c/c#197
c/c#198

Columbia County Building Permit Application

For Office Use Only Application # 08-10 Date Received 1/3/08 By JW Permit # 1512 / 26589

Zoning Official BLK Date 08.01.08 Flood Zone X Plat FEMA Map # N/A Zoning RSF-2

Land Use Res. Low Den Elevation N/A MFE Left Rd River N/A Plans Examiner OKSTH Date 1-7-08

Comments

NOC ☐ EH ☐ ~~Deed~~ or PA ☐ ~~Site Plan~~ ☐ State Road Info ☐ Parent Parcel #

☐ Dev Permit # ☐ In Floodway ☐ Letter of Authorization from Contractor

☐ Unincorporated area ☐ Incorporated area ☐ Town of Fort White ☐ Town of Fort White Compliance letter

Septic Permit No. Fax

Name Authorized Person Signing Permit Matt Cason Phone 752-8453

Address 2910 SW CR 242 Lake City FL 32024

Owners Name Cason Construction Phone 752 8453

911 Address 144 SW Zebra Ter Lake City FL 32024

Contractors Name Matt Cason Phone 752 8453

Address 2910 SW CR 242 L C FL 32025

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address Mark Disosway 754-5419

Mortgage Lenders Name & Address

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

Property ID Number 26 4S 16 03185 051 Estimated Cost of Construction 71,000

Subdivision Name Green Acres Addition Lot 1 Block Unit Phase

Driving Directions Hwy 47 South, TR on CR 242, TL on Zebra Ter, Second lot on Right.

Number of Existing Dwellings on Property Ø

Construction of Single Family Total Acreage .5 Lot Size .5

Do you need a - Culvert Permit or (Culvert Waiver) or Have an Existing Drive Total Building Height 20

Actual Distance of Structure from Property Lines - Front 50 Side 25 Side 25 Rear 103

Number of Stories 1 Heated Floor Area 1420 Total Floor Area 2062 Roof Pitch 6/12

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.

Left message 1/8/08 w/ Matt

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment
According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:
YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

OWNERS CERTIFICATION: 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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Owners Signature

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

Contractor's Signature (Permitee)

Contractor's License Number CBC1254765
Columbia County
Competency Card Number_____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 3rd **day of** January **20**08

Personally known ✓ **or Produced Identification**_____

State of Florida Notary Signature (For the Contractor)

SEAL:

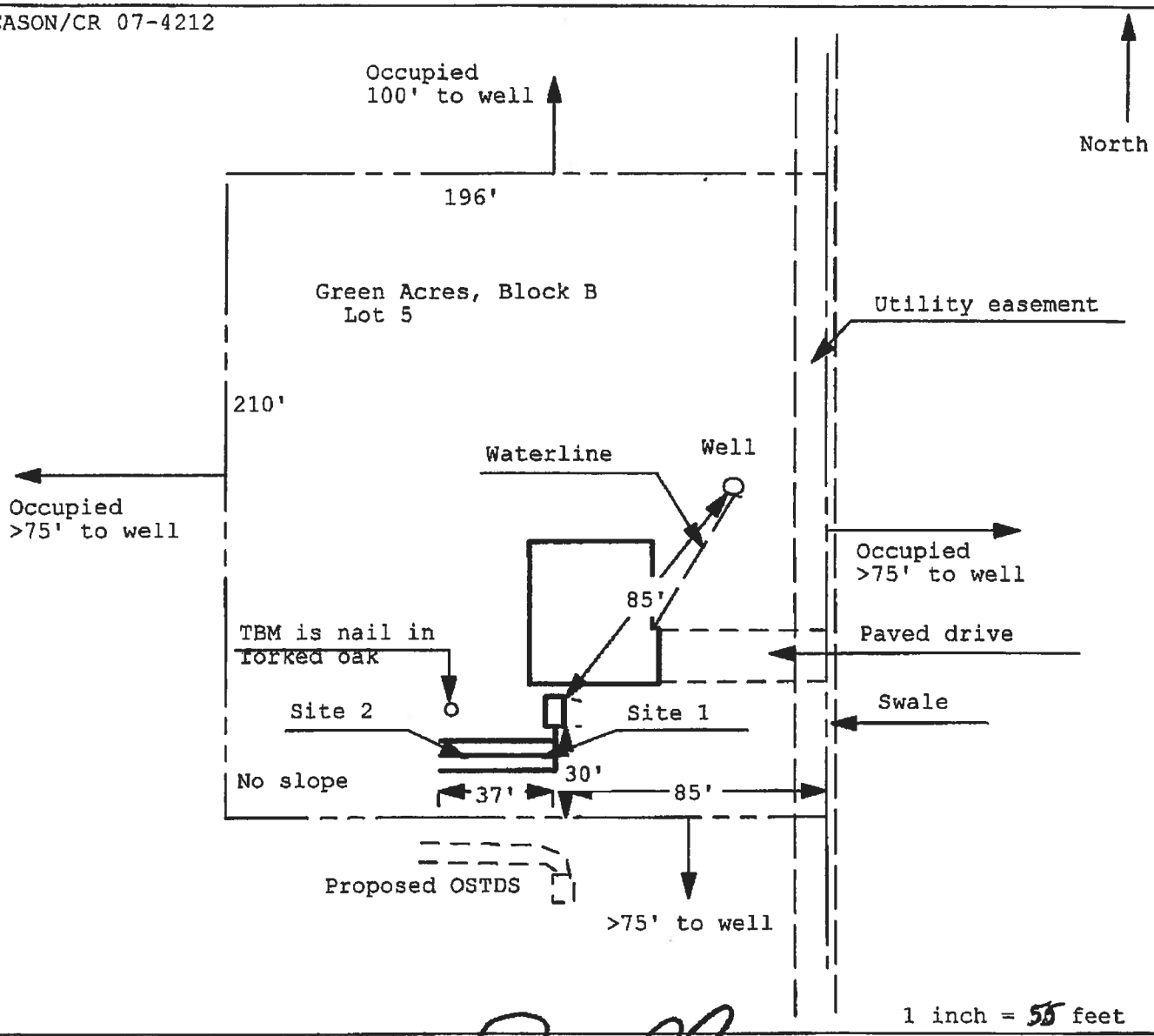
NOTARY PUBLIC STATE OF FLORIDA
Zannie Little
Commission # DD293450
Expires February 23, 2008
Bonded Troy Fain - Insurance, Inc. 800-385-7019

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

Permit Application Number: 08-0005

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

CASON/CR 07-4212

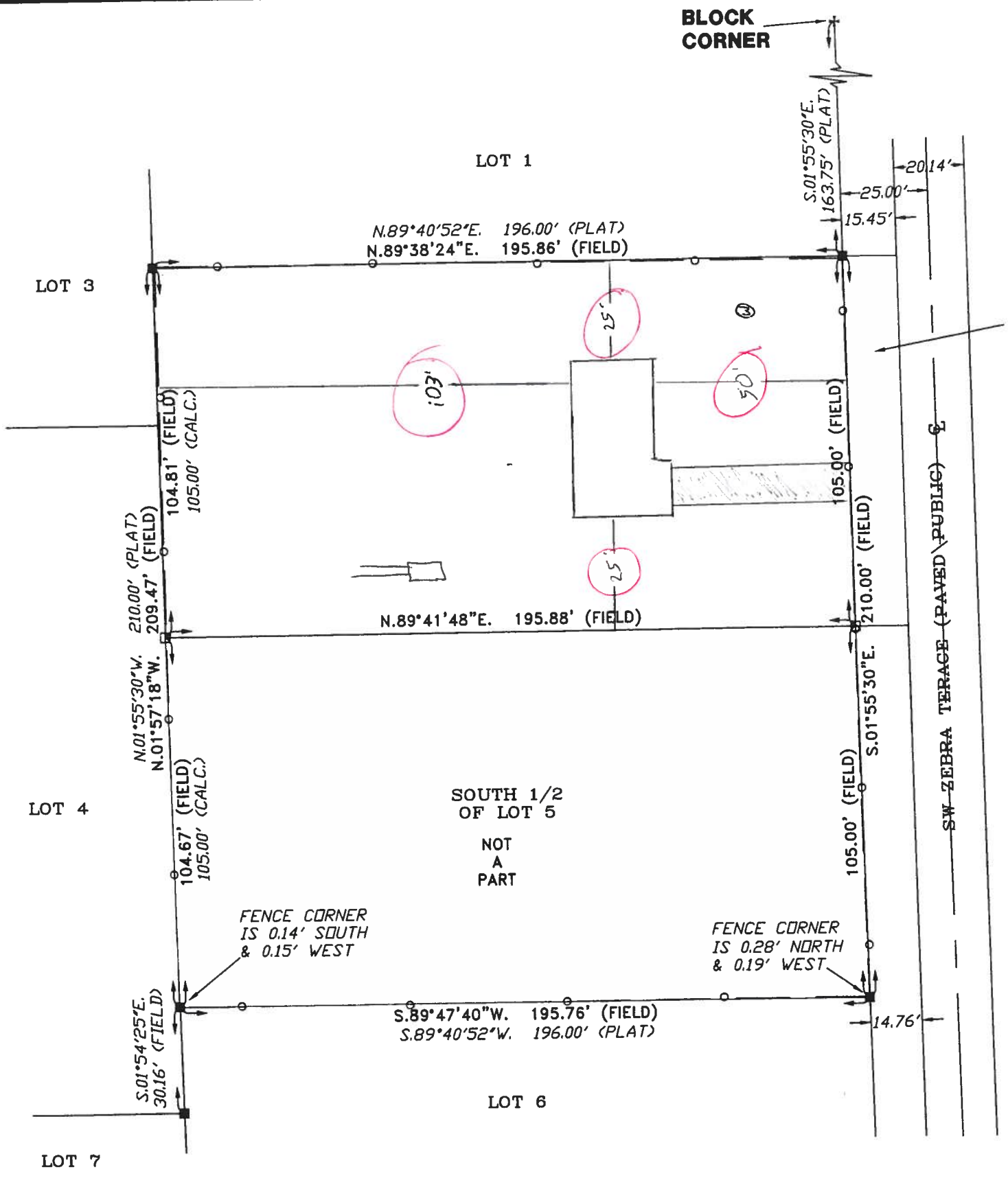


Site Plan Submitted By Paul Lloyd **Date** 12/31/07

Plan Approved ✓ **Not Approved** ____ **Date** 1-4-08

By Marvin Landis Columbia **CPHU**

Notes: ____



CERTIFIED TO:

CASON CONSTRUCTION & DEVELOPMENT, INC.
MERCANTILE BANK
SIERRA TITLE, LLC
TICOR TITLE INSURANCE COMPANY

FIELD BOOK: 298 PAGE(S): 58

SURVEYOR'S CERT

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDE
TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA
IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, P

05/09/07
FIELD SURVEY DATE

05/09/07
DRAWING DATE

NOTE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL
MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFO

Prepared by & Return to:
Matthew D. Rocco
Sierra Title, LLC
619 SW Baya Drive, Suite 102
Lake City, Florida 32025

File Number: 07-0161

General Warranty Deed

Made this July 26, 2007 A.D. By **Franklin T. St. John and his wife, Margaret H. St. John,** whose address is: 120 SW Zebra Terrace, Lake City, Florida 32024-, hereinafter called the grantor, to **Cason Construction & Development, Inc., a Florida corporation**, whose post office address is: 2910 SW CR 242, Lake City, FL 32024, hereinafter called the grantee:

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

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

Lot 5, Block B, GREEN ACRES SUBDIVISION, according to the plat thereof, as recorded in Plat Book 3, Page 95, of the Public Records of Columbia County, Florida.

Parcel ID Number: **03185-008**

N.B. THIS WARRANTY DEED IS IN FULFILLMENT OF THAT CERTAIN AGREEMENT FOR DEED RECORDED IN OR BOOK 1126, PAGE 702, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

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

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2006.

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

Signed, sealed and delivered in our presence:

_____
Witness Printed Name _____

_____
Witness Printed Name _____

Frank T. St. John (Seal)
Franklin T. St. John
Address: 120 SW Zebra Terrace, Lake City, Florida 32024-

Margaret H. St. John (Seal)
Margaret H. St. John
Address:

State of Florida
County of Columbia

The foregoing instrument was acknowledged before me this 26th day of July, 2007, by Franklin T. St. John and his wife, Margaret H. St. John, who is/are personally known to me or who has produced a Drivers License as identification.

Notary Public State of Florida
Matthew Rocco
My Commission DD578349
Expires 5/ /2010

_____
Notary Public
Print Name: _____

My Commission Expires: _____

FORM 600A-2004R Tested sealed ducts must be certified in this house. EnergyGauge® 4.5.2

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Cason Construction - Cottonwood Model**	Builder:	**Nathan Peterson Const.**
Address:	**Lot: 1, Sub: Green Acres, Plat:**	Permitting Office:	Columbia
City, State:	**, FL 32024-**	Permit Number:	26589
Owner:	**Spec House**	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: 36.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	1420 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: 36.0 kBtu/hr
(or Single or Double DEFAULT)	7a (Sngle Default) 165.3 ft²		HSPF: 7.70
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 165.3 ft²	c. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 175.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 80.0 gallons
c. N/A			EF: 0.92
9. Wall types		b. N/A	
a. Frame, Wood, Exterior	R=13.0, 998.7 ft²	c. Conservation credits	
b. Frame, Wood, Exterior	R=13.0, 198.0 ft²	(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT,
d. N/A		(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
e. N/A			
10. Ceiling types			
a. Under Attic	R=30.0, 1600.0 ft²		
b. N/A			
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft		
b. N/A			

Glass/Floor Area: 0.12 Total as-built points: 19404 Total base points: 21141 **PASS**

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

PREPARED BY: _____

DATE: 1-2-08

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

OWNER/AGENT: _____

DATE: _____

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

GREAT SEAL OF THE STATE OF FLORIDA * IN GOD WE TRUST *

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1, Sub: Green Acres, Plat: , , FL, 32024-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	1420.0	18.59	4752.0	1.Single, Clear	W	11.5	8.0	40.0	43.84	0.46	799.0
				2.Single, Clear	W	1.5	8.0	60.0	43.84	0.96	2520.0
				3.Single, Clear	N	1.5	8.0	6.0	21.73	0.97	126.0
				4.Single, Clear	E	10.5	8.0	13.3	47.92	0.46	290.0
				5.Single, Clear	E	5.5	8.0	15.0	47.92	0.62	445.0
				6.Single, Clear	E	1.5	8.0	15.0	47.92	0.96	688.0
				7.Single, Clear	S	1.5	8.0	4.0	40.81	0.92	150.0
				8.Single, Clear	S	1.5	8.0	12.0	40.81	0.92	452.0
				As-Built Total:				**165.3**			**5470.0**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	998.7	1.50		1498.1
Exterior	1196.7	1.70	2034.4	2. Frame, Wood, Exterior			13.0	198.0	1.50		297.0
Base Total:	**1196.7**		**2034.4**	**As-Built Total:**				**1196.7**			**1795.1**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	18.0	2.40	43.2	1.Exterior Insulated				20.0	4.10		82.0
Exterior	20.0	6.10	122.0	2.Adjacent Insulated				18.0	1.60		28.8
Base Total:	**38.0**		**165.2**	**As-Built Total:**				**38.0**			**110.8**
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points
Under Attic	1420.0	1.73	2456.6	1. Under Attic			30.0	1600.0	1.73 X 1.00		2768.0
Base Total:	**1420.0**		**2456.6**	**As-Built Total:**				**1600.0**			**2768.0**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	175.0(p)	-37.0	-6475.0	1. Slab-On-Grade Edge Insulation			0.0	175.0(p	-41.20		-7210.0
Raised	0.0	0.00	0.0								
Base Total:			**-6475.0**	**As-Built Total:**				**175.0**			**-7210.0**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	1420.0	10.21	14498.2					1420.0	10.21		14498.2

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1, Sub: Green Acres, Plat: , , FL, 32024-** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 17431.4			**Summer As-Built Points: 17432.1**					
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 36000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)					
17431.4	**0.3250**	**5665.2**	17432 **17432.1**	1.00 **1.00**	(1.09 x 1.000 x 1.00) **1.090**	0.260 **0.260**	0.950 **0.950**	4693.2 **4693.2**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1, Sub: Green Acres, Plat: , , FL, 32024-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1420.0	20.17	5155.0	1.Single, Clear	W	11.5	8.0	40.0	28.84	1.20	1385.0	
				2.Single, Clear	W	1.5	8.0	60.0	28.84	1.01	1749.0	
				3.Single, Clear	N	1.5	8.0	6.0	33.22	1.00	199.0	
				4.Single, Clear	E	10.5	8.0	13.3	26.41	1.36	477.0	
				5.Single, Clear	E	5.5	8.0	15.0	26.41	1.19	471.0	
				6.Single, Clear	E	1.5	8.0	15.0	26.41	1.02	403.0	
				7.Single, Clear	S	1.5	8.0	4.0	20.24	1.04	84.0	
				8.Single, Clear	S	1.5	8.0	12.0	20.24	1.04	252.0	
				As-Built Total:				**165.3**			**5020.0**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	998.7	3.40		3395.6	
Exterior	1196.7	3.70	4427.8	2. Frame, Wood, Exterior			13.0	198.0	3.40		673.2	
Base Total:	**1196.7**		**4427.8**	**As-Built Total:**				**1196.7**			**4068.8**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	18.0	11.50	207.0	1.Exterior Insulated				20.0	8.40		168.0	
Exterior	20.0	12.30	246.0	2.Adjacent Insulated				18.0	8.00		144.0	
Base Total:	**38.0**		**453.0**	**As-Built Total:**				**38.0**			**312.0**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	1420.0	2.05	2911.0	1. Under Attic			30.0	1600.0	2.05 X	1.00	3280.0	
Base Total:	**1420.0**		**2911.0**	**As-Built Total:**				**1600.0**			**3280.0**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	175.0(p)	8.9	1557.5	1. Slab-On-Grade Edge Insulation			0.0	175.0(p	18.80		3290.0	
Raised	0.0	0.00	0.0									
Base Total:			**1557.5**	**As-Built Total:**				**175.0**			**3290.0**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	1420.0	-0.59	-837.8					1420.0	-0.59		-837.8	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1, Sub: Green Acres, Plat: , , FL, 32024-** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**13666.5**	**Winter As-Built Points:**					**15133.0**
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
			(sys 1: Electric Heat Pump 36000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
13666.5	**0.5540**	**7571.2**	15133.0 **15133.0**	1.000 **1.00**	(1.069 x 1.000 x 1.00) **1.069**	0.443 **0.443**	0.950 **0.950**	6806.0 **6806.0**

MEMBER OF The North Central Florida Water Well

Clyatt Well Drilling, Inc.
(Established in 1971)
POST OFFICE BOX 180
WORTHINGTON SPRINGS, FLORIDA 32697

Telephone Number (386)496-2488
FAX Number (386)496-4640

K. Melaine "Red" Clyatt

PUMP AND TANK SPECIFICATIONS FOR
STANDARD 4" RESIDENTIAL WELLS

PUMPS

1 Horse Power Submersible Pump
20 Gallons Per Minute
Voltage: 240
Phase: (Single) 1

1.5 Horse Power Submersible Pump
25 Gallons Per Minute
Voltage: 240
Phase: (Single) 1

TANK

WF-255 Captive Air Tank
Capacity 81 Gallons
Equivalent 220 Gallons
Draw Down 25 Gallons

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1TDH8228Z0226103217

Truss Fabricator:	Anderson Truss Company
Job Identification:	7-381--Fill in later CASON CONSTRUCTION -- , **
Truss Count:	34
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	ANSI/TPI-2002(STD);ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Versions 7.37, 7.36.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

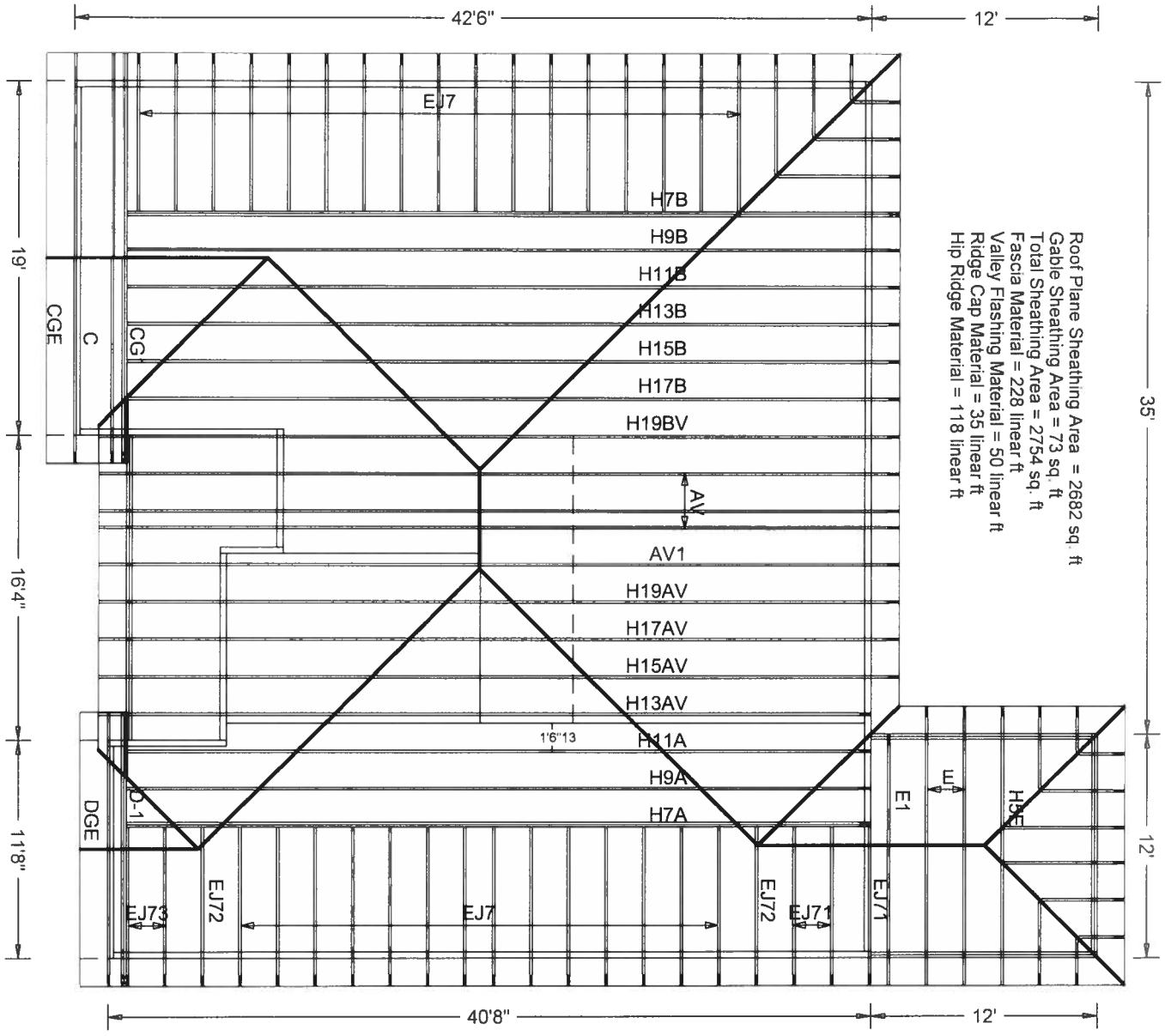
Details: BRCLBSUB-A11015EE-GBLLETIN-CNBRGBLK-

Seal Date: 12/26/2007

-Truss Design Engineer-
Doug Fleming
Florida License Number: 66648
1950 Marley Drive
Haines City, FL 33844

#	Ref Description	Drawing#	Date
1	20457--H7A	07360032	12/26/07
2	20458--H9A	07360021	12/26/07
3	20459--H11A	07360022	12/26/07
4	20460--H13AV	07360023	12/26/07
5	20461--H15AV	07360024	12/26/07
6	20462--H17AV	07360025	12/26/07
7	20463--H19AV	07360026	12/26/07
8	20464--AV1	07360010	12/26/07
9	20465--AV	07360011	12/26/07
10	20466--H19BV	07360012	12/26/07
11	20467--H7B	07360035	12/26/07
12	20468--H17B	07360027	12/26/07
13	20469--H9B	07360028	12/26/07
14	20470--H11B	07360029	12/26/07
15	20471--H13B	07360030	12/26/07
16	20472--H15B	07360031	12/26/07
17	20473--CGE	07360036	12/26/07
18	20474--C	07360013	12/26/07
19	20475--CG1	07360037	12/26/07
20	20476--DGE	07360040	12/26/07
21	20477--D-1	07360038	12/26/07
22	20478--E	07360014	12/26/07
23	20479--E1	07360015	12/26/07
24	20480--CJ1	07355002	12/21/07
25	20481--HJ5	07360034	12/26/07
26	20482--HJ7	07360033	12/26/07
27	20483--CJ3	07355001	12/21/07
28	20484--EJ5	07360016	12/26/07
29	20485--H5E	07360039	12/26/07
30	20486--EJ7	07360017	12/26/07
31	20487--EJ71	07360018	12/26/07
32	20488--EJ72	07360019	12/26/07
33	20489--EJ73	07360020	12/26/07
34	20490--CJ5	07355003	12/21/07

CASON CONSTRUCTION / COTTONWOOD MODEL 12/21/07



JOB DESCRIPTION:: Fill in later
/: CASON CONSTRUCTION

JOB NO: 7-381

PAGE NO: 1 OF 1

(7 381 Fill in later CASON CONSTRUCTION , ** H7A)

Top chord 2x6 SP #2
Bot chord 2x6 SP #2
Webs 2x4 SP #3 :W2 2x4 SP #2 Dense:

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at 0.00 to 62 PLF at 4.75
TC - From 62 PLF at 4.75 to 62 PLF at 7.00
TC - From 62 PLF at 7.00 to 62 PLF at 34.67
TC - From 62 PLF at 34.67 to 62 PLF at 37.25
TC - From 62 PLF at 37.25 to 62 PLF at 39.67
BC - From 20 PLF at 0.00 to 20 PLF at 39.67
TC - 187 LB Conc. Load at 8.06, 10.06, 12.06, 14.06, 16.06
18.06, 20.06, 21.60, 23.60, 25.60, 27.60, 29.60, 31.60, 33.60
BC - 272 LB Conc. Load at 0.06, 2.06, 4.06, 6.06, 35.60
37.60, 39.60
BC - 82 LB Conc. Load at 8.06, 10.06, 12.06, 14.06, 16.06
18.06, 20.06, 21.60, 23.60, 25.60, 27.60, 29.60, 31.60, 33.60

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

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3"_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

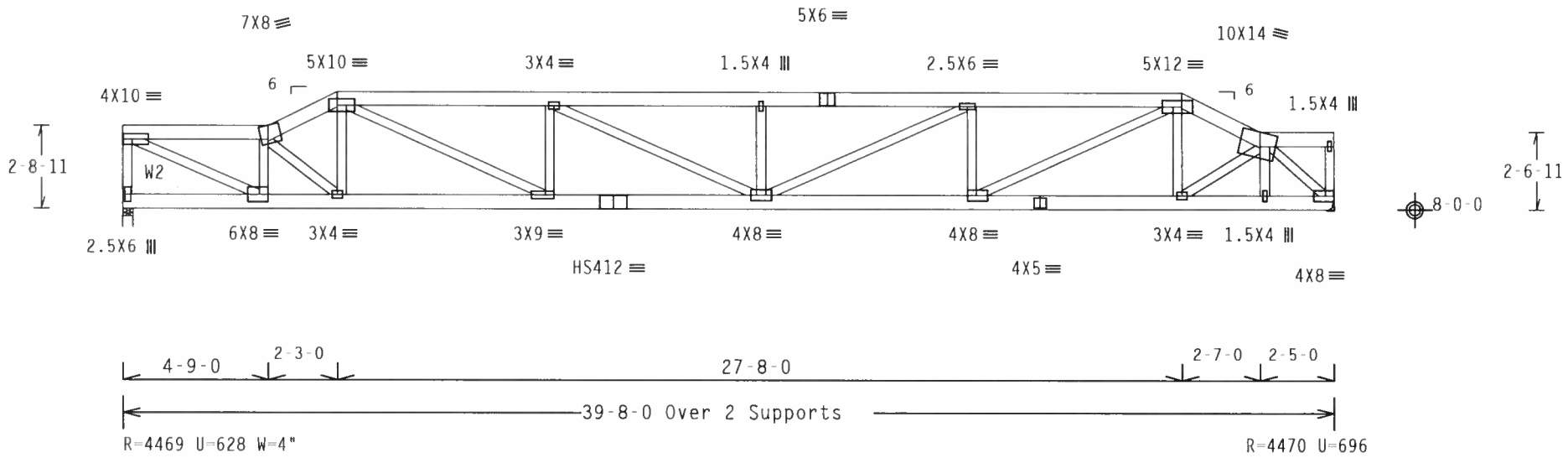
Wind reactions based on MWFRS pressures.

