.0 1.000 (1.069 x 1.169 x 0.93) 0.487 1.000 5961.5 10530.0 1.00 1.162 0.487 1.000 5961.5						

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Gum Swamp Road, , FL,

PERMIT #:

BASE					AS-BUILT					
WATER HEATING										
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Credit X Multiplier = Total Multiplier
3		2635.00		7905.0	40.0	0.93	3		1.00	2606.67
					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
6328		6121		7905 20354	5087		5962		7820 18868

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Gum Swamp Road, , 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* = 84.2

The higher the score, the more efficient the home.

Dunken Res., Gum Swamp Road, , FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 24.0 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	c. N/A	
6. Conditioned floor area (ft ²)	1170 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 24.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 104.0 ft ²		HSPF: 7.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 104.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 142.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 972.0 ft ²	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1202.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 150.0 ft		
b. N/A			

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

Builder Signature: _____

Date: 9/7/07

Address of New Home: 4487 NE Gum Swamp City/FL Zip: L/K 32055



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

A & B Well Drilling Inc.
5673 NW Lake Jeffery Road
Lake City, FL, 32055
386-758-3409

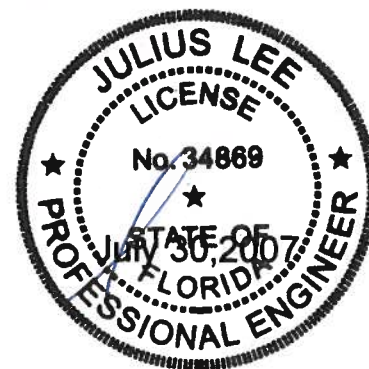
TO: Columbia County Building Department

Description of well to be installed for Customer: Paul Guran Sr
Located at Address: CR 250 Gum Swamp Road

1 hp - 1 1/2" drop over 86 gallon tank, 250 gallon equivalent captive with back flow preventer. 35-gallon draw down with check valve pass requirements.

William Bias
William Bias

FAXED BY Kristina
DATE: 9-10-07



Project Information for: L249162

... Address: 4711 Northwest Gum Swamp Road
... Lake City, FL
... County: Columbia
Truss Count: 14
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

Truss Design Load Information:

Gravity: **Wind:**

Roof (psf): 42.0 Wind Standard: ASCE 7-02 Wind Exposure: B
Floor (psf): N/A Wind Speed (mph): 110

Note: See the individual truss drawings for special loading conditions.

Contractor of Record, responsible for structural engineering:

James Johnston Florida License No. CRC1328128
Address: 650 Southwest Main Blvd. Lake City, Florida

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869

Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elements in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date
1	J1870521	CJ1	7/30/07
2	J1870522	CJ3	7/30/07
3	J1870523	CJ5	7/30/07
4	J1870524	EJ5	7/30/07
5	J1870525	EJ7	7/30/07
6	J1870526	HIP1	7/30/07
7	J1870527	HJ7	7/30/07
8	J1870528	HJ9	7/30/07
9	J1870529	T01	7/30/07
10	J1870530	T02	7/30/07
11	J1870531	T03	7/30/07
12	J1870532	T04	7/30/07
13	J1870533	T05	7/30/07
14	J1870534	T06	7/30/07



Project Information for: L249162

Address: 4711 Northwest Gum Swamp Road
Lake City, FL
County: Columbia
Truss Count: 14
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

Truss Design Load Information:

Gravity: **Wind:**

Roof (psf): 42.0 Wind Standard: ASCE 7-02 Wind Exposure: B
Floor (psf): N/A Wind Speed (mph): 110

Note: See the individual truss drawings for special loading conditions.

Contractor of Record, responsible for structural engineering:

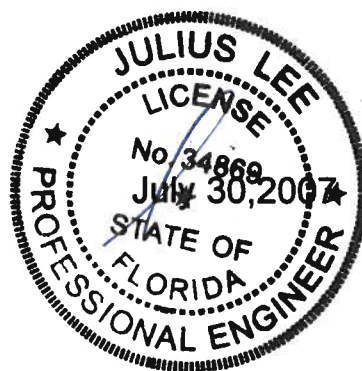
James Johnston Florida License No. CRC1328128
Address: 650 Southwest Main Blvd. Lake City, Florida

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869

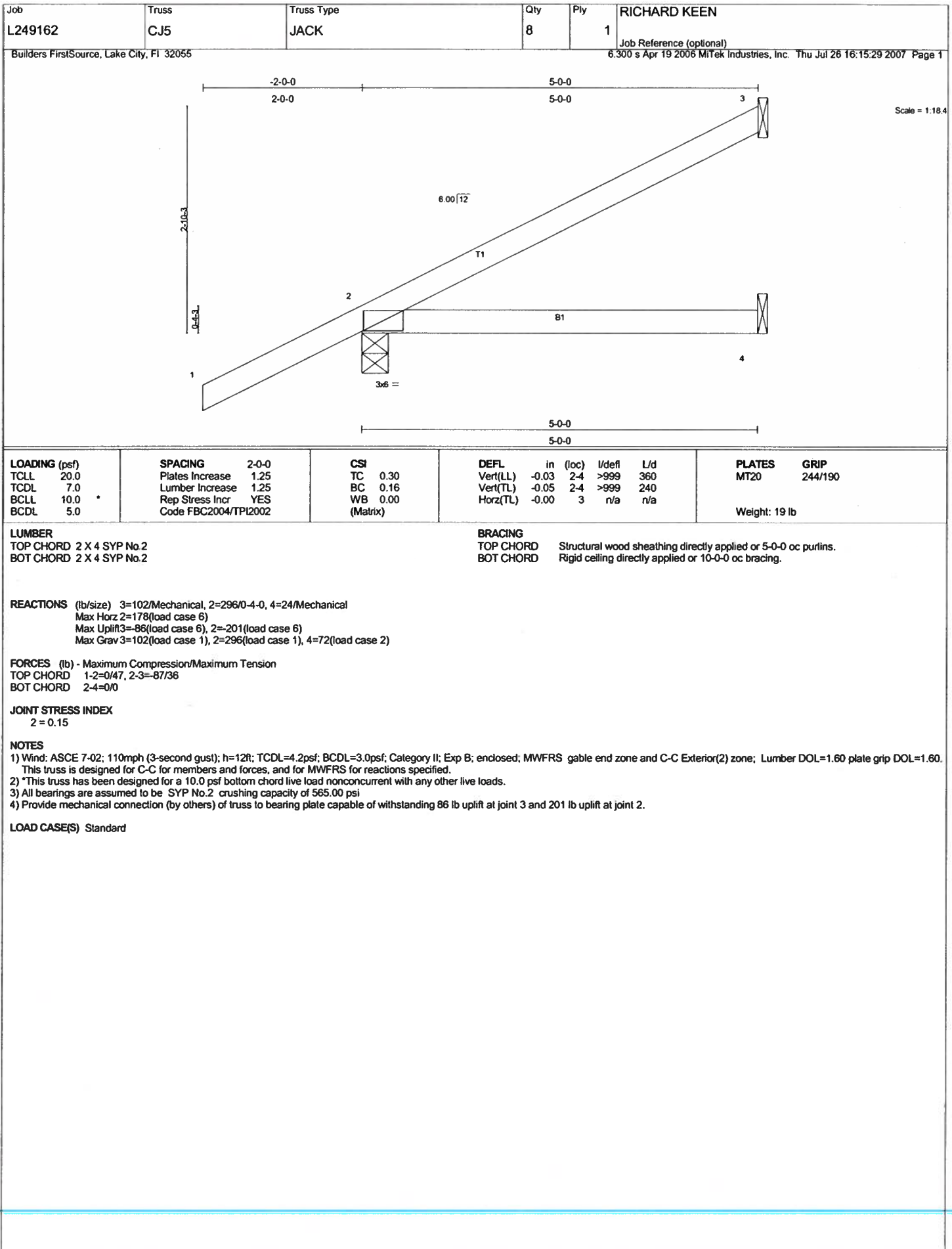
Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

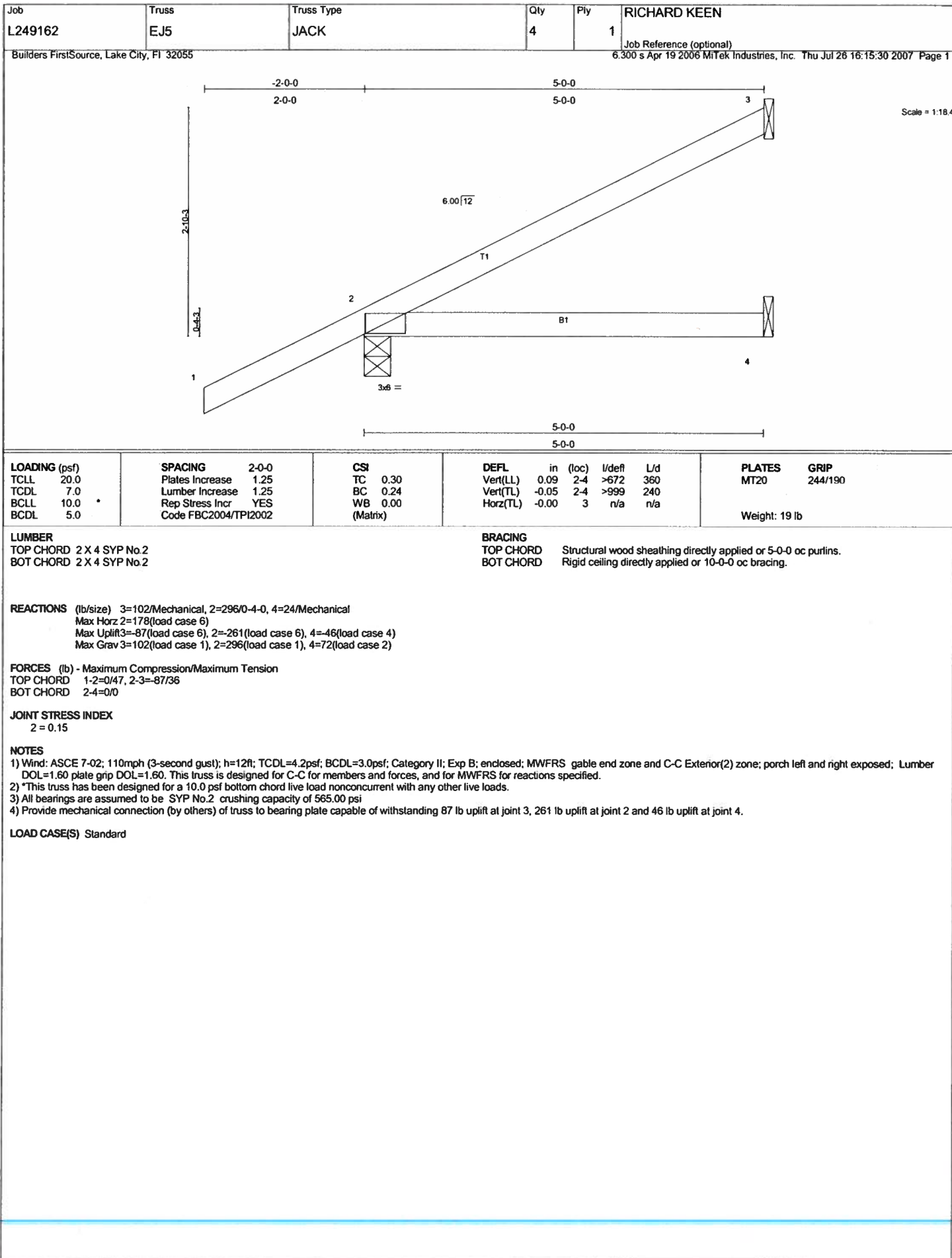
Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elements in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.



