

DATE 03/12/2008

Columbia County Building Permit
This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026838

APPLICANT LINDA RODER PHONE 386.752.2281
ADDRESS 387 SW KEMP COURT LAKE CITY FL 32055
OWNER SPARKS CONTRACTORS, INC. PHONE 386.623.0575
ADDRESS 231 SW MORNING GLORY DRIVE LAKE CITY FL 32024
CONTRACTOR JOSH SPARKS PHONE 386.623.0575
LOCATION OF PROPERTY 90- TO C-341, TL TO HOPE HENRY, TR TO MORNING GLORY DR, TR &
IT'S THE 6TH LOT ON L.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 153650.00
HEATED FLOOR AREA 2295.00 TOTAL AREA 3073.00 HEIGHT 15.00 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC
LAND USE & ZONING RSF-2 MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00
NO. EX.D.U. 0 FLOOD ZONE XPP DEVELOPMENT PERMIT NO.

PARCEL ID 15-4S-16-03023-506 SUBDIVISION ROLLING MEADOWS
LOT 6 BLOCK PHASE UNIT TOTAL ACRES 0.50

000001572 CBC1252260
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
18"X32'MITERED 08-0139 BLK JTH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: MFE @ 104.0'. ELEVATION CONFIRMATION LETTER REQUIRED.

Check # or Cash 4696

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by
Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by
Framing date/app. by Rough-in plumbing above slab and below wood floor date/app. by
Electrical rough-in date/app. by Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by
Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by
M/H tie downs, blocking, electricity and plumbing date/app. by Pool date/app. by
Reconnection date/app. by Pump pole date/app. by Utility Pole date/app. by
M/H Pole date/app. by Travel Trailer date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 770.00 CERTIFICATION FEE \$ 15.37 SURCHARGE FEE \$ 15.37
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 TOTAL FEE 900.74
INSPECTORS OFFICE CLERKS OFFICE

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

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

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGRESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

Columbia County Building Permit Application

For Office Use Only Application # 0801-137 Date Received 1-28-08 By LH Permit # 1572/26838
 Zoning Official BLK Date 31.01.08 Flood Zone X pany plat FEMA Map # N/A Zoning RSF-2
 Land Use R.L.O. Elevation N/A MFE 104 St River N/A Plans Examiner OK JTT Date 3-11-08
 Comments City Water no well letter) Elevation Confirmation Letter Required
☒ NOC ☒ DEH ☒ 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

Fax 752-2282

Name Authorized Person Signing Permit Linda or Melanie Rod Phone 752-2281
 Address 387 SW Kemp Ct Lake City FL 32024
 Owners Name Sparks Contractors, Inc. Phone 623-0575
 911 Address 231 SW Morning Glory Dr Lake City FL 32024
 Contractors Name Josh Sparks of Sparks Contractors, Inc Phone 623-0575
 Address POB 1479 Lake City FL 32056

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Mark Disosway

Mortgage Lenders Name & Address 1st Fed

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

Property ID Number 15-45-16-03023-506 Estimated Cost of Construction 180 K
 Subdivision Name Rolling Meadows Lot 6 Block _____ Unit _____ Phase _____
 Driving Directions 90 W to CR 391, L on Hope Henry, R on Morning Glory Dr 6th lot down on L

Number of Existing Dwellings on Property 0
 Construction of single family dwelling Total Acreage 5.96 Lot Size 5
 Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 15'-11"
 Actual Distance of Structure from Property Lines - Front 50' Side 26.00 Side 26.00 Rear 90'
 Number of Stories 1 Heated Floor Area 1860 Total Heated Floor Area 1860 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.

SPOKE to Linda - 3/11/08

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT 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 AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

[Signature]
Owners Signature

Affirmed under penalty of perjury to by the Owner and subscribed before me this 26 day of Jan 2008.
Personally known ✓ or Produced Identification _____

[Signature]
State of Florida Notary Signature (For the Owner)

SEAL:



Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

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.

[Signature]
Contractor's Signature (Permitee)

Contractor's License Number CBC 1252260
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 26 day of Jan 2008.
Personally known ✓ or Produced Identification _____

[Signature]
State of Florida Notary Signature

SEAL:



Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

0801-137

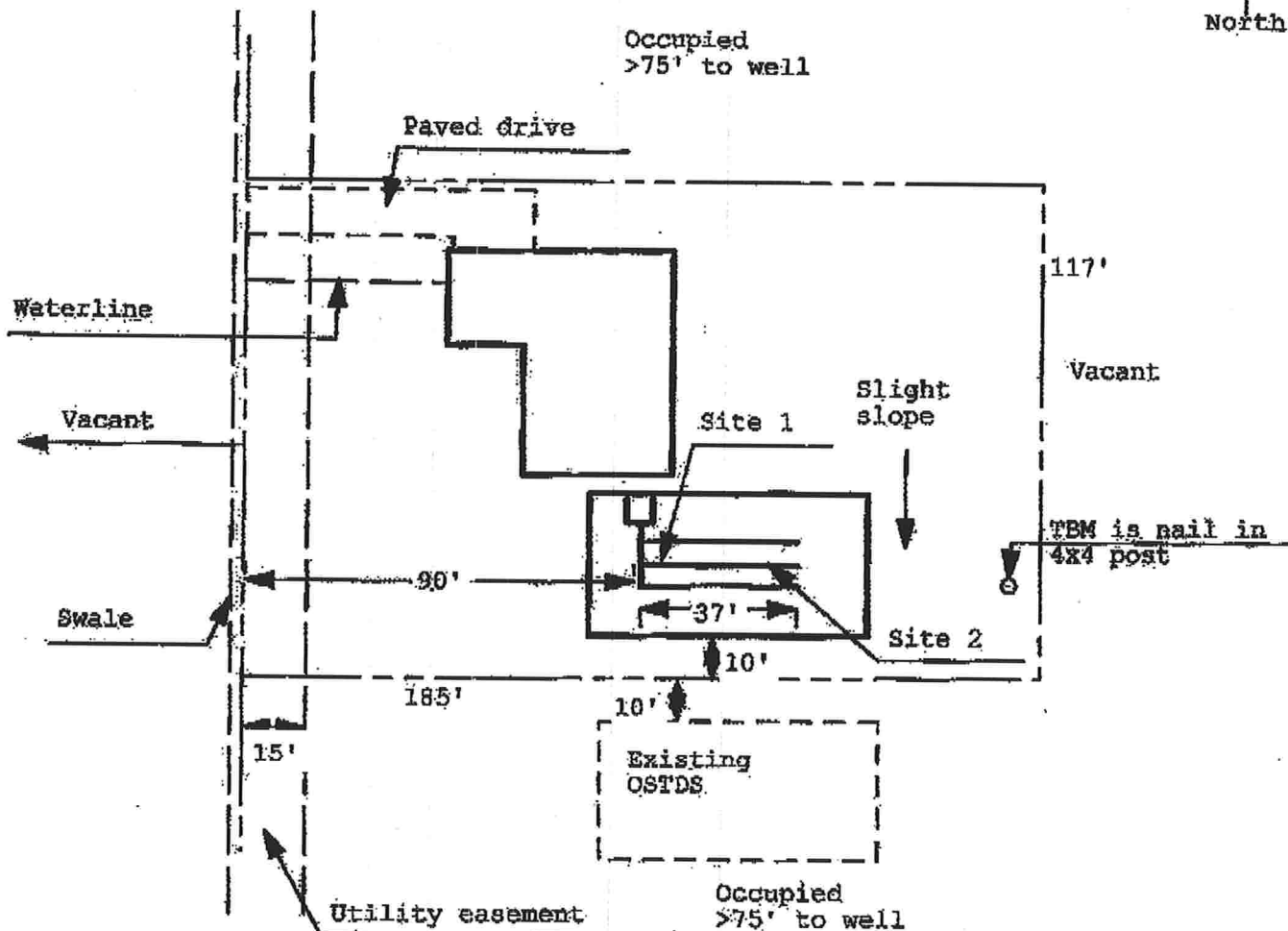
**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 08-0139