End verticals not exposed to wind pressure.

Max JT VERT DEFL: LL: 0.37" DL: 0.56" recommended camber 7/8"

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

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



Design Crit: TPI-2002(STD)

PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.37.05 [illegible] QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

[illegible] 26 '07

TC LL	20.0 PSF	REF	R8228- 20457
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360032
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	8877 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H9A)

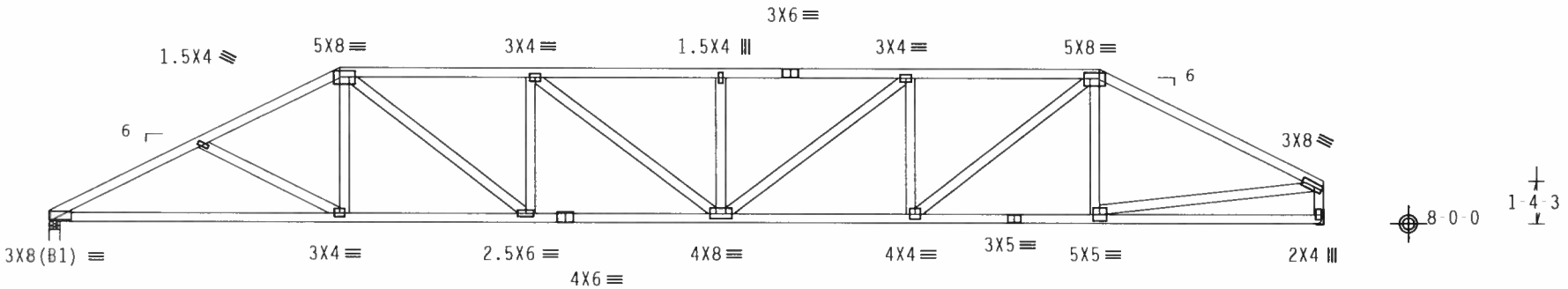
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

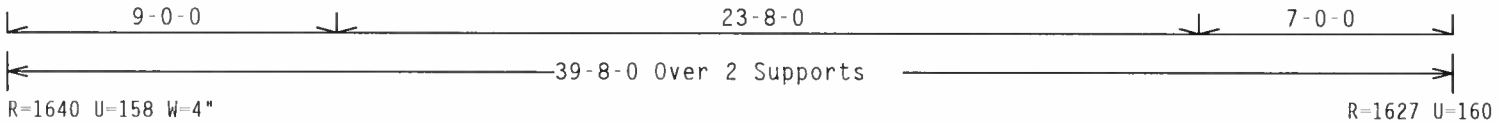
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 U QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 279

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 26 '07

TC LL	20.0 PSF	REF	R8228- 20458
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360021
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26077
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H11A)

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

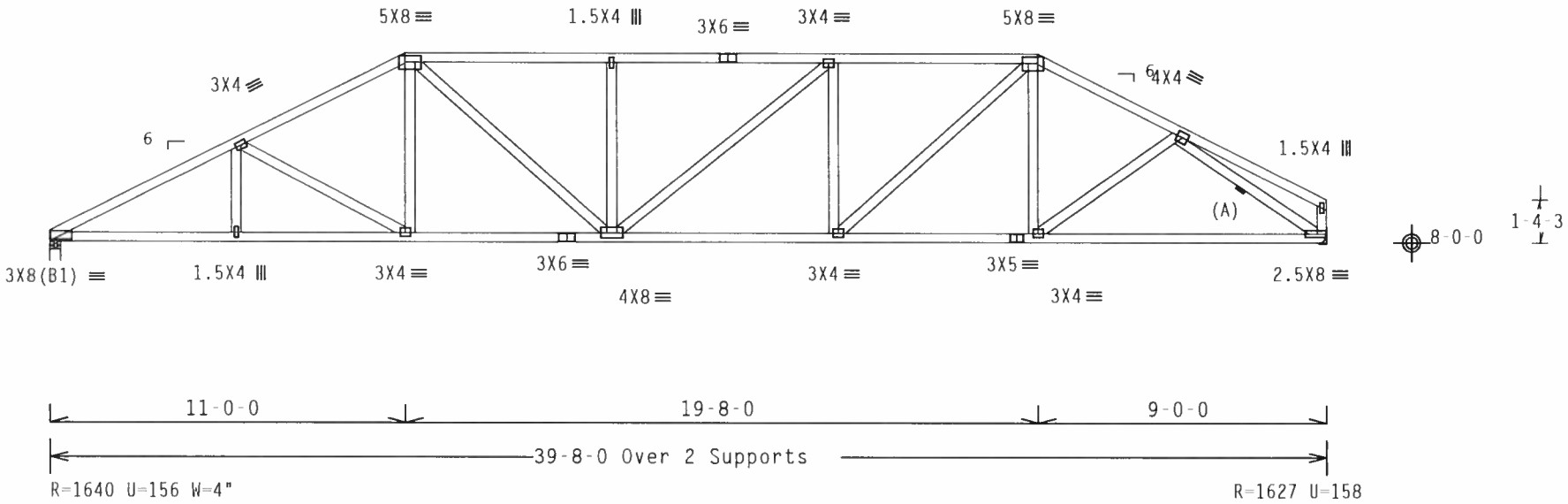
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No.66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

DEC 26 '07

TC LL	20.0 PSF	REF	R8228- 20459
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360022
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26087
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7-381--Fill in later CASON CONSTRUCTION -- , ** - H13AV)

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

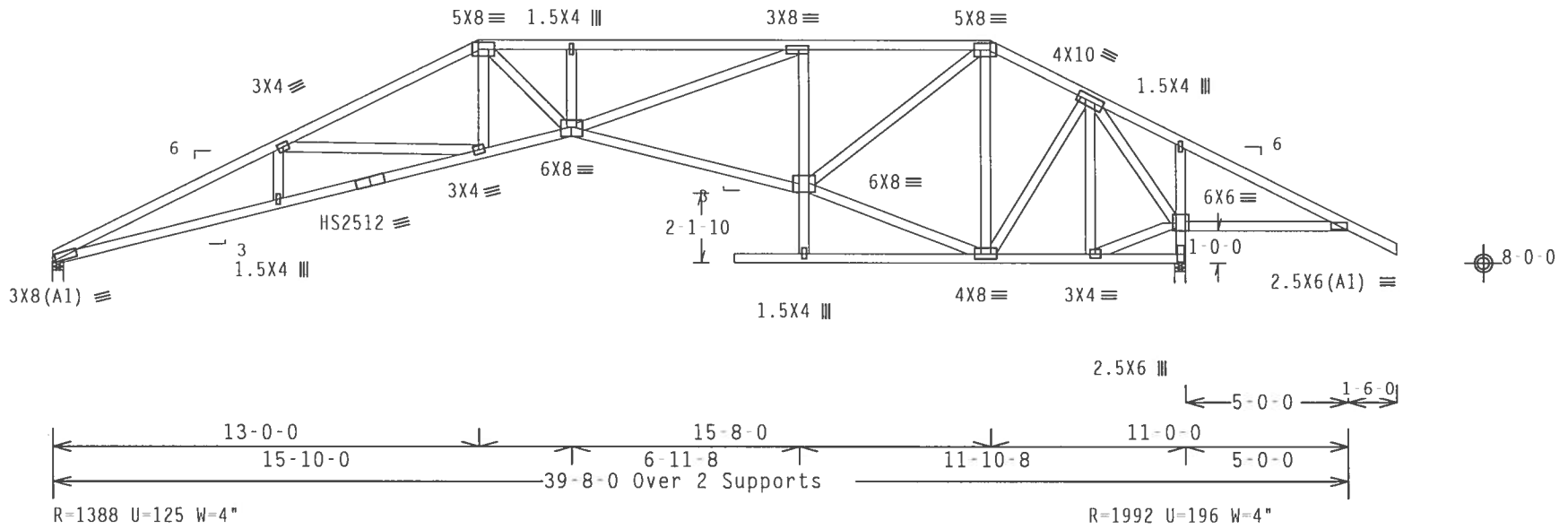
Calculated horizontal deflection is 0.22" due to live load and 0.35" due to dead load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave | Cq/RT=1.00(1.25)/10(0) 7.36.042 | QTY:1 | FL/-/4/-/E/R/- | Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 279

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF	R8228-20460
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360023
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26142
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H15AV)

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

Calculated horizontal deflection is 0.19" due to live load and 0.30" due to dead load.

(A) Continuous lateral bracing equally spaced on member.

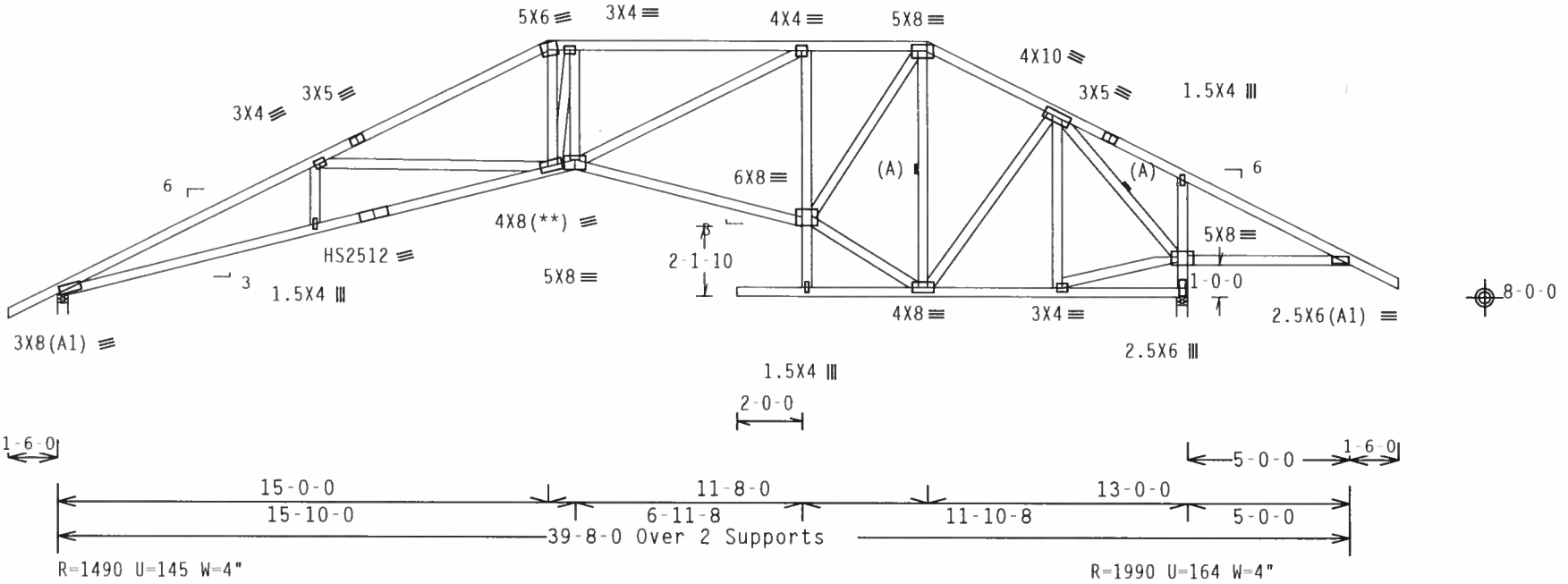
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave

Cq/RT=1.00(1.25)/10(0) 7.36.043

QTY:1 FL/-/4/-/E/R/-

Scale =.1875"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 279

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DOUGLAS FLEMING LICENSE No.66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

DEC 26 '07

TC LL	20.0 PSF	REF	R8228- 20461
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360024
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26146
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H17AV)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Splice Block 2x4 SP #3:

Calculated horizontal deflection is 0.22" due to live load and 0.34" due to dead load.

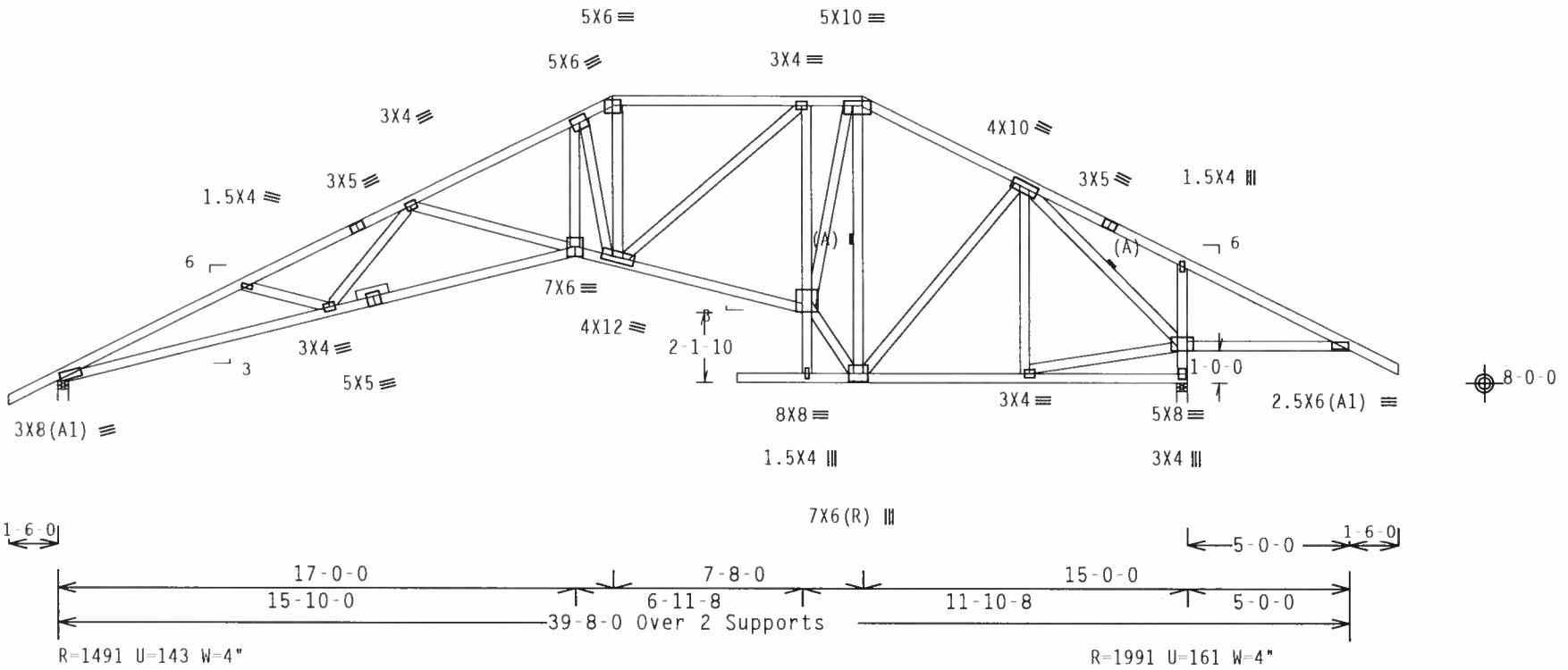
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.043 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
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DEC 26 '07

TC LL	20.0 PSF	REF	R8228- 20462
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360025
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26150
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H19AV)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Splice Block 2x4 SP #3:

Calculated horizontal deflection is 0.18" due to live load and 0.28" due to dead load.

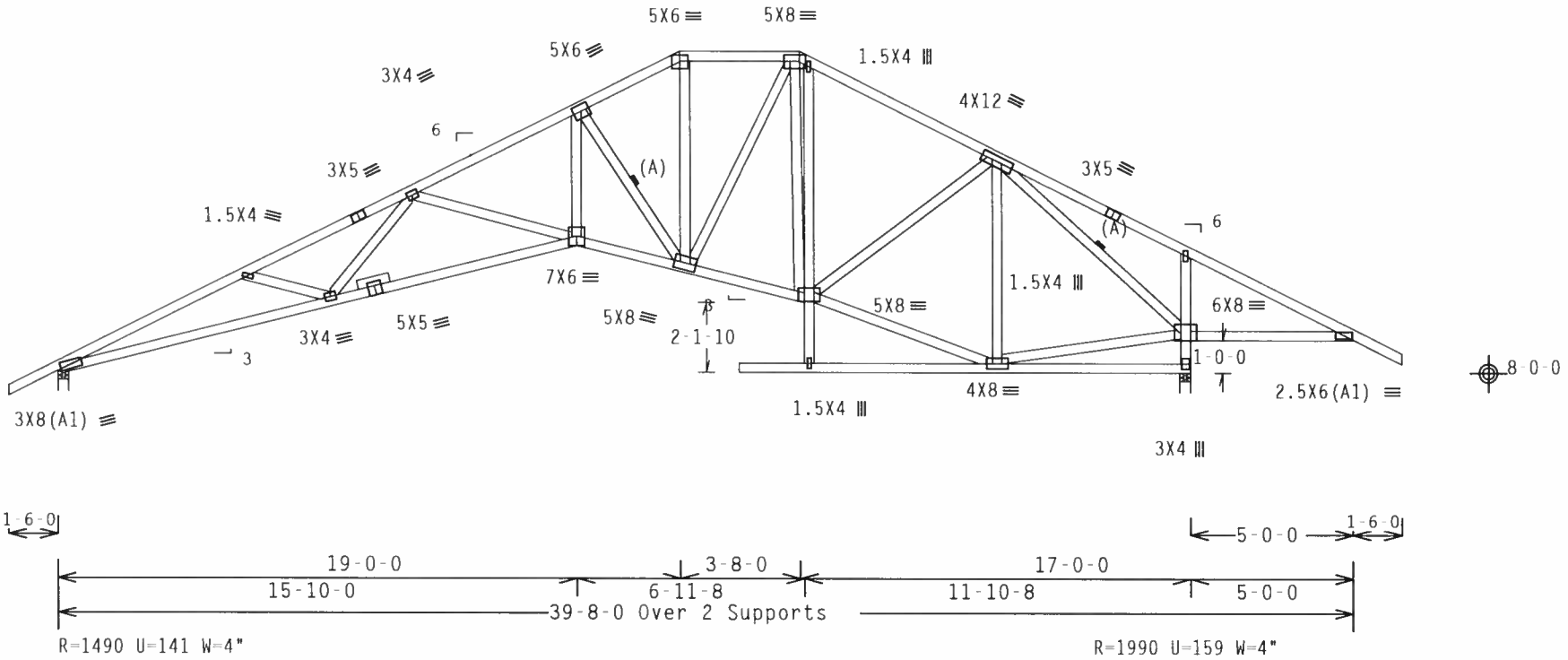
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 26 '07

TC LL	20.0 PSF	REF	R8228- 20463
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360026
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26159
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** AV1)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Splice Block 2x4 SP #3:

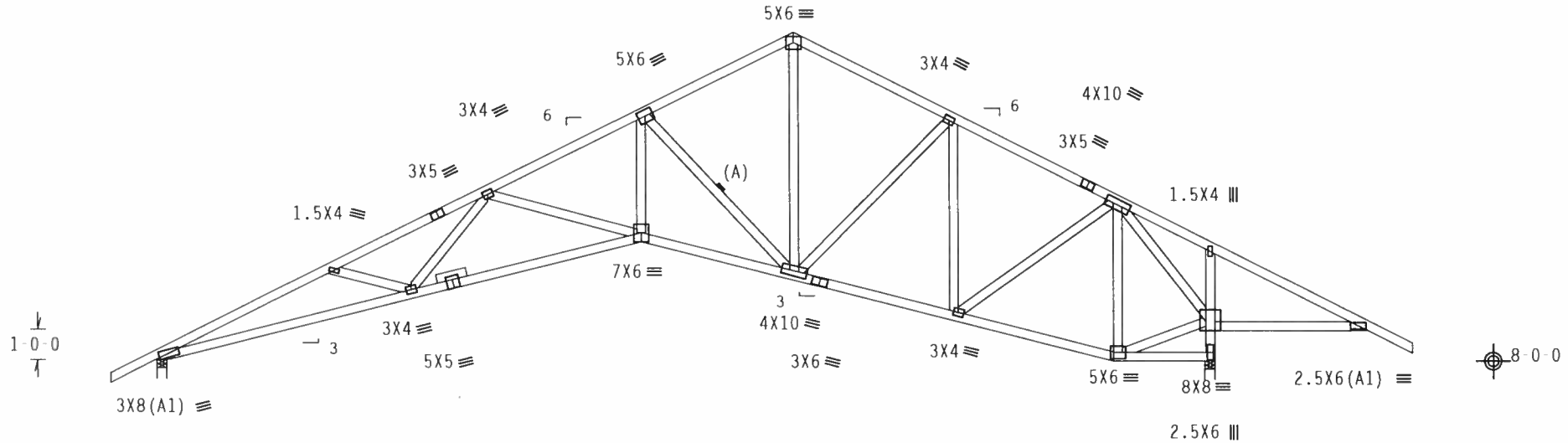
Calculated horizontal deflection is 0.19" due to live load and 0.29" due to dead load.

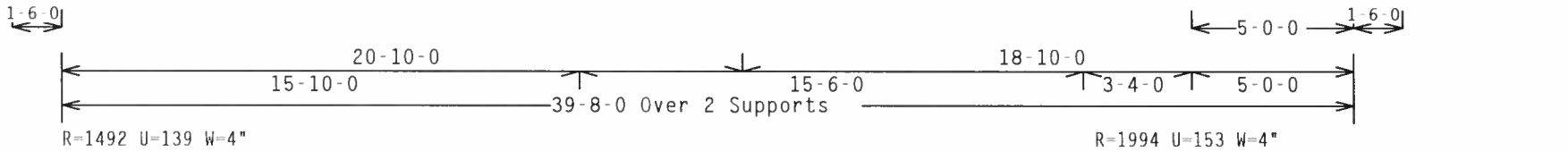
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF	R8228- 20464
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360010
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN	26167
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** AV)

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

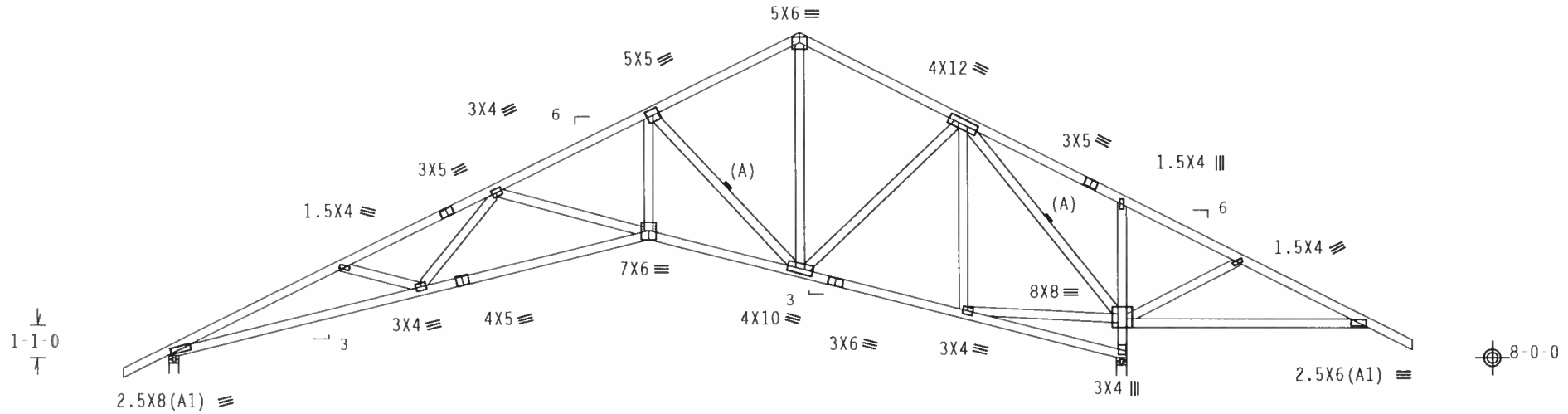
Calculated horizontal deflection is 0.15" due to live load and 0.23" due to dead load.

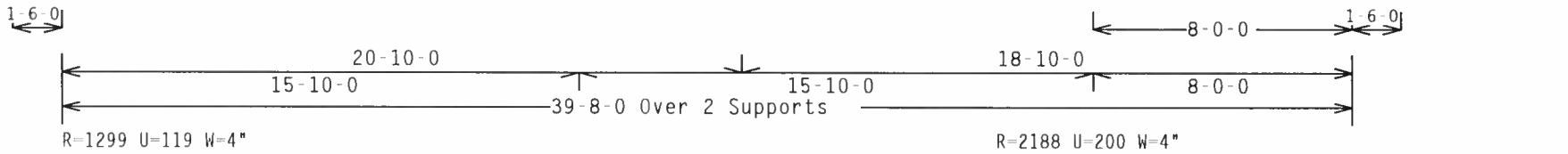
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.042[illegible] QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

26 '07

TC LL	20.0 PSF	REF	R8228- 20465
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360011
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	26186
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H19BV)

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

Calculated horizontal deflection is 0.14" due to live load and 0.23" due to dead load.