No.	Drwg. #	Truss ID	Date
1	J1870521	CJ1	7/30/07
2	J1870522	CJ3	7/30/07
3	J1870523	CJ5	7/30/07
4	J1870524	EJ5	7/30/07
5	J1870525	EJ7	7/30/07
6	J1870526	HIP1	7/30/07
7	J1870527	HJ7	7/30/07
8	J1870528	HJ9	7/30/07
9	J1870529	T01	7/30/07
10	J1870530	T02	7/30/07
11	J1870531	T03	7/30/07
12	J1870532	T04	7/30/07
13	J1870533	T05	7/30/07
14	J1870534	T06	7/30/07



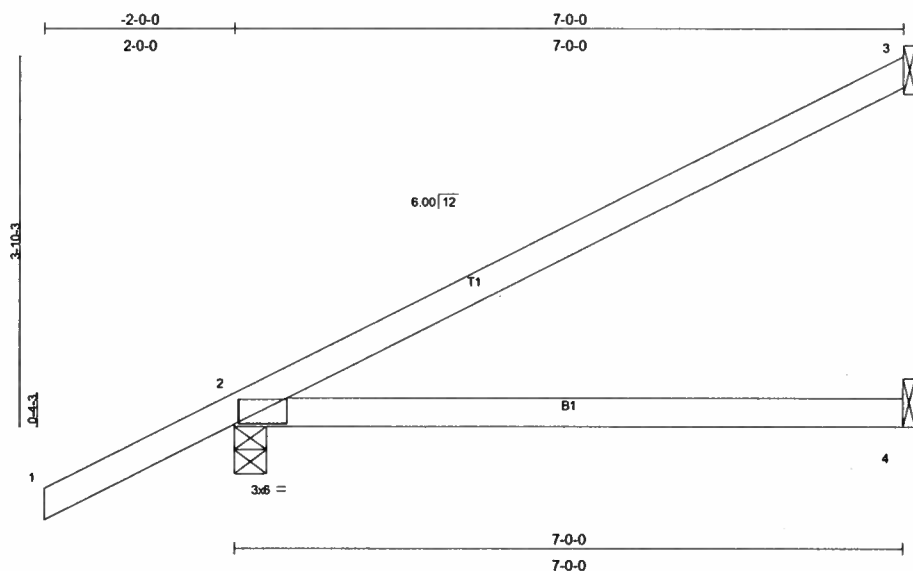


Job L249162	Truss EJ7	Truss Type MONO TRUSS	Qty 14	Ply 1	RICHARD KEEN
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Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

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Scale = 1/2" = 1'-0"

Plate Offsets (X,Y): [2:0-2-12,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.48	Ver(LL)	-0.08	2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.28	Ver(TL)	-0.16	2-4	>506	240		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 26 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS

(lb/size) 3=154/Mechanical, 2=352/0-4-0, 4=44/Mechanical
Max Horz 2=161(load case 6)
Max Uplift 3=84(load case 6), 2=140(load case 6)
Max Grav 3=154(load case 1), 2=352(load case 1), 4=93(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-119/54
BOT CHORD 2-4=0/0

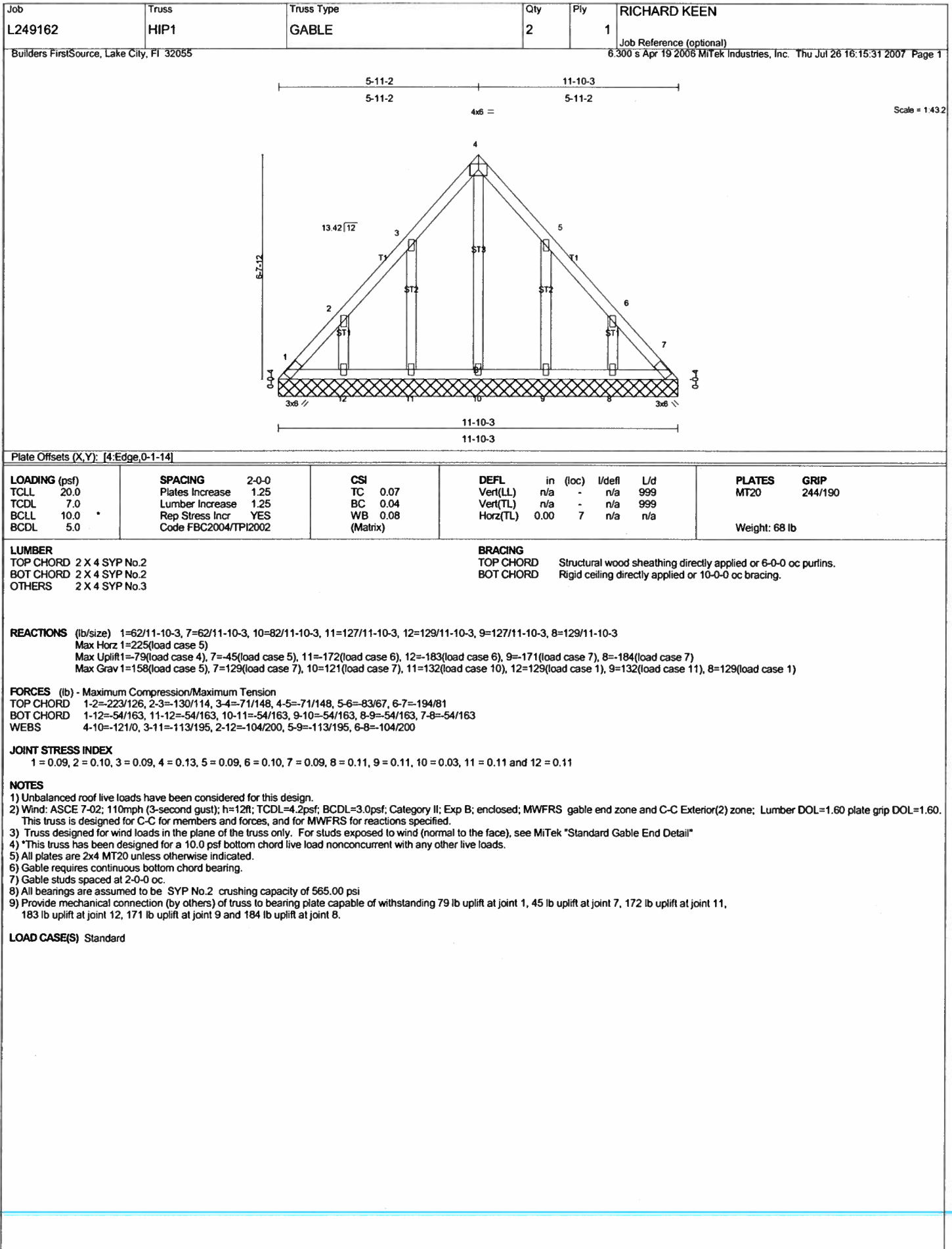
JOINT STRESS INDEX

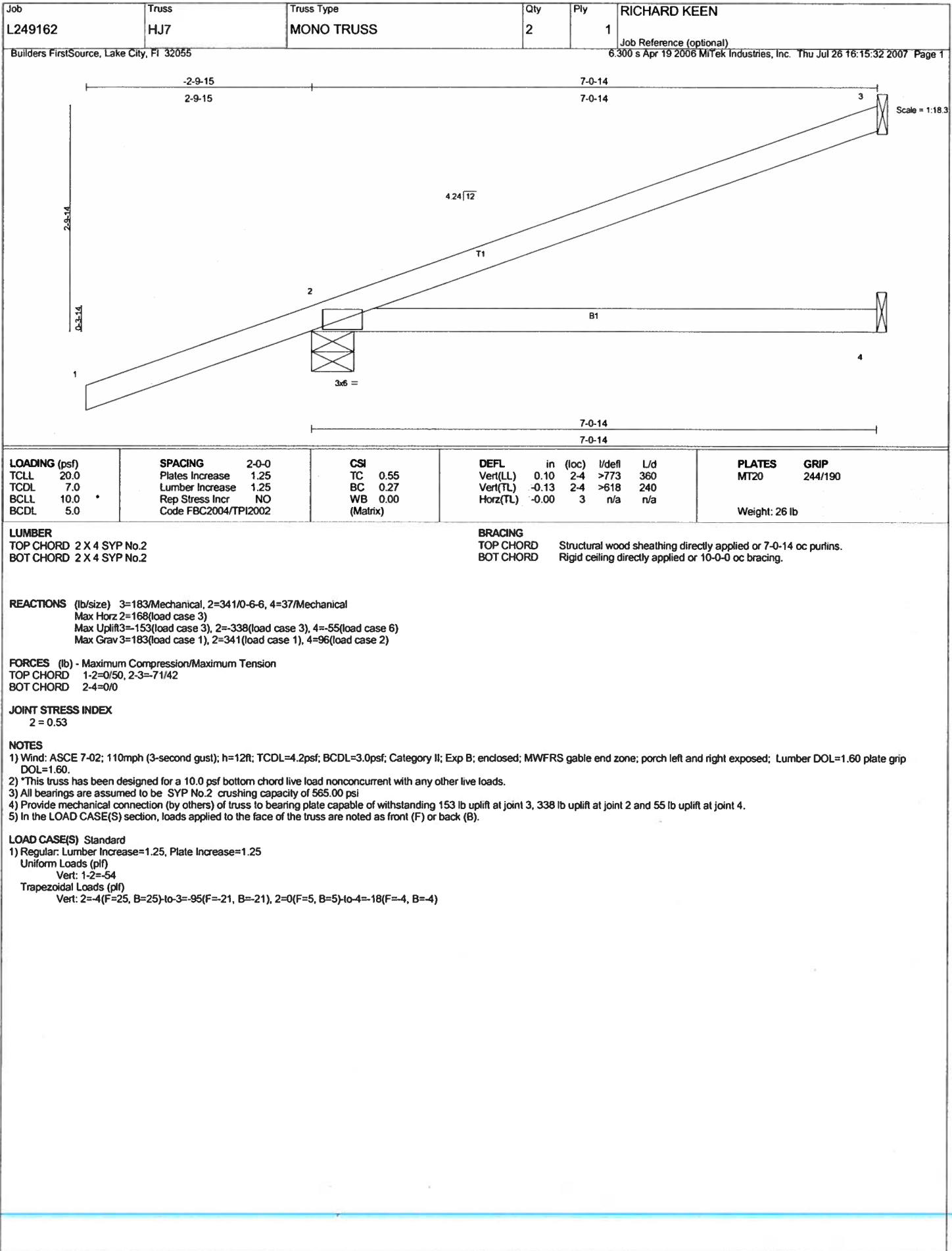
2 = 0.72

NOTES

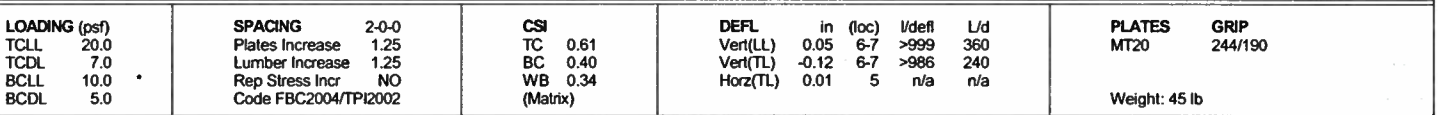
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 3 and 140 lb uplift at joint 2.

LOAD CASE(S) Standard





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REACTIONS (lb/size) 4=268/Mechanical, 2=458/0-6-6, 5=2177/Mechanical
Max Horiz 2=270(load case 3)
Max Uplift 4=232(load case 3), 2=284(load case 3), 5=61(load case 3)

JOINT STRESS INDEX
2 = 0.80, 3 = 0.16, 6 = 0.17 and 7 = 0.14

1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDF=4.2psf; BCDF=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate gnp DOL=1.60.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4, 284 lb uplift at joint 2 and 61 lb uplift at joint 5.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-4(F=25, B=25)-to-4=-134(F=40, B=40), 2=0(F=5, B=5)-to-5=-25(F=7, B=7)

Job L249162	Truss T01	Truss Type HIP	Qty 1	Ply 1	RICHARD KEEN
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 26 16:15:33 2007 Page 1

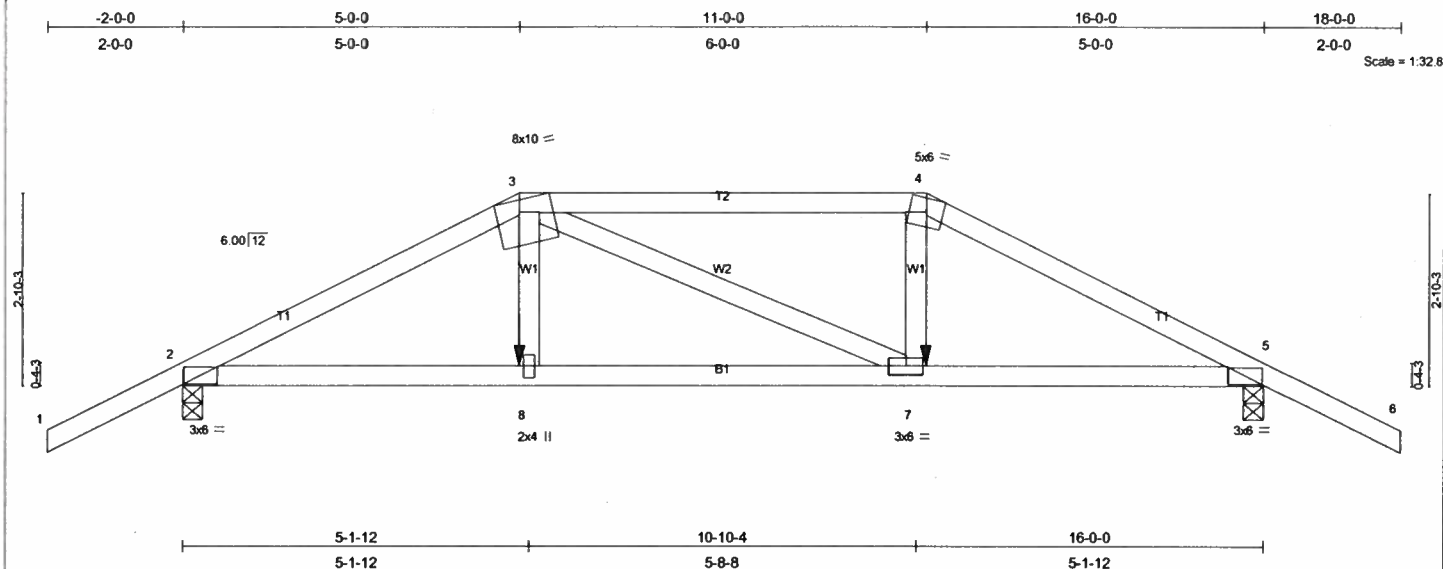


Plate Offsets (X,Y): [3:0-4:3,Edge]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.32	Vert(LL) 0.09 7-8 >999 360		
BCLL 10.0	Lumber Increase 1.25	WB 0.09	Vert(TL) -0.12 7-8 >999 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.03 5 n/a n/a		
	Code FBC2004/TPI2002			Weight: 72 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-6-15 oc bracing.