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SPARKS/CR 07-4269

Rolling Meadows, Lot 6

North



1 inch = 40 feet

Site Plan Submitted By Paul D. L...Plan Approved ☒Not Approved ☐

Date

2-4-08

By Mr. A. Larch Columbia CPHU

Notes:

Notice of Authorization

I, Josh Sparks, do hereby authorize Linda Roder or Melanie Roder,

to be my representative and act on my behalf in all aspects of applying for any

building permit to be located in Columbia county.

Any homeowner and legal description

[Signature]

Contractor's signature

1/26/07
Date



Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Sworn and subscribed before me this 26 day of Jan, 2008

[Signature]

Notary Public

My commission expires: _____
Commission No. _____
Personally known ☒ _____
Produced ID (Type): _____

This instrument prepared by:
William J. Haley, Esquire
Brannon, Brown,
Haley & Bullock, P. A.
P. O. Box 1029
Lake City, FL 32056-1029

Inst:2005028716 Date:11/17/2005 Time:14:06
Doc Stamp-Deed : 1043.70
16 DC, P. DeWitt Cason, Columbia County B:1065 P:1227

SPECIAL WARRANTY DEED

THIS INDENTURE, made this 16th day of November, 2005, between **JERRY COOK**, a married man, who does not reside on the property, but who resides at 314 Cannon Creek Drive, Lake City, Florida 32055, hereinafter referred to as Grantor, and **SPARKS CONTRACTORS, INC.**, a Florida corporation, having a mailing address of 162 SW Country Court, Lake City FL 32024, hereinafter referred to as Grantee.

WITNESSETH: That said Grantor, for and in consideration of the sum of \$10.00 and other good and valuable considerations to said Grantor in hand paid by said Grantee, the receipt and sufficiency of which are hereby acknowledged, have granted, bargained and sold to the said Grantee, and Grantee's successors and assigns forever, the following described land, situate, lying and being in **Columbia County, Florida**, to-wit:

Lot(s) 3, 5, and 6, **ROLLING MEADOWS**, a subdivision according to the plat thereof, as recorded in Plat Book 8, pages 45 and 46, public records of Columbia County, Florida.

PARCEL NO. Part of 15-4S-[REDACTED]

SUBJECT TO: Taxes and special assessments for the year 2005 and subsequent years; restrictions, reservations, rights of way for public roads, easements of record, if any; and zoning and any other governmental restrictions regulating the use of the lands.

and said Grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons claiming by, through or under said Grantor.

IN WITNESS WHEREOF, Grantor has hereunto set its hand and seal the day and year first above written.

Signed, sealed and delivered
in the presence of:

Inst:2005028716 Date:11/17/2005 Time:14:06
Doc Stamp-Deed : 1043.70
DC, P. DeWitt Cason, Columbia County B:1065 P:1228

William J. Hakey
Print Name: William J. Hakey

Jerry Cook
Jerry Cook

Debbie G. Moore
Print Name: Debbie G. Moore

**STATE OF FLORIDA
COUNTY OF COLUMBIA**

The foregoing instrument was acknowledged before me this 16th day of November,
2005, by Jerry Cook, who is personally known to me or whom produced FL DRIVER
License, as identification.

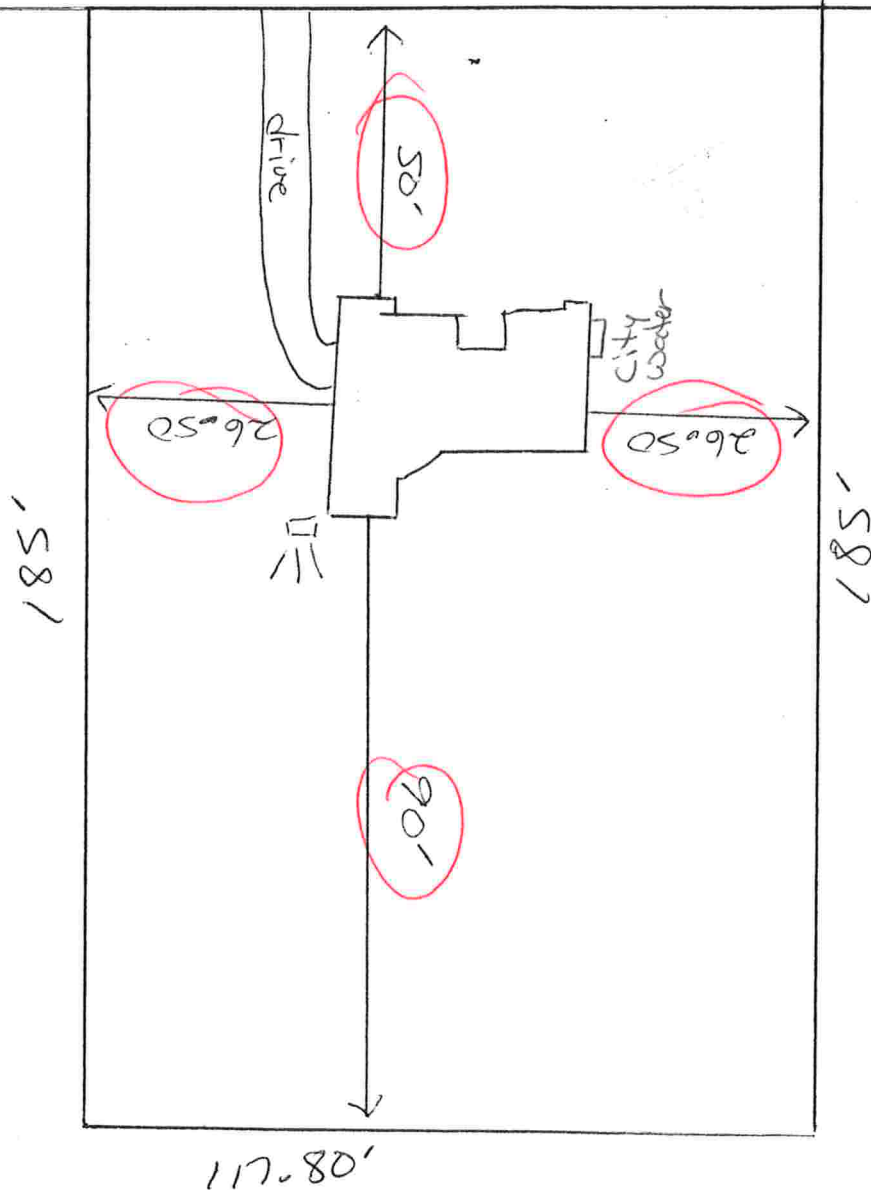
Debbie G. Moore
Notary Public, State of Florida