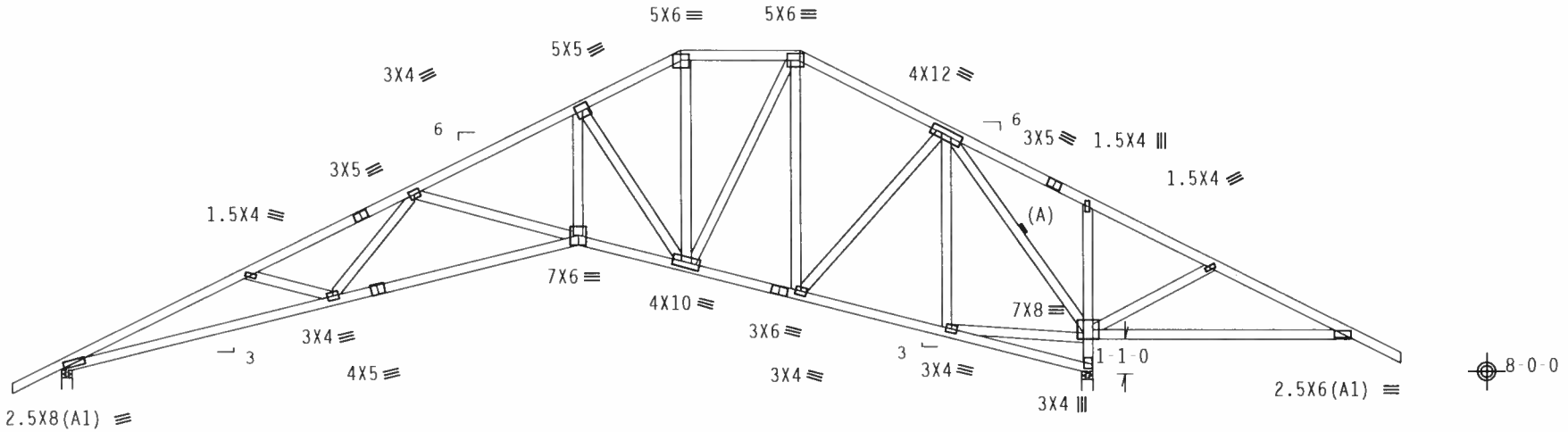
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

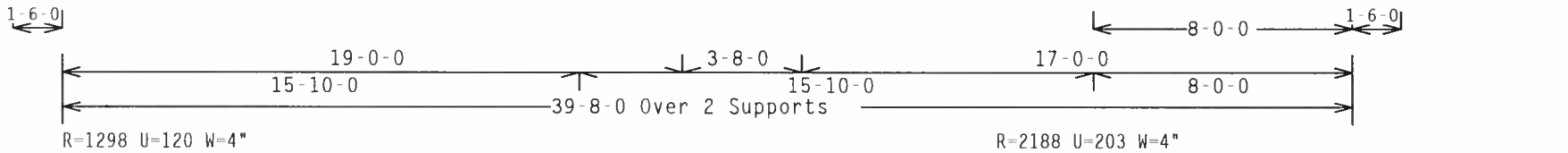
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave | Cq/RT=1.00(1.25)/10(0) 7.36.0424 | QTY:1 | FL/-/4/-/E/R/- | Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF	R8228- 20466
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360012
BC LL	0.0 PSF		HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN	26195
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H7B)

Top chord 2x6 SP #2 :T1 2x4 SP #2 Dense:
Bot chord 2x6 SP #2
Webs 2x4 SP #3 :W11 2x4 SP #2 Dense:

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at -1.50 to 62 PLF at 7.00
TC - From 62 PLF at 7.00 to 62 PLF at 39.67
BC - From 4 PLF at -1.50 to 4 PLF at -0.00
BC - From 20 PLF at -0.00 to 20 PLF at 39.67
TC - 187 LB Conc. Load at 7.06, 9.06, 11.06, 13.06, 15.06 17.06, 19.06, 21.06, 23.06, 25.06, 27.06, 29.06, 31.06, 33.06 35.06, 37.06, 39.06
BC - 590 LB Conc. Load at 7.00
BC - 82 LB Conc. Load at 9.06, 11.06, 13.06, 15.06, 17.06 19.06, 21.06, 23.06, 25.06, 27.06, 29.06, 31.06, 33.06, 35.06 37.06, 39.06

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

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND TRUSS FABRICATOR TO REVIEW THIS DWG PRIOR TO CUTTING LUMBER TO VERIFY THAT ALL DATA, INCLUDING DIMENSIONS AND LOADS, CONFORM TO THE ARCHITECTURAL PLANS/ SPECIFICATIONS AND FABRICATOR'S TRUSS LAYOUT.

2 COMPLETE TRUSSES REQUIRED

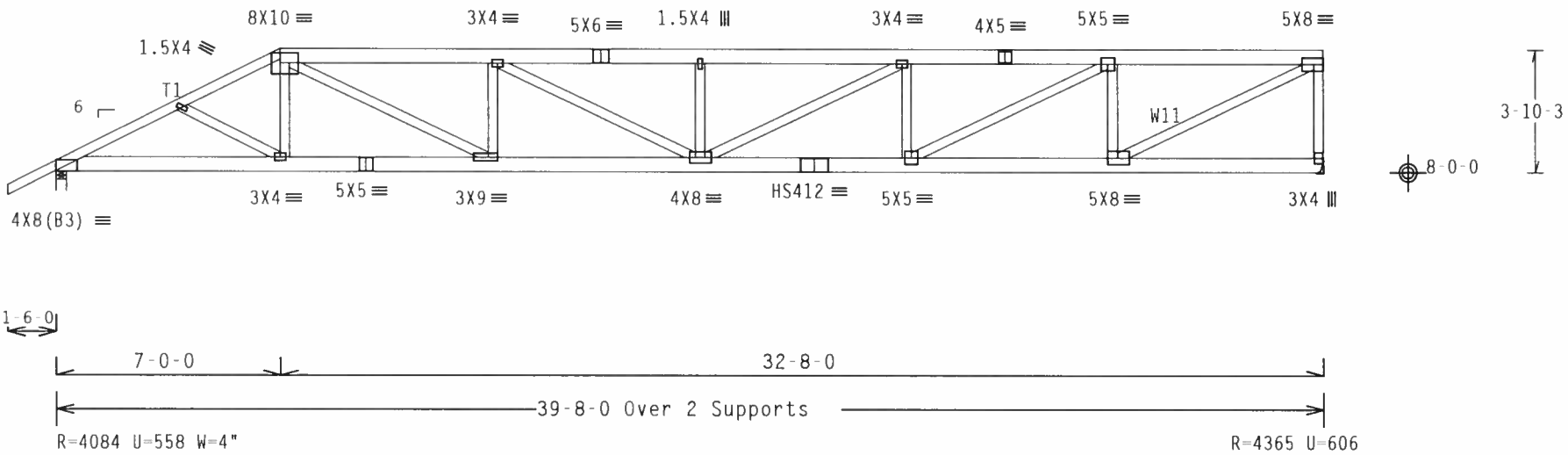
Nailing Schedule: (10d_Box_or_Gun_(0.128"x3"_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.36.043 [illegible] QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 279

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 26 '07

TC LL	20.0 PSF	REF	R8228- 20467
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360035
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26225
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H17B)

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

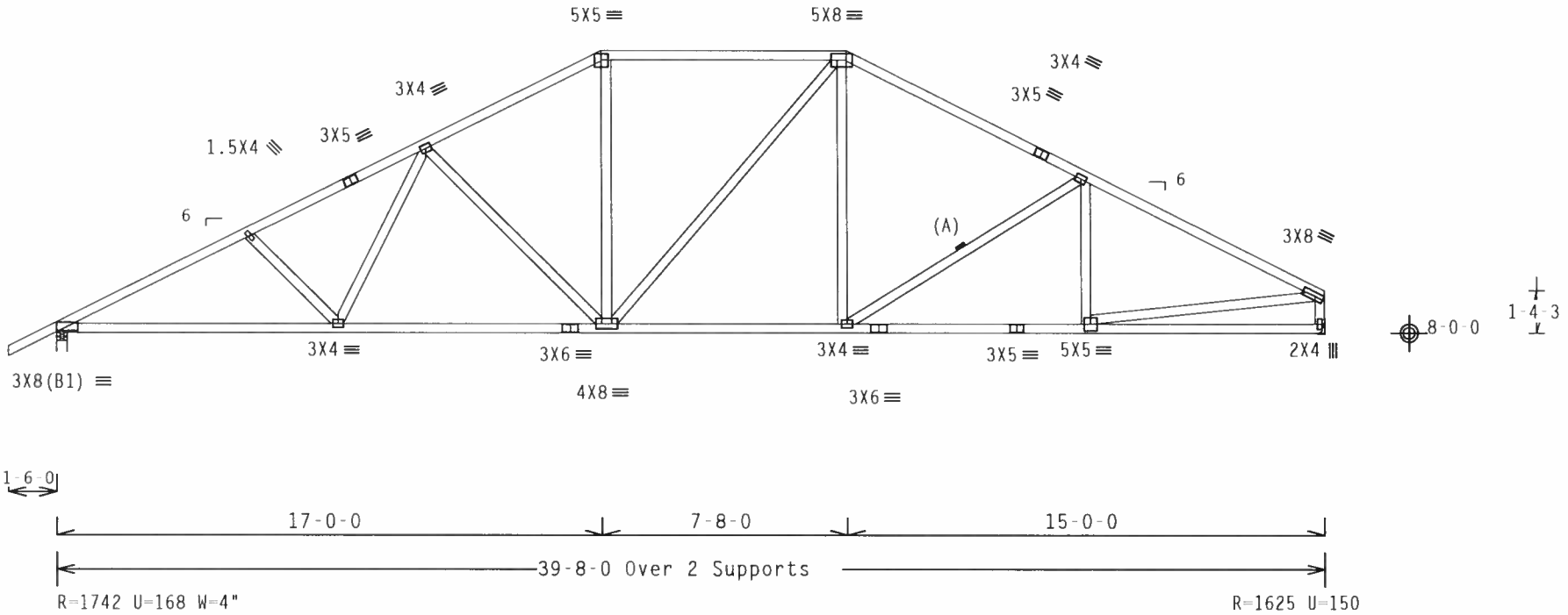
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 16 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 26 '07

TC LL	20.0 PSF	REF	R8228- 20468
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360027
BC LL	0.0 PSF		HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN-	26202
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H9B)

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

(A) Continuous lateral bracing equally spaced on member.

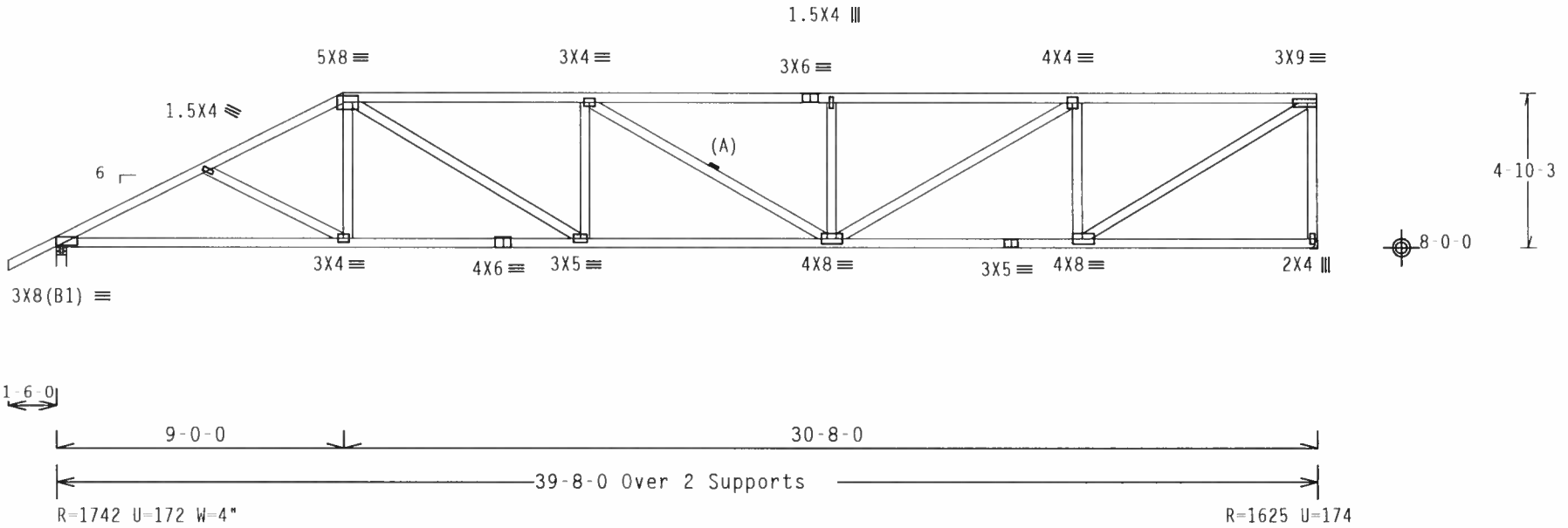
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization #0279

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF	R8228- 20469
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360028
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26246
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H11B)

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

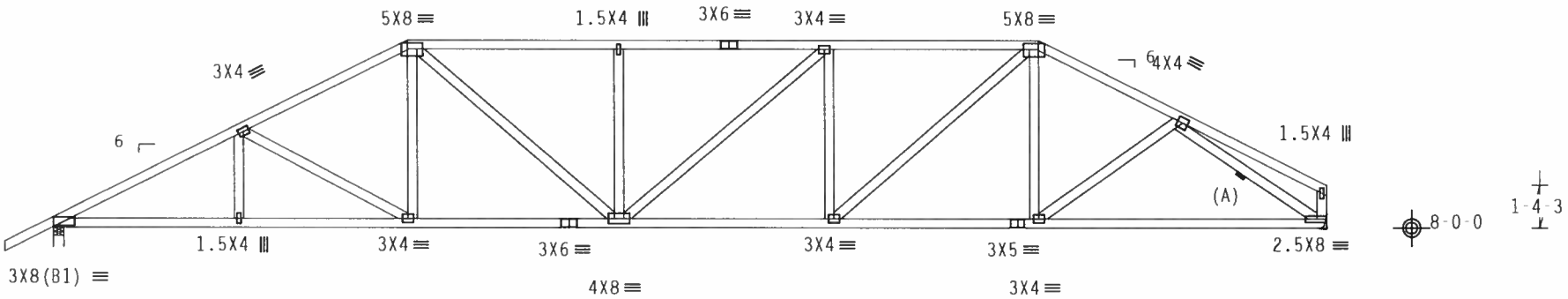
(A) Continuous lateral bracing equally spaced on member.

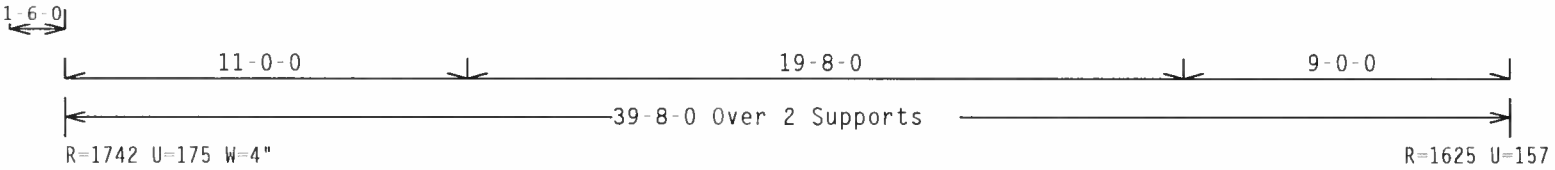
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 26 '07

TC LL	20.0 PSF	REF	R8228- 20470
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360029
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26253
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H13B)

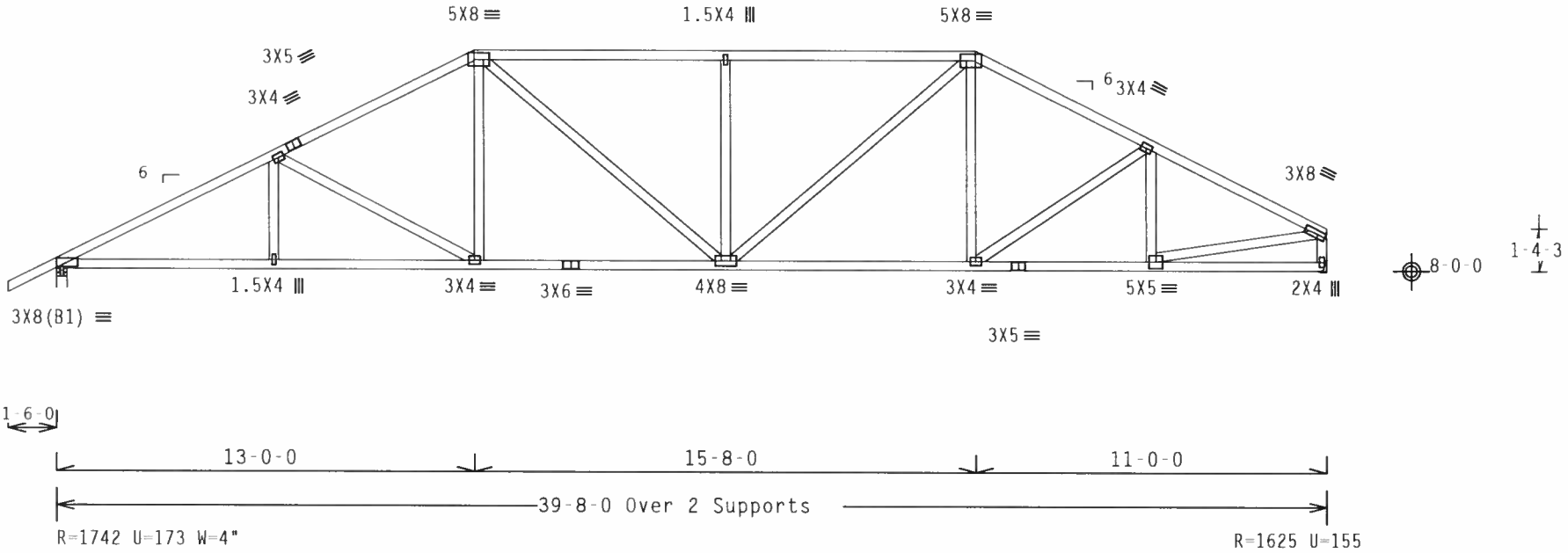
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 26 '07

TC LL	20.0 PSF	REF	R8228- 20471
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360030
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26261
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H15B)

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

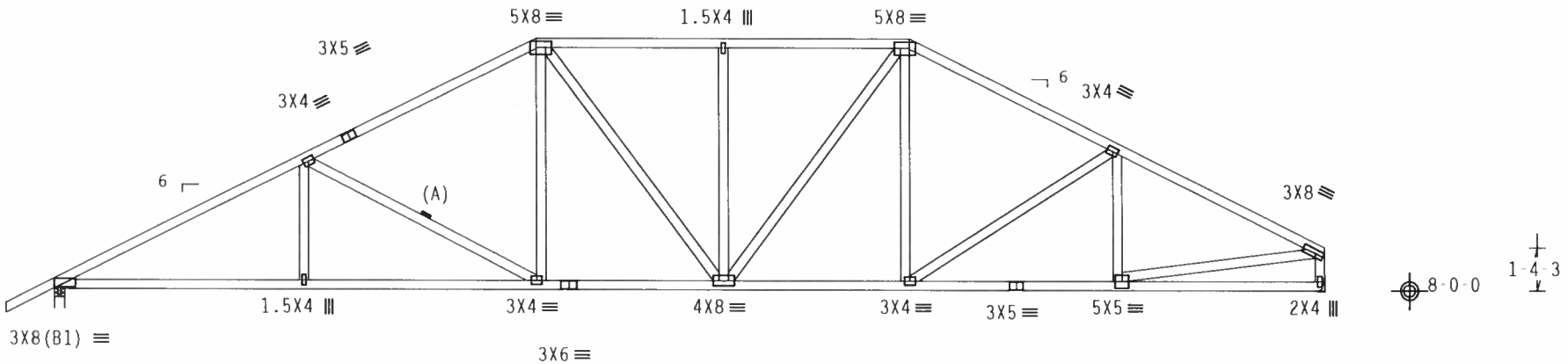
(A) Continuous lateral bracing equally spaced on member.

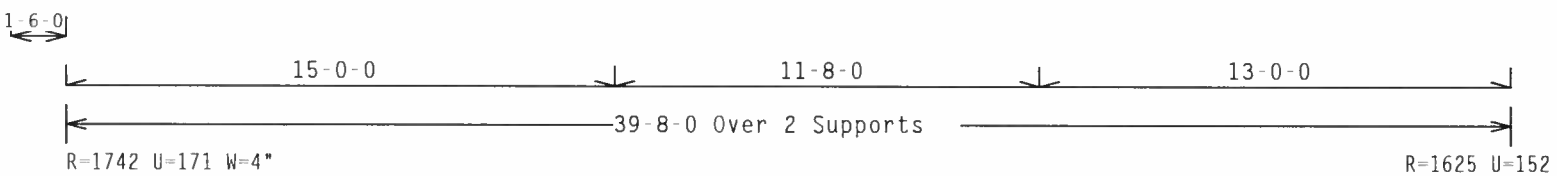
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.04[illegible] QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 279

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 26 '07

TC LL	20.0 PSF	REF	R8228-20472
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360031
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26267
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1TDH8228Z02

(7-381--Fill in later CASON CONSTRUCTION - - , ** - CGE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.

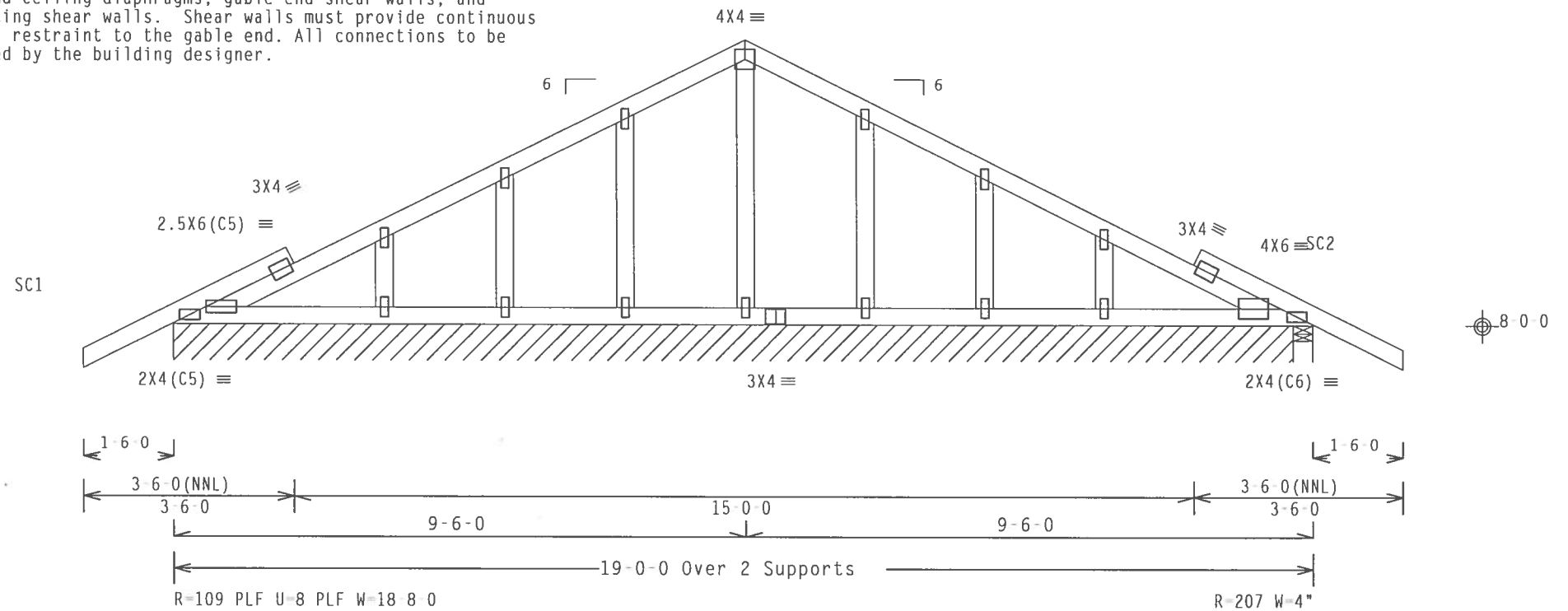
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

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

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042[illegible] QTY:1 FL/-/4/-/E/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 279

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF	R8228- 20473
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360036
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26053
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1TDH8228Z02

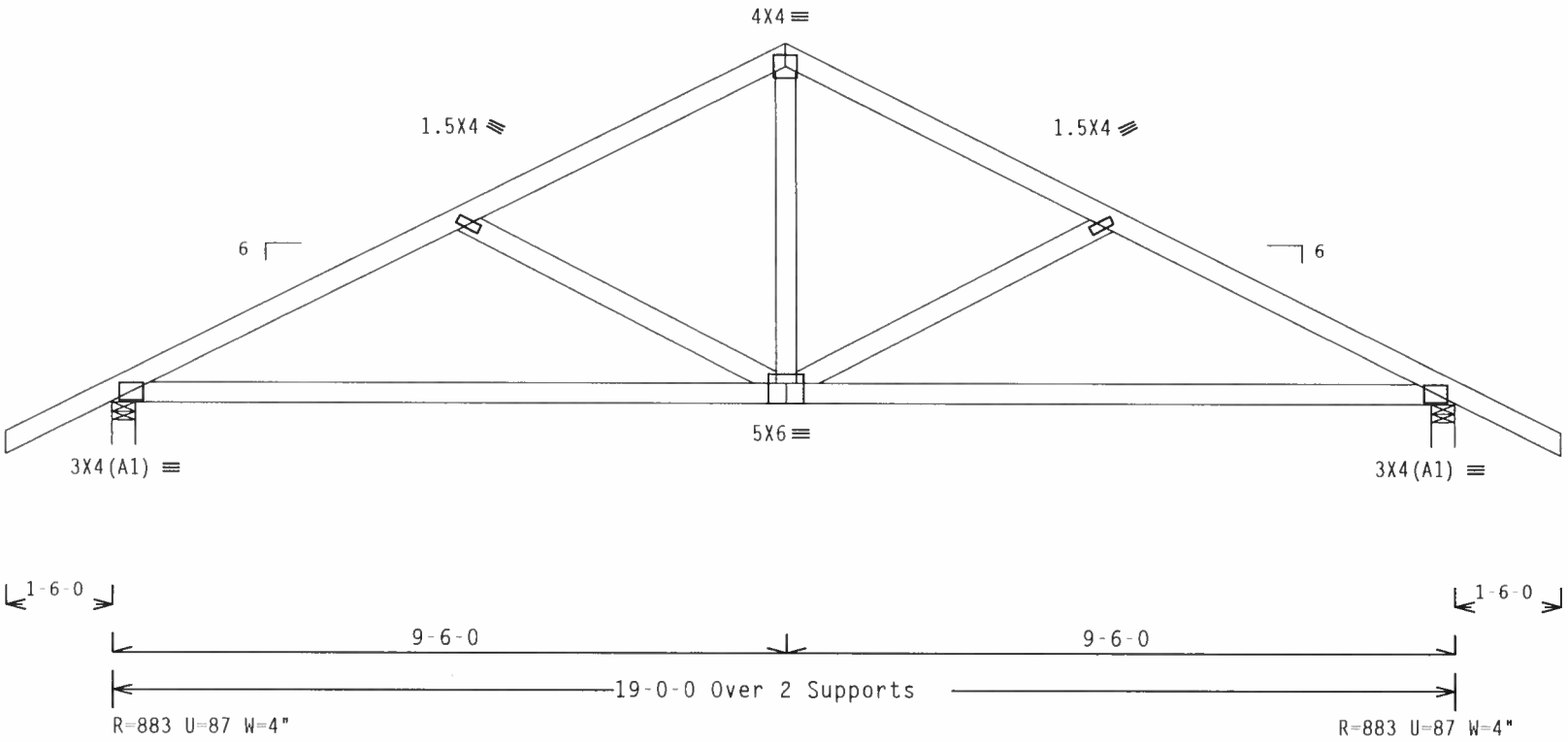
(7 381 Fill in later CASON CONSTRUCTION , ** C)

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF	R8228- 20474
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360013
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	26058
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** CG1)

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP #1 Dense
Webs 2x4 SP #3 :W5 2x4 SP #2 Dense:

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at -1.50 to 62 PLF at 9.50
TC - From 62 PLF at 9.50 to 62 PLF at 20.50
BC - From 4 PLF at -1.50 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 19.00
BC - From 4 PLF at 19.00 to 4 PLF at 20.50
BC - 1625 LB Conc. Load at 1.94, 3.94, 5.94, 7.94, 9.94
BC - 4365 LB Conc. Load at 11.88