REACTIONS

(lb/size) 2=934/0-3-8, 5=934/0-3-8
Max Horz 2=-73(load case 6)
Max Uplift 2=-733(load case 5), 5=-733(load case 6)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1516/1056, 3-4=-1314/987, 4-5=-1516/1056, 5-6=0/47
BOT CHORD 2-8=910/1299, 7-8=-923/1313, 5-7=-884/1299
WEBS 3-8=-220/260, 4-7=-226/285, 3-7=-77/78

JOINT STRESS INDEX

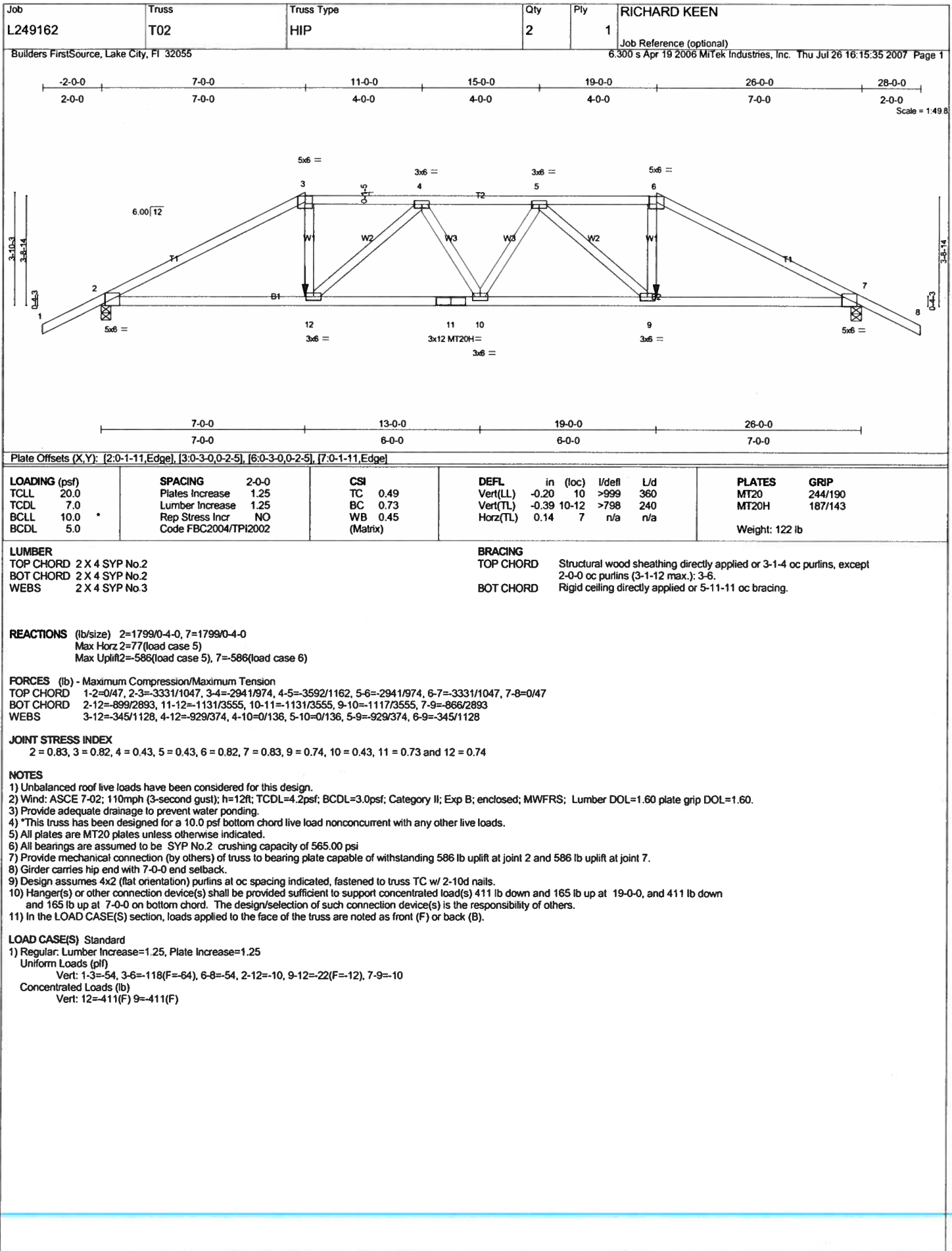
2 = 0.67, 3 = 0.57, 4 = 0.63, 5 = 0.67, 7 = 0.19 and 8 = 0.19

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
- *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 733 lb uplift at joint 2 and 733 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 187 lb down and 126 lb up at 11'-0"-0", and 187 lb down and 126 lb up at 5'-0"-0" on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-91(F=-37), 4-6=-54, 2-8=-10, 7-8=-17(F=-7), 5-7=-10
Concentrated Loads (lb)
Vert: 8=-187(F) 7=-187(F)

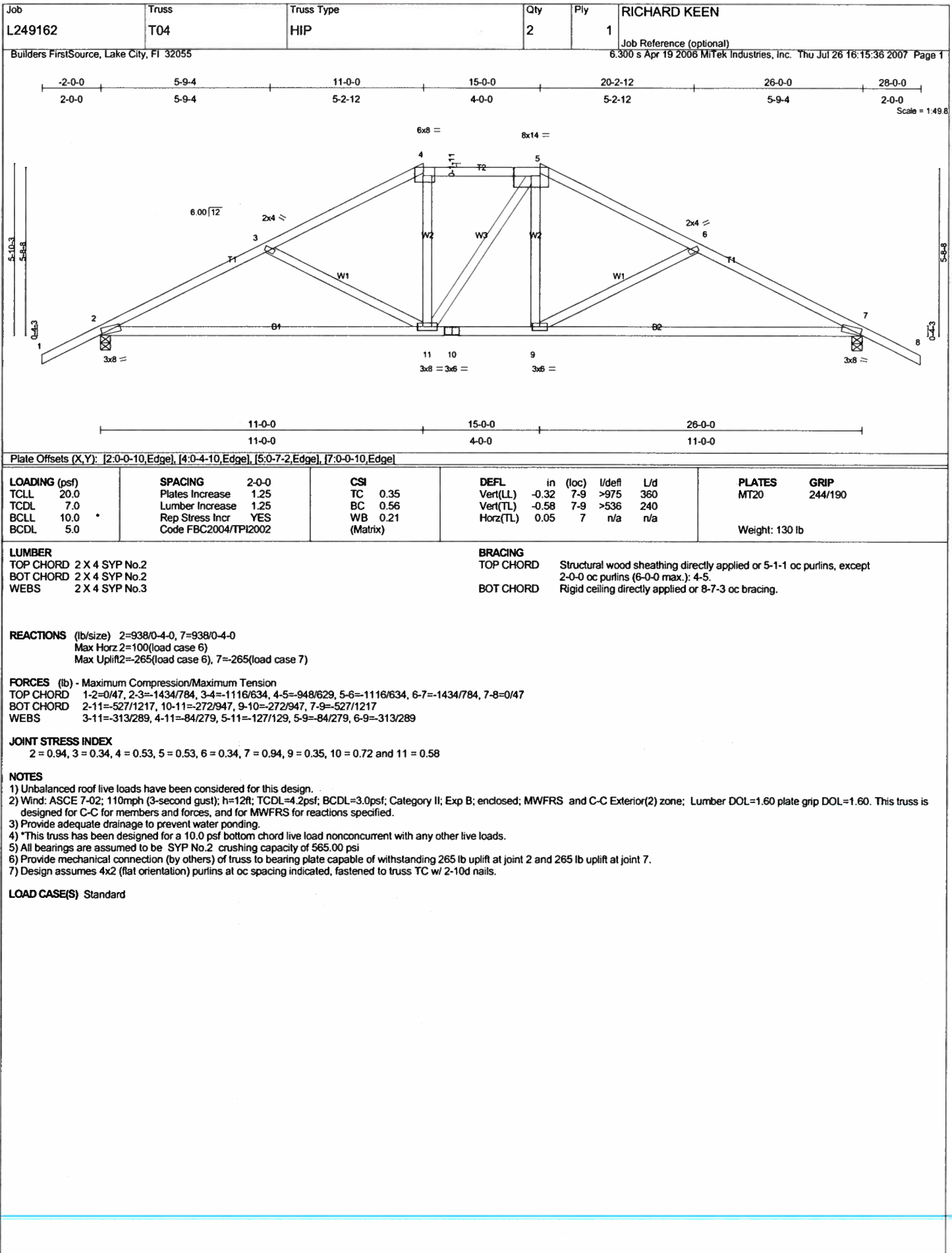


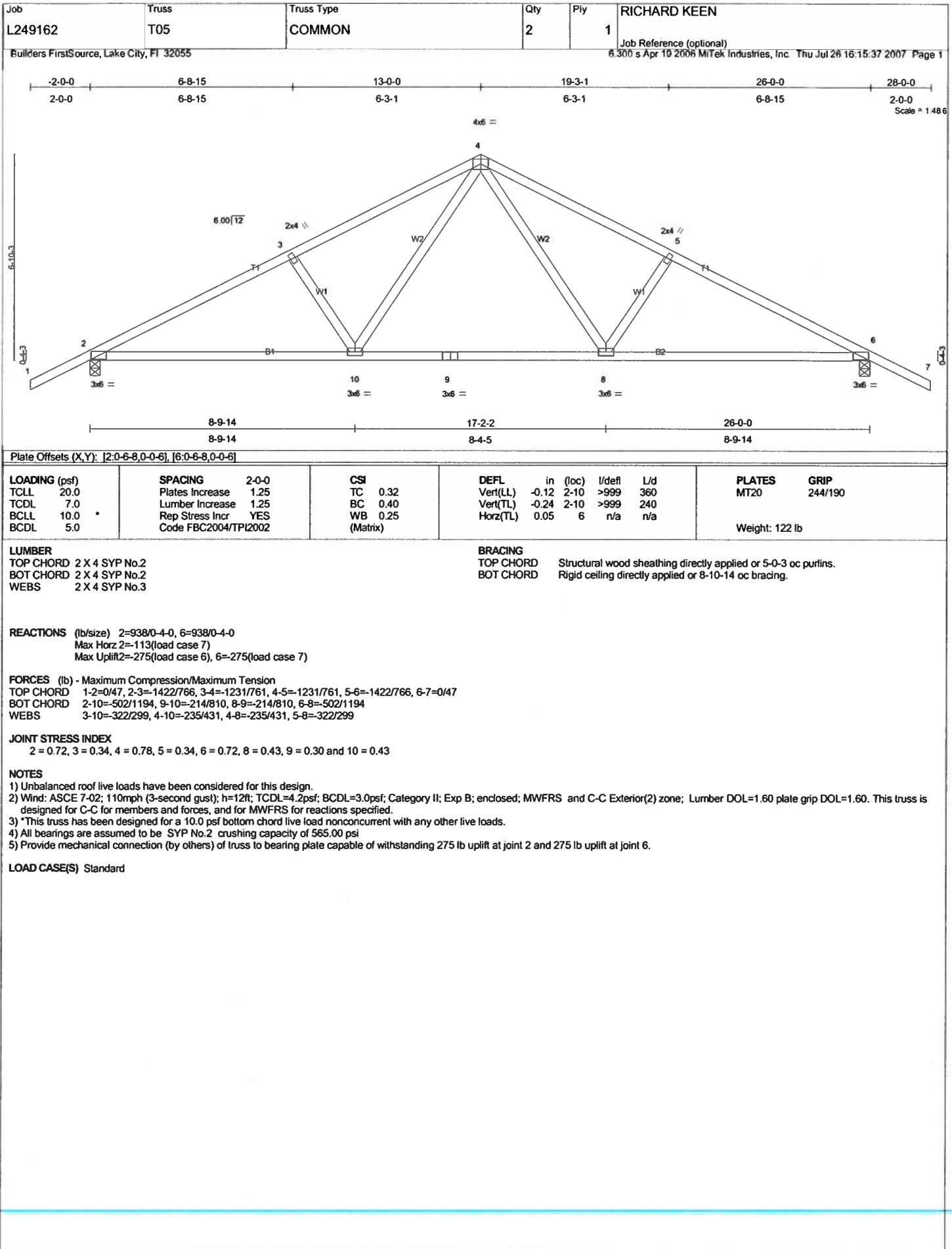
Builders FirstSource, Lake City, FL 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 26 16:15:35 2007 Page 1



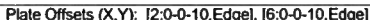
LUMBER		BRACING	
TOP CHORD	2 X 4 SYP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-10 oc purlins, except 2-0-0 oc purlins (5-5-7 max.): 4-5.
BOT CHORD	2 X 4 SYP No.2	BOT CHORD	Rigid ceiling directly applied or 8-8-3 oc bracing.
WEBS	2 X 4 SYP No.3	WEBS	T-Brace: 2 X 4 SYP No.3 - 5-11
			Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.
			Brace must cover 90% of web length.