Lot 6 Rolling Meadows.
15-45-16-03023-506



SW Morning Glory Dr.
117.80'



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name:	801242SparksConstructionInc	Builder:	
Address:	Lot: 6, Sub: Rolling Meadows, Plat:	Permitting Office:	COLUMBIA
City, State:	, FL	Permit Number:	- 26838 -
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: 43.0 kBtu/hr SEER: 13.00
3. Number of units, if multi-family	1	b. N/A	
4. Number of Bedrooms	3	c. N/A	
5. Is this a worst case?	Yes	13. Heating systems	
6. Conditioned floor area (ft²)	1860 ft²	a. Electric Heat Pump	Cap: 43.0 kBtu/hr HSPF: 7.90
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		b. N/A	
a. U-factor:	Description Area	c. N/A	
(or Single or Double DEFAULT) 7a. (Dble Default)	340.3 ft²	14. Hot water systems	
b. SHGC:		a. Electric Resistance	Cap: 40.0 gallons EF: 0.93
(or Clear or Tint DEFAULT) 7b. (Clear)	340.3 ft²	b. N/A	
8. Floor types		c. Conservation credits	
a. Slab-On-Grade Edge Insulation	R=0.0, 224.0(p) ft	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
9. Wall types		(CF-Ceiling fan, CV-Cross ventilation,	
a. Frame, Wood, Exterior	R=13.0, 1273.7 ft²	HF-Whole house fan,	
b. Frame, Wood, Adjacent	R=13.0, 244.0 ft²	PT-Programmable Thermostat,	
c. N/A		MZ-C-Multizone cooling,	
d. N/A		MZ-H-Multizone heating)	
e. N/A			
10. Ceiling types			
a. Under Attic	R=30.0, 1860.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 170.0 ft		
b. N/A			

Glass/Floor Area: 0.18

Total as-built points: 25595

Total base points: 27165

PASS

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

PREPARED BY: [Signature]

DATE: 1-24-09

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

OWNER/AGENT: [Signature]

DATE: 1-26-09

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

BUILDING OFFICIAL: _____

DATE: _____



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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area											
				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points			
.18	1860.0	20.04	6709.4	Double, Clear	SW	1.5	7.5	36.0	40.16	0.93	1349.6
				Double, Clear	SW	12.0	7.5	54.0	40.16	0.42	901.5
				Double, Clear	S	13.0	7.5	20.0	35.87	0.46	328.6
				Double, Clear	SE	18.0	6.5	18.0	42.75	0.38	292.0
				Double, Clear	SW	1.5	7.5	24.0	40.16	0.93	899.7
				Double, Clear	SW	1.5	7.5	54.0	40.16	0.93	2024.4
				Double, Clear	NW	1.5	5.5	15.0	25.97	0.91	355.2
				Double, Clear	NE	1.5	7.5	36.0	29.56	0.95	1014.4
				Double, Clear	NE	7.0	7.5	13.3	29.56	0.60	235.7
				Double, Clear	NE	7.0	1.5	5.0	29.56	0.44	65.1
				Double, Clear	NE	1.5	5.5	15.0	29.56	0.91	401.5
				Double, Clear	NE	1.5	5.5	20.0	29.56	0.91	535.3
				Double, Clear	SE	1.5	5.5	30.0	42.75	0.86	1104.3
				As-Built Total:			340.3			9507.3	
WALL TYPES											
Area X BSPM = Points											
				Type	R-Value			Area X SPM = Points			
Adjacent	244.0	0.70	170.8	Frame, Wood, Exterior	13.0			1273.7	1.50	1910.5	
Exterior	1273.7	1.70	2165.3	Frame, Wood, Adjacent	13.0			244.0	0.60	146.4	
Base Total:				1517.7			2336.1				
				As-Built Total:			1517.7			2056.9	
DOOR TYPES											
Area X BSPM = Points											
				Type	Area X SPM = Points						
Adjacent	20.0	1.60	32.0	Exterior Insulated	10.0 4.10			41.0			
Exterior	30.0	4.10	123.0	Exterior Insulated	20.0 4.10			82.0			
				Adjacent Insulated	20.0 1.60			32.0			
Base Total:				50.0			155.0				
				As-Built Total:			50.0			155.0	
CEILING TYPES											
Area X BSPM = Points											
				Type	R-Value			Area X SPM X SCM = Points			
Under Attic	1860.0	1.73	3217.8	Under Attic	30.0			1860.0	1.73 X 1.00	3217.8	
Base Total:				1860.0			3217.8				
				As-Built Total:			1860.0			3217.8	
FLOOR TYPES											
Area X BSPM = Points											
				Type	R-Value			Area X SPM = Points			
Slab	224.0(p)	-37.0	-8288.0	Slab-On-Grade Edge Insulation	0.0			224.0(p)	-41.20	-9228.8	
Raised	0.0	0.00	0.0								
Base Total:				-8288.0			224.0			-9228.8	
				As-Built Total:			224.0			-9228.8	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT			
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
1860.0 10.21 18990.6				1860.0 10.21 18990.6			
Summer Base Points: 23120.9				Summer As-Built Points: 24698.8			
Total Summer X System = Cooling Points Multiplier Points				Total X Cap X Duct X System X Credit = Cooling Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)			
23120.9 0.4266 9863.4				<small>(sys 1: Central Unit 43000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)</small> 24699 1.00 (1.09 x 1.147 x 0.91) 0.263 1.000 7377.4 24698.8 1.00 1.138 0.263 1.000 7377.4			