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

2 COMPLETE TRUSSES REQUIRED

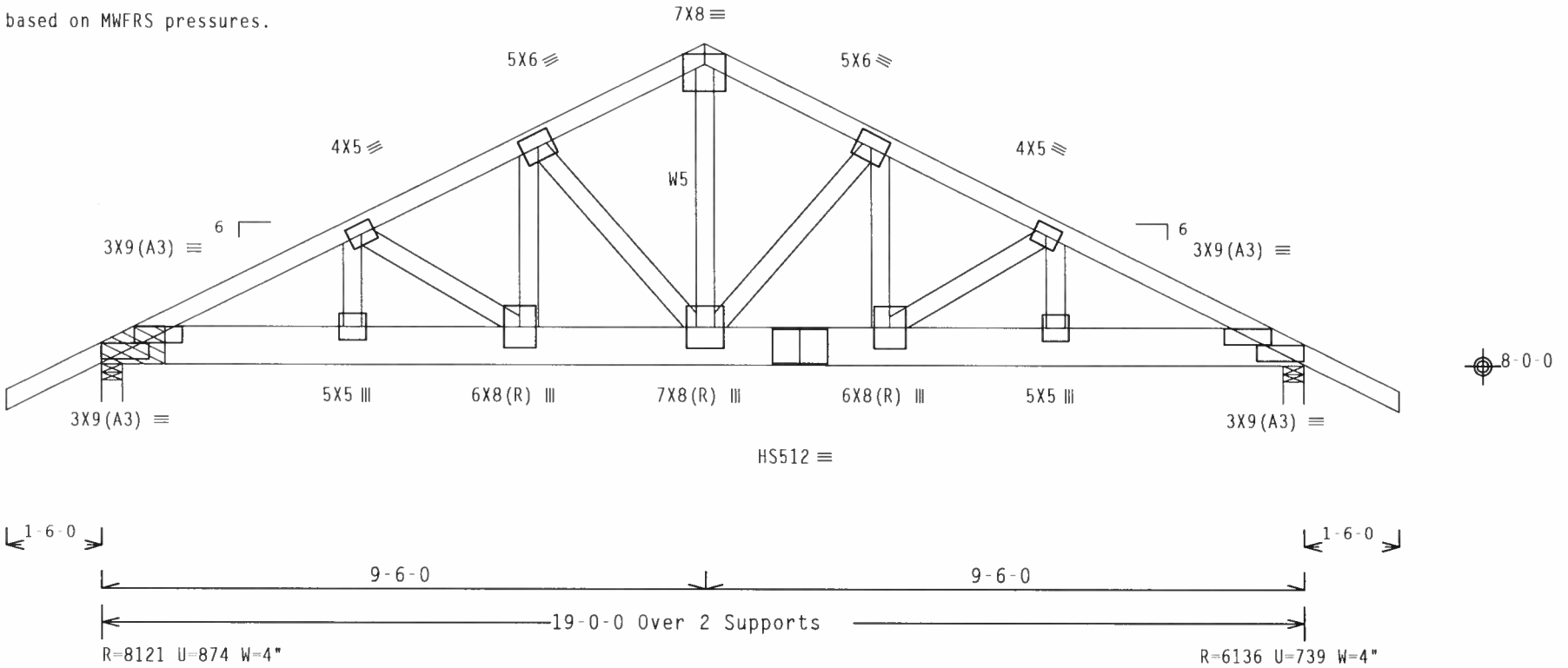
Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Bearing blocks: Nail type: 10d_Box_or_Gun_(0.128"x3",_min.)_nails

BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
1	0.000'	1	12"	4	Rigid Surface

Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK0207 for additional information.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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26 '07

TC LL	20.0 PSF	REF	R8228- 20475
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360037
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26294
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** DGE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

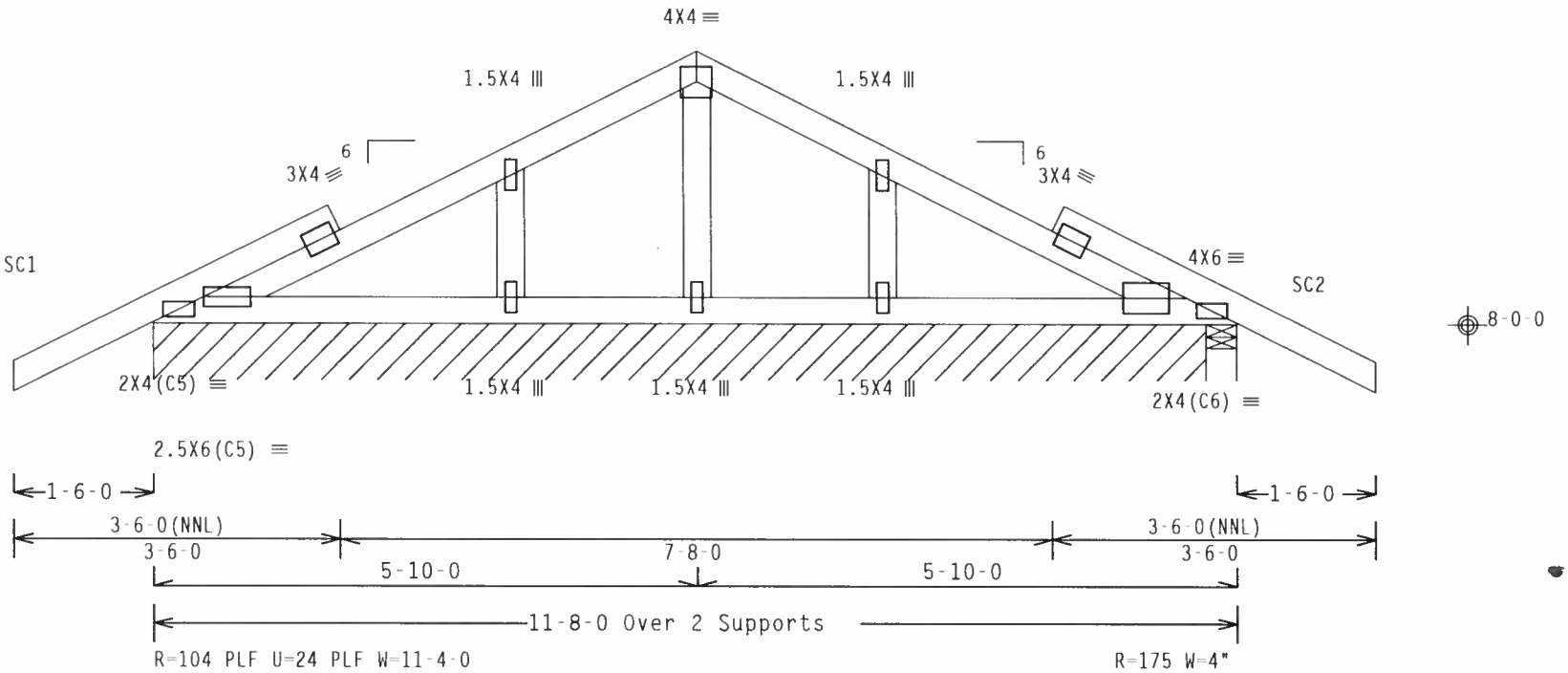
Wind reactions based on MWFRS pressures.

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

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

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

The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF R8228- 20476
TC DL	10.0 PSF	DATE 12/26/07
BC DL	10.0 PSF	DRW HCUSR8228 07360040
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 26062
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** D 1)

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

SPECIAL LOADS
-------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at -1.50 to 62 PLF at 5.83
TC - From 62 PLF at 5.83 to 62 PLF at 13.17
BC - From 4 PLF at -1.50 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 11.67
BC - From 4 PLF at 11.67 to 4 PLF at 13.17
BC - 5286 LB Conc. Load at 7.13
BC - 1627 LB Conc. Load at 9.06, 11.06

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

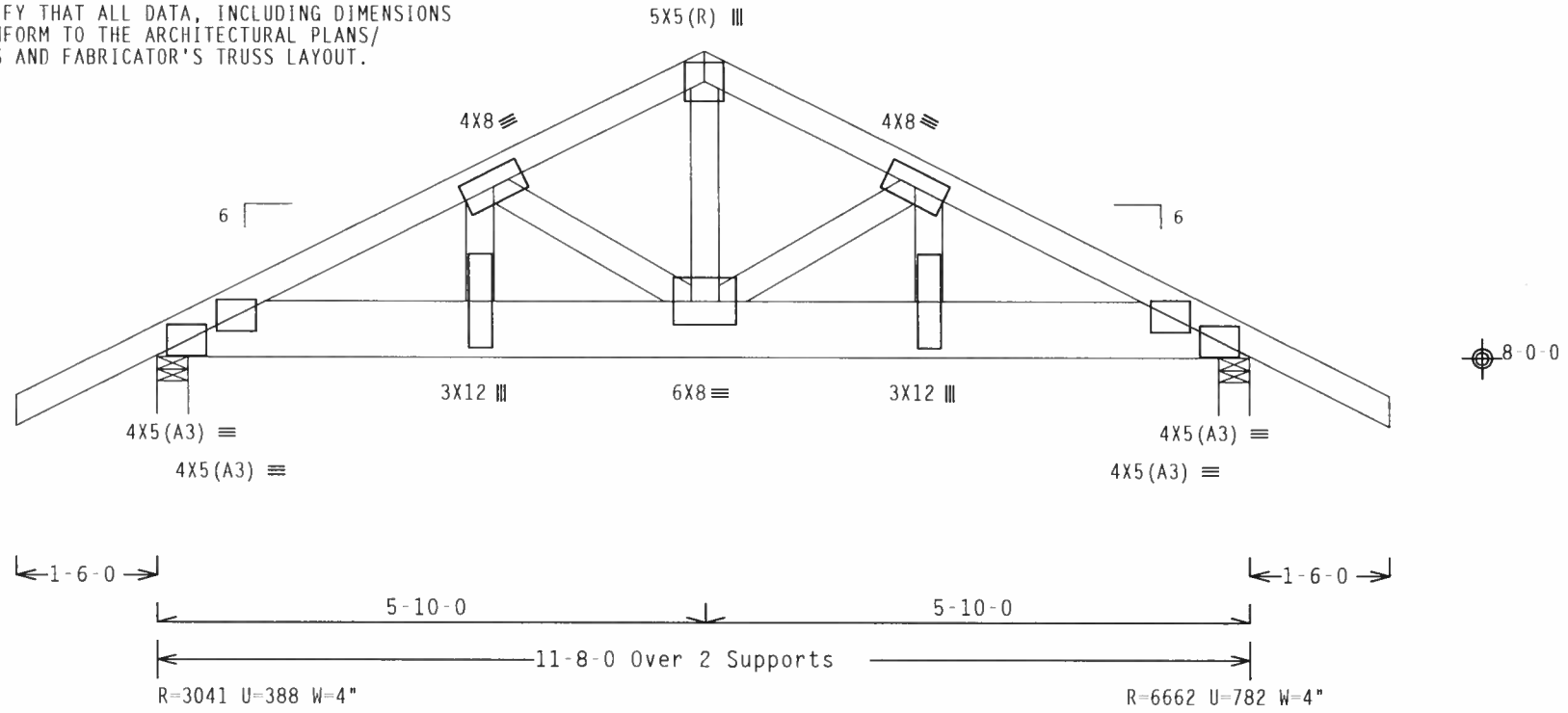
IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND TRUSS FABRICATOR TO REVIEW THIS DWG PRIOR TO CUTTING LUMBER TO VERIFY THAT ALL DATA, INCLUDING DIMENSIONS AND LOADS, CONFORM TO THE ARCHITECTURAL PLANS/ SPECIFICATIONS AND FABRICATOR'S TRUSS LAYOUT.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF	R8228- 20477
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360038
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26099
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

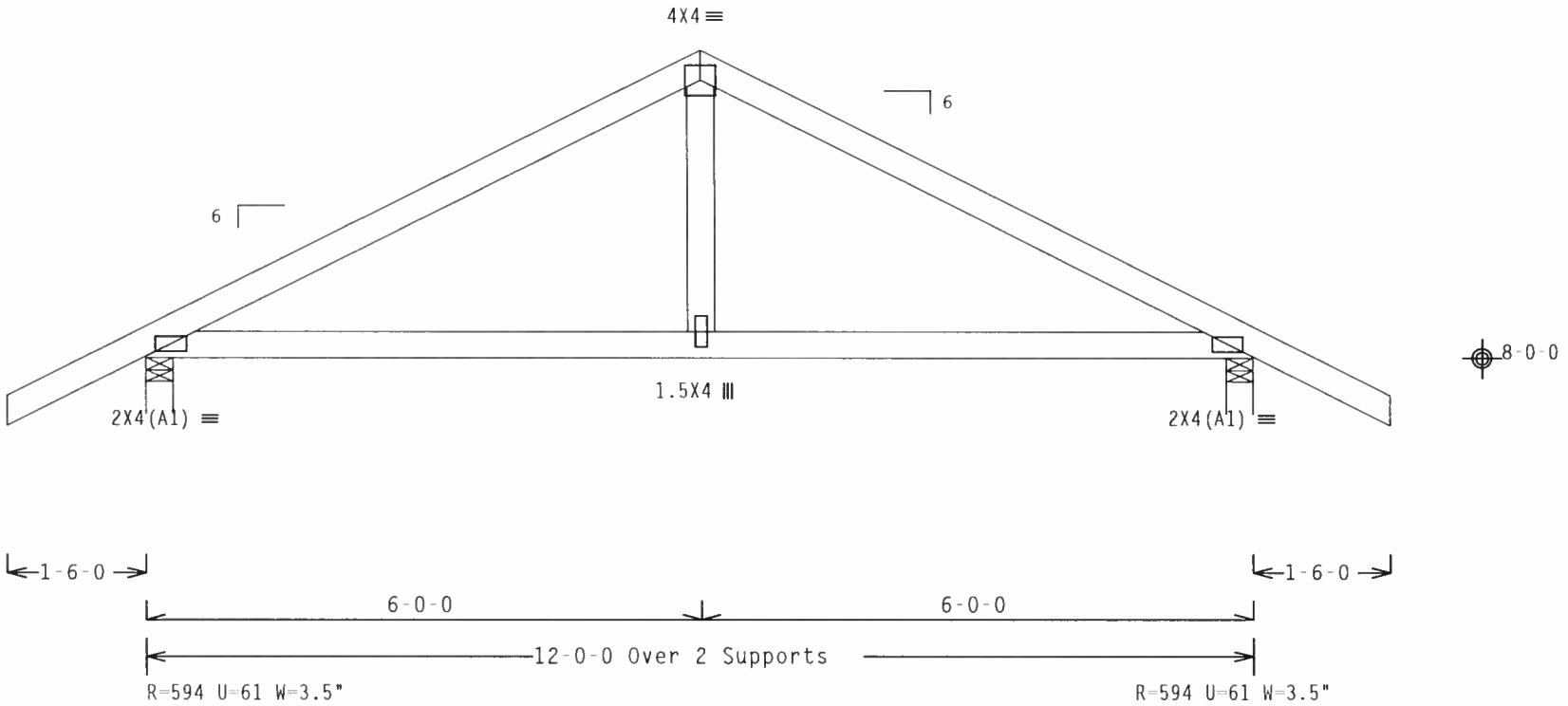
(7 381 Fill in later CASON CONSTRUCTION , ** E)

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 279

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF	R8228- 20478
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360014
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	26018
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

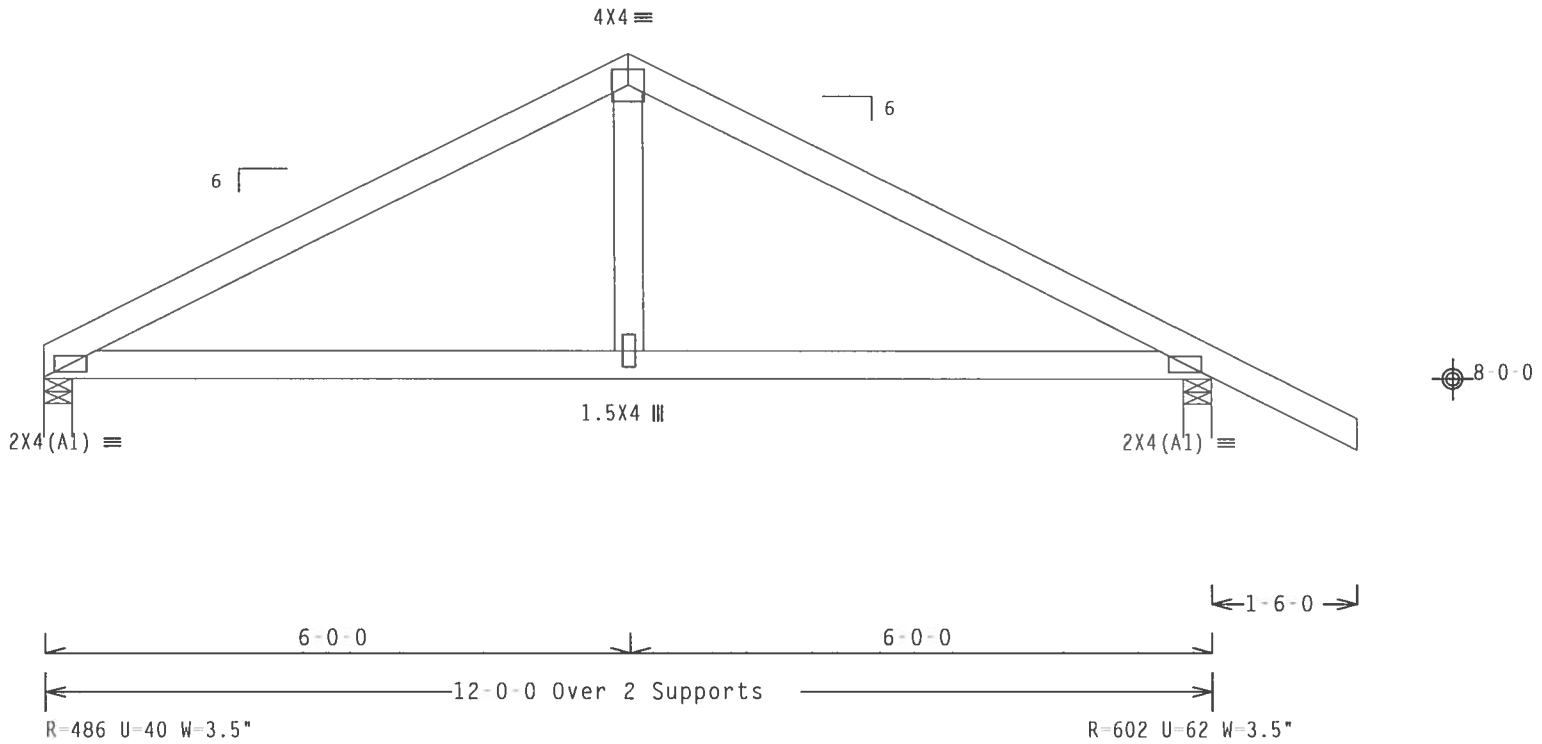
(7-381--Fill in later CASON CONSTRUCTION -- , ** - E1)

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.043 11 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 26 '07

TC LL	20.0 PSF	REF	R8228-20479
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360015
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	26022
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

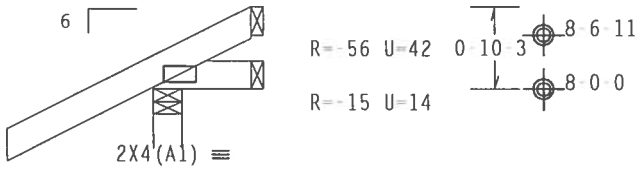
(7-381--Fill in later CASON CONSTRUCTION -- , ** - CJ1)

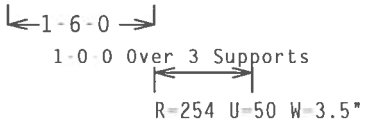
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF R8228-20480
TC DL	10.0 PSF	DATE 12/21/07
BC DL	10.0 PSF	DRW HCUSR8228 07355002
BC LL	0.0 PSF	HC-ENG HM/AP
TOT.LD.	40.0 PSF	SEQN- 21741
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1TDH8228Z02

(7-381--Fill in later CASON CONSTRUCTION -- , ** - HJ5)

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

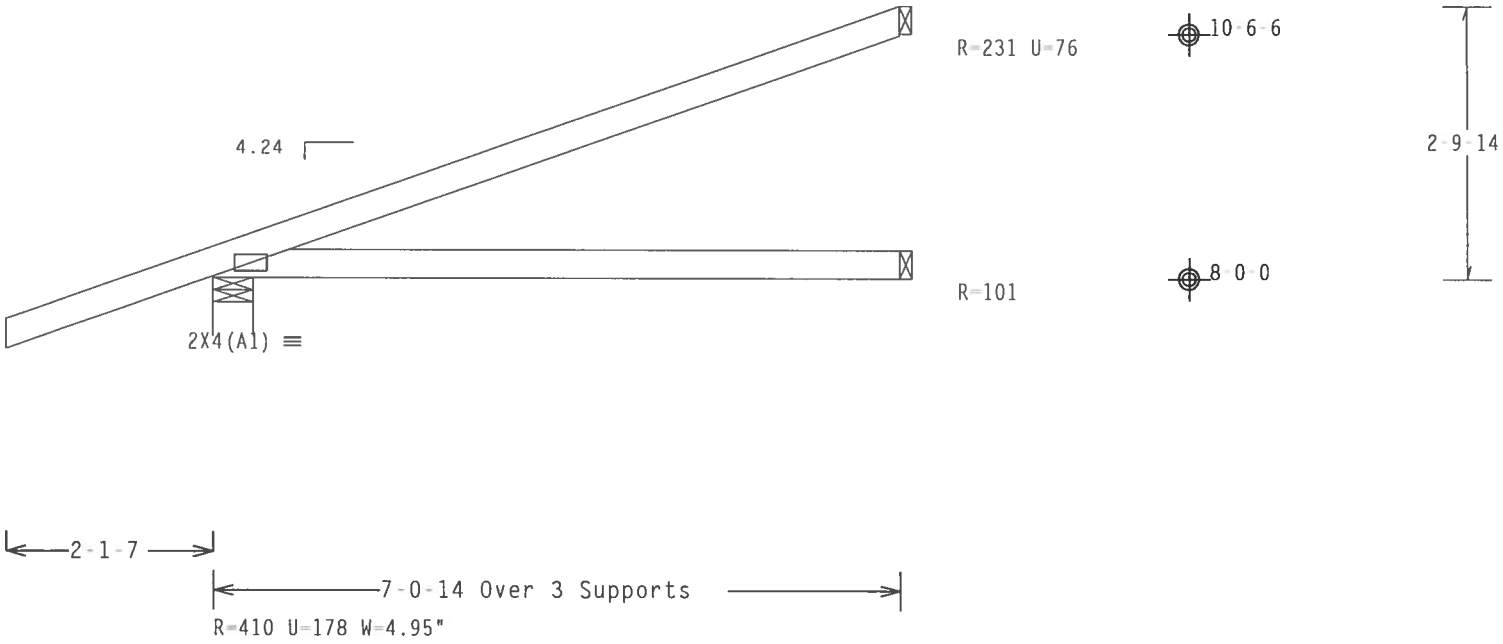
Wind reactions based on MWFRS pressures.

Hipjack supports 5-0-0 setback jacks with no webs.

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

TC	From	61 PLF at	2.12 to	61 PLF at	7.07
BC	From	4 PLF at	2.12 to	4 PLF at	0.00
BC	From	20 PLF at	0.00 to	20 PLF at	7.07
TC		111 LB Conc. Load at	1.48		
TC		124 LB Conc. Load at	4.31		
BC		31 LB Conc. Load at	1.48		
BC		48 LB Conc. Load at	4.31		

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF	R8228- 20481
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360034
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	26008
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** HJ7)

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

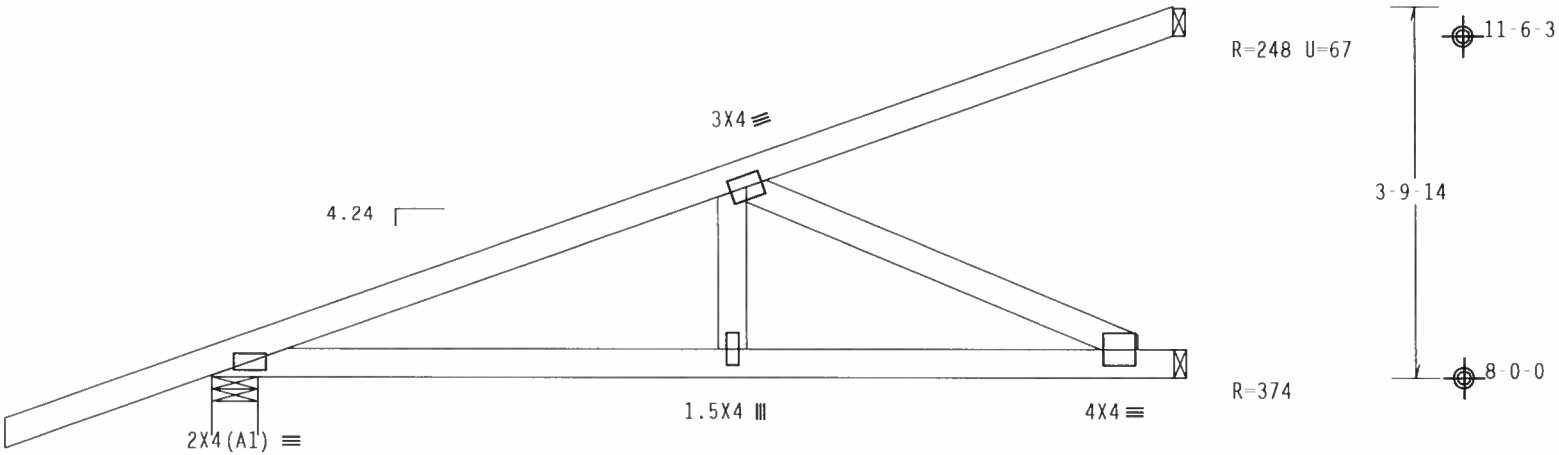
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

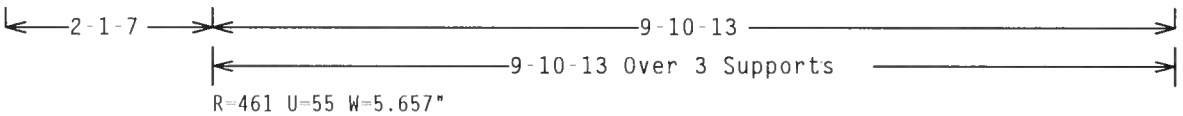
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

Wind reactions based on MWFRS pressures.