LOAD CASE(S) Standard





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Weight: 119 lb

TOP CHORD	Structural wood sheathing directly applied or 4-10-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-7-12 oc bracing.

(lb/size) 6=816/0-4-0, 2=943/0-4-0
Max Horz 2=126(load case 6)
Max Uplift 6=-179(load case 7), 2=-275(load case 6)

b) - Maximum Compression/Maximum Tension
1-2=0/47, 2-3=-1432/783, 3-4=-1241/777, 4-5=-1260/809, 5-6=-1452/817
2-9=-595/1204, 8-9=-308/820, 7-8=-308/820, 6-7=-633/1227
3-9=-322/301, 4-9=-231/430, 4-7=-281/458, 5-7=-337/323

2 = 0.84, 3 = 0.34, 4 = 0.75, 5 = 0.34, 6 = 0.84, 7 = 0.43, 8 = 0.30 and 9 = 0.43

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); $h=12ft$; $TCDF=4.2psf$; $BCDL=3.0psf$; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 6 and 275 lb uplift at joint 2.

LOAD CASE(S) Standard



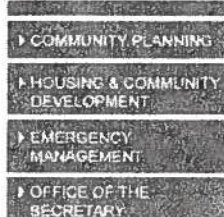
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 Application Detail



FL # FL4904-R0
Application Type New
Code Version 2004
Application Status Approved
Comments
Archived ☐

Product Manufacturer Masonite International
Address/Phone/Email One North Dale Mabry
 Suite 950
 Tampa, FL 33609
 (615) 441-4258
 sschreiber@masonite.com

Authorized Signature Steve Schreiber
 sschreiber@masonite.com

Technical Representative
Address/Phone/Email

Quality Assurance Representative
Address/Phone/Email

Category Exterior Doors
Subcategory Swinging Exterior Door Assemblies

Compliance Method Certification Mark or Listing

Certification Agency National Accreditation & Management Institute,

Referenced Standard and Year (of Standard)	Standard	Year
	ASTM E1300	2002
	ASTM E1300	1998
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994

Equivalence of Product Standards
Certified By

Sections from the Code Section 2612 HVHZ PI

Impact Resistant: Design Pressure: +/- Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. Max DP = +40.0 / -45.0. When large missile impact resistance is required, hurricane protective system is required. See installation drawing DWG-MA-FL0131-05 for additional information.		
4904.8	Wind-edge Steel Side Hinged Door Units	6'-0" Glazed U/S Door w/ or w/o Sidelites
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. Max DP = +45.0 / -40.0. When large missile impact resistance is required, hurricane protective system is required. See installation drawing DWG-MA-FL0131-05 for additional information.		Certification Agency Certificate Installation Instructions Verified By:

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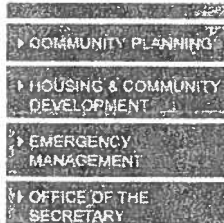
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FL # FL5465
Application Type New
Code Version 2004
Application Status Approved
Comments
Archived

Product Manufacturer Masonite International
Address/Phone/Email One North Dale Mabry
 Suite 950
 Tampa, FL 33609
 (615) 441-4258
 sschreiber@masonite.com

Authorized Signature Steve Schreiber
 sschreiber@masonite.com

Technical Representative
Address/Phone/Email

Quality Assurance Representative
Address/Phone/Email

Category Exterior Doors
Subcategory Swinging Exterior Door Assemblies

Compliance Method Certification Mark or Listing

Certification Agency National Accreditation & Management Institute,

Referenced Standard and Year (of Standard)	<u>Standard</u>	<u>Year</u>
	ASTM E1300	2002
	ASTM E1300	1998
	TAS 202	1994

Equivalence of Product Standards
Certified By

Sections from the Code Section 2612 HVHZ PI

Product Approval Method Method 1 Option A

Date Submitted 09/23/2005
 Date Validated 10/16/2005
 Date Pending FBC Approval 10/01/2005
 Date Approved 10/19/2005

Summary of Products

FL #	Model, Number or Name	Description
5465.1	Wood-edge Steel Side-Hinged Door Unit	6'-8" Glazed I/S and O/S Double Door
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 6'-0" x 6'-8" max nominal size. Max DP = +/- 50.5. When large missile impact resistance is required, hurricane protective system is required. See installation drawing DWG-MA-FL0142-05 for additional information.		Certification Agency Certificate Installation Instructions PTID 5465 I ST XX Installation.pdf Verified By:

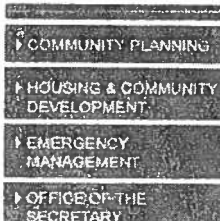
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FL #	FL1476-R2	
Application Type	Revision	
Code Version	2004	
Application Status	Approved	
Comments		
Archived	☐	
Product Manufacturer	Elk Corporation	
Address/Phone/Email	4600 Stillman Blvd. Tuscaloosa, AL 35401 (816) 350-1982 bryson.m@sbcglobal.net	
Authorized Signature	Daniel DeJarnette daniel.dejarnette@elkcorp.com	
Technical Representative	Daniel DeJarnette	
Address/Phone/Email	4600 Stillman Blvd Tuscaloosa, AL 35401 (205) 342-0298 daniel.dejarnette@elkcorp.com	
Quality Assurance Representative		
Address/Phone/Email		
Category	Roofing	
Subcategory	Asphalt Shingles	
Compliance Method	Certification Mark or Listing	
Certification Agency	Underwriters Laboratories Inc.	
Referenced Standard and Year (of Standard)	Standard ASTM D3462 TAS 107	Year 2001 1995
Equivalence of Product Standards Certified By		
Product Approval Method	Method 1 Option A	

Date Submitted 09/20/2005
 Date Validated 09/27/2005
 Date Pending FBC Approval 09/29/2005
 Date Approved 10/11/2005

Summary of Products		
FL #	Model, Number or Name	Description
1476.1	Elk Prestique Shingles	Laminated Asphalt Shingles
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: 1) All FBC sections apply except for those pertaining to Miami - Dade and Broward Counties 2) Refer to NOA # 0500706.07 for use in Dade and Broward Counties		Certification Agency Certificate Installation Instructions <u>PTID 1476 R2 I Specs Tusc 0604.pdf</u> <u>PTID 1476 R2 I UL Prestique Letter.pdf</u> Verified By:

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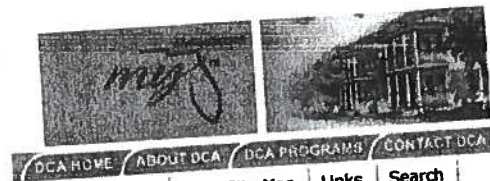
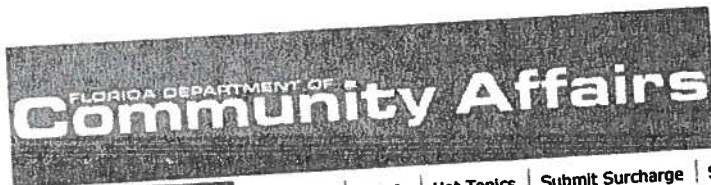
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- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

FL #	FL7052
Application Type	New
Code Version	2004
Application Status	Approved
Comments	
Archived	
Product Manufacturer	Alenco Windows
Address/Phone/Email	615 Carson Street Bryan, TX 77801 (979) 777-9105 info@ptc-corp.com
Authorized Signature	Martin Koppers info@ptc-corp.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Windows
Subcategory	Mullions
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☒ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Eric S. Nielsen
Florida License	PE-41323
Quality Assurance Entity	National Accreditation & Management Institute,
Validated By	Rene J.Quiroga, PE
Certificate of Independence	FL7052_R0_COI_COI 3700 4700 Mullions.pdf
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	
Sections from the Code	1714.5.5

Product Approval Method Method 2 Option B

Date Submitted 06/22/2006
 Date Validated 08/04/2006
 Date Pending FBC Approval 08/09/2006
 Date Approved 08/22/2006

Summary of Products		
FL #	Model, Number or Name	Description
7052.1	3700	Horizontal Fin Tube Aluminum Mullion. HP Mulls.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Performance Varies. See attached design pressures on Drawing # ALEN0004 REV A		Installation Instructions FL7052_R0_II_ALEN0004.pdf Verified By: Eric S. Nielsen PE# 41323 Evaluation Reports FL7052_R0_AE_343A-R1.pdf FL7052_R0_AE_343-R1.pdf
7052.2	3700	Vertical Fin Tube Aluminum Mullion. Standard and HP Mulls.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Performance Varies. See attached design pressures on Drawing # ALEN0003 REV A		Installation Instructions FL7052_R0_II_ALEN0003.pdf Verified By: Eric S. Nielsen PE# 41323 Evaluation Reports FL7052_R0_AE_346-R1.pdf FL7052_R0_AE_347-R1.pdf
7052.3	3700	Horizontal Flange Tube Aluminum Mullion. HP Mulls.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Performance Varies. See attached design pressures on Drawing # ALEN0006 REV A		Installation Instructions FL7052_R0_II_ALEN0006.pdf Verified By: Eric S. Nielsen PE# 41323 Evaluation Reports FL7052_R0_AE_344A-R1.pdf FL7052_R0_AE_344-R1.pdf
7052.4	3700	Vertical Flange Tube Aluminum Mullion. Standard and HP Mulls.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Performance Varies. See attached design pressures on Drawing # ALEN0005 REV A		Installation Instructions FL7052_R0_II_ALEN0005.pdf Verified By: Eric S. Nielsen PE# 41323 Evaluation Reports FL7052_R0_AE_349-R1.pdf FL7052_R0_AE_350-R1.pdf
7052.5	3700	Horizontal Fin Tube Aluminum Mullion. Standard Mulls.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Performance Varies. See attached design pressures on Drawing # ALEN0013 REV A		Installation Instructions FL7052_R0_II_ALEN0013.pdf Verified By: Eric S. Nielsen PE# 41323 Evaluation Reports FL7052_R0_AE_348A-R1.pdf FL7052_R0_AE_348-R1.pdf
7052.6	3700	Horizontal Flange Tube Aluminum Mullion. Standard Mulls.
Limits of Use Approved for use in HVHZ: No		Installation Instructions FL7052_R0_II_ALEN0014.pdf

Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Performance Varies. See attached design pressures on Drawing # ALEN0014 REV A		Verified By: Eric S. Nielsen PE# 41323 Evaluation Reports FL7052_R0_AE_345A-R1.pdf FL7052_R0_AE_345-R1.pdf
7052.7	4700	Vertical Tube Aluminum Mullion. Twinning Mulls.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Performance Varies. See attached design pressures on Drawing # ALEN0009		Installation Instructions FL7052_R0_II_ALEN0009.pdf Verified By: Eric S. Nielsen PE# 41323 Evaluation Reports FL7052_R0_AE_4700-1.pdf
7052.8	4700	Vertical Flange Tube Aluminum Mullion. Standard Mulls.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Performance Varies. See attached design pressures on Drawing # ALEN0007		Installation Instructions FL7052_R0_II_ALEN0007.pdf Verified By: Eric S. Nielsen PE# 41323 Evaluation Reports FL7052_R0_AE_4700-2.pdf
7052.9	4700	Horizontal Fin Tube Aluminum Mullion. Standard Mulls.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Performance Varies. See attached design pressures on Drawing # ALEN0012		Installation Instructions FL7052_R0_II_ALEN0012.pdf Verified By: Eric S. Nielsen PE# 41323 Evaluation Reports FL7052_R0_AE_4700-4.pdf FL7052_R0_AE_4700-5.pdf
7052.10	4700	Horizontal Tube Aluminum Mullion. Stack Up Mulls.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Performance Varies. See attached design pressures on Drawing # ALEN0010		Installation Instructions FL7052_R0_II_ALEN0010.pdf Verified By: Eric S. Nielsen PE# 41323 Evaluation Reports FL7052_R0_AE_4700-8.pdf
7052.11	4700	Horizontal Flange Tube Aluminum Mullion. Standard Mulls.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Performance Varies. See attached design pressures on Drawing # ALEN0008		Installation Instructions FL7052_R0_II_ALEN0008.pdf Verified By: Eric S. Nielsen PE#41323 Evaluation Reports FL7052_R0_AE_4700-6.pdf FL7052_R0_AE_4700-7.pdf

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Residential System Sizing Calculation

Summary

Dunken Res.
Gum Swamp Road
, FL

Project Title:
708299KeenRichardDunkenRes.