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT										
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points						
.18	1860.0	12.74	4265.4	Double, Clear	SW	1.5	7.5	36.0	16.74	1.04	623.6			
				Double, Clear	SW	12.0	7.5	54.0	16.74	1.84	1667.1			
				Double, Clear	S	13.0	7.5	20.0	13.30	3.45	917.4			
				Double, Clear	SE	18.0	6.5	18.0	14.71	2.65	701.5			
				Double, Clear	SW	1.5	7.5	24.0	16.74	1.04	415.8			
				Double, Clear	SW	1.5	7.5	54.0	16.74	1.04	935.5			
				Double, Clear	NW	1.5	5.5	15.0	24.30	1.00	365.9			
				Double, Clear	NE	1.5	7.5	36.0	23.57	1.00	850.8			
				Double, Clear	NE	7.0	7.5	13.3	23.57	1.04	326.8			
				Double, Clear	NE	7.0	1.5	5.0	23.57	1.06	125.1			
				Double, Clear	NE	1.5	5.5	15.0	23.57	1.01	356.3			
				Double, Clear	NE	1.5	5.5	20.0	23.57	1.01	475.1			
				Double, Clear	SE	1.5	5.5	30.0	14.71	1.11	491.5			
				As-Built Total:								340.3	8252.4	
				WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points			
				Adjacent	244.0	3.60	878.4	Frame, Wood, Exterior	13.0		1273.7	3.40	4330.6	
Exterior	1273.7	3.70	4712.7	Frame, Wood, Adjacent	13.0		244.0	3.30	805.2					
Base Total: 1517.7 5591.1				As-Built Total:		1517.7		5135.8						
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points									
Adjacent	20.0	8.00	160.0	Exterior Insulated				10.0	8.40	84.0				
Exterior	30.0	8.40	252.0	Exterior Insulated				20.0	8.40	168.0				
				Adjacent Insulated				20.0	8.00	160.0				
Base Total: 50.0 412.0				As-Built Total:		50.0		412.0						
CEILING TYPESArea X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points							
Under Attic	1860.0	2.05	3813.0	Under Attic	30.0		1860.0	2.05 X 1.00		3813.0				
Base Total: 1860.0 3813.0				As-Built Total:		1860.0		3813.0						
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points							
Slab	224.0(p)	8.9	1993.6	Slab-On-Grade Edge Insulation	0.0		224.0(p)	18.80		4211.2				
Raised	0.0	0.00	0.0											
Base Total: 1993.6				As-Built Total:		224.0		4211.2						

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT					
INFILTRATION Area X BWPM = Points				Area X WPM = Points					
1860.0 -0.59 -1097.4				1860.0 -0.59 -1097.4					
Winter Base Points:			14977.6	Winter As-Built Points:			20727.0		
Total Winter X System = Heating Points Multiplier Points				Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)					
				(sys 1: Electric Heat Pump 43000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0 20727.0 1.000 (1.069 x 1.169 x 0.93) 0.432 1.000 10397.7					
14977.6	0.6274	9397.0		20727.0	1.00	1.162	0.432	1.000	10397.7

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

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

CODE COMPLIANCE STATUS

BASE							AS-BUILT						
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
9863		9397		7905		27165	7377		10398		7820		25595

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.3

The higher the score, the more efficient the home.

Spec House, Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 43.0 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?	Yes	___	c. N/A	___
6. Conditioned floor area (ft ²)	1860 ft ²	___		___
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		___		___
a. U-factor:	Description Area		13. Heating systems	
(or Single or Double DEFAULT)	7a. (Dble Default) 340.3 ft ²	___	a. Electric Heat Pump	Cap: 43.0 kBtu/hr
b. SHGC:		___		HSPF: 7.90
(or Clear or Tint DEFAULT)	7b. (Clear) 340.3 ft ²	___	b. N/A	___
8. Floor types		___	c. N/A	___
a. Slab-On-Grade Edge Insulation	R=0.0, 224.0(p) ft	___		___
b. N/A	___	___	14. Hot water systems	
c. N/A	___	___	a. Electric Resistance	Cap: 40.0 gallons
9. Wall types		___		EF: 0.93
a. Frame, Wood, Exterior	R=13.0, 1273.7 ft ²	___	b. N/A	___
b. Frame, Wood, Adjacent	R=13.0, 244.0 ft ²	___		___
c. N/A	___	___	c. Conservation credits	___
d. N/A	___	___	(HR-Heat recovery, Solar	___
e. N/A	___	___	DHP-Dedicated heat pump)	___
10. Ceiling types		___	15. HVAC credits	___
a. Under Attic	R=30.0, 1860.0 ft ²	___	(CF-Ceiling fan, CV-Cross ventilation,	___
b. N/A	___	___	HF-Whole house fan,	___
c. N/A	___	___	PT-Programmable Thermostat,	___
11. Ducts		___	MZ-C-Multizone cooling,	___
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 170.0 ft	___	MZ-H-Multizone heating)	___
b. N/A	___	___		___

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

Builder Signature: _____ Date: _____

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



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

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLR2PB v4.1)

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
Page 1 of 1 Document ID:ITEE8228Z0424064711

0801-137

Truss Fabricator: Anderson Truss Company
Job Identification: 8-034--Sparks Construction Lot 6 Rolling Meadows -- Lot 6 Rolling Meadows, **
Truss Count: 76
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 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

[Handwritten signature]

Notes:

Seal Date: 01/24/2008

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

-Truss Design Engineer-

James F. Collins Jr.

Florida License Number: 52212

1950 Marley Drive

Haines City, FL 33844

Details: BRCLBSUB-TCFILLER-BCFILLER-A11015EE-GBLLETIN-PIGBACKB-

#	Ref	Description	Drawing#	Date
1	45697--H7A		08023056	01/23/08
2	45698--A2		08023062	01/23/08
3	45699--A1		08023088	01/23/08
4	45700--H9A		08023057	01/23/08
5	45701--H11A		08023058	01/23/08
6	45702--H13A		08023059	01/23/08
7	45703--H15A		08023060	01/23/08
8	45704--H7B		08023078	01/23/08
9	45705--H9B		08023079	01/23/08
10	45706--H11B		08023080	01/23/08
11	45707--H13B		08023081	01/23/08
12	45708--H15B		08023082	01/23/08
13	45709--B1		08023083	01/23/08
14	45710--B2		08023093	01/23/08
15	45711--B3		08023107	01/23/08
16	45712--B4		08023087	01/23/08
17	45713--B5		08023066	01/23/08
18	45714--C-GE		08023116	01/23/08
19	45715--D1		08023043	01/23/08
20	45716--D2		08023044	01/23/08
21	45717--D3		08023045	01/23/08
22	45718--D-GE		08023117	01/23/08
23	45719--E-GE		08023046	01/23/08
24	45720--E1		08023047	01/23/08
25	45721--F7-GDR		08023053	01/23/08
26	45722--F1		08023100	01/23/08
27	45723--F8		08023103	01/23/08
28	45724--F-GE		08023098	01/23/08
29	45725--F2		08023099	01/23/08
30	45726--F6		08023072	01/23/08
31	45727--F5		08023102	01/23/08
32	45728--F4		08023109	01/23/08
33	45729--F3		08023110	01/23/08
34	45730--H5G		08023048	01/23/08
35	45731--H6G		08023049	01/23/08
36	45732--I1-GDR		08023042	01/23/08
37	45733--EJ1		08023084	01/23/08
38	45734--J1A		08023075	01/23/08