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





Design Crit: TPI-2002(STD)

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.37.0521 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

26 '07

TC LL	20.0 PSF	REF	R8228- 20482
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360033
BC LL	0.0 PSF		HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN-	8882 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

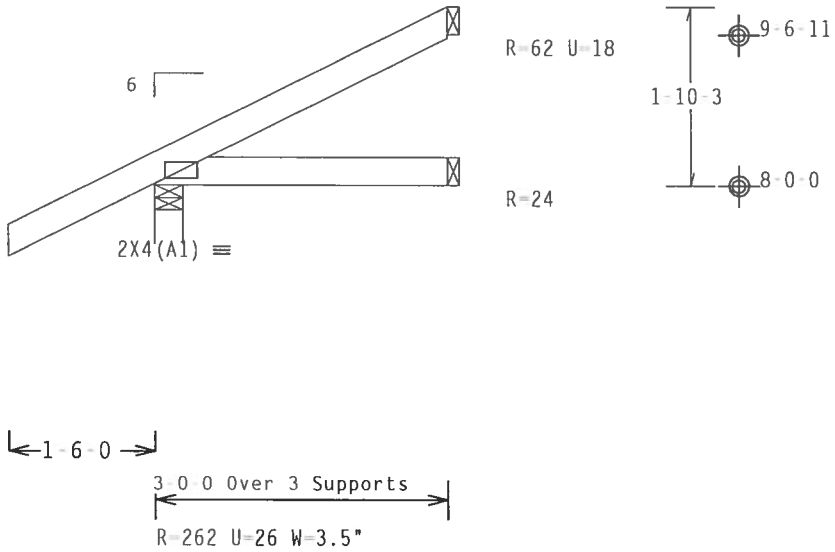
(7-381--Fill in later CASON CONSTRUCTION -- , ** - CJ3)

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.0424 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '07

TC LL	20.0 PSF	REF	R8228-20483
TC DL	10.0 PSF	DATE	12/21/07
BC DL	10.0 PSF	DRW	HCUSR8228 07355001
BC LL	0.0 PSF	HC-ENG	HM/AP *
TOT.LD.	40.0 PSF	SEQN-	21747
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

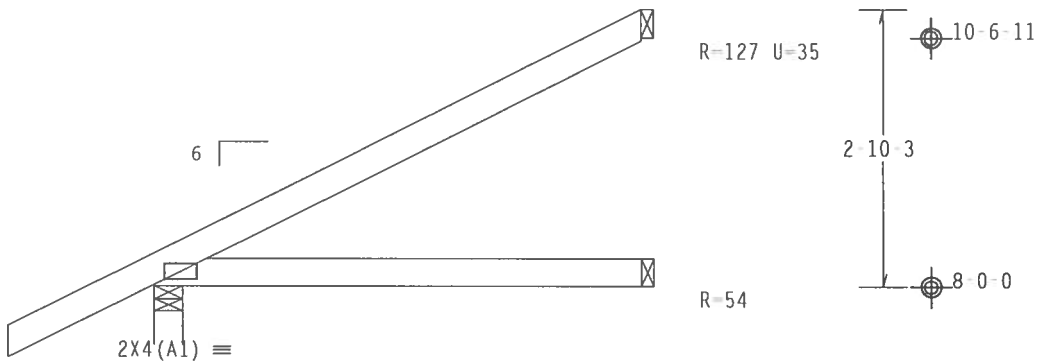
(7-381--Fill in later CASON CONSTRUCTION -- , ** - EJ5)

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 26 '07

TC LL	20.0 PSF	REF	R8228-20484
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360016
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	26003
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** H5E)

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

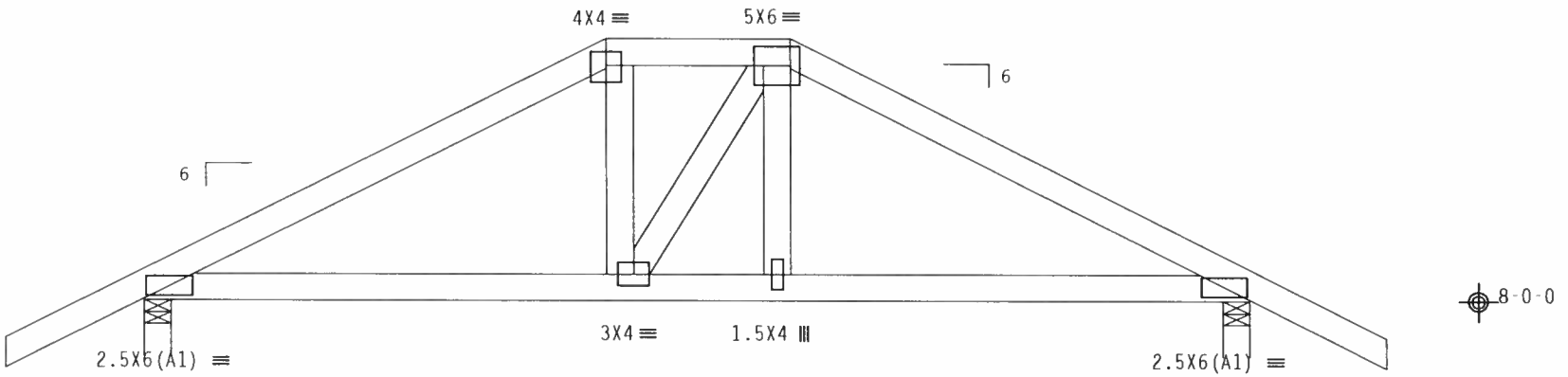
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

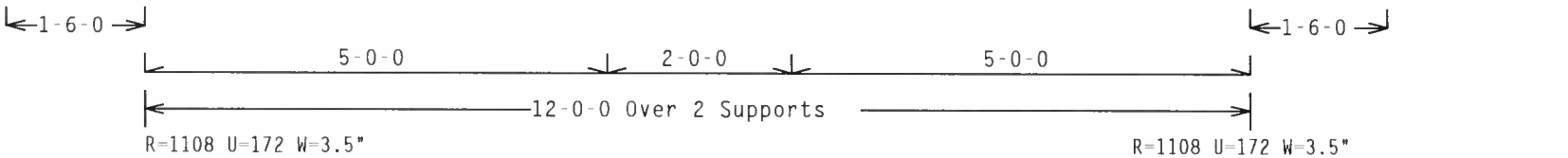
SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC	From	62 PLF	at	-1.50	to	62 PLF	at 5.00
TC	From	62 PLF	at	5.00	to	62 PLF	at 7.00
TC	From	62 PLF	at	7.00	to	62 PLF	at 13.50
BC	From	4 PLF	at	-1.50	to	4 PLF	at 0.00
BC	From	20 PLF	at	0.00	to	20 PLF	at 12.00
BC	From	4 PLF	at	12.00	to	4 PLF	at 13.50

TC - 359 LB Conc. Load at 5.00, 7.00
BC - 155 LB Conc. Load at 5.00, 7.00

#1 hip supports 5-0-0 jacks with no webs.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 26 '07

TC LL	20.0 PSF	REF	R8228- 20485
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360039
BC LL	0.0 PSF		HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN-	26014
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

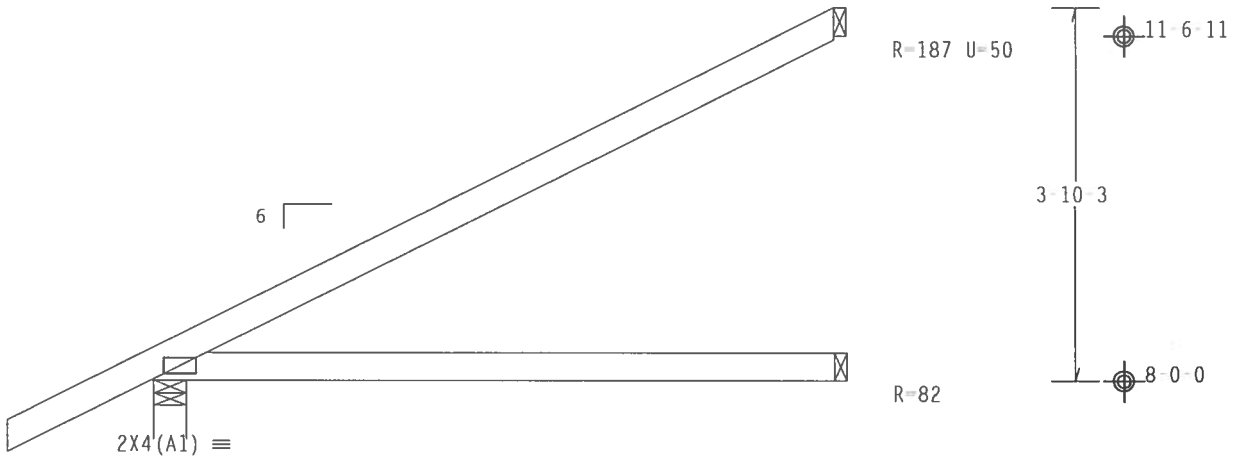
(7-381--Fill in later CASON CONSTRUCTION -- , ** - EJ7)

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 26 '07

TC LL	20.0 PSF	REF	R8228-20486
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360017
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	26026
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** EJ71)

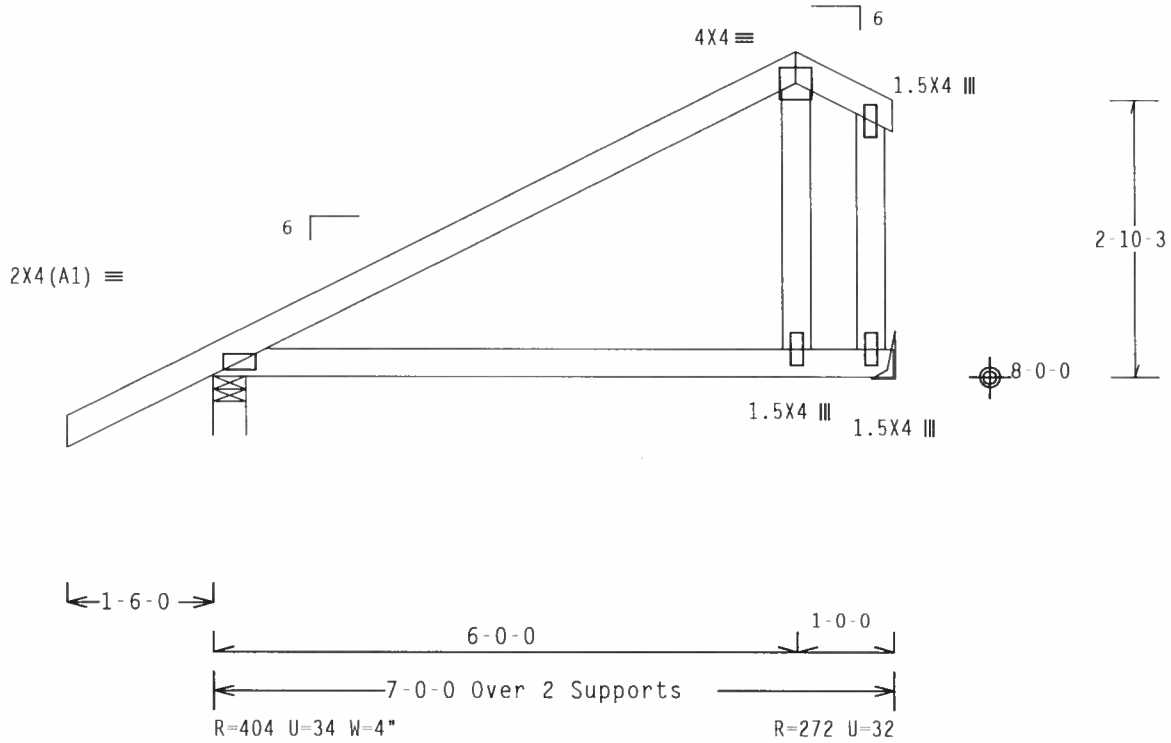
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization #0

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 26 '07

TC LL	20.0 PSF	REF	R8228- 20487
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360018
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	26034
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7 381 Fill in later CASON CONSTRUCTION , ** EJ72)

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

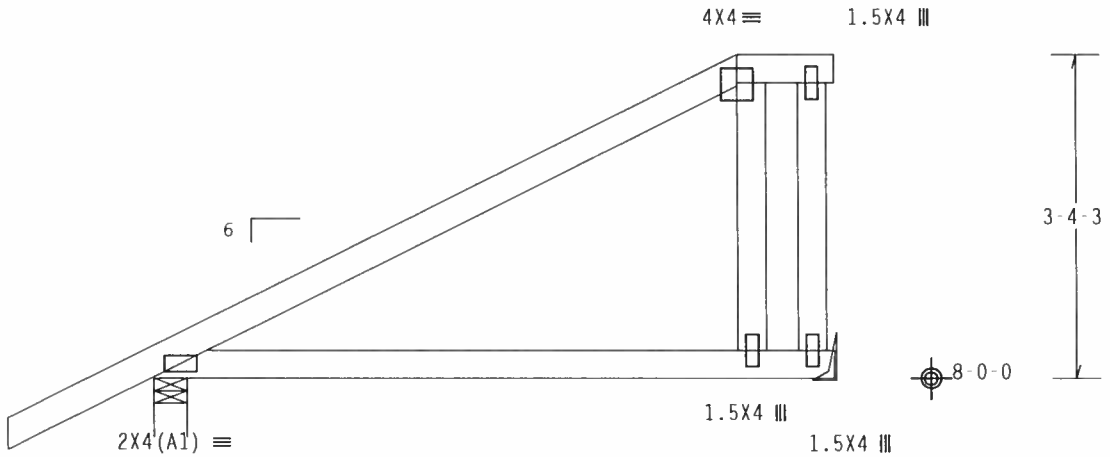
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

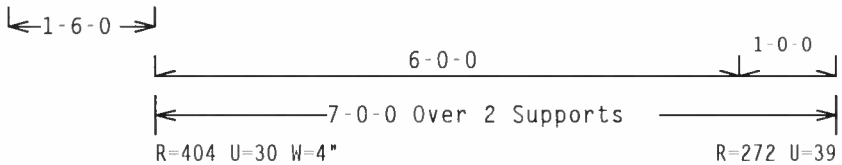
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 279

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 26 '07

TC LL	20.0 PSF	REF	R8228- 20488
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360019
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	26039
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

(7-381--Fill in later CASON CONSTRUCTION -- , ** - EJ73)

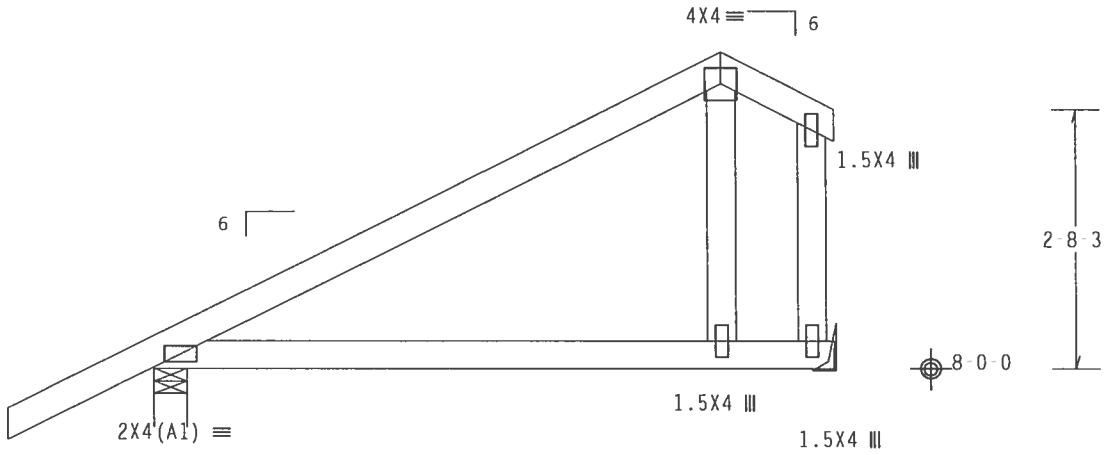
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

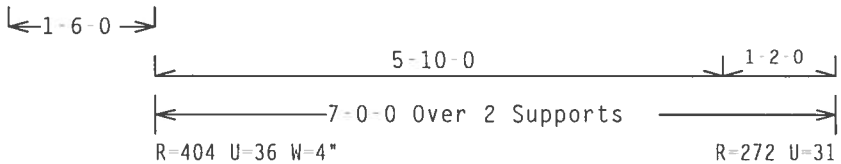
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 26 '07

TC LL	20.0 PSF	REF	R8228-20489
TC DL	10.0 PSF	DATE	12/26/07
BC DL	10.0 PSF	DRW	HCUSR8228 07360020
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	26044
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TDH8228Z02

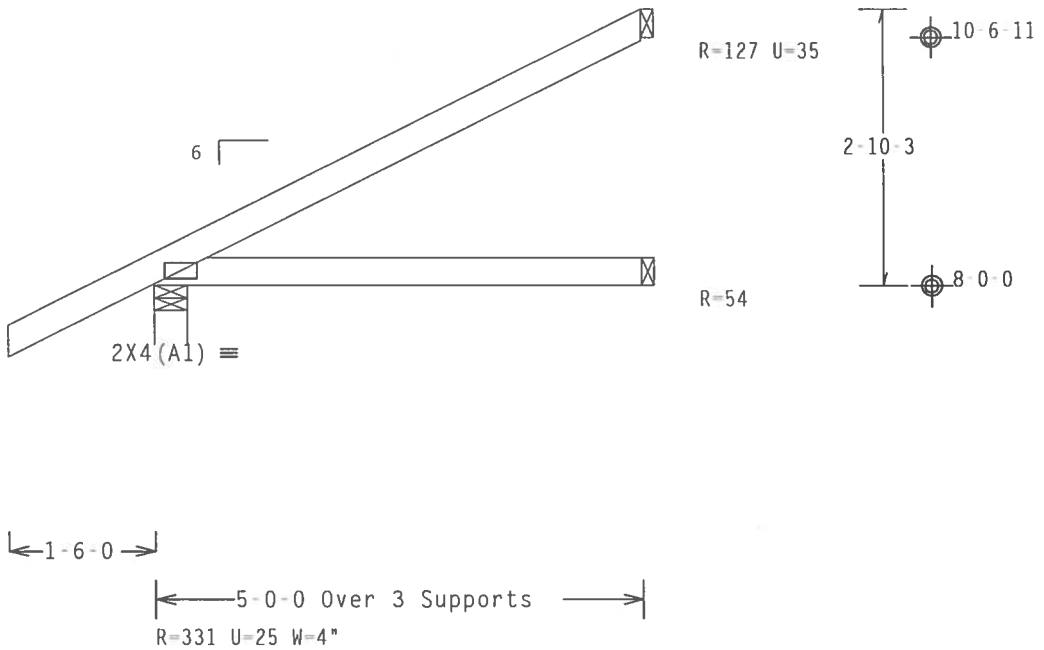
(7-381--Fill in later CASON CONSTRUCTION -- , ** - CJ5)

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

Wind reactions based on MWFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.042

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 279

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 26 '07

TC LL	20.0 PSF	REF R8228- 20490
TC DL	10.0 PSF	DATE 12/21/07
BC DL	10.0 PSF	DRW HCUSR8228 07355003
BC LL	0.0 PSF	HC-ENG HM/AP *
TOT.LD.	40.0 PSF	SEQN- 26191
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TDH8228Z02

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

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

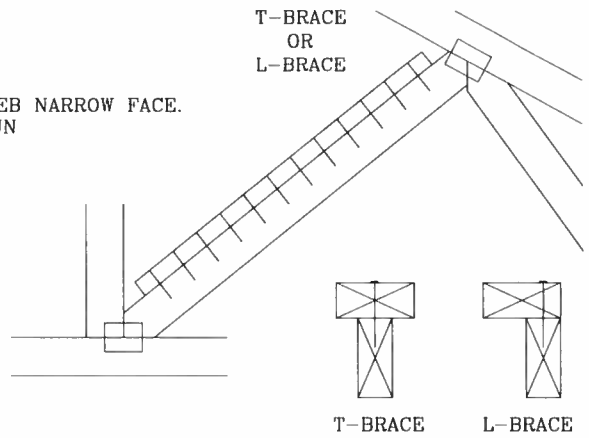
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

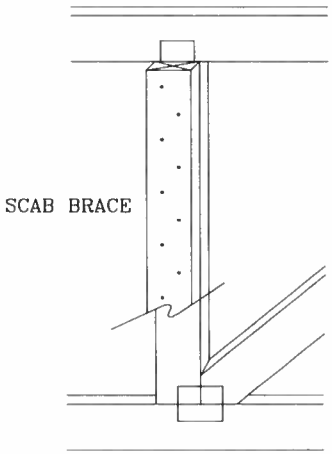
T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.
ATTACH WITH 10d BOX OR GUN (0.128"x 3.",MIN) NAILS.
AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d BOX OR GUN (0.128"x 3.",MIN) NAILS.
AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579,640

ALPINE
ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 26 '07

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	2/23/07
BC DL	PSF	DRWG	BRCLBSUB0207
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

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

MAX GABLE VERTICAL LENGTH

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

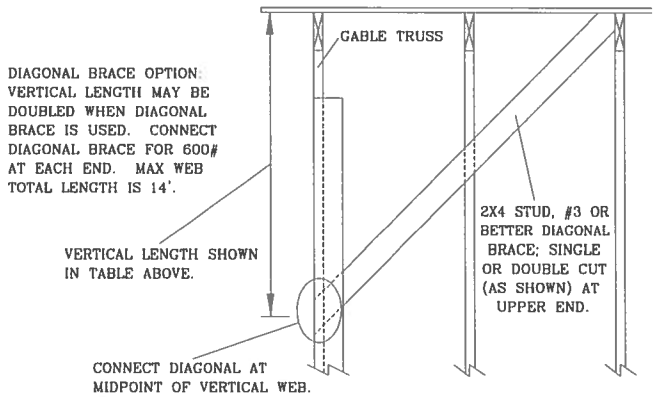
SOUTHERN PINE
#3
STUD
STANDARD

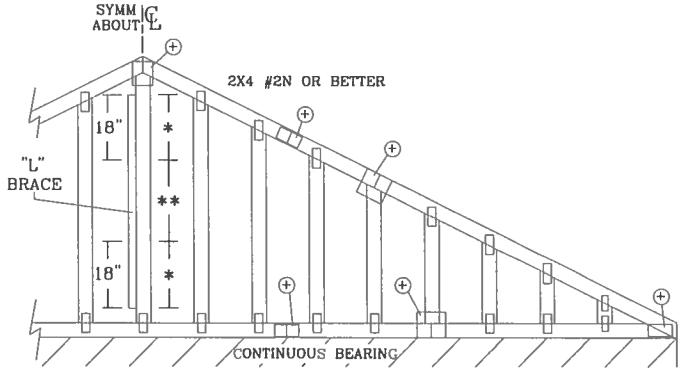
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

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

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

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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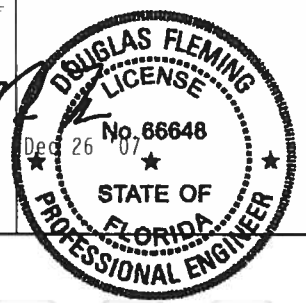
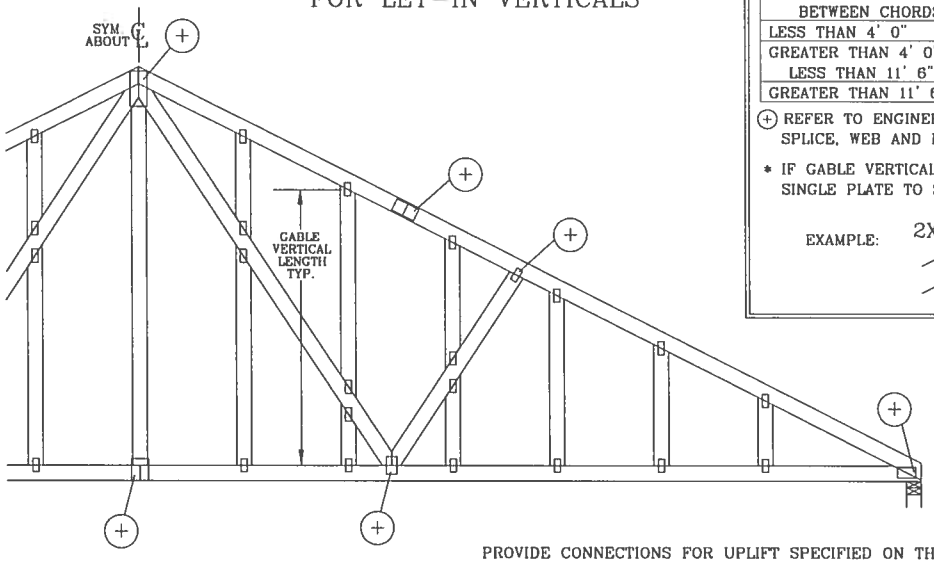


MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11015
DATE	2/23/07
DRWG	A11015EE0207
-ENG	

GABLE DETAIL
FOR LET-IN VERTICALS

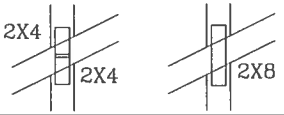


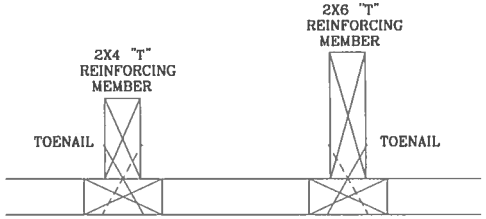
GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

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

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

EXAMPLE:





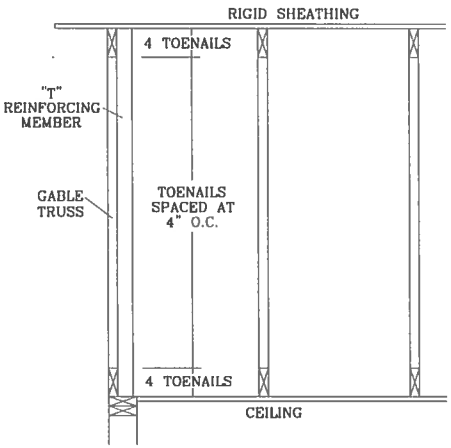
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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

WEB LENGTH INCREASE W/ "T" BRACE

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

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



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

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

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN0207, A10015EN0207, A09015EN0207, A08015EN0207, A07015EN0207,
A11030EN0207, A10030EN0207, A09030EN0207, A08030EN0207, A07030EN0207
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A08515EC0207,
A13030EC0207, A12030EC0207, A11030EC0207, A10030EC0207, A08530EC0207
ASCE 7-02 GABLE DETAIL DRAWINGS
A13015EE0207, A12015EE0207, A11015EE0207, A10015EE0207, A08515EE0207,
A13030EE0207, A12030EE0207, A11030EE0207, A10030EE0207, A08530EE0207
ASCE 7-05 GABLE DETAIL DRAWINGS
A13015E50207, A12015E50207, A11015E50207, A10015E50207, A08515E50207,
A13030E50207, A12030E50207, A11030E50207, A10030E50207, A08530E50207

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

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE
ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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

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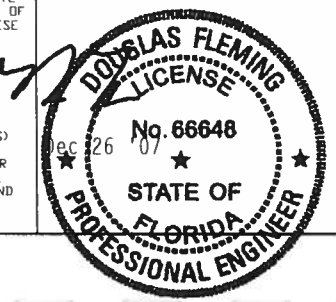


MAX TOT. LD. 60 PSF
DUR. FAC. ANY
MAX SPACING 24.0"

REF	LET-IN VERT
DATE	2/23/07
DRWG	GBLLETIN0207
-ENG	DLJ/KAR

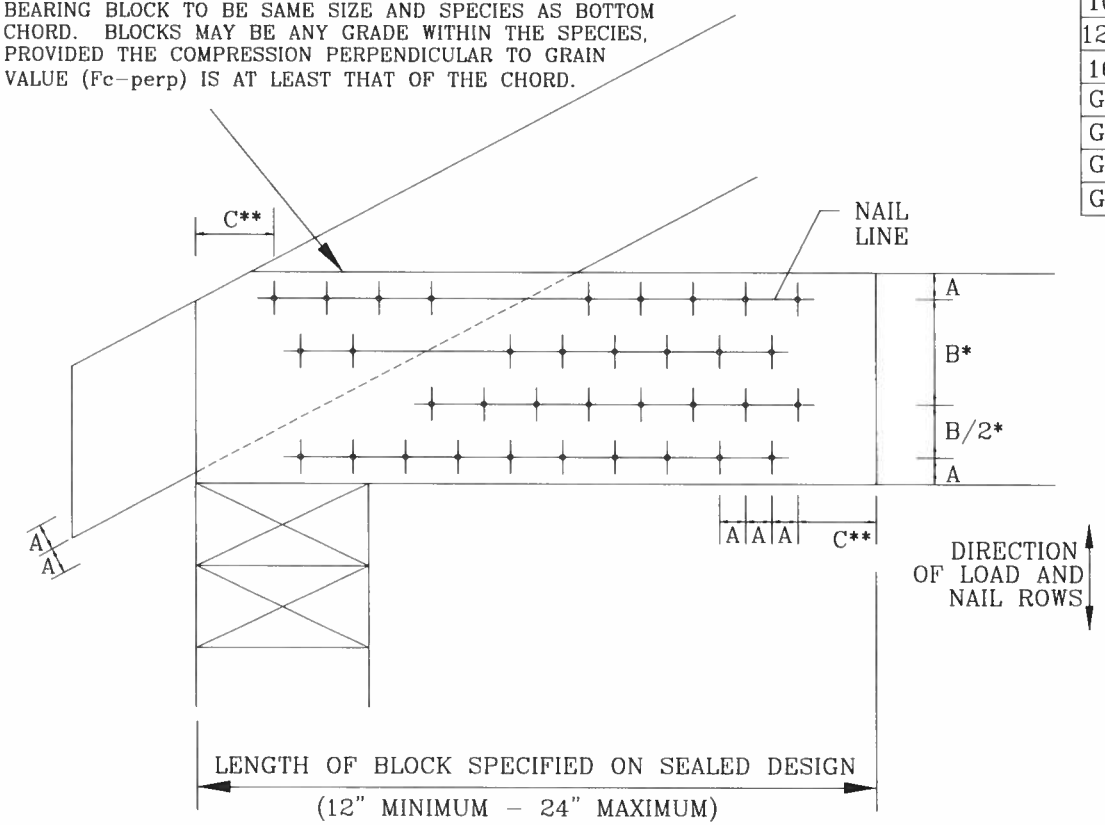
BEARING BLOCK NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

A – EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
B – SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
C – END DISTANCE (15 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:
- • SPACING MAY BE REDUCED BY 50%
- •• SPACING MAY BE REDUCED BY 33%

BEARING BLOCK TO BE SAME SIZE AND SPECIES AS BOTTOM CHORD. BLOCKS MAY BE ANY GRADE WITHIN THE SPECIES, PROVIDED THE COMPRESSION PERPENDICULAR TO GRAIN VALUE (Fc–perp) IS AT LEAST THAT OF THE CHORD.



MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

NAIL TYPE	CHORD SIZE 2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"X 2.5",MIN)	3	6	9	12	15
10d BOX (0.128"X 3.",MIN)	3	5	7	10	12
12d BOX (0.128"X 3.25",MIN)	3	5	7	10	12
16d BOX (0.135"X 3.5",MIN)	3	5	7	10	12
20d BOX (0.148"X 4.",MIN)	2	4	5	6	8
8d COMMON (0.131"X 2.5",MIN)	3	5	7	10	12
10d COMMON (0.148"X 3.",MIN)	2	4	6	8	10
12d COMMON (0.148"X 3.25",MIN)	2	4	6	8	10
16d COMMON (0.162"X 3.5",MIN)	2	4	6	8	10
GUN (0.120"X 2.5",MIN)	3	6	8	11	14
GUN (0.131"X 2.5",MIN)	3	5	7	10	12
GUN (0.120"X 3.",MIN)	3	6	8	11	14
GUN (0.131"X 3.",MIN)	3	5	7	10	12

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES A	B*	C**
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"
10d BOX (0.128"X 3.",MIN)	7/8"	1 5/8"	2"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"
20d BOX (0.148"X 4.",MIN)	1"	1 7/8"	2 1/4"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"
10d COMMON (0.148"X 3.",MIN)	1"	1 7/8"	2 1/4"
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"
16d COMMON (0.162"X 3.5",MIN)	1'	2"	2 1/2"
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"
GUN (0.120"X 3.",MIN)	3/4"	1 1/2"	1 7/8"
GUN (0.131"X 3.",MIN)	7/8"	1 5/8"	2"

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

ALPINE
ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 26 07

REF	BEARING BLOCK
DATE	2/23/07
DRWG	CNBRGBLK0207
-ENG	SJP/KAR

Load Short Form
Entire House
Touchstone Heating and Air, Inc.

Job: Cottonwood model
Date: Dec 21, 2007
By: ell

P.O. Box 327, Lake Butler, Fl 32054 Phone: 386-496-3467 Fax: 386-496-3147

Project Information

For: Cason Construction
32026

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	68	75
Design TD (°F)	35	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make	Trane
Trade	XB13 Weathertron
Model	2TWB3024A1

Efficiency	8 HSPF	
Heating input		
Heating output	20000	Btuh @ 47°F
Temperature rise	24	°F
Actual air flow	760	cfm
Air flow factor	0.034	cfm/Btuh
Static pressure	0.00	in H2O
Space thermostat		

COOLING EQUIPMENT

Make	Trane
Trade	XB13 Weathertron
Cond	2TWB3024A1
Coil	TXC031S3+*UY080R9V3

Efficiency	13.3 SEER	
Sensible cooling	15960	Btuh
Latent cooling	6840	Btuh
Total cooling	22800	Btuh
Actual air flow	760	cfm
Air flow factor	0.048	cfm/Btuh
Static pressure	0.00	in H2O
Load sensible heat ratio	0.84	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Master Bath	77	2142	1186	73	57
Master Suite	182	2253	1280	76	61
WIC	42	691	253	23	12
Laundry	78	96	192	3	9
Family Room	369	3886	2457	132	118
Kitchen/Dining	224	4640	3876	157	186
Foyer	77	1307	770	44	37
BR 3	134	1937	997	66	48
BR 2	177	4015	1576	136	76
Bath	45	1446	3262	49	156

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Entire House	1404	22413	15848	760	760
Other equip loads		973	473		
Equip. @ 0.97 RSM			15831		
Latent cooling			3108		
TOTALS	1404	23386	18939	760	760

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Duct System Summary
Entire House
Touchstone Heating and Air, Inc.

Job: Cottonwood model
Date: Dec 21, 2007
By: ell

P.O. Box 327. Lake Butler, Fl 32054 Phone: 386-496-3467 Fax: 386-496-3147

Project Information

For: Cason Construction
32026

	Heating	Cooling
External static pressure	0.00 in H2O	0.00 in H2O
Pressure losses	0.15 in H2O	0.15 in H2O
Available static pressure	-0.1 in H2O	-0.1 in H2O
Supply / return available pressure	-0.07 / -0.07 in H2O	-0.07 / -0.07 in H2O
Lowest friction rate	***0.880*** in/100ft	***0.880*** in/100ft
Actual air flow	760 cfm	760 cfm
Total effective length (TEL)	0 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	Rect Size (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Master Bath	h 2142	73	57	0.880	5	0x0	VIFx	0.0	0.0	
Master Suite	h 2253	76	61	0.880	5	0x0	VIFx	0.0	0.0	
WIC	h 691	23	12	0.880	4	0x0	VIFx	0.0	0.0	
Laundry	c 192	3	9	0.880	4	0x0	VIFx	0.0	0.0	
Family Room	h 3886	132	118	0.880	7	0x0	VIFx	0.0	0.0	
Kitchen/Dining	c 3876	157	186	0.880	8	0x0	VIFx	0.0	0.0	
Foyer	h 1307	44	37	0.880	4	0x0	VIFx	0.0	0.0	
BR 3	h 1937	66	48	0.880	5	0x0	VIFx	0.0	0.0	
BR 2	h 4015	136	76	0.880	7	0x0	VIFx	0.0	0.0	
Bath	c 3262	49	156	0.880	7	0x0	VIFx	0.0	0.0	

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	RectSize (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	760	760	0.0	0.880	544	16	0x 0		VIFx	

Bold/italic values have been manually overridden

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1, Sub: Green Acres, Plat: , , FL, 32024-** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank Ratio	X Multiplier	X Credit Multiplier	= Total
3		2635.00	7905.0	80.0	0.92	3		1.00	2635.00	1.00	7905.0
				As-Built Total:							**7905.0**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
5665	**7571**	**7905**	**21141**	**4693**	**6806**	**7905**	**19404**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1, Sub: Green Acres, Plat: , , FL, 32024-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.1

The higher the score, the more efficient the home.

Spec House, Lot: 1, Sub: Green Acres, Plat: , , FL, 32024-

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 36.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	No			
6.	Conditioned floor area (ft²)	1420 ft²		c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT)	7a (Sngle Default) 165.3 ft²		a. Electric Heat Pump	Cap: 36.0 kBtu/hr
	b. SHGC:				HSPF: 7.70
	(or Clear or Tint DEFAULT)	7b. (Clear) 165.3 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 175.0(p) ft		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 80.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 998.7 ft²			EF: 0.92
	b. Frame, Wood, Exterior	R=13.0, 198.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 1600.0 ft²	15.	HVAC credits	PT,
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts(Leak Free)			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

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

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

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

Energy Code Compliance

Duct System Performance Report

Project Name:	Cason Construction - Cottonwood Model	Builder:	Nathan Peterson Const.
Address:		Permitting Office:	
City, State:	, FL 32024-	Permit Number:	
Owner:	Spec House	Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

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

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

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____

Residential System Sizing Calculation

Summary

Spec House

, FL 32024-

Project Title:
Cason Construction - Cottonwood Model

Code Only
Professional Version
Climate: North

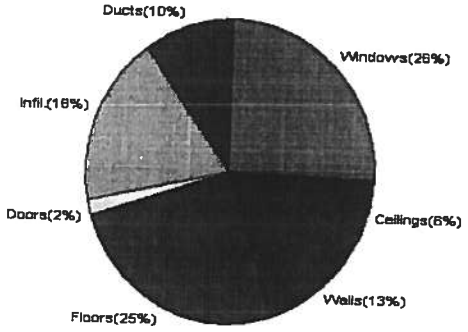
1/2/2008

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	**30162**	**Btuh**	**Total cooling load calculation**	**37891**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	119.4	36000	Sensible (SHR = 0.75)	87.9	27000
Heat Pump + Auxiliary(0.0kW)	119.4	36000	Latent	125.6	9000
			Total (Electric Heat Pump)	95.0	36000

WINTER CALCULATIONS

Winter Heating Load (for 1420 sqft)

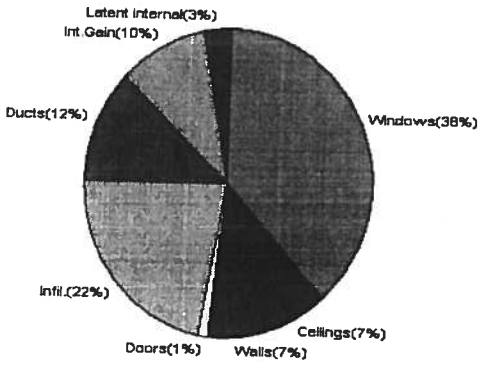
Load component			Load	
Window total	165	sqft	7767	Btuh
Wall total	1197	sqft	3930	Btuh
Door total	38	sqft	492	Btuh
Ceiling total	1600	sqft	1885	Btuh
Floor total	175	sqft	7641	Btuh
Infiltration	133	cfm	5368	Btuh
Duct loss			3078	Btuh
Subtotal			**30162**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**30162**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1420 sqft)

Load component			Load	
Window total	165	sqft	14455	Btuh
Wall total	1197	sqft	2496	Btuh
Door total	38	sqft	372	Btuh
Ceiling total	1600	sqft	2650	Btuh
Floor total			0	Btuh
Infiltration	151	cfm	2819	Btuh
Internal gain			3780	Btuh
Duct gain			4153	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**30725**	**Btuh**
Latent gain(ducts)			431	Btuh
Latent gain(infiltration)			5535	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**7166**	**Btuh**
TOTAL HEAT GAIN			**37891**	**Btuh**



Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 1-2-08

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House
, FL 32024-

Project Title:
Cason Construction - Cottonwood Model

Code Only
Professional Version
Climate: North

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

1/2/2008

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	40.0	47.0	1880 Btuh
2	1, Clear, Metal, 1.27	W	60.0	47.0	2819 Btuh
3	1, Clear, Metal, 1.27	N	6.0	47.0	282 Btuh
4	1, Clear, Metal, 1.27	E	13.3	47.0	625 Btuh
5	1, Clear, Metal, 1.27	E	15.0	47.0	705 Btuh
6	1, Clear, Metal, 1.27	E	15.0	47.0	705 Btuh
7	1, Clear, Metal, 1.27	S	4.0	47.0	188 Btuh
8	1, Clear, Metal, 1.27	S	12.0	47.0	564 Btuh
	Window Total		165(sqft)		7767 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	999	3.3	3280 Btuh
2	Frame - Wood - Ext(0.09)	13.0	198	3.3	650 Btuh
	Wall Total		1197		3930 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		18	12.9	233 Btuh
	Door Total		38		492Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1600	1.2	1885 Btuh
	Ceiling Total		1600		1885Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	175.0 ft(p)	43.7	7641 Btuh
	Floor Total		175		7641 Btuh
			Envelope Subtotal:		21715 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=
	Natural	0.70	11360	1197	132.5
					5368 Btuh
Ductload				(DLM of 0.114)	3078 Btuh
All Zones			**Sensible Subtotal All Zones**		**30162 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

, FL 32024-

Project Title:
Cason Construction - Cottonwood Model

Code Only
Professional Version
Climate: North

1/2/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	30162 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	30162 Btuh

EQUIPMENT

1. Electric Heat Pump	#	36000 Btuh

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

Version 8
For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Spec House
, FL 32024-

Project Title:
Cason Construction - Cottonwood Model

Code Only
Professional Version
Climate: North

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

1/2/2008

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	40.0	47.0	1880 Btuh
2	1, Clear, Metal, 1.27	W	60.0	47.0	2819 Btuh
3	1, Clear, Metal, 1.27	N	6.0	47.0	282 Btuh
4	1, Clear, Metal, 1.27	E	13.3	47.0	625 Btuh
5	1, Clear, Metal, 1.27	E	15.0	47.0	705 Btuh
6	1, Clear, Metal, 1.27	E	15.0	47.0	705 Btuh
7	1, Clear, Metal, 1.27	S	4.0	47.0	188 Btuh
8	1, Clear, Metal, 1.27	S	12.0	47.0	564 Btuh
	Window Total		165(sqft)		7767 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	999	3.3	3280 Btuh
2	Frame - Wood - Ext(0.09)	13.0	198	3.3	650 Btuh
	Wall Total		1197		3930 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		18	12.9	233 Btuh
	Door Total		38		492Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1600	1.2	1885 Btuh
	Ceiling Total		1600		1885Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	175.0 ft(p)	43.7	7641 Btuh
	Floor Total		175		7641 Btuh
			Zone Envelope Subtotal:		21715 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=
	Natural	0.70	11360	1197	132.5
					5368 Btuh
Ductload	Pro. leak free, Supply(R6.0-Attic), Return(R6.0-Attic)			(DLM of 0.114)	3078 Btuh
Zone #1			**Sensible Zone Subtotal**		**30162 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

, FL 32024-

Project Title:
Cason Construction - Cottonwood Model

Code Only
Professional Version
Climate: North

1/2/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	30162 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	30162 Btuh

EQUIPMENT

1. Electric Heat Pump	#	36000 Btuh

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

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House
, FL 32024-

Project Title:
Cason Construction - Cottonwood Model

Code Only
Professional Version
Climate: North

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

1/2/2008

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	1, Clear, 1.27, None,N,N	W	11.5f	8ft.	40.0	40.0	0.0	37	94	1498 Btuh
2	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	60.0	0.0	60.0	37	94	5643 Btuh
3	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	6.0	0.0	6.0	37	37	225 Btuh
4	1, Clear, 1.27, None,N,N	E	10.5f	8ft.	13.3	13.3	0.0	37	94	498 Btuh
5	1, Clear, 1.27, None,N,N	E	5.5ft	8ft.	15.0	4.7	10.3	37	94	1145 Btuh
6	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	37	94	1411 Btuh
7	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	4.0	4.0	0.0	37	43	150 Btuh
8	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	12.0	12.0	0.0	37	43	449 Btuh
	Excursion									3437 Btuh
	Window Total				165 (sqft)					14455 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	998.7	2.1	2083 Btuh
2	Frame - Wood - Ext	13.0/0.09	198.0	2.1	413 Btuh
	Wall Total		1197 (sqft)		2496 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	9.8	196 Btuh
2	Insulated - Adjacent	18.0	9.8	176 Btuh
	Door Total	38 (sqft)		372 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1600.0	1.7	2650 Btuh
	Ceiling Total		1600 (sqft)		2650 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	175 (ft(p))	0.0	0 Btuh
	Floor Total		175.0 (sqft)		0 Btuh

			Envelope Subtotal:		19973 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.80	11360	1197	132.5	2819 Btuh

Internal gain	Occupants	Btuh/occupant		Appliance	Load
	6	X 230	+	2400	3780 Btuh

	Sensible Envelope Load:	26572 Btuh
Duct load	(DGM of 0.156)	4153 Btuh
	Sensible Load All Zones	**30725 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

, FL 32024-

Project Title:
Cason Construction - Cottonwood Model

Code Only
Professional Version
Climate: North

1/2/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**26572 Btuh**
	Sensible Duct Load	4153 Btuh
	Total Sensible Zone Loads	**30725 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**30725 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	5535 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	431 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**7166 Btuh**
	TOTAL GAIN	**37891 Btuh**

EQUIPMENT

1. Central Unit	#	36000 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)

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House
, FL 32024-

Project Title:
Cason Construction - Cottonwood Model

Code Only
Professional Version
Climate: North

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

1/2/2008

Component Loads for Zone #1: Main

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	1, Clear, 1.27, None,N,N	W	11.5f	8ft.	40.0	40.0	0.0	37	94	1498 Btuh
2	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	60.0	0.0	60.0	37	94	5643 Btuh
3	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	6.0	0.0	6.0	37	37	225 Btuh
4	1, Clear, 1.27, None,N,N	E	10.5f	8ft.	13.3	13.3	0.0	37	94	498 Btuh
5	1, Clear, 1.27, None,N,N	E	5.5ft	8ft.	15.0	4.7	10.3	37	94	1145 Btuh
6	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	37	94	1411 Btuh
7	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	4.0	4.0	0.0	37	43	150 Btuh
8	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	12.0	12.0	0.0	37	43	449 Btuh
	Window Total				165 (sqft)					11019 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	998.7	2.1	2083 Btuh
2	Frame - Wood - Ext	13.0/0.09	198.0	2.1	413 Btuh
	Wall Total		1197 (sqft)		2496 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	9.8	196 Btuh
2	Insulated - Adjacent	18.0	9.8	176 Btuh
	Door Total	38 (sqft)		372 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1600.0	1.7	2650 Btuh
	Ceiling Total		1600 (sqft)		2650 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	175 (ft(p))	0.0	0 Btuh
	Floor Total		175.0 (sqft)		0 Btuh

	Zone Envelope Subtotal:	16537 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.80	11360	1197	151.5	2819 Btuh

Internal gain	Occupants	Btuh/occupant		Appliance	Load
	6	X 230	+	2400	3780 Btuh

	Sensible Envelope Load:	23136 Btuh
Duct load	Prop. leak free, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.156)	3616 Btuh
	Sensible Zone Load	**26751 Btuh**

The following window Excursion will be assigned to the system loads.

Windows	July excursion for System 1	3437 Btuh
	Excursion Subtotal:	3437 Btuh
Duct load		537 Btuh
	Sensible Excursion Load	**3974 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

, FL 32024-

Project Title:
Cason Construction - Cottonwood Model

Code Only
Professional Version
Climate: North

1/2/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**26572 Btuh**
	Sensible Duct Load	4153 Btuh
	Total Sensible Zone Loads	**30725 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**30725 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	5535 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	431 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**7166 Btuh**
	TOTAL GAIN	**37891 Btuh**

EQUIPMENT

1. Central Unit	#	36000 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)

Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Spec House

, FL 32024-

Project Title:
Cason Construction - Cottonwood Model

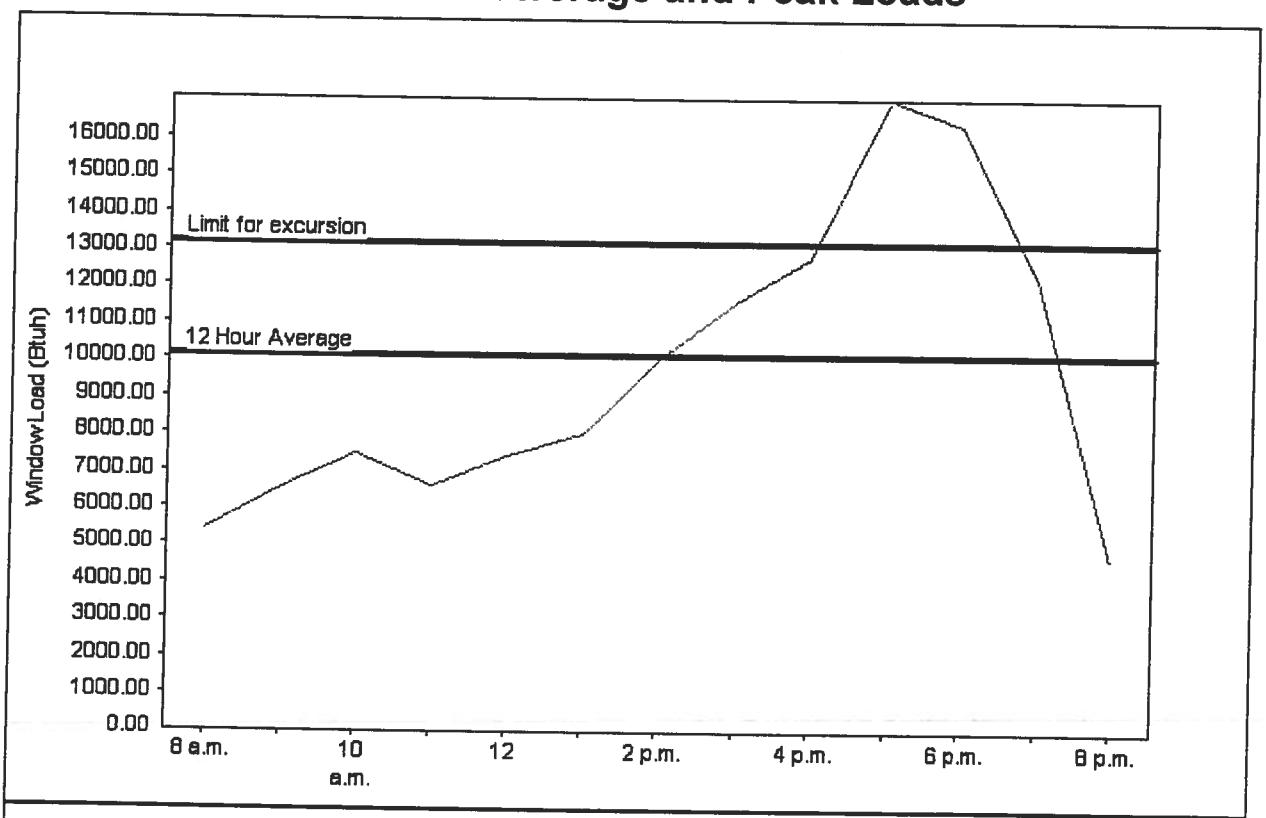
Code Only
Professional Version
Climate: North

1/2/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	10119 Btu
Summer setpoint	75 F	Peak window load for July	17097 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	13154 Btu
Latitude	29 North	Window excursion (July)	3942 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S/E Inswing Opaque Double w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.23
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.23

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.25 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The **Series Entergy 6-8 S/E Inswing Opaque Double Residential Insulated Steel Doors with Sidelites-Impact Resistant Door Slab Only** and its components shall be constructed in strict compliance with the following documents: Drawing No **31-1029-EM-I**, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Double Door with Sidelites in Wood Frames with Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/11/00, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of pair of doors and single door only, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.

3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters):

4.2.1 Door: the installation of this unit **will not require** a hurricane protection system.

4.2.2 Sidelite: the installation of this unit **will require** a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.23

APPROVED : JUN 0 5-2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
   b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.