Class 3 Rating
Registration No. 0
Climate: North

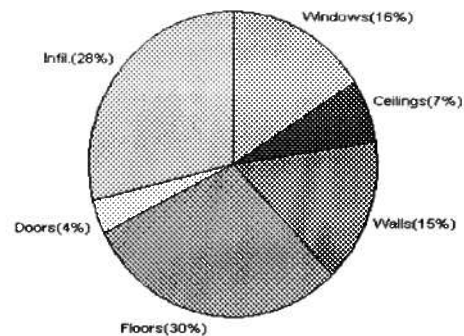
8/30/2007

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	20873 Btuh	Total cooling load calculation	16381 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	115.0 24000	Sensible (SHR = 0.50)	96.9 12000
Heat Pump + Auxiliary(0.0kW)	115.0 24000	Latent	300.5 12000
		Total (Electric Heat Pump)	146.5 24000

WINTER CALCULATIONS

Winter Heating Load (for 1170 sqft)

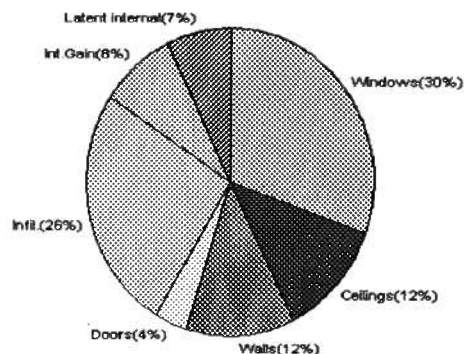
Load component		Load	
Window total	104 sqft	3348	Btuh
Wall total	972 sqft	3192	Btuh
Door total	60 sqft	777	Btuh
Ceiling total	1202 sqft	1416	Btuh
Floor total	142 sqft	6200	Btuh
Infiltration	147 cfm	5940	Btuh
Duct loss		0	Btuh
Subtotal		20873	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		20873	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1170 sqft)

Load component		Load	
Window total	104 sqft	4979	Btuh
Wall total	972 sqft	2027	Btuh
Door total	60 sqft	588	Btuh
Ceiling total	1202 sqft	1991	Btuh
Floor total		0	Btuh
Infiltration	76 cfm	1423	Btuh
Internal gain		1380	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		12388	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		2794	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		3994	Btuh
TOTAL HEAT GAIN		16381	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY:

DATE: 8/30/07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Dunken Res.
Gum Swamp Road
, FL

Project Title:
708299KeenRichardDunkenRes.

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

8/30/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
2	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
3	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
4	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
5	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
Window Total			104(sqft)			3348 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	972		3.3	3192 Btuh
Wall Total			972			3192 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Exterior		40		12.9	518 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1202		1.2	1416 Btuh
Ceiling Total			1202			1416Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	142.0	ft(p)	43.7	6200 Btuh
Floor Total			142			6200 Btuh
Zone Envelope Subtotal:						14933 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.94	9360	146.6		5940 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					20873 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	20873 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	20873 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Dunken Res.
Gum Swamp Road
, FL

Project Title:
708299KeenRichardDunkenRes.

Class 3 Rating
Registration No. 0
Climate: North



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)

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System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Dunken Res.
Gum Swamp Road
, FL

Project Title:
708299KeenRichardDunkenRes.

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

8/30/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
2	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
3	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
4	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
5	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
Window Total			104(sqft)			3348 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	972		3.3	3192 Btuh
Wall Total			972			3192 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Exterior		40		12.9	518 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1202		1.2	1416 Btuh
Ceiling Total			1202			1416Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	142.0 ft(p)		43.7	6200 Btuh
Floor Total			142			6200 Btuh
Zone Envelope Subtotal:						14933 Btuh
Infiltration	Type	ACH	X	Zone Volume	CFM=	Load
	Natural	0.94		9360	146.6	5940 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					20873 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	20873 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	20873 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Dunken Res.
Gum Swamp Road
, FL

Project Title:
708299KeenRichardDunkenRes.

Class 3 Rating
Registration No. 0
Climate: North

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

Dunken Res.
Gum Swamp Road
, FL

Project Title:
708299KeenRichardDunkenRes.

Class 3 Rating
Registration No. 0
Climate: North

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

8/30/2007

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468	Btuh
5	2, Clear, 0.87, None,N,N	SE	6.25f	5.5ft.	30.0	30.0	0.0	29	63	869	Btuh
Window Total					104 (sqft)					4979 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			972.0			2.1		2027 Btuh	
Wall Total						972 (sqft)					2027 Btuh
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				20.0			9.8		196 Btuh	
2	Insulated - Exterior				40.0			9.8		392 Btuh	
Door Total						60 (sqft)					588 Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1202.0			1.7		1991 Btuh	
Ceiling Total						1202 (sqft)					1991 Btuh
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			142 (ft(p))			0.0		0 Btuh	
Floor Total						142.0 (sqft)					0 Btuh
	Zone Envelope Subtotal:									9585 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.49			9360			76.4		1423 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			0		1380 Btuh		
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									12388 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Dunken Res.
Gum Swamp Road
, FL

Project Title:
708299KeenRichardDunkenRes.

Class 3 Rating
Registration No. 0
Climate: North

8/30/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	12388 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	12388 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	12388 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2794 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3994 Btuh
	TOTAL GAIN	16381 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

Dunken Res.
Gum Swamp Road
, FL

Project Title:
708299KeenRichardDunkenRes.

Class 3 Rating
Registration No. 0
Climate: North

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

8/30/2007

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468	Btuh
5	2, Clear, 0.87, None,N,N	SE	6.25f	5.5ft.	30.0	30.0	0.0	29	63	869	Btuh
Window Total					104 (sqft)					4979 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			972.0			2.1		2027 Btuh	
Wall Total						972 (sqft)					2027 Btuh
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				20.0			9.8		196 Btuh	
2	Insulated - Exterior				40.0			9.8		392 Btuh	
Door Total						60 (sqft)					588 Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1202.0			1.7		1991 Btuh	
Ceiling Total						1202 (sqft)					1991 Btuh
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			142 (ft(p))			0.0		0 Btuh	
Floor Total						142.0 (sqft)					0 Btuh
	Zone Envelope Subtotal:									9585 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.49			9360			76.4		1423 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			0		1380 Btuh		
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									12388 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Dunken Res.
Gum Swamp Road
, FL

Project Title:
708299KeenRichardDunkenRes.

Class 3 Rating
Registration No. 0
Climate: North

8/30/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	12388 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	12388 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	12388 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2794 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3994 Btuh
	TOTAL GAIN	16381 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

Dunken Res.
Gum Swamp Road
, FL

Project Title:
708299KeenRichardDunkenRes.

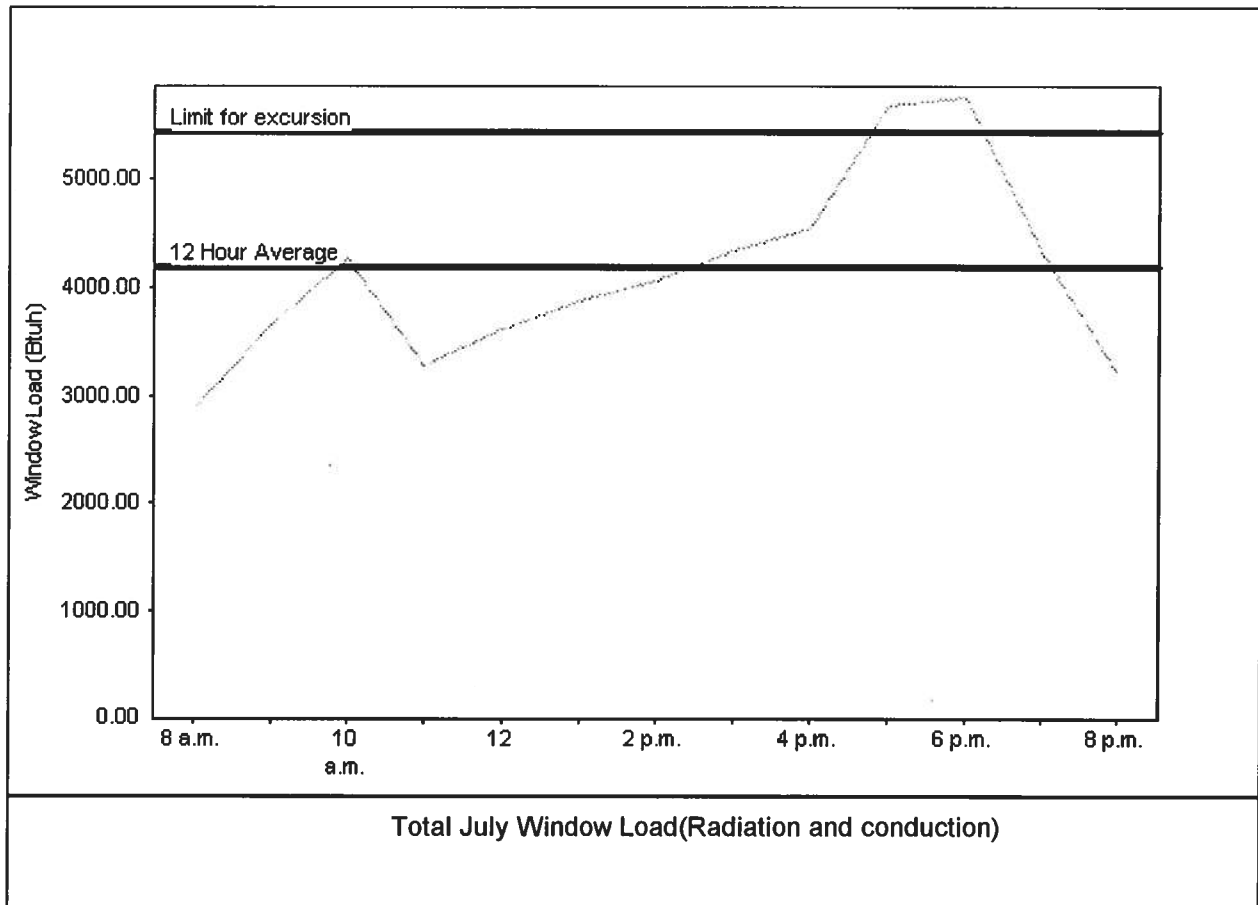
Class 3 Rating
Registration No. 0
Climate: North

8/30/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	4180 Btuh
Summer setpoint	75 F	Peak window load for July	5741 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	5434 Btuh
Latitude	29 North	Window excursion (July)	307 Btuh

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____



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

COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 13-3S-17-04948-008

Building permit No. 000026250

Use Classification SFD/UTILITY

Fire: 70.62

Permit Holder JAMES H. JOHNSTON

Waste: 184.25

Owner of Building JUANNA L. DUNCAN

Total: 254.87

Location: 4687 NE GUM SWAMP RD, LAKE CITY, FL

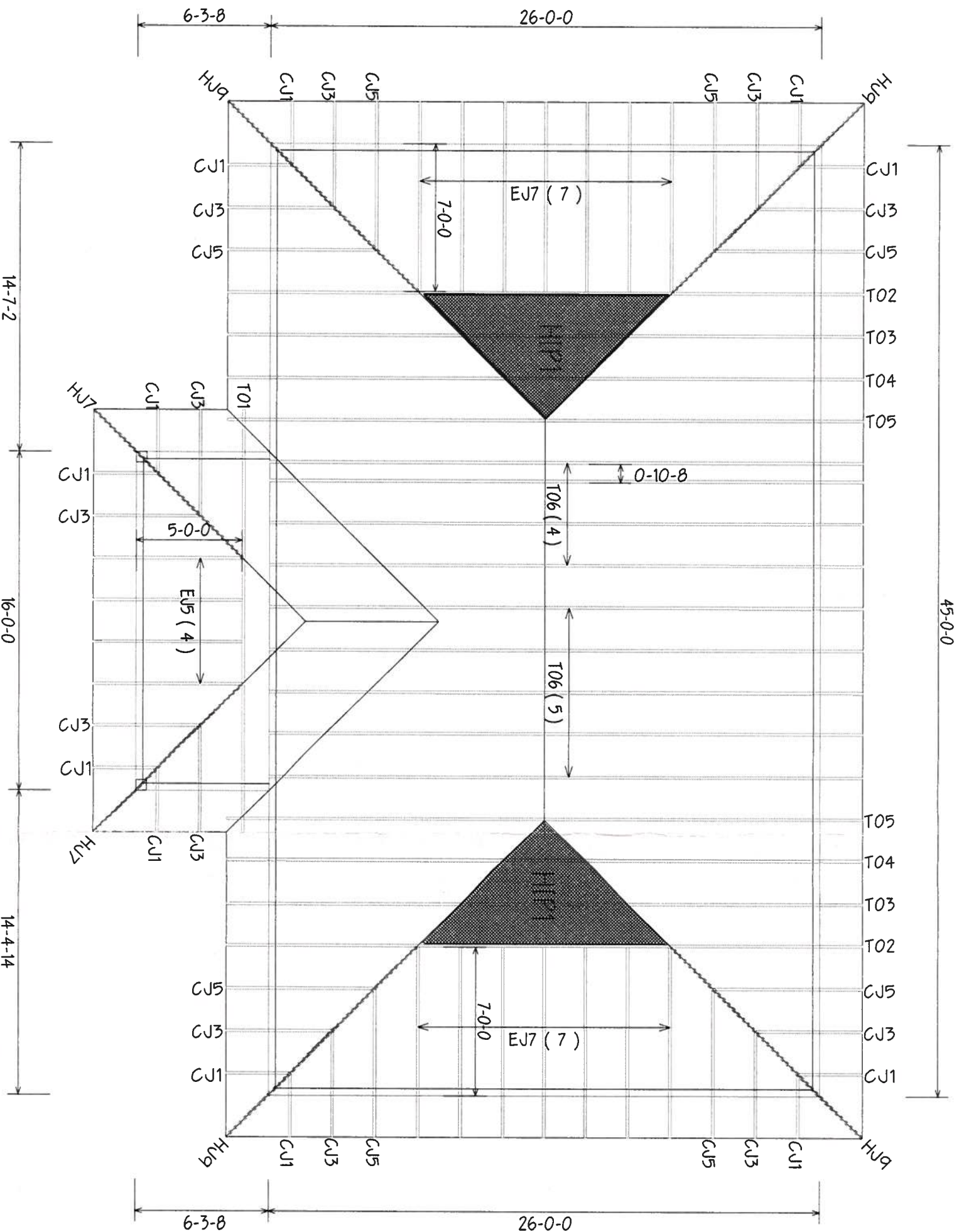
Date: 11/20/2007



Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

6/12 PITCH - 2'0" O/H



BEARING HEIGHT SCHEDULE

8'-0"