#	Ref	Description	Drawing#	Date
39	45735--HJ1		08023064	01/23/08
40	45736--J1B		08023106	01/23/08
41	45737--J1C		08023095	01/23/08
42	45738--J1		08023052	01/23/08
43	45739--HJ5		08023050	01/23/08
44	45740--HJ7		08023069	01/23/08
45	45741--HJ4		08023089	01/23/08
46	45742--EJ7		08023076	01/23/08
47	45743--J5		08023073	01/23/08
48	45744--HJ5A		08023090	01/23/08
49	45745--J3		08023074	01/23/08
50	45746--J5A		08023070	01/23/08
51	45747--J3A		08023071	01/23/08
52	45748--EJ4		08023096	01/23/08
53	45749--J2		08023091	01/23/08
54	45750--EJ7C		08023092	01/23/08
55	45751--EJ5		08023055	01/23/08
56	45752--J3C		08023054	01/23/08
57	45753--J3B		08023051	01/23/08
58	45754--EJ7A		08023077	01/23/08
59	45755--EJ7B		08023061	01/23/08
60	45756--M1		08023108	01/23/08
61	45757--M2		08023063	01/23/08
62	45758--M3		08023097	01/23/08
63	45759--PB11		08023115	01/23/08
64	45760--PB6		08023105	01/23/08
65	45761--PB10		08023111	01/23/08
66	45762--PB9		08023104	01/23/08
67	45763--PB8		08023086	01/23/08
68	45764--PB7		08023101	01/23/08
69	45765--PB5		08023085	01/23/08
70	45766--PB4		08023065	01/23/08
71	45767--PB3		08023114	01/23/08
72	45768--PB2		08023113	01/23/08
73	45769--PB1		08023112	01/23/08
74	45770--PB12		08023094	01/23/08
75	45771--PB13		08023068	01/23/08
76	45772--PB14		08023067	01/23/08



#8-034
SPARKS CONST.-
LOT 6 ROLLING M



Top chord 2x6 SP #2 :T4, T5 2x4 SP #2 Dense:
Bot chord 2x6 SP #2
Webs 2x4 SP #3 :W5 2x4 SP #2 Dense:

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", 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. Iw=1.00 Gcpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

End verticals not exposed to wind pressure.

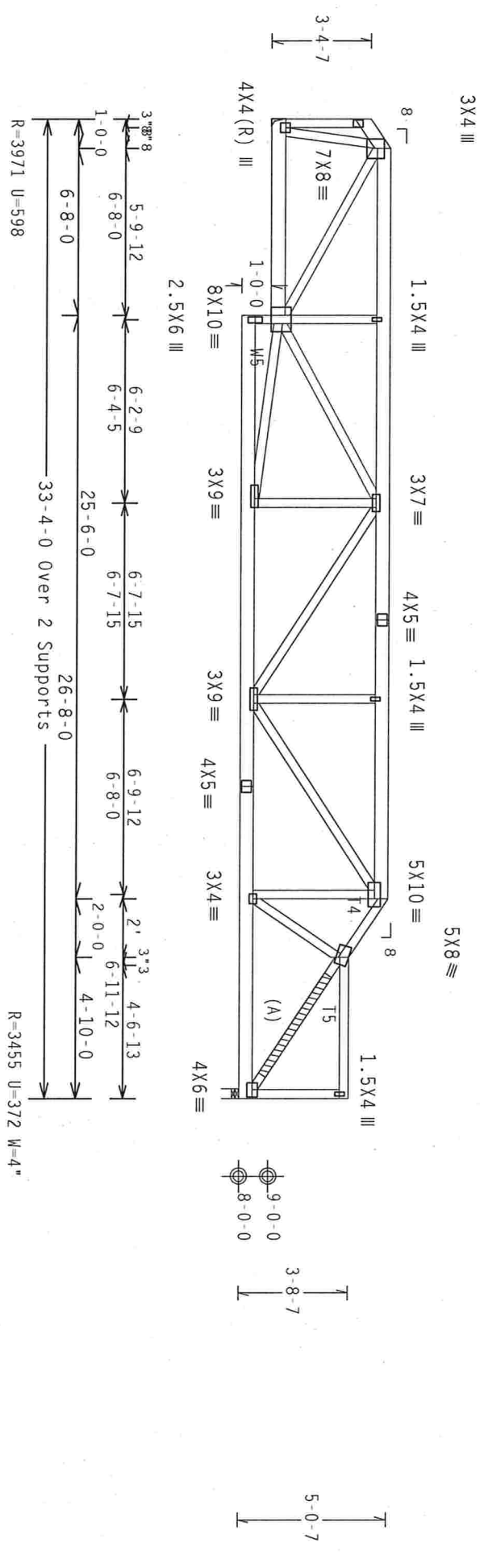
(A) #3 or better scab brace. Same size & 80% length of web member.
Attach with 10d Box or Gun (0.128"x3", min.)nails @ 6" OC.

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

TC - From	DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
64 PLF at -0.00 to	64 PLF at 1.00
TC - From	64 PLF at 1.00 to
64 PLF at 1.00 to	64 PLF at 26.50
TC - From	64 PLF at 26.50 to
64 PLF at 26.50 to	64 PLF at 28.50
TC - From	64 PLF at 28.50 to
64 PLF at 28.50 to	64 PLF at 33.33
BC - From	20 PLF at 0.00 to
20 PLF at 0.00 to	20 PLF at 6.67
BC - From	20 PLF at 6.67 to
20 PLF at 6.67 to	20 PLF at 33.33
TC -	208 LB Conc. Load at 2.44, 4.44, 6.44
TC -	193 LB Conc. Load at 8.44, 10.44, 12.44, 14.44, 16.44
TC -	20.44, 22.44, 24.44
TC -	452 LB Conc. Load at 26.50
BC -	424 LB Conc. Load at 0.44
BC -	66 LB Conc. Load at 2.44, 4.44, 6.44
BC -	82 LB Conc. Load at 8.44, 10.44, 12.44, 14.44, 16.44
BC -	18.44, 20.44, 22.44, 24.44
BC -	456 LB Conc. Load at 26.50



PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

7.36.0424.1 OTY:1 FL/-/4/-/E/-/-

Scale = .1875"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 216 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (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.

****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.

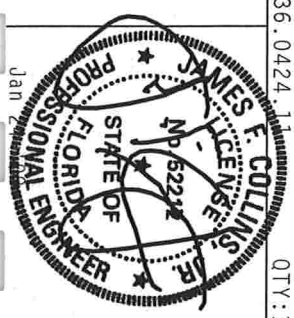
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF BCS (NATIONAL DESIGN SPEC., BY AREA) AND TPI.

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FL Certificate of Authorization # 0-0778



TC LL	20.0 PSF	REF	R8228-45697
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023056
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61608
DUR.FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	JREF-	1TEE8228204

Layer	Size	Dropout	Activation	Connections
Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webs	2x4	SP	#3	
Filler	2x4	SP	#2	Dense

(A) Continuous lateral bracing equally spaced on member.