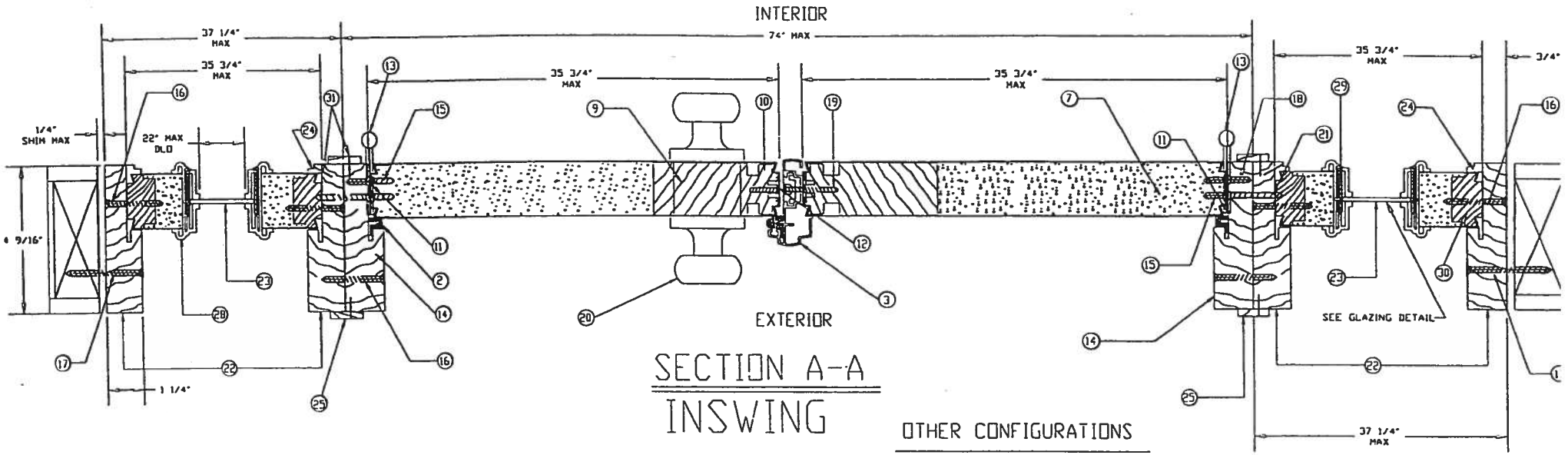
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

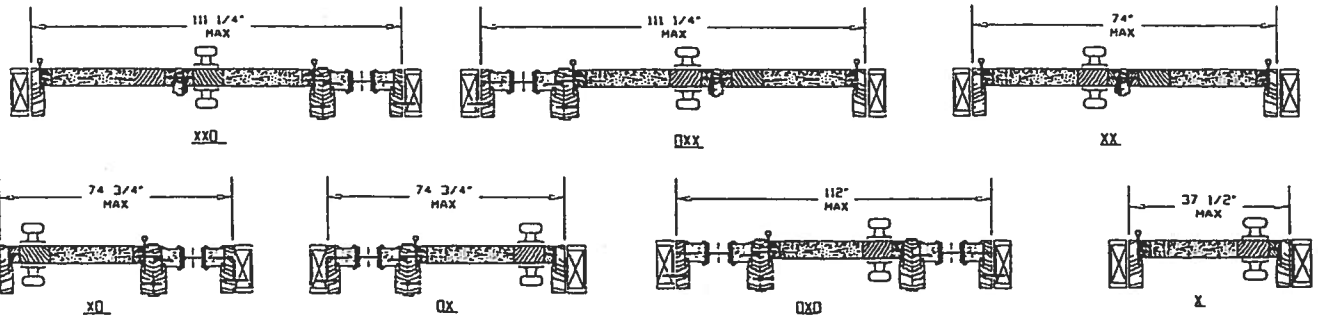
Manuel Perez

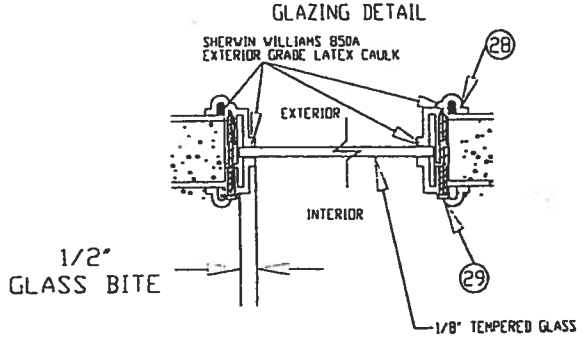
Manuel Perez, P.E., Product Control Examiner
Product Control Division



SECTION A-A
INSWING

OTHER CONFIGURATIONS





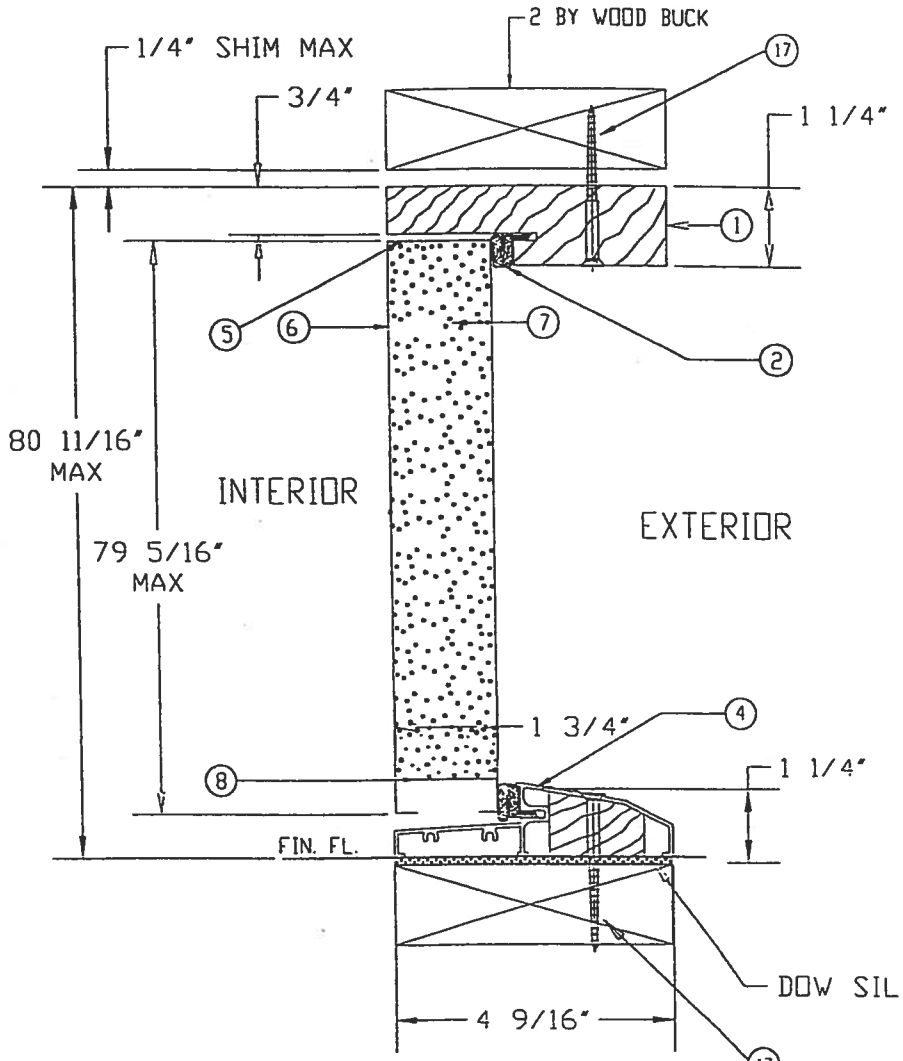
APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE: JUN 05 2001
BY:
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.23

	C	DADE COUNTY MODIFICATIONS	5/30/01
	B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98
UNLESS NOTED TOL. ± DEC. ± ANG. ± FRACTIONS UNLESS NOTED, STD. COMM. TOL'S	A	ADD SCREWS TO LITE FRAMES & ADD OTHER DOOR CONFIGURATIONS	7-29-97
ENGINEER:	LTR	REVISIONS	DATE
DRAWN BY: RS	DATE: 7-29-97	PART NAME: ENTRANCE DOOR W/SIDELITES (A-A)	
		PARTS:	SCALE: NTS

PREMDOR ENTRY SYSTEMS
100 E. JEFFERSON
PITTSBURG, CA 94565

31-1029-EM-I
SHEET 2 OF 6

REVISION LETTER C



SECTION B-B

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
①	WOOD HEAD JAMB	EM-14	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
②	COMPRESSION WEATHERSTRIP	EM-25	LOCKSCREEN BRAND LOXSEAL 9650 (BRONZE)
③	ALUMINUM ASTRAGAL	EM-12	PREMDOR BRAND OR EQUIVALENT- 5/8" ALUMINUM ASTRA
④	ALUMINUM-BUMPER THRESHOLD	EM-15	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
⑤	TOP CHANNEL	EM-08	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑥	STEEL SKIN	26 ga. (.017 +.004 -.000)	MIN YIELD STRENGTH 33,000 PSI MIN THICKNESS PER TESTING TEST REPORT IS .021"
⑦	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs./Ft³	
⑧	BOTTOM CHANNEL	EM-07	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑨	WOOD LOCK BLOCK	EM-09	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
⑩	STRIKE STILE	EM-06	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑪	HINGE STILE	EM-05	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑫	LOCK PREP FILLER PLATE	EM-10	PREMDOR BRAND - .050" THICK- MTL. TO BE POLYETHYL
⑬	4"x4" HINGE	EM-16	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STE
⑭	WOOD HINGE JAMB	EM-13	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
⑮	#10-24 x 1/2" F.H.M.S.		(4) SCREWS PER HINGE INTO DOOR
⑯	#10 X 2" F.H.W.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM MAX 18" O.C. THEREAFTER (10) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM MAX 8" O.C. THEREAFTER (6) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FRO TOP, MAX 15" O.C. THEREAFTER
⑰	#10 F.H.W.S. W/MINIMUM 1 1/2 EMBEDMENT OR 3/16" PFH TAPCONS W/MINIMUM 1 1/2" EMBEDMENT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATION
⑱	#10 X 3/4" F.H.W.S.		(2) SCREWS PER HINGE INTO JAMB
⑲	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
⑳	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
㉑	#10 X 1 3/4" F.H.W.S.		(2) SCREWS PER HINGE INTO JAMB
㉒	WOOD SIDELITE JAMB	EM-18	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉓	22" X 64" SINGLE PANEL GLASS	EM-19	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - (ODL 1/8" CLEAR TEMPERED GLASS
㉔	SIDELITE TRIM (WOOD)	EM-20	5/16 x 1/2" MTL. TO BE PINE OR EQUIVALEN
㉕	WOOD CASING	EM-21	1/8" x 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE MOLDINGS FOR "SIDE BY SIDE JAMBS" AS MULLIONS
㉖	WOOD SIDELITE HEAD JAMB	EM-22	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉗	WOOD SIDELITE BASE	EM-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉘	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
㉙	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME SCREW SPACING TO BE 3" IN FROM EACH CORNER AND TO EXCEED 14" OC THERE AFTER.
㉚	SIDELITE STILES	EM-26	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
㉛	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" OC. THERAFTER, USED ON MULLIONS AND

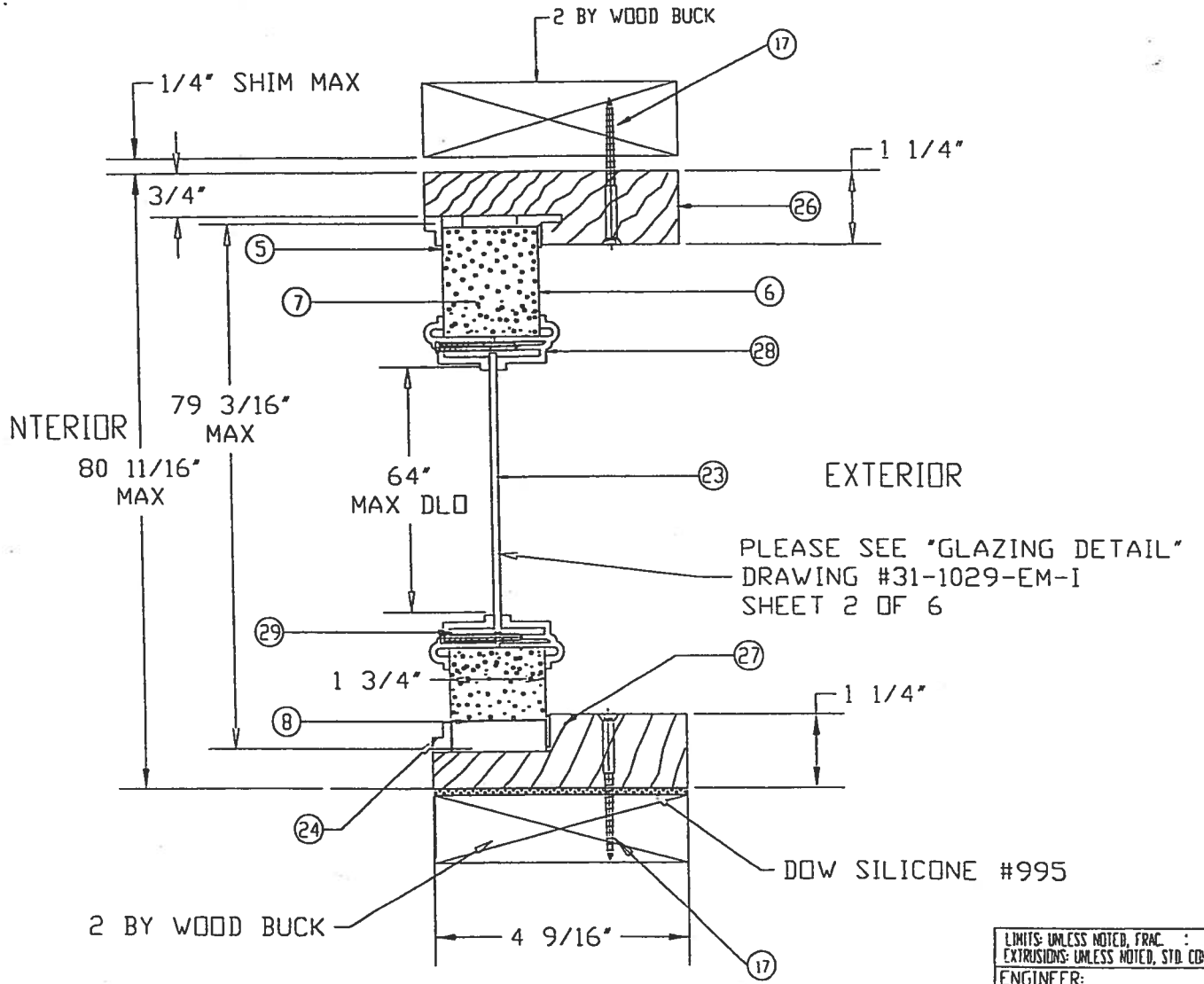
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.23

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :	B	DADE COUNTY MODIFICATIONS	1/11/01	JI
EXTRUSIONS: UNLESS NOTED, STD. COML. TOL'S.	A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
ENGINEER:	LTR	REVISIONS	DATE	B
	PART NAME: ENTERGY STEEL EDGE DOOR (B-B)			
DR. BY R.S. DATE 7-29-97	MAT'L:		SCALE:	

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1029-EM-I
SHEET 3 OF 6

REVISION LETTER B



SECTION C-C

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.23

LTR	REVISIONS	DATE	BY
D	DADE COUNTY MODIFICATIONS	1/11/01	JD
C	MATERIAL WAS POLYSTYRENE	6-2-99	RS
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAME & MATERIAL LIST	12-18-97	R.S.

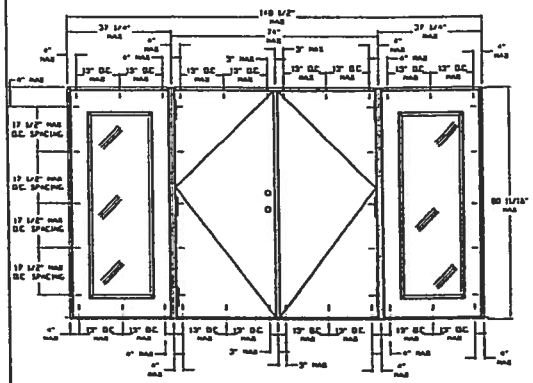
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L TOL'S.
ENGINEER:
DR. BY R.S. | DATE 7-29-97
PART NAME: ENTERGY METAL EDGE SIDELITE (C-C)
MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1029-EM-I
SHEET 4 OF 6

REVISION LETTER D

OTHER DOOR CONFIGURATIONS



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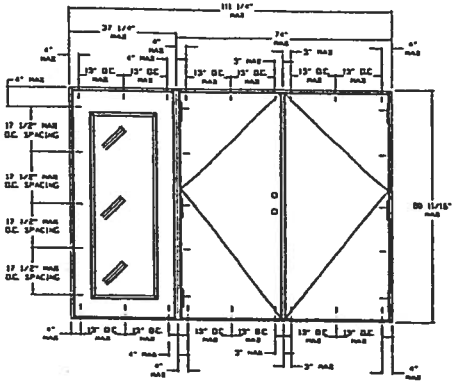

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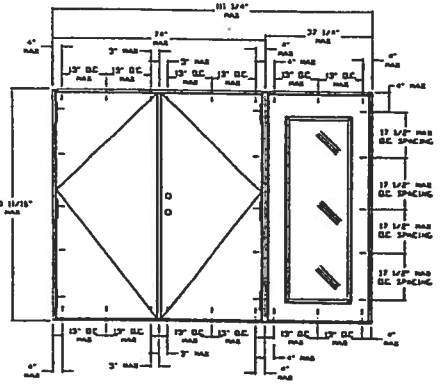

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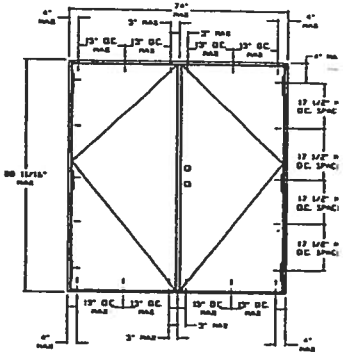

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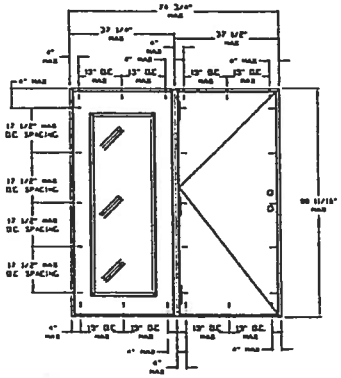

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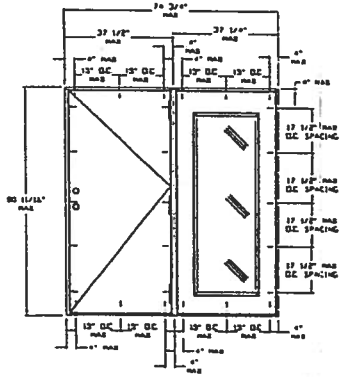

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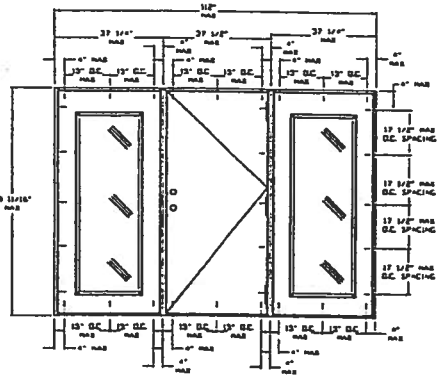

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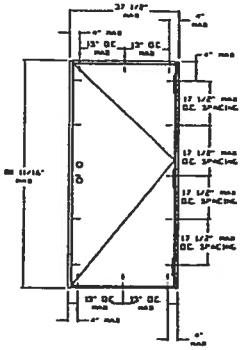

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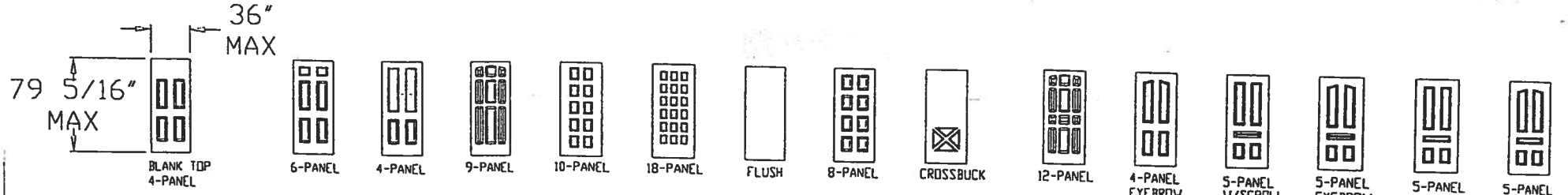
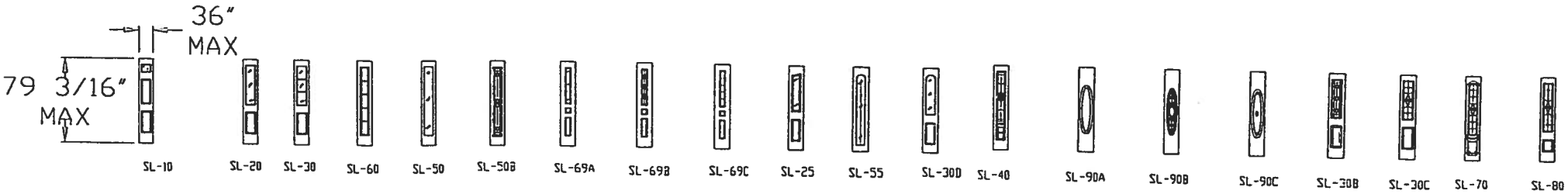
APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.23

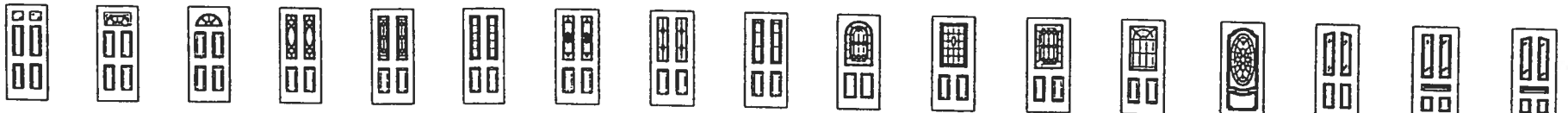
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COML. TOL'S.			
ENGINEER:	LTR	REVISIONS	DATE
DR. BY J.D. DATE 1-11-01	PART NAME:		
	MAT'L:		SCALE:
PREMDOR ENTRY SYSTEMS 911 E. JEFFERSON PITTSBURG, KS. 66762	31-1029-EM-I SHEET 5 OF 6		
	REVISION LETTER		

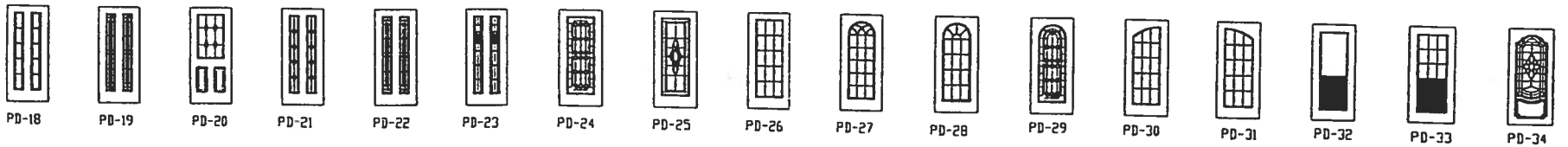
OTHER DOOR PANEL STYLES



OTHER SIDELITE STYLES







APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO 01-0314.R2

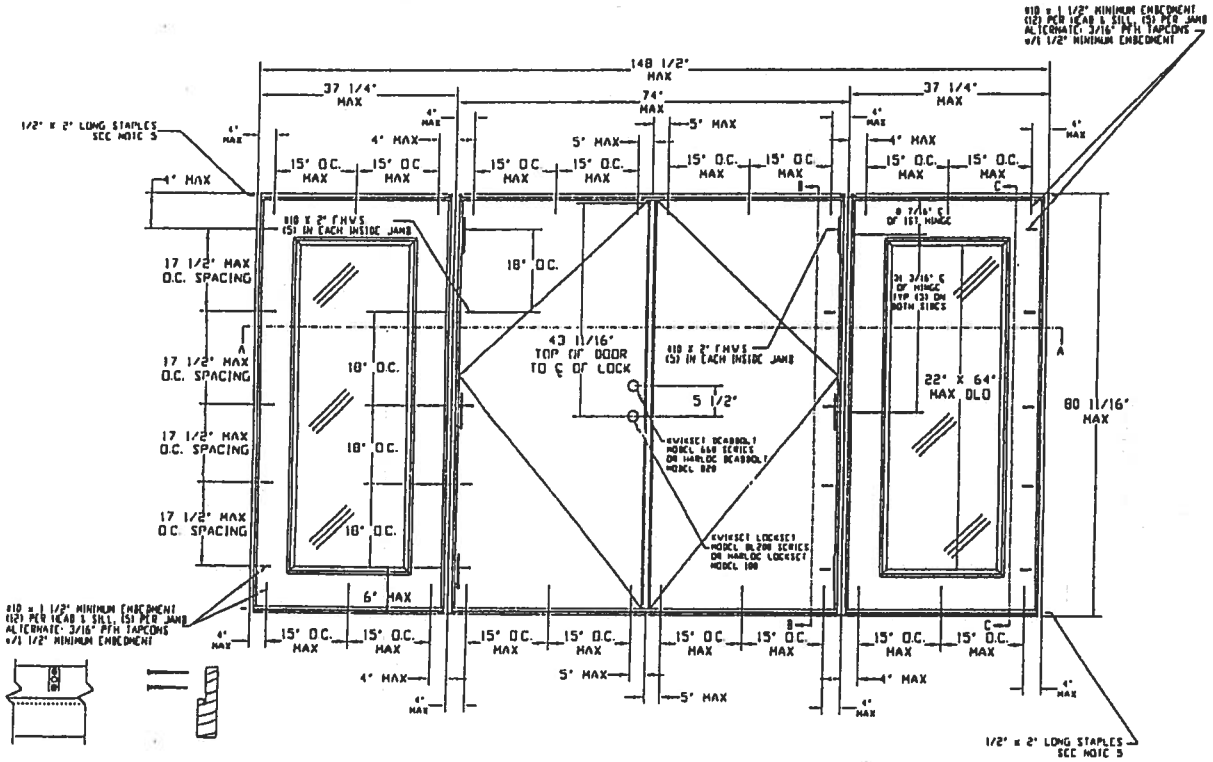
LIMITS: UNLESS NOTED, FRAC : DEC : ANG :			
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S			
ENGINEER:			
	LTR	REVISIONS	DATE BY
DR. BY J.D. DATE 1/15/01	PART NAME: PREMDOR DOOR OPTIONS		
	MAT'L:	SCALE:	

PREMDOR ENTRY SYSTEMS
910 E. JEFFERSON
PITTSBURG, KS. 66762

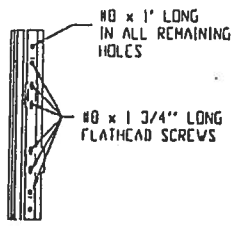
31-1029-EM-I
SHEET 6 OF 6

REVISION LETTER

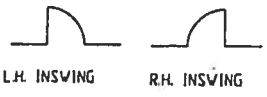
PREMDOR (ENTERGY BRAND) DOUBLE DOOR WITH SIDELITES IN WOOD FRAMES WITH BUMPER THRESHOLD (INSWING)



ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO THE HEADER AND THRESHOLD WITH #10 x 1 3/4" FLATHEAD SCREWS .



ASTRAGAL



NOTES:

.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.
\. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.
3. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.
:. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL INE BY WOOD BUCK.
I. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.
. UNIT MUST BE INSTALLED WITH 'MIAMI-DADE COUNTY APPROVED' SHUTTERS
. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO THRESHOLD ON SIDELITES AND DOOR.
. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.
. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.
I. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.
). FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED x	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	NOT APPROVED x	+55.0 psf
Negative	NOT APPROVED x	-55.0 psf

x UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY [signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.23

C	DADE COUNTY MODIFICATIONS	1/11/00	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD OTHER DOOR CONFIGURATIONS	12/18/97	RS
LTR	REVISIONS	DATE	BY

LIMITS UNLESS NOTED, FRAC. ± DEC. ± ANG. ±
EXTRUSIONS UNLESS NOTED, STD. COMT. TOL'S.
ENGINEER:
DR BY R.S. DATE 7-29-97
PART NAME: ENTERGY METAL CLAD DOUBLE DOOR W/SIDELITES
MAT'L: SCALE: N.T.S.

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1029-EM-I
SHEET 1 OF 6

Architectural

ELK Premium Roofing

March 6, 2002

Subject: Elk Product Approval Information

All Prestique® and Capstone® products manufactured in Tuscaloosa, AL are certified under the Miami – Dade County Building Code Office (BCCO). These products also meet the requirements for the Florida Building Code since they are MD approved. The following test protocols must be passed by each of the products in order for MD product certification:
ASTM D3462
PA 100 (110 mph uplift and wind driven rain resistance)
PA 107 (Modified ASTM D3161 - 110 mph wind uplift resistance)

The nailing patterns that were used during the PA 100 and PA 107 wind test protocols for the Prestique and Capstone products are listed below. Also listed below are the Miami – Dade Notice of Acceptance Numbers (NOA).

Raised Profile, Prestique High Definition, Prestique 25, or Prestique 30 –
PA 100 = 4 nails
PA 107 = 5 nails
MD NOA# = 01-1226.04

Prestique I 35 or Prestique I* –
PA 100 = 4 nails
PA 107 = 5 nails
MD NOA# = 01-1226.05

Prestique Plus or Prestique Gallery Collection* –
PA 100 = 4 nails
PA 107 = 4 nails
MD NOA# = 01-1226.03

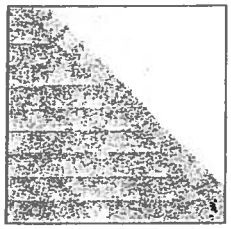
Capstone*
PA 100 = 4 Nails
PA 107 = 4 Nails
MD NOA# = 01-0523.01
* As per the Elk Limited Warranty, six nails are required for the Elk high wind warranty.