NOTES:

- 1) REFER TO HUB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL VIDS FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' O.C. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACE/MENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) 5/12 TRUSSES MUST BE INSTALLED WITH THE TOP BEAMS UP.
- 7) ALL ROOF TRUSSES HANGERS TO BE SAMPSON H100S UNLESS OTHERWISE NOTED. ALL FLOOR TRUSSES HANGERS TO BE SAMPSON H14422 UNLESS OTHERWISE NOTED.
- 8) BEAM/HEAD/JOIST, (H20) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VIDS ALL PERIODS ARCHITECTURAL OR OTHER TRUSS LAYOUTS, REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Expenditure Date: _____

Approved By: _____ Date: _____



Bunnell

PHONE: 904-437-3349 FAX: 904-437-3994

Jacksonville

PHONE: 904-772-6100 FAX: 904-772-1973

Lake City

PHONE: 904-755-6994 FAX: 904-755-7973

Sanford

PHONE: 407-322-0059 FAX: 407-322-9553

RICHARD KEEN

4771 NW GUM SWAMP RD

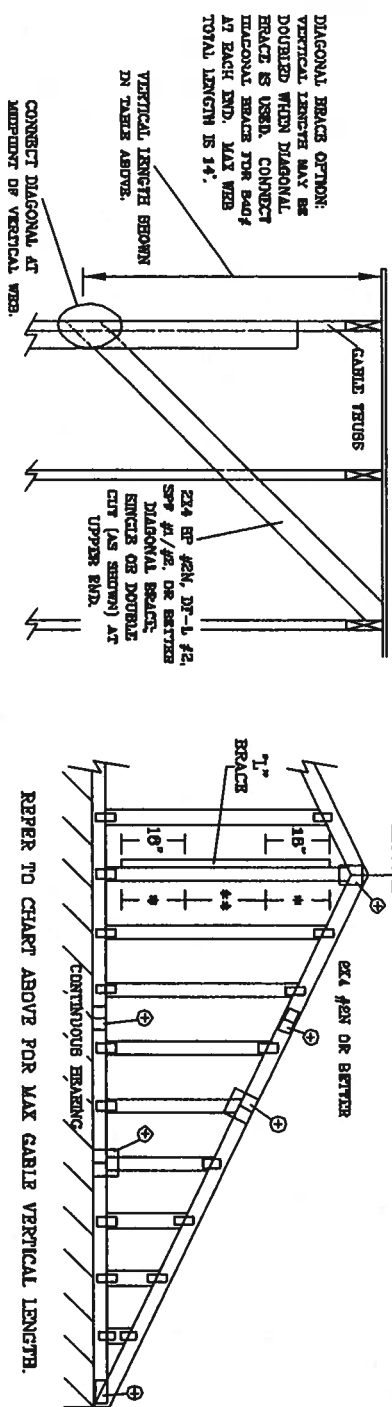
CUSTOM

DATE: 7-26-07

KL.H.

L24962

MAX GABLE VERTICAL LENGTH		BRACE		NO BRACES		(1) 1X4 7" BRACE *		(1) 2X4 7" BRACE *		(2) 2X4 7" BRACE **		(1) 2X6 7" BRACE *		(2) 2X8 7" BRACE **	
CABLE VERTICAL SPACING	SPECIES	GRADE	BRACE	NO BRACES	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A
12" O.C.	SPF	#1 / #2	STANDARD	STUD	3' 4"	3' 3"	4' 10"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"
					3' 3"	3' 3"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"
					3' 3"	3' 3"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"
					3' 3"	3' 3"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"	4' 11"
16" O.C.	SPF	#1 / #2	STANDARD	STUD	3' 10"	3' 10"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"
					3' 10"	3' 10"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"
					3' 10"	3' 10"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"
					3' 10"	3' 10"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"
24" O.C.	SPF	#1 / #2	STANDARD	STUD	3' 10"	3' 10"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"
					3' 10"	3' 10"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"
					3' 10"	3' 10"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"
					3' 10"	3' 10"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"



BRACING GROUP SPECIES AND GRADES:	
GROUP A:	SPF #1 / #2
	STUD #3
GROUP B:	SPF #1 / #2
	STUD #3

CABLE TRUSS DETAIL NOTES:	
LIVE LOAD DEFLECTION CRITERIA IS 1/240.	
PROVIDE VERTICAL CONNECTIONS FOR 100 PSF OVER CONTINUOUS BRACING (6 PSF TO DEAD LOAD).	
CABLE END SUPPORTS LOAD FROM 4' 0" OUTDOORS WITH 2' 0" OVERHANG, OR 12" PLTWOOD OVERHANG.	
ATTACH EACH 7" BRACE WITH 104 NAILS.	
* FOR (1) 7" BRACE, SPACE NAILS AT 8" O.C.	
* FOR (2) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (3) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (4) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (5) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (6) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (7) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (8) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (9) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (10) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (11) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (12) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (13) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (14) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (15) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (16) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (17) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (18) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (19) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (20) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (21) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (22) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (23) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (24) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (25) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (26) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (27) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (28) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (29) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (30) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (31) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (32) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (33) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (34) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (35) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (36) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (37) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (38) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (39) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (40) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (41) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (42) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (43) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (44) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (45) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (46) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (47) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (48) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (49) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (50) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (51) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (52) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (53) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (54) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (55) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (56) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (57) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (58) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (59) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (60) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (61) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (62) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (63) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (64) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (65) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (66) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (67) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (68) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (69) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (70) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (71) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (72) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (73) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (74) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (75) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (76) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (77) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (78) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (79) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (80) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (81) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (82) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (83) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (84) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (85) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (86) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (87) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (88) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (89) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (90) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (91) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (92) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (93) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (94) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (95) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (96) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (97) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (98) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (99) 7" BRACE, SPACE NAILS AT 3" O.C.	
* FOR (100) 7" BRACE, SPACE NAILS AT 3" O.C.	

DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR EACH 840' AT EACH END. MAX WED TOTAL LENGTH IS 14'.

VERTICAL LENGTH BROWN IN TABLE ABOVE.

CONNECT DIAGONAL AT MIDPOINT OF VERTICAL WED.

REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 BR 4th AVENUE
DELRAY BEACH, FL 33444-2161

STATE OF FLORIDA

ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

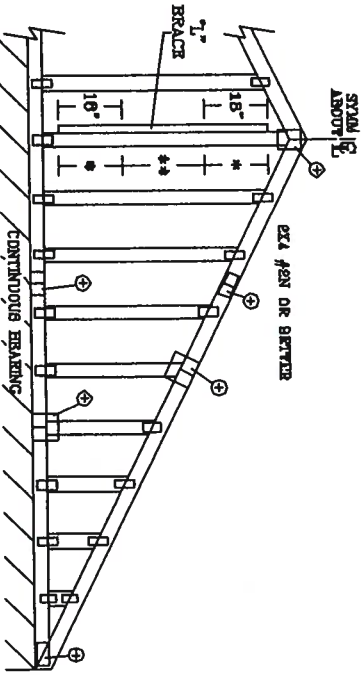
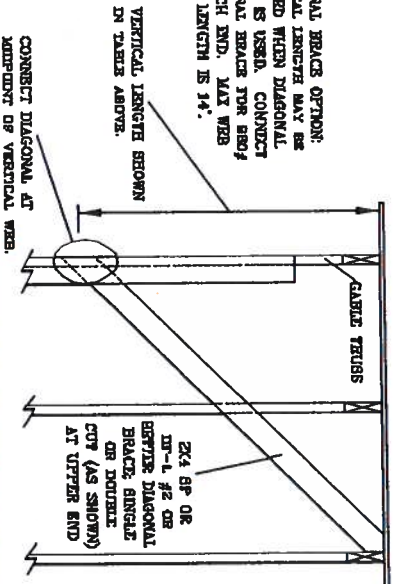
ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

ASCE 7-02: 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, 1 = 1.00, EXPOSURE C

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



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:			
GROUP A:		GROUP B:	
SPF	HF	SPF	HF
#1 / #2	#3	#1 / #2	#3
STUD	STUD	STUD	STUD
STANDARD	STANDARD	STANDARD	STANDARD

CABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.
 PROVIDE DETAIL CONNECTIONS FOR 180 PSF OVER CONTINUOUS BEARING (6 PSF PER BOARD LOAD).
 GABLE END BUTT JOINTS LOAD FROM 4' 0" OUTLEAKERS WITH 2' 0" OVERHANG, OR 12' PLYWOOD OVERHANG.
 ATTACH EACH 7" BRACE WITH 104 NAILS.
 * FOR (1) 7" BRACE, SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
 ** FOR (2) 7" BRACES, SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.
 7" BRACING MUST BE A MINIMUM OF 60% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES			
VERTICAL LENGTH	NO STUDS	2X4	2X6
LESS THAN 4' 0"	1X4 OR 2X3		
GREATER THAN 4' 0", BUT LESS THAN 11' 6"			
GREATER THAN 11' 6"			

REMARKS: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, DESTROYING AND REPAIRING. REFER TO BEST PRACTICES FOR GABLE TRUSS CONSTRUCTION, PUBLISHED BY THE CROSS LAMINATED TIMBER INSTITUTE, 383 DUNFORD DR., SUITE 200, HANOVER, VA 22919 AND WITH REGARD TO DESIGNING OF ANCHORS, 6300 ENTERPRISE LN., WESTON, VA 22797 FOR SPECIAL PLATE DESIGN. THESE FUNCTIONING, UNLESS OTHERWISE INDICATED, ARE TO BE USED AS SHOWN. ALL PLATE ATTACHED STRUCTURAL PANELS AND BRITISH COLUMBIA HAVE A PERMANENT ATTACHED RING COLLAR.

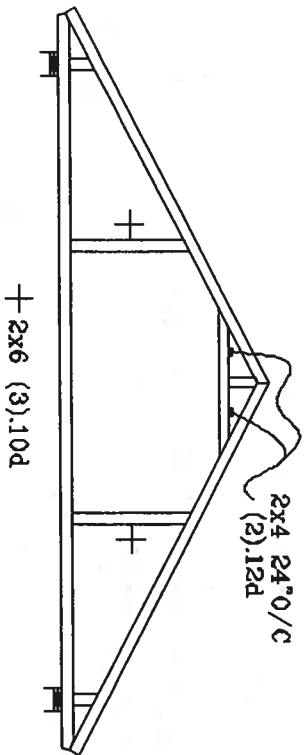
JULIUS LEE'S
 CONSULTING ENGINEERS P.A.
 1465 9TH AVE. N.W.
 DEERFIELD BEACH, FL 33442-2011

No. 34869
 STATE OF FLORIDA

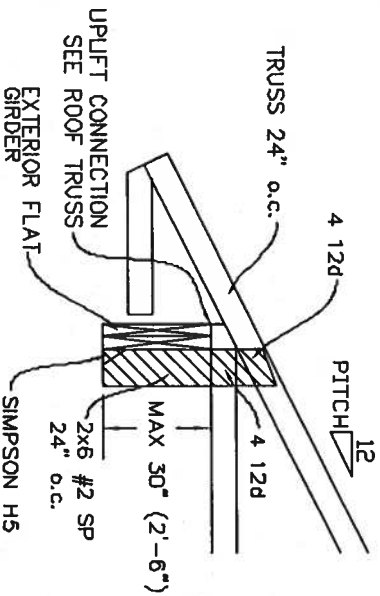
MAX. TOT. LD. 60 PSF
 MAX. SPACING 24.0"