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

Laterally brace BC above filler @ 24" O.C.
Including a lateral brace at chord ends.

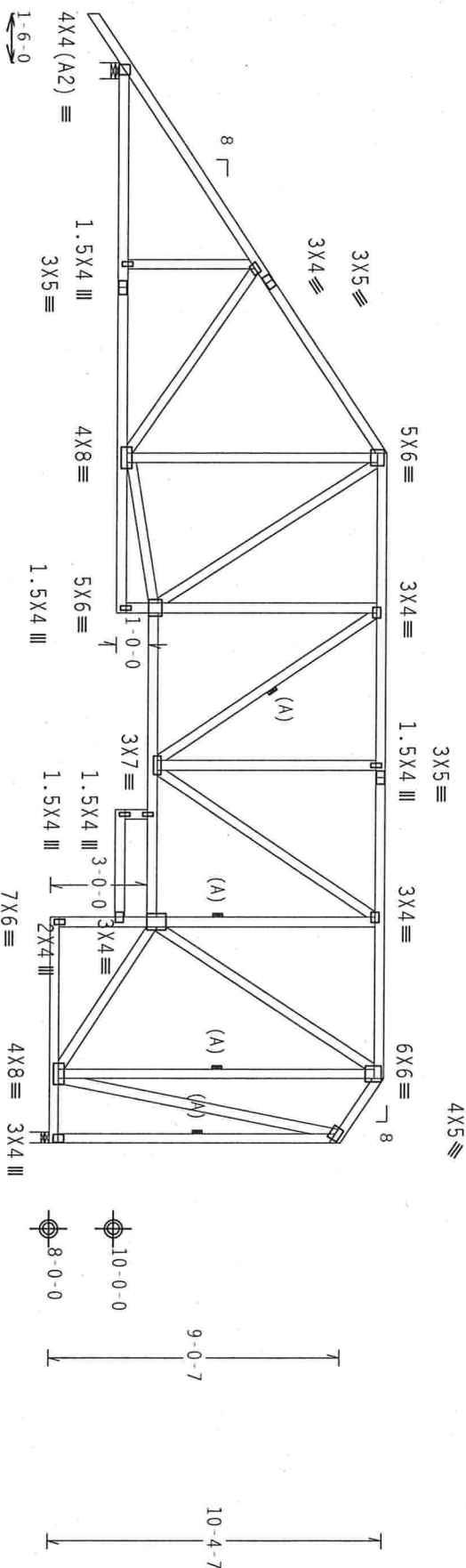
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ Gcpi(+/-)=0.18

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.

Laterally brace BC at 24" OC in lieu of rigid ceiling. Laterally brace BC above filler at 24" OC.

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



6-2-7
 6-2-7
 12-0-0
 16-11-0
 23-0-0
 4-5-12
 4-10-4
 4-10-4
 4-6-12
 7-0-0
 3-4-0
 4-10-4
 5-0-0
 4-6-12
 7-0-0
 2'-1-12
 2'-0-0
 9-5-0
 19-4-1
 33-4-0 Over 2 Supports
 R=1513 U=123 W=6"
 R=1392 U=

PLT TYP. Wave

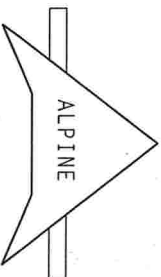
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)

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

7.36.0424

QTY:3 FL/-/4/-/E/-/-

Scale = .1875"/Ft.

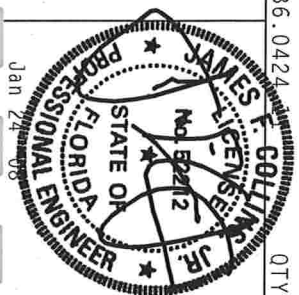


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****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DESI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 63000 ENTERPRISE LAKE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO REFORMING THESE COMPONENTS. UNDESIGNED OR OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITR 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 CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AIA/P1 AND TPI. ITR BCG HAS USED THE FOLLOWING: 1.5, 1.6, 1.7, 1.8, 1.9, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 11.9, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 12.8, 12.9, 13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8, 13.9, 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7, 14.8, 14.9, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 15.7, 15.8, 15.9, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7, 16.8, 16.9, 17.1, 17.2, 17.3, 17.4, 17.5, 17.6, 17.7, 17.8, 17.9, 18.1, 18.2, 18.3, 18.4, 18.5, 18.6, 18.7, 18.8, 18.9, 19.1, 19.2, 19.3, 19.4, 19.5, 19.6, 19.7, 19.8, 19.9, 20.1, 20.2, 20.3, 20.4, 20.5, 20.6, 20.7, 20.8, 20.9, 21.1, 21.2, 21.3, 21.4, 21.5, 21.6, 21.7, 21.8, 21.9, 22.1, 22.2, 22.3, 22.4, 22.5, 22.6, 22.7, 22.8, 22.9, 23.1, 23.2, 23.3, 23.4, 23.5, 23.6, 23.7, 23.8, 23.9, 24.1, 24.2, 24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, 25.1, 25.2, 25.3, 25.4, 25.5, 25.6, 25.7, 25.8, 25.9, 26.1, 26.2, 26.3, 26.4, 26.5, 26.6, 26.7, 26.8, 26.9, 27.1, 27.2, 27.3, 27.4, 27.5, 27.6, 27.7, 27.8, 27.9, 28.1, 28.2, 28.3, 28.4, 28.5, 28.6, 28.7, 28.8, 28.9, 29.1, 29.2, 29.3, 29.4, 29.5, 29.6, 29.7, 29.8, 29.9, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.1, 68.2, 68.3, 68.4, 68.5, 68.6, 68.7, 68.8, 68.9, 69.1, 69.2, 69.3, 69.4, 69.5, 69.6, 69.7, 69.8, 69.9, 70.1, 70.2, 70.3, 70.4, 70.5, 70.6, 70.7, 70.8, 70.9, 71.1, 71.2, 71.3, 71.4, 71.5, 71.6, 71.7, 71.8, 71.9, 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 73.



TC LL	20.0 PSF	REF	R0228 - 45098
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR0228 08023062
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN -	61289
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	1TEE8228704

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

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. $I_w=1.00$ $G_{cpl}(+/-)=0.18$

Wind reactions based on MMFRS 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: $TPI-2002(STD)/FBC$ $Cq/RT=1.00(1.25)/0(0)$

7.36.0424.11

QTY:1

FL/-/4/-/E/-/-/

Scale = .1875"/Ft.

*****WARNING***** FRILES (BUILDING COMPONENT SAFETY INFORMATION) - HANDLING, SHIPPING, INSTALLING AND PROTECTING FRILES TO BE USED IN THE CONSTRUCTION OF TRUSS ROOF SYSTEMS. PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND 4000 TRUSS CENTER DRIVE, FARMINGTON, CT, 06030. ENTERPRISE LANE, MONTICU, MI, 48139 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNDESSED OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERTY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIDGE CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

ALPINE

ITW Building Components Group, Inc.