If there are any questions please contact:

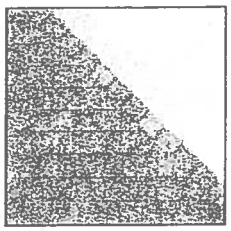
Mike Reed – Technical Manager
(205) 342-0287

or

Daniel DeJarnette – QA Engineer
(205) 342-0298



PRESTIQUE®
HIGH DEFINITION®



RAISED PROFILE™

Prestique Plus High Definition and Prestique Gallery Collection

Product size	13¼"x 39⅜"
Exposure	5⅝"
Pieces/Bundle	16
Bundles/Square	4/98.5 sq.ft.
Squares/Pallet	11

50-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Raised Profile

Product size	13¼"x 38¾"
Exposure	5⅝"
Pieces/Bundle	22
Bundles/Square	3/100 sq.ft.
Squares/Pallet	16

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Prestique I High Definition

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

40-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Prestique High Definition

Product size	13¼"x 38¾"
Exposure	5⅝"
Pieces/Bundle	22
Bundles/Square	3/100 sq.ft.
Squares/Pallet	16

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

HIP AND RIDGE SHINGLES

Seal-A-Ridge with FLX

Size: 12"x 12"
Exposure: 6⅞"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

Elk Starter Strip

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

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

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

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

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

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

***See actual limited warranty for conditions and limitations.**
****Check for product availability.**

SPECIFICATIONS

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

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

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

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

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

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

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

SOUTHEAST & ATLANTIC OFFICE:
800.945.5551

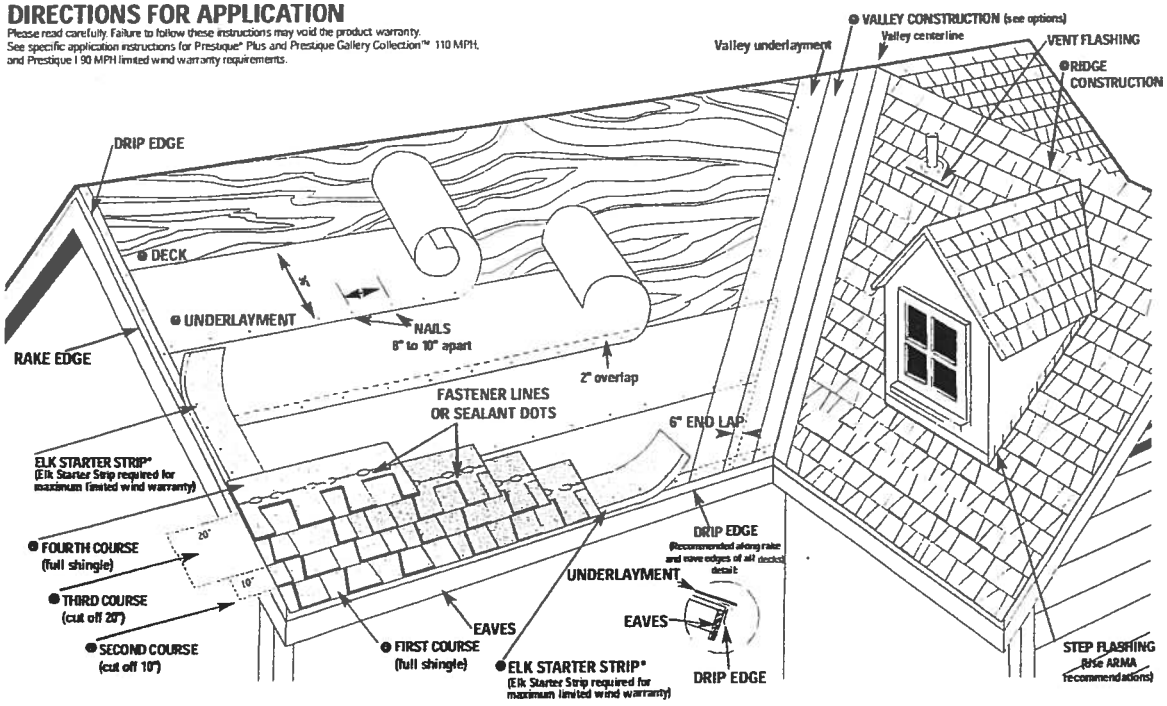
CORPORATE HEADQUARTERS:
800.354.7732

PLANT LOCATION:
800.945.5545

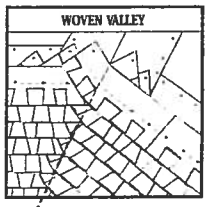
ELK
www.elkcorp.com

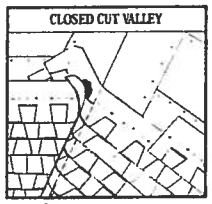
DIRECTIONS FOR APPLICATION

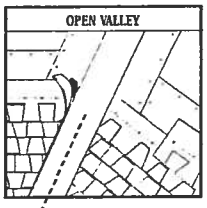
Please read carefully. Failure to follow these instructions may void the product warranty.
See specific application instructions for Prestique® Plus and Prestique Gallery Collection™ 110 MPH, and Prestique I 90 MPH limited wind warranty requirements.



❺ **VALLEY CONSTRUCTION OPTION** (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manual.







DIRECTIONS FOR APPLICATION

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

❶ DECK PREPARATION

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

❷ UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Cover drip edge at eaves only.

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

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

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

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

Consult the Elk Field Service Department for application specifications over other decks and other slopes.

❸ STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A STRIP SHINGLE INVERTED WITH THE HEADLAP APPLIED AT THE EAVE EDGE. With at least 4" trimmed from the end of the first shingle, start at the rake edge overhanging the eave 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side. Shingles may be applied with a course alignment of 45° on the roof.

❶ FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course.

❷ SECOND COURSE

Start at the rake with the shingle having 10" trimmed off and continue across roof with full shingles.

❸ THIRD COURSE

Start at the rake with the shingle having 20" trimmed off and continue across roof with full shingles.

❹ FOURTH COURSE

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

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof

❺ VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying 18" metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

❻ RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge® with formula *FLX*™ (See ridge package for installation instructions.)

FASTENERS

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

Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots.

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

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

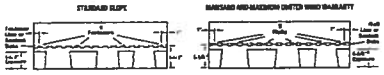
Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less.

MANSARD APPLICATIONS

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

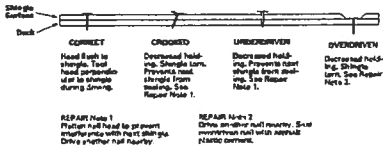
LIMITED WIND WARRANTY

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



HELP STOP BLOW-OFFS AND CALL-BACKS

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



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.
All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

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

ELK

www.elkcorp.com

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Community Affairs

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Community Affairs

Product Approval
USER: Public User

Product Approval Menu > Product or Application Search > Application List > **Application Detail**

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

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 (205) 342-0298 daniel.dejarnette@elkcorp.com
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
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 Shingl
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 Ce** **Installation Instruction** PTID 1476 R2 I Specs PTID 1476 R2 I UL Pre Verified By:

Back Next

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

Product Approval Accepts:

MEMBER OF The North Central Florida Water Well

Clyatt Well Drilling, Inc.
(Established in 1971)
POST OFFICE BOX 180
WORTHINGTON SPRINGS, FLORIDA 32697

Telephone Number (386)496-2488
FAX Number (386)496-4640

K. Melaine "Red" Clyatt

PUMP AND TANK SPECIFICATIONS FOR
STANDARD 4" RESIDENTIAL WELLS

PUMPS

1 Horse Power Submersible Pump
20 Gallons Per Minute
Voltage: 240
Phase: (Single) 1

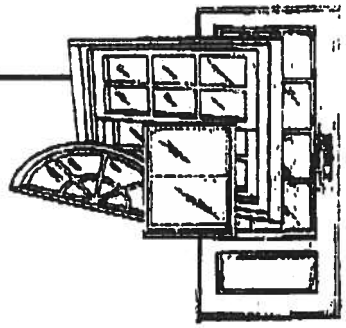
1.5 Horse Power Submersible Pump
25 Gallons Per Minute
Voltage: 240
Phase: (Single) 1

TANK

WF-255 Captive Air Tank
Capacity 81 Gallons
Equivalent 220 Gallons
Draw Down 25 Gallons

CERTIFIED TESTING LABORATORIES

Architectural Division • 7252 Narcoossee Rd. • Orlando, Fl. 32822
(407) 384-7744 • Fax (407) 384-7751
Web Site: www.ctlarch.com
E-mail: ctlarch.com



Report Number: CTLA-991W-1-AWT
Report Date: February 18, 2003

STRUCTURAL PERFORMANCE TEST REPORT

Client: ACTION WINDOOR TECHNOLOGY INC
1312 W. CROSBY ROAD
CARROLLTON, TX 75006

Product Type and Series: **AWT Series 3950 Vinyl Fin Frame Single Hung Window with Reinforced Sash Top Rail, Stiles & Meeting Rail H-R40 (36"x 72")**

Test Specifications: AAMA/NWWDA 101/I.S.2-97 "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"

Frame: Vinyl Fin frame measured 35.50" wide x 71.50" high overall. Mitered corner weld construction. Fixed meeting rail secured to each frame jamb with one (1) #8 x 2" PH., PH. screw.

Ventilator: Operable sash measured 33.375" wide x 35.25" high overall. Mitered corner weld construction. Clear lite measured 31.5625" high x 33.5625" high. Fixed lite measured 32.50" wide x 33.4375"high.

Weather Stripping: One (1) strip of woolpile .220" high with integral plastic fin frame sill. One (1) strip of woolpile .250" high with integral plastic fin sash top rail exterior. One (1) strip of woolpile .250" high each sash stile exterior leg. One (1) strip of woolpile .250" high with integral plastic fin each sash stile interior leg. One (1) strip of foam filled bulb weatherstrip sash bottom rail.

Hardware & Location: Two (2) metallic sweep locks located on sash top rail approx 8" from each end of rail. Two (2) metallic keepers located on fixed meeting rail. One (1) tilt latch at each end of sash top rail. One (1) block and tackle at each frame jamb. One (1) pivot bar at each end of sash bottom rail.

Glazing: 5/8" insulated annealed glass consisting of .125" glass .375" air space with swiggle .125" glass. Sash exterior glazed. Fixed lite interior glazed adhesive foam strip backbedding and vinyl snap in glazing bead.

Sealant: A silicone type sealant was used on sill and to seal specimen to test buck.

Weep System: Weep notch measuring 2.25" x leg height located each end of sill weeping to the exterior.

Muntins: N/A

Reinforcement: Fixed meeting rail has one (1) piece of extruded aluminum reinforcement measuring .662" wide x .755" high x .099" thick x full length. Top rail, and sash stiles has one (1) piece of extruded aluminum reinforcement measuring .590" wide x .995" high x .115" thick x full length.

Additional Description: N/A

Screen: Roll formed aluminum frame, fiberglass mesh with vinyl spline. Two (2) metallic retainer clips and two (2) metallic plungers. Corners secured with plastic corner keys

Installation: Twenty-six (26) 1.75" roofing nails were used to secure the specimen to the wood test buck. Five (5) were located in head and sill measuring 4", 13", 21", 29", and 33" from left jamb. Eight (8) were located in each jamb measuring 4.50", 14.25", 24", 32.75", 42", 57.25", 60.50" and 70" from sill.

Surface Finish: White Vinyl

Comment: Nominal 2 mil polyethylene film was used to seal against air leakage during structural loads. The film was used in a manner that did not influence the test results.

Performance Test Results

Paragraph No	Title of Test	Method	Measured	Allowed
2.1.2	Air Infiltration @1.57 psf	ASTM E283-91	.18 cfm/ft²	.34 cfm/ft²
	The tested specimen meets or exceeds the performance levels specified in AAMA/NWWDA 101/I.S.2-97. Results recorded in two (2) decimals at the clients request. Unit tested with shims installed under cam locks.			
2.1.3	Water Resistance @ 5.0 gph/ft²	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 6.75 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
	Unit tested with insect screen.			
2.1.3	Water Resistance @ 5.0 gph/ft²	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 6 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
	Unit tested without insect screen.			
2.1.4.2	Uniform Load Structural Permanent Deformation	ASTM E330-90 Ten (10) second load		
	@ 60 psf positive		.015"	.134"
	@ 60 psf negative		.005"	.134"
2.1.8	Forced Entry Resistance	AAMA 1302.5-76		
	Test A		0"	½"
	Test B		0"	½"
	Test C		0"	½"
	Test D, E and F		0"	½"
	Test G		0"	½"

Performance Test Results (continued)

Paragraph No	Title of Test		Method	Measured	Allowed
2.2.2.5.1	Operating Force Sash		AAMA/NWWDA 101/I.S.2-97	18 lbs.	30 lbs.
2.2.2.5.2	Deglazing		ASTM E987-88		
	Top Rail	70 lbs.		.039" = 7.8%<100%	
	Bottom Rail	70 lbs.		.038" = 7.6%<100%	
	Left Side	50 lbs.		.050" = 10%<100%	
	Right Side	50 lbs.		.035" = 7.0%<100%	
2.1.7	Welded Corner Test		AAMA/NWWDA 101/ IS2-97	Passed	

Test Date November 21, 2002

Test Completion Date: November 21, 2002

Remarks: Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

Certified Testing Laboratories, Inc

James W. Blakely
Vice President
Architectural Division

cc: Action Windoor Technology Inc. (3)
File (1)

CERTIFIED TESTING LABORATORIES

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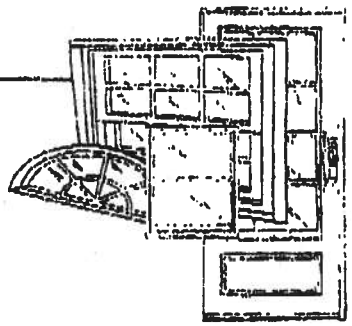
(407) 384-7744 • Fax (407) 384-7751
Web Site: www.ctlarch.com
E-mail: ctlarch.com



Report Number: CTLA-1038W-AWT
Report Date: February 19, 2003

STRUCTURAL PERFORMANCE TEST REPORT

Client: ACTION WINDOOR TECHNOLOGY INC.
1312 W. CROSBY ROAD
CARROLLTON, TX 75006

Product Type and Series: **AWT Series 3950 Vinyl Fin Frame Single Hung Window with Transom and Reinforced Meeting Rail & Top Rail (36"x 72") Design Pressure 45**

Test Specifications: ASTM E 283-91 "Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen."
ASTM E 547-93 "Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference"
ASTM E 331-93 "Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differential."
ASTM E 330-90 "Test Method for Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference."

Frame: Vinyl fin frame measured 35.50" wide x 71.50" high overall. Mitered corner weld construction. Fixed meeting rail secured to each frame jamb with one (1) #8 x 2" PH., PH. screw. Transom bottom rail secured to each frame jamb with four (4) #8 x 2" PH., PH. screws

Ventilator: Operable sash measured 33.375" wide x 29.25" high overall. Mitered corner weld construction. Clear lite measured 31.5625" high x 27.5625" high. Fixed lite measured 32.50" wide x 27.4375" high. Transom lite measured 32.50" wide x 8.50" high.

Weather Stripping: One (1) strip of woolpile .220" high with integral plastic fin frame sill. One (1) strip of woolpile .250" high with integral plastic fin sash top rail exterior. One (1) strip of woolpile .250" high each sash stile exterior leg. One (1) strip of woolpile .250" high with integral plastic fin each sash stile interior leg. One (1) strip of foam filled bulb weatherstrip sash bottom rail.

Hardware & Location: Two (2) metallic sweep locks located on sash top rail approx 8" from each end of rail. One (1) tilt latch at each end of sash top rail. One (1) block and tackle at each frame jamb. One (1) pivot bar at each end of sash bottom rail.

Glazing: 5/8" insulated annealed glass consisting of .125" glass .375" air space with swiggle .125" glass. Sash exterior glazed. Fixed and transom lites interior glazed adhesive foam strip backbedding and vinyl snap in glazing bead.

Sealant: A silicone type sealant was used at sill corners and to seal specimen to test buck.

Weep System: Weep notch measuring 2.25" x leg height located each end of sill weeping to the exterior.

Muntins: N/A

Reinforcement: Fixed meeting rail has one (1) piece of extruded aluminum reinforcement measuring .662" wide x .755" high x .099" thick x full length. Top rail has one (1) piece of extruded aluminum reinforcement measuring .590" wide x .995" high x .115" thick x full length.

Additional Description: N/A

Screen: Roll formed aluminum frame, fiberglass mesh with vinyl spline. Two (2) metallic retainer clips and two (2) metallic plungers. Corners secured with plastic corner keys

Installation: Twenty-six (26) 1.75" roofing nails were used to secure the specimen to the wood test buck. Five (5) were located in head and sill measuring 4", 13", 21", 29", and 33" from left jamb. Eight (8) were located in each jamb measuring 4", 14.25", 24", 32.75", 42", 51", 60" and 69" from sill.

Surface Finish: White Vinyl

Comment: Nominal 2 mil polyethylene film was used to seal against air leakage during structural loads. The film was used in a manner that did not influence the test results.

Performance Test Results

Paragraph No	Title of Test	Method	Measured	Allowed
2.1.2	Air Infiltration @1.57 psf	ASTM E283-91	.28 cfm/ft²	.34 cfm/ft²
	The tested specimen meets or exceeds the performance levels specified in AAMA/NWWDA 101/I.S.2-97. Results recorded in two (2) decimals at the clients request.			
2.1.3	Water Resistance @ 5.0 gph/ft²	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 6.75 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
	Unit tested with and without insect screen.			
2.1.4.2	Uniform Load Structural Permanent Deformation	ASTM E330-90 Ten (10) second load		
DP= +45	@ 67.5 psf positive		.019"	.142"
DP= - 45	@ 67.5 psf negative		.009"	.142"

Test Date January 27, 2003

Test Completion Date: January 27, 2003

Remarks: Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

Certified Testing Laboratories, Inc.

James W. Blakely
Vice President
Architectural Division

cc: Action Windoor Technology Inc. (3)
File (1)

Report Number: ETC-04-034-14644.0
Test Start Date: 04/10/03
Test Finish Date: 03/16/04
Report Date: 03/18/04
Expiration Date: 03/18/08

Fenestration Structural Test Report
Rendered To:

Vinyl Building Products, Inc.
One Raritan Road
Oakland, NJ 07436

Series/Model
2900 Horizontal Slider (OX)

Description: The product tested was a vinyl Horizontal Sliding window. The test specimen was glazed with 5/8-inch thick insulating glass units constructed with double strength annealed glass. The frame size was 69 inches wide by 48 inches high by 2-3/4 inches deep. See Appendix A.

Test Specification: ANSI/AAMA/NWWDA 101/I.S.2

Summary of Results

Overall Design Pressure	35.0 psf
Air Leakage Rate	0.18 scfm/ft^2
Maximum Water Pressure Achieved	5.25 psf
Maximum Structural Pressure Achieved	60.0 psf
Forced Entry Resistance - (ASTM)	Grade 10
Product Designation	**H–R35 69 x 48**

TEST REPORT

ETC Laboratories

Specifications: The test specimen was evaluated in accordance with ANSI/AAMA/NWWDA 101/I.S.2 "Voluntary Specification for Aluminum, Vinyl and Wood Windows and Glass Doors". Sections 1, 2 and 4 only. All performance specifications in this standard shall be met for full compliance to the standard and for product certification, labeling or represented as conforming to this standard.

Referenced Test Reports: NONE

Note – The test data in any section below with an "RTR" comment have not been obtained from this specimen but from the Referenced Test Report with a specimen of the same or larger size and identical construction.

Design Pressure (DP): The product tested herein has been first evaluated to the Gateway pressure in the referenced specification for the performance class rating achieved.

Gateway Performance Tests

Specification Paragraph	Title of Test	Results	Allowed
2.1.2	*Air Infiltration – ASTM E283* Test Pressure - 1.57 psf The tested specimen exceeds the performance levels specified in ANSI/AAMA/NWWDA 101/I.S.2 for air infiltration.	0.18 scfm/ft^2	0.30 scfm/ft^2
2.1.3	*Water Resistance -- ASTM E547* 5 gal/hr-ft^2 – 4 Test cycles – 24 Minutes Design Pressure - 15.0 psf Test Pressure – 2.86 psf With and Without Screen	Pass	No Leakage
2.1.4.2	*Uniform Structural Load - ASTM E330* Design Pressure - 15.0 psf Test Pressure Positive Load – 22.5 psf (150% x DP) Negative Load – 22.5 psf (150% x DP) Note: Measurement taken after load from center of the meeting stile	 0.033 in. 0.020 in.	 0.177 in. 0.177 in.
2.1.7	*Corner Weld* Frame – 4 Corners Sashes – 4 Corners	 Pass Pass	 < 100% < 100%
2.1.8	*Forced Entry Resistance - ASTM F588* Lock/Tool Manipulation Tests A1 through A7 Lock/Tool Manipulation	 Pass Pass Pass	 No Entry No Entry No Entry
2.2.1.6.1	*Operating Force – No Standardized Method* Right Sash – Open/Close	 18/18 lbf	 20 lbf
2.2.1.6.2	*Deglazing – ASTM E987*		
	Right Sash: Left Stile - 70 lbf	0.0%	<100%
	Right Stile - 70 lbf	0.0%	<100%
	Top Rail - 50 lbf	0.0%	<100%
	Bottom Rail - 50 lbf	0.0%	<100%

TEST REPORT

ETC Laboratories

Conditions, Terms, and General Notes Regarding These Tests

The product tested **Has Been** compared to the detailed drawings, bill of materials and fabrication information supplied by the client so named herein. Our analysis, which includes dimensional and component description comparisons, indicate the tested product and engineering information supplied by the client "**Are Equivalent**". **See Appendix A.** The report and representative samples will be retained for four years from the date of initial test.

These test results were obtained by employing all requirements of the designated test methods with no deviations. The test results and specimen supplied for testing are in compliance with the referenced specifications.

The test results are specific to the product tested by this laboratory and of the sample supplied by the client named herein, and they relate to no other product either manufactured by the client, a Fabricator of the client or of installed field performance.

This report does not constitute an AAMA or NWWDA certified product under the certification programs of these organizations. The program administrator of these programs and organizations may only grant product certification.

ETC Laboratories makes no opinions or endorsements regarding this product and its performance. This report may not be reproduced or quoted in partial form without the expressed written approval of ETC Laboratories.

No conclusions of any kind regarding the adequacy of the glass in the test specimen may be drawn from the test. Procedure "A" in ASTM E330 was used for this test.

ETC Laboratories letters, reports, its name or insignia or mark are for the exclusive use of the client so named herein and any other use is strictly prohibited. The report, letters and the name of ETC Laboratories, its seal or mark shall not be used in any circumstance to the general public or in any advertising.

Limitation of Liability: Due diligence was used in rendering this professional opinion. By acceptance of this report, this client agrees to hold harmless and indemnify ETC Laboratories, its employees and offices and owners against all claims and demands of any kind whatsoever, which arise out of or in any manner connected with the performance of work referred to herein.

FOR ETC LABORATORIES

Mark Sennett
AWS Supervisor

Arthur Murray, VP
Manager, Wind Engineering Laboratory

TEST REPORT

ETC Laboratories

Optional Performance Tests

The manufacturer specified herein has successfully achieved all the required criteria in Section 2 of the referenced specification for the Gateway size of the achieved Performance Rating and has further successfully tested the product to higher performance levels as indicated below.

Design Pressure (DP): The product tested herein has been additionally evaluated to the Design Pressure referenced below.

Specification Paragraph	Title of Test	Results	Allowed
4.3	*Water Resistance - ASTM E547* 5 gal/hr-ft^2 – 4 Test cycles – 24 Minutes Design Pressure - 35.0 psf Test Pressure – 5.25 psf (15% x DP) With and Without Screen	Pass	No Leakage
4.4	*Uniform Structural Load - ASTM E330* Design Pressure - 40.0 psf Test Pressure		
	Positive Load – 60.0 psf (150% x DP)	0.069 in.	0.177 in.
	Negative Load – 60.0 psf (150% x DP)	0.066 in.	0.177 in.
	Note: Measurement taken after load from center of meeting stile		

-SALE-

SALES #: S0179SS3 43182 11-12-07

253498 1 HANDLE SHOWER STAINLESS	135.00
217040 BRUSHED NICKEL ROMANTUB F	247.00
SUBTOTAL:	382.00
FL - STATE TAX:	22.92
FL - COLUMBIA COUNTY TAX:	3.82
INVOICE 20632 TOTAL:	408.74
BALANCE DUE:	408.74
LCC:	408.74

LCC 6902530101715404 1210 001264
SWIPED
LBA/PO: HAIGHT
0179 20 11/12/07 14:39:10 REF#: 632

LOGOFF 11-12-07 LOGIN ID: S0179SS3
SALESMAN#: 000032276
0179 0020 11/12/07 14:42:13 **********

LOG ON 11-12-07 LOGIN ID: S0179RL1
0179 0020 11/12/07 14:42:35

CASON
CONSTRUCTION &
DEVELOPMENT, INC
P 386-752-8453
F 386-752-8464

April 8, 2009

Columbia County Building & Zoning
135 NE Hernando Avenue, Suite B21
Lake City, FL 32055

To Whom it May Concern:

Permit number 000026589 expired on 1/08/09. I'd like to request that this permit be reinstated without fees. The reason the home wasn't completed by 1/08/09 is because on August 29, 2009 I was injured in a fire that was there on the property. I was in the hospital and out of work for some time and required surgery. I suffered second and third degree burns from this fire. Even after I was able to go back to work it was difficult to visit this sight after such a terrible experience. Please consider this request. It is greatly appreciated.

Sincerely,

Matthew D. Cason, President
Cason Construction & Development
License # CBC1254765

CASON
CONSTRUCTION &
DEVELOPMENT, INC
P 386-752-8453
F 386-752-8464

July 8, 2009

Columbia County Building & Zoning
135 NE Hernando Avenue, Suite B21
Lake City, FL 32055

To Whom it May Concern:

Permit number 000026589 expired on 1/08/09. I'd like to request that this permit be reinstated without fees. The reason the home wasn't completed by 1/08/09 is because on August 29, 2009 I was injured in a fire that was there on the property. I was in the hospital and out of work for some time and required surgery. I suffered second and third degree burns from this fire. Even after I was able to go back to work it was difficult to visit this sight after such a terrible experience. Please consider this request. It is greatly appreciated.

Sincerely,

Matthew D. Cason, President
Cason Construction & Development
License # CBC1254765

CASON
CONSTRUCTION &
DEVELOPMENT, INC
P 386-752-8453
F 386-752-8464

October 8, 2009

Columbia County Building & Zoning
135 NE Hernando Avenue, Suite B21
Lake City, FL 32055

To Whom it May Concern:

Permit number 000026589 expired on 1/08/09. I'd like to request that this permit be reinstated without fees. The reason the home wasn't completed by 1/08/09 is because on August 29, 2009 I was injured in a fire that was there on the property. I was in the hospital and out of work for some time and required surgery. I suffered second and third degree burns from this fire. Even after I was able to go back to work it was difficult to visit this sight after such a terrible experience. Please consider this request. It is greatly appreciated.

Sincerely,

Matthew D. Cason, President
Cason Construction & Development
License # CBC1254765

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 26-4S-16-03185-051 **Building permit No.** 000026589

Use Classification SFD, UTILITY **Fire:** 44.94

Permit Holder MATT CASON **Waste:** 117.25

Owner of Building CASON CONSTRUCTION **Total:** 162.19

Location: 144 SW ZEBRA TERR., LAKE CITY, FL

Date: 03/08/2010

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)