REF ASCE 7-02: GABRIEL
 DATE 11/26/03
 DWG. DATE 5TH GABRIEL 30' 2' 30"
 -ENG

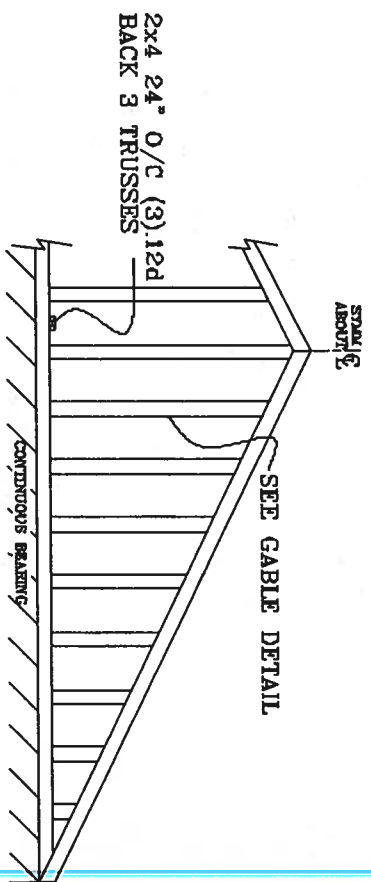
TYPICAL ATTIC TRUSS BRACING



TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

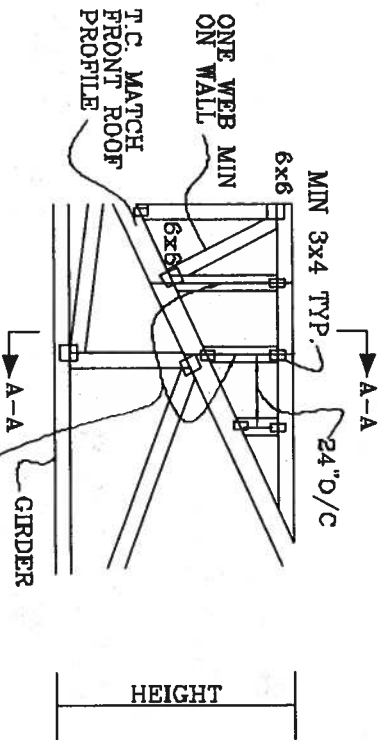


GABLE END TRUSS DETAIL



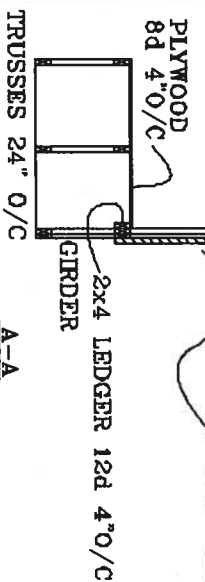
MINIMUM BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR BOB

TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



SEE ROOF TRUSSES FOR UPLIFT
ROOF 24" o/c

SEE GABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL



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TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.
TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

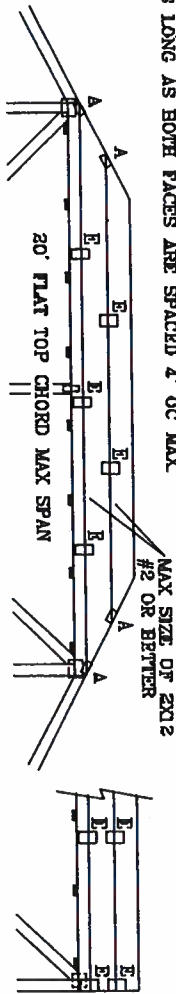
ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

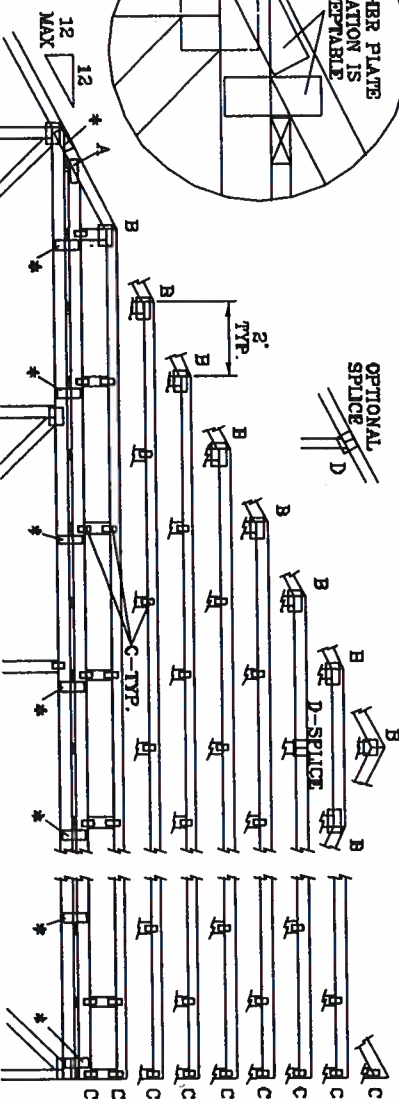
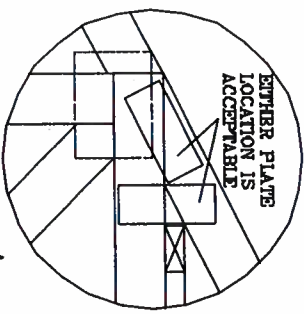
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

110 MPH WIND, 30' MEAN HGT, ASCE 7-93, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST
CAT 1, EXP C, WIND TC DL=6 PSF, WIND BC DL=6 PSF
110 MPH WIND, 30' MEAN HGT, SBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF
WIND TC DL=6 PSF, WIND BC DL=6 PSF
FRONT FACE (B*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX

130 MPH WIND, 30' MEAN HGT, ASCE 7-98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT 1, EXP. C, WIND TC DL=6 PSF, WIND BC DL=6 PSF



OPTIONAL
SPLICE D



*ATTACH PIGGYBACK WITH 3X8 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.

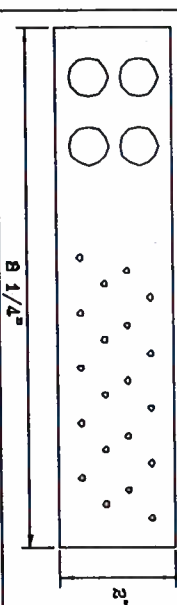
NOTES: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO EAST 1-800 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 280 FLORENCE DR., SUITE 200, WASHINGTON, VA 22799 AND THE TRUSS BOARD OF AMERICA, 6310 DIVERDRE LN, HANOVER, VA 22760. ALL TRUSSES MUST BE PROPERLY BRACED. THESE FUNCTIONAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED BRIDG CAPPING.

JOINT TYPE	SPANS UP TO		
	30'	34'	38'
A	2X4	2.5X4	2.6X4
B	4X6	5X6	6X6
C	1.5X3	1.5X4	1.5X4
D	5X4	5X5	6X6
E	4X6 OR 3X8 TRUSS AT 4' OC, ROTATED VERTICALLY		

ATTACH TRUSS PLATES WITH (8) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLT. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRUSS INFORMATION.

WEB LENGTH	WEB BRACING CHART
0' TO 7'9"	NO BRACING
7'9" TO 10'	1X4 BRACE, SAME GRADE, SPECIES AS WEB MEMBER OR BETTER, AND BOX LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4' OC.
10' TO 14'	2X4 "I" BRACE, SAME GRADE, SPECIES AS WEB MEMBER OR BETTER, AND BOX LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4' OC.

* PIGGYBACK SPECIAL PLATE
ATTACH TEETH TO THE PIGGYBACK AT THE TRUE OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLT. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 647.045

JULIUS LEE'S
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ORLANDO BRIDGE, FL 32811-2161

MAX LOADING

55 PSF AT
1.33 DUR. FAC.

50 PSF AT
1.25 DUR. FAC.

47 PSF AT
1.15 DUR. FAC.

SPACING 24.0"

REF PIGGYBACK

DATE 11/26/03

DRWG/MTK STD PIGGY

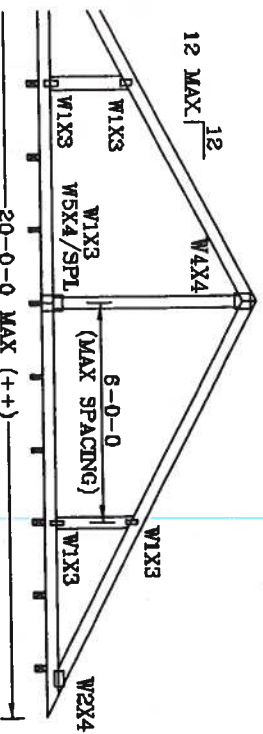
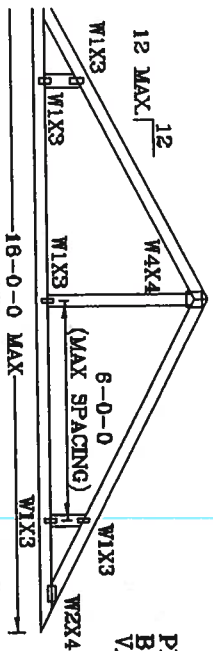
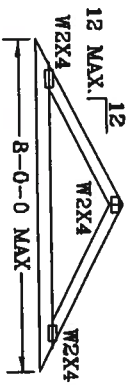
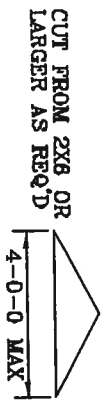
-ENG JL

No. 34886
STATE OF FLORIDA

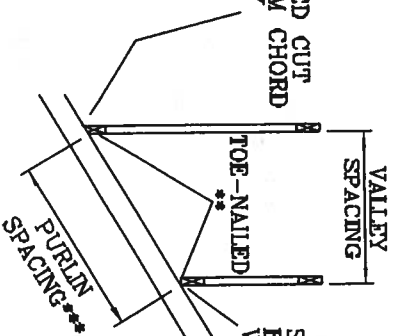
VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

- * 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).
- ** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:
(2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR
SBC 110 MPH, ASCE 7-93 110 MPH WIND OR (3) 16d FOR
ASCE 7-98 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED
BUILDING, EXP. C. RESIDENTIAL WIND TC DL=5 PSF.

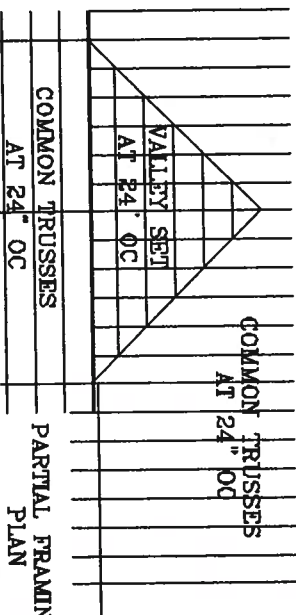


SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.

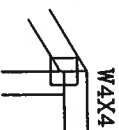


SQUARE CUT
BOTTOM CHORD
VALLEY

*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS
BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES
NOT EXCEED 12'0".
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



OPTIONAL STUB
END DETAIL
OPTIONAL HIP
JOINT DETAIL



UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80%
LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED
WITH 8d BOX (0.113" X 2.6") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING,
EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS
INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON
ENGINEERS' SEALED DESIGN.

REVISIONS: TRUSSES REMAIN EXISTING CASE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND
BRACING. REFER TO SET 1-22 BUILDING DEPARTMENT SAFETY DEPARTMENT, FURNISHED BY THE TRUSS
PLATE MANUFACTURE, 5800 DOWNSIDE DR., SUITE 200, WOODBRIDGE, VA. 22191, AND THE TRUSS
OF AMERICA, 6300 ENTERPRISE LN, HANSON, VI 23709, FOR SAFETY PRACTICES FOR THE PROPOSED
TRUSS FUNCTIONS. UNLESS OTHERWISE INDICATED, THE DESIGN SHALL BE BASED ON THE FOLLOWING
STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIBBON DETAIL.

JULIUS LEE'S
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No. 34868
STATE OF FLORIDA

TC IL	20	20	PSF	REF	VALLEY DETAIL
TC DL	7	15	PSF	DATE 11/26/03	
BC DL	5	5	PSF	DRWG VALTRUSS1103	
BC IL	0	0	PSF	-ENG JL	
TOT. LD.	32	40	PSF		
DUR.PAC. 125	125				
SPACING	24"				

THIS DRAWING REPLACES DRAWING A105

TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-1997 SECTION 12.4.1 - EDGE DISTANCE, END DISTANCE, SPACING, EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD.

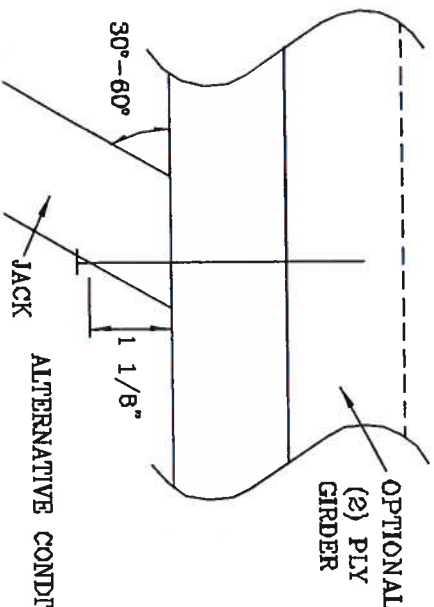
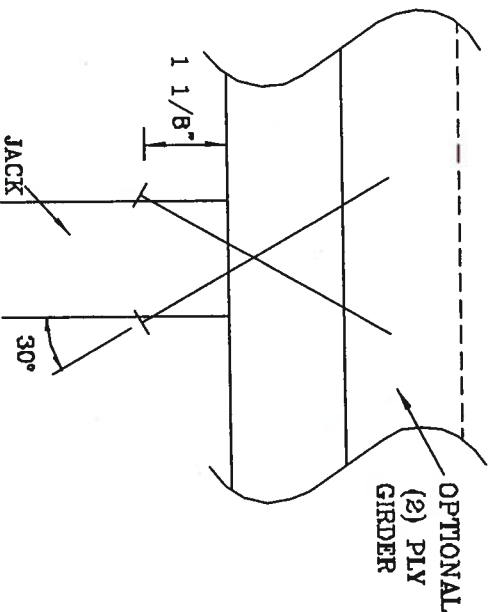
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM LATERAL RESISTANCE OF 16d (0.162"x3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.



ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE CONSTRUCTION SAFETY INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURERS ASSOCIATION, 3801 S. STATE RD. NATION, VI 50719 AND VITA (WOOD TRUSS EDUCATIONAL MATERIALS) AND ENTERPRISE, L.A. MARTIN, VI 50719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
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JACKSONVILLE, FL 32218-2181

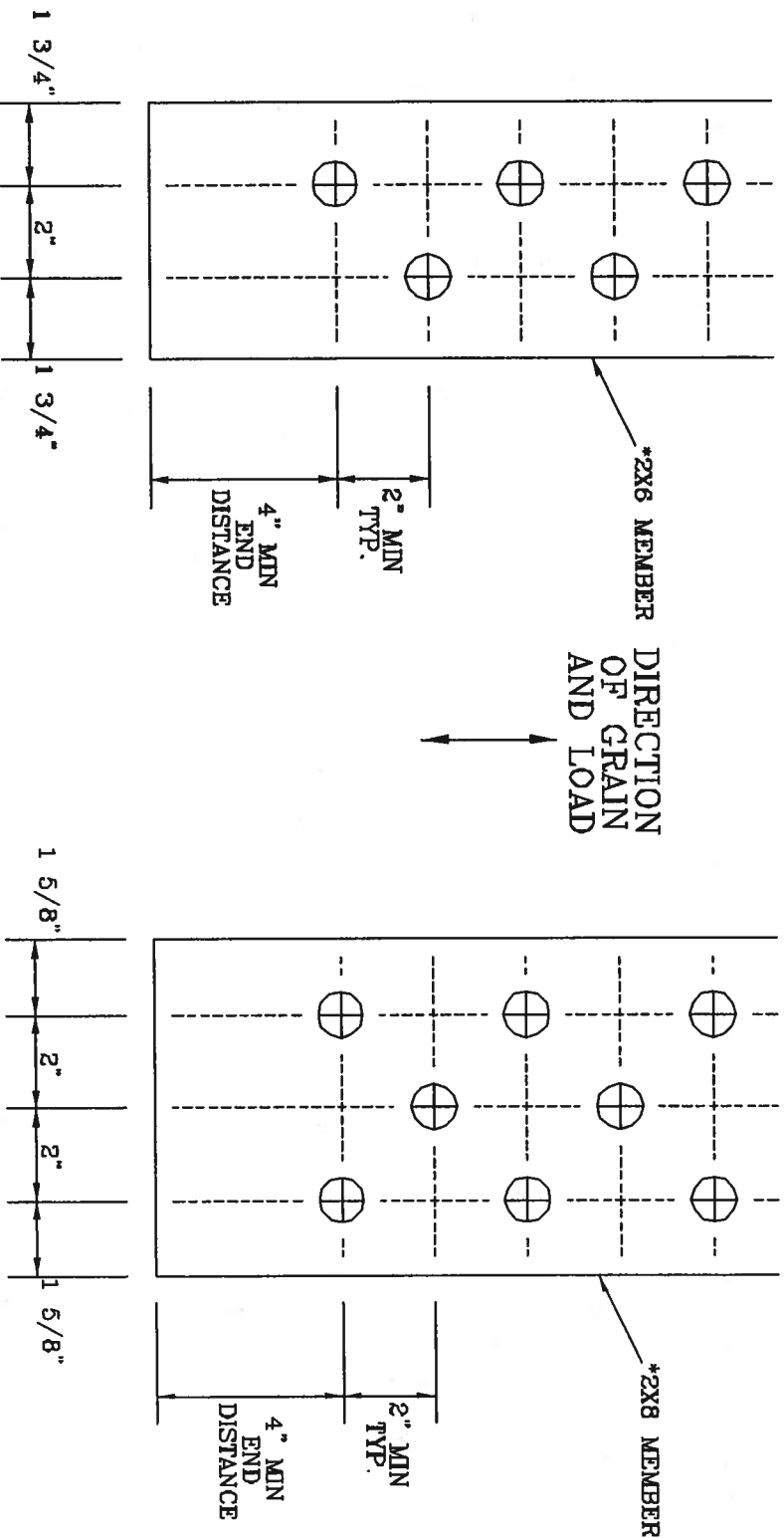
No. 34889
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNTONAIL103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.
WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A628.016

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO JOIST I-100 GUIDING DEPENDENT SAFETY INFORMATION, PUBLISHED BY THE CROSS LAMINATE INSTITUTE, 5800 DOWNSIDE DR., SUITE 200, HOUSTON, TX 77057. SAFETY PRACTICES PRIOR TO PERFORMING THESE TASKS, AND ALL OTHERS, MUST BE FOLLOWED. ALL JOISTS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND JOIST CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

JULIUS LEE'S
CONS. ENGINEERS P.A.

1405 IV 4TH AVENUE
DELUCE BEACH, FL 33444-2161

No. 34869
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOL7SP1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

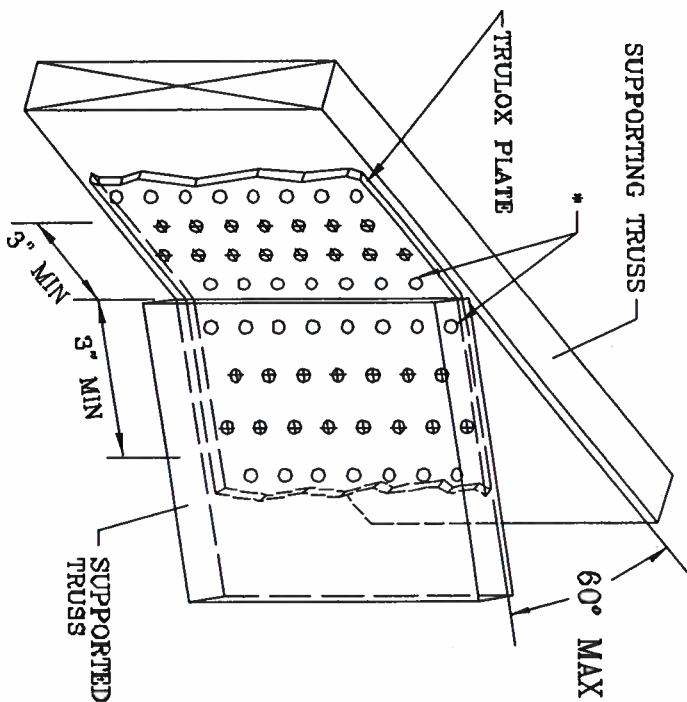
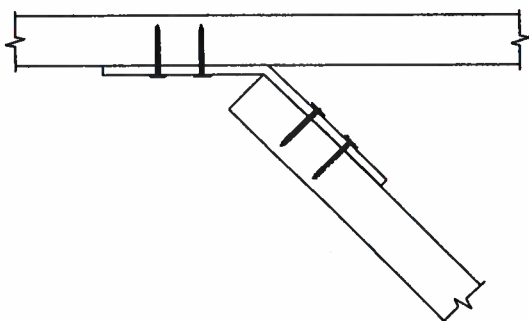
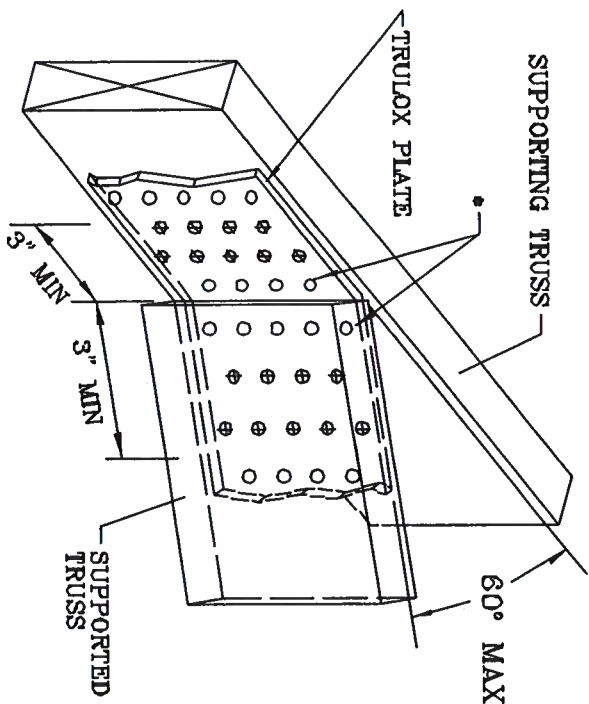
TRULOX CONNECTION DETAIL

11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (Φ).

* NAILS MAY BE OMITTED FROM THESE ROWS.

THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR, OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.
REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.



TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
6X6	16	990#

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R
1,154,844 1,152,217 1,152,017 1,159,154 & 1,151,524

THESE REQUIRE EXTENSIVE CARE FABRICATING, HANDLING, SHIPPING, INSTALLING AND MAINTENANCE TO BEAT 1-00 BUILDING COMPONENT SAFETY BY THE FOLLOWING: (1) TUBES PLANT INSTITUTE, 262 CONIFER RD., SUITE 600, MANASSAS, VA 20108 AND VITA VODI TUBES COMPANY OF AMERICA, 6300 ENTERPRISE LN., MARIETTA, VA 20157 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TYPING SHALL HAVE PROVEN ATTACHED STRUCTURAL PANELS AND BOTTLED GASES SHALL HAVE A PROPERLY ATTACHED HOOD CEILING.

**JULIUS LEE'S
CONS. ENGINEERS P.A.**

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DELRAY BEACH, FL 33444-2100

No: 34869
STATE OF FLORIDA

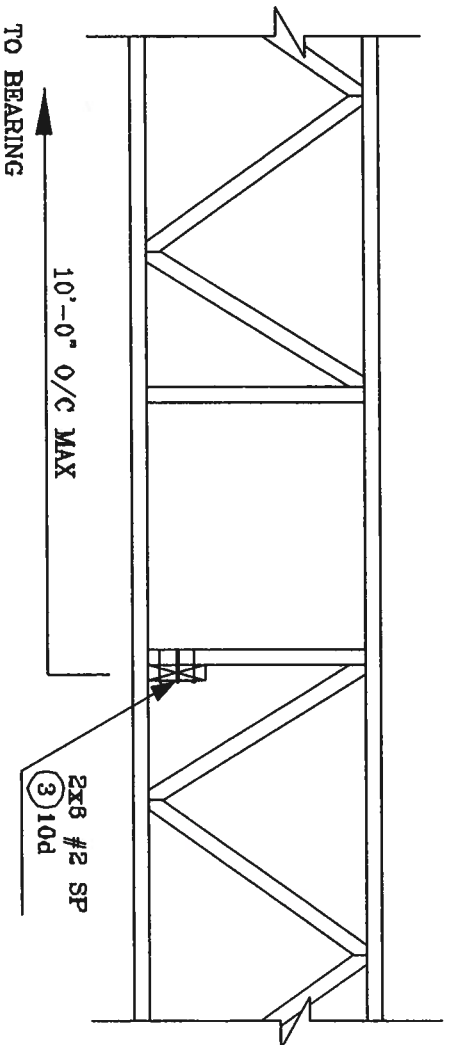
REF TRULOX

DATE 11/26/03

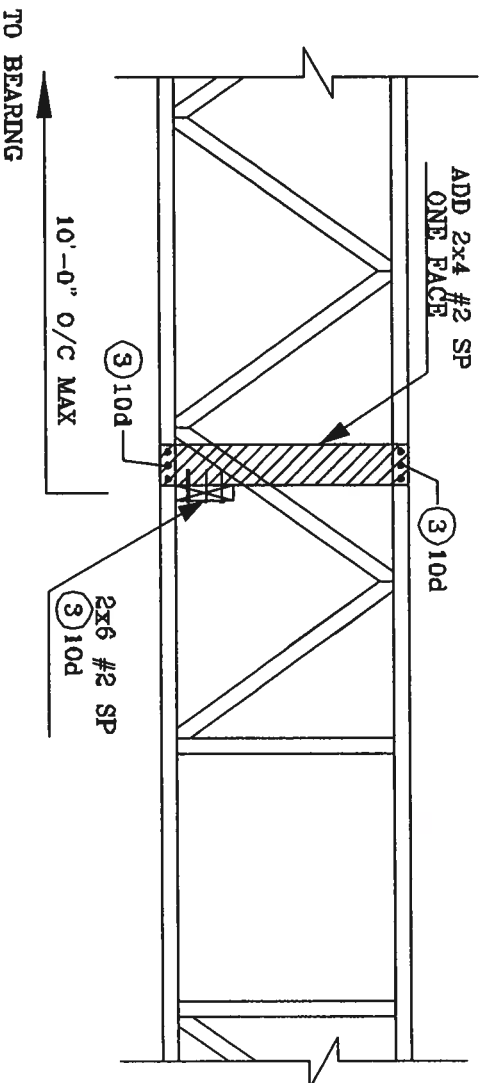
DRWG CINTRULOX1103

-ENG JL

STRONG BACK DETAIL SYSTEM-42 OR FLAT TRUSS



ALTERNATE DETAIL FOR STRONG BACK WITH VERTICAL NOT LINING UP



JULIUS LEF'S
CONS. ENGINEERS P.A.
1455 SW 40th AVENUE
DEER BEACH, FL 33444-2191

No: 34860
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