FL Certificate of Authorization # 0 278

TC LL	20.0 PSF	REF	R8228 - 45699
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023088
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEQN-	61331
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228Z04

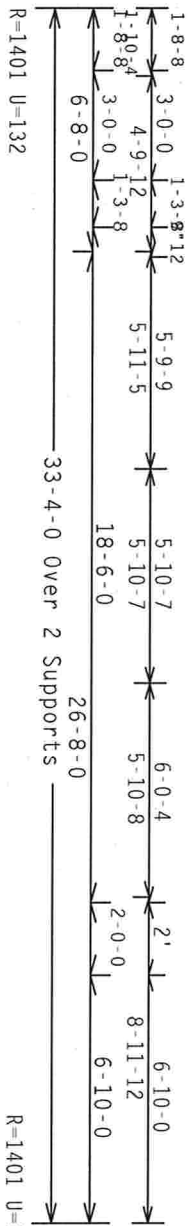
	Top chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, 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

(A) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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.



R=1401 U=140 W=4"

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

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

7.36.04241101 QTY:

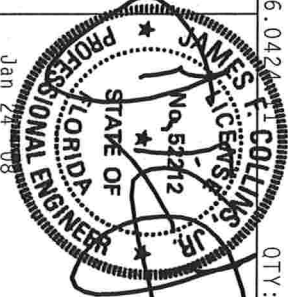
QTY:1

FL-/-/4/-/E/-/-

Scale = .1875" / Ft

*****WARNING***** TRUCKS, RELOADING EXTERIOR CEMENT IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO AC301 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY THE (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COMPANY OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

* * * IMPORTANT * * * FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. IT IS BIG, IN CASE SMALL MODIFICATIONS ARE REQUIRED. THE CONTRACTOR MUST BE RESPONSIBLE FOR THE DESIGN. ANY FAILURE TO BUILD THE THURDS IN CONFORMANCE WITH THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOD. ASHRAE STANDARD SPEC. BY (A/R) AND TEL. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOD. ASHRAE STANDARD SPEC. BY (A/R) AND TEL. CONNECTOR PLATES ARE AVAILABLE FOR 201/81/1664 (W/H/S/S) ASTM A563, GRADE 40/60, (A/R) AND TEL. PLATES TO EACH FACE OF THURDS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1660-2, 201/81/1664 (W/H/S/S) ASTM A563, GRADE 40/60, (A/R) AND TEL. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE THURDS. THE DESIGN SHOWS THE SATISFACTORY USE OF THIS COMPONENT FOR ANY BUILDING. THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/711.1 SEC. 2.



Jan 24 08

TC LL	20.0 PSF	REF	R8228 - 45700
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023057
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61357
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TFE8228704

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

End verticals not exposed to wind pressure.

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.

Provide for complete drainage of roof.



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

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

7.36.0424

QTY:1

FL/-/4/-/E/-/-

Scale = .1875"/Ft.

WARNING: THESE TRUCKS REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, DRIPPING, INSTALLING AND PROTECTING TO MEET BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND TRUSS COUNCIL OF AMERICA, 63000 ENTERPRISE LANE, MONTICELLO, VA 55179 FOR SAFETY PRACTICES AND WELDS TO PERFORM THESE FUNCTIONS. UNDESIGNED INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

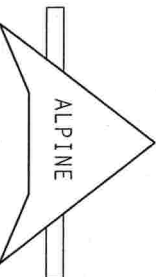
TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W, H/SS/K) ASTM A553 GRADE 40/60 (W, K/H,SS) GALV, STEEL. APPLY

ANY INSPECTION OF PLAILES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. COLLECT FOR THE TRUSS COMPANY

As shown, the solvability and use of this component for any building is the responsibility of the building designer per ANSI/TPI 1 Sec. 2.

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0778



TC LL	20.0 PSF	REF	R8228- 45701
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023058
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61364
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228Z04

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, 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 MMFRS pressures.

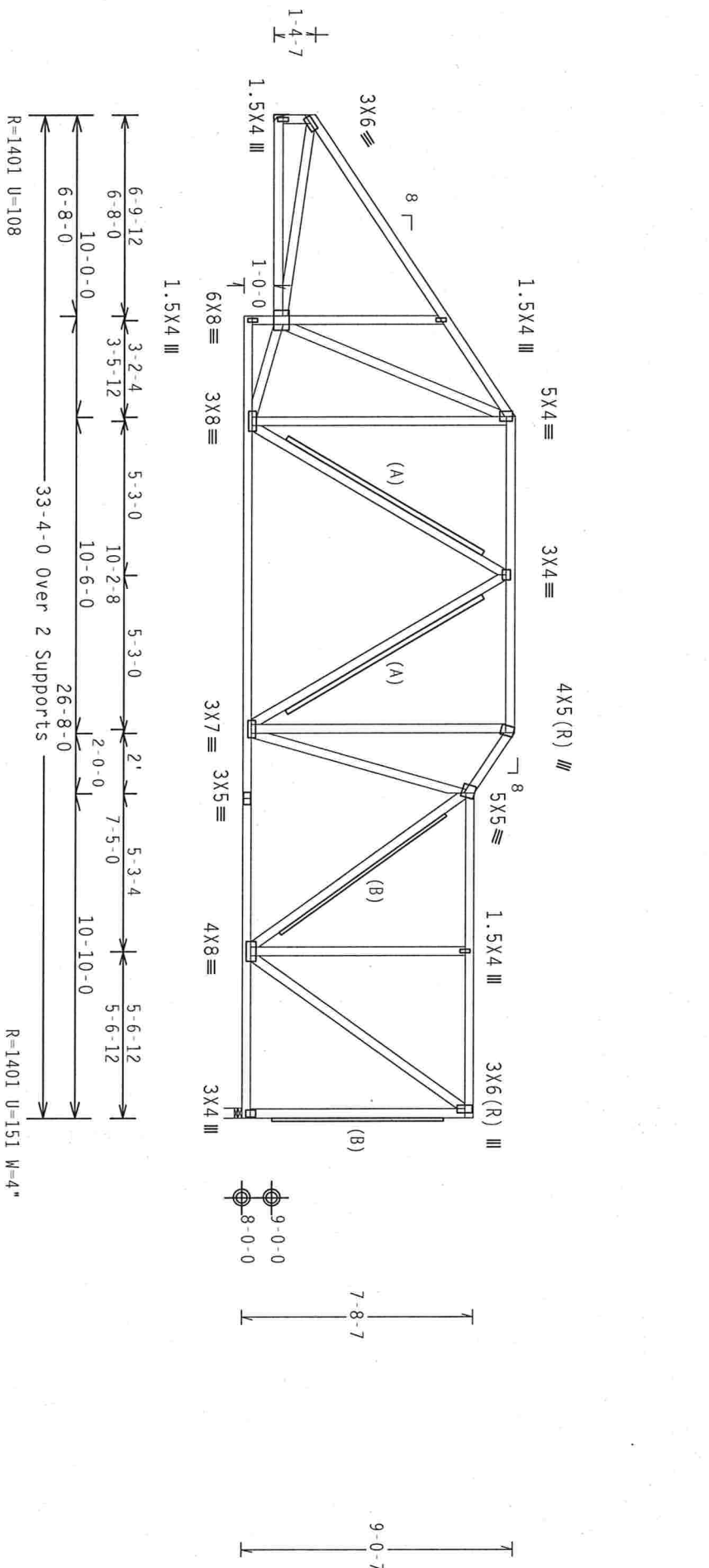
Right end vertical not exposed to wind pressure.

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

(B) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

(A) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.36.0424 11

QTY:1

FL/-/4/-/E/-/-

Scale = .1875"/Ft.

WARNING: THESE TRUCKS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PROTECTING. REFER TO GC-1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PRACTICE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND NCA (NORTH AMERICAN TRUSS COUNCIL OF AMERICA, 65000 MIDWAY ENTERPRISE LANE, MIDWAY, IL 61329) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. INTERESTED PARTIES WHOSE NAMES INDICATED TOP CHORD SHALL HAVE PROPERTY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERTY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

ALPINE

ITW Building Components Group, Inc.

FL Certificate of Authorization # 0778



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TC LL	20.0 PSF	REF	R8228 - 45702
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023059
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT. LD.	40.0 PSF	SEQN -	61372
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	1TEE8228Z04

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

(B) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

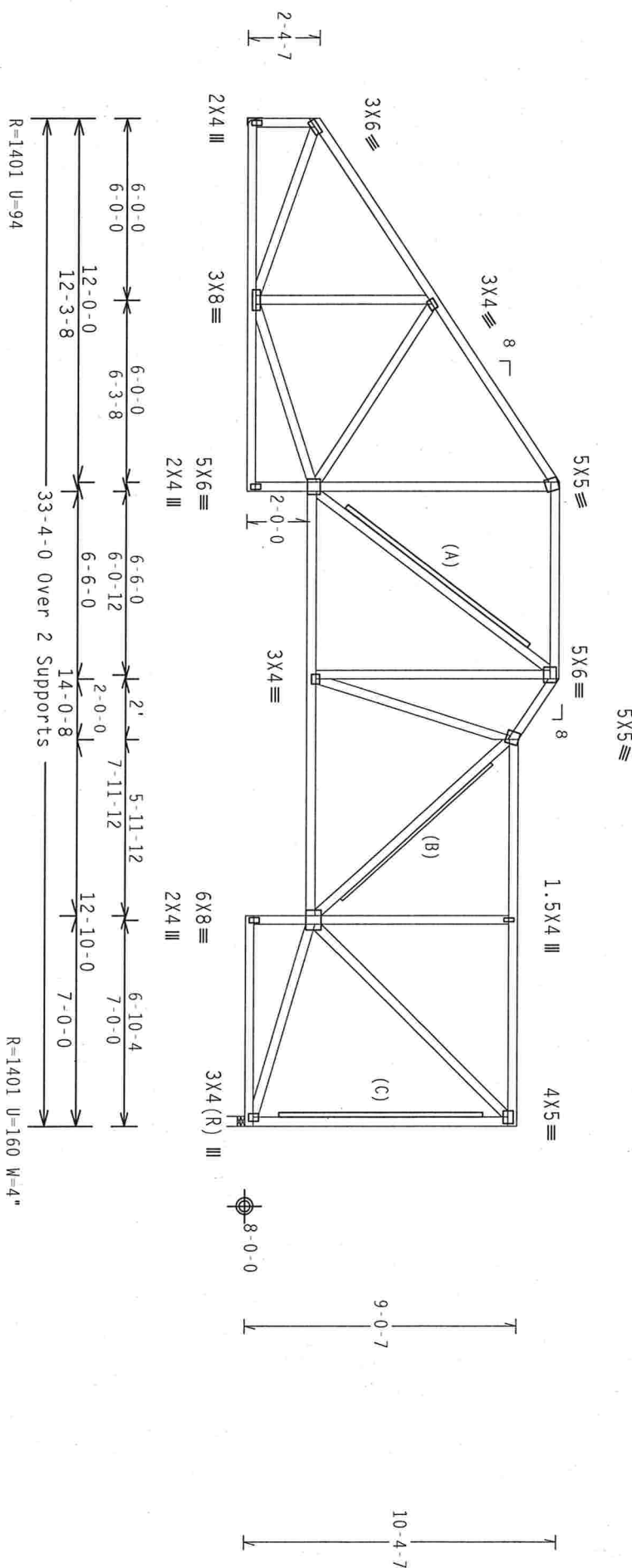
(C) 2x6 #3 or better "T" brace. 80% Length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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

H15A) 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

(A) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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



PLT TYP. Wave

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

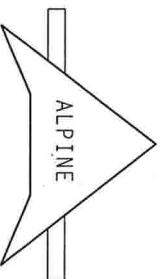
 $Cq/RT=1.00(1.25)/0(0)$

7.36.0424

QTY:1

FL/-/4/-/E/-/-

Scale = .1875"/Ft.



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

****WARNING**** FRILES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO ACSEI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND NICK (WOOD TRUSS COMPANY OF AMERICA), 65000 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.

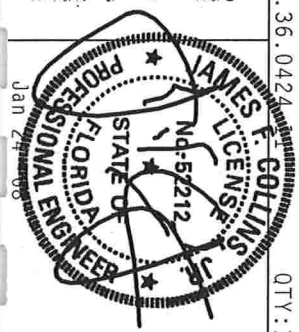
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITR BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI.

CONNECTION PLATES ARE MADE OF 201/81/16GA (N/A/SS/VS) ASTM A563 GRADE 40/60 (N/A/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF FRI-1-2002 SEC.3.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENTS DESIGN SHOW, THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 45703
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023060
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61382
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228204

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #2:
Bot chord 2x6 SP #2
Webs 2x4 SP #3 :W10, W11 2x6 SP #2:

Left side jacks have 4-0-0 setback.
End jacks have 7-0-0 setback.

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. $I_w=1.00$ GCPI (+/-)=0.18



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

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

QTY: 1

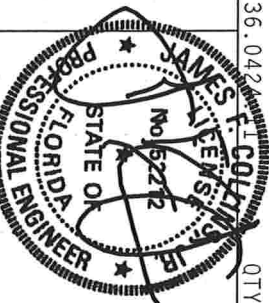
QTY:1 FL/-/4/-/E/-/-

Scale = .25"/Ft.

*****WARNING***** FIBERS REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PACKAGING. REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE FIBERS PLASTIC INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND AFCA 0009 TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO TRANSFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

ALPINE

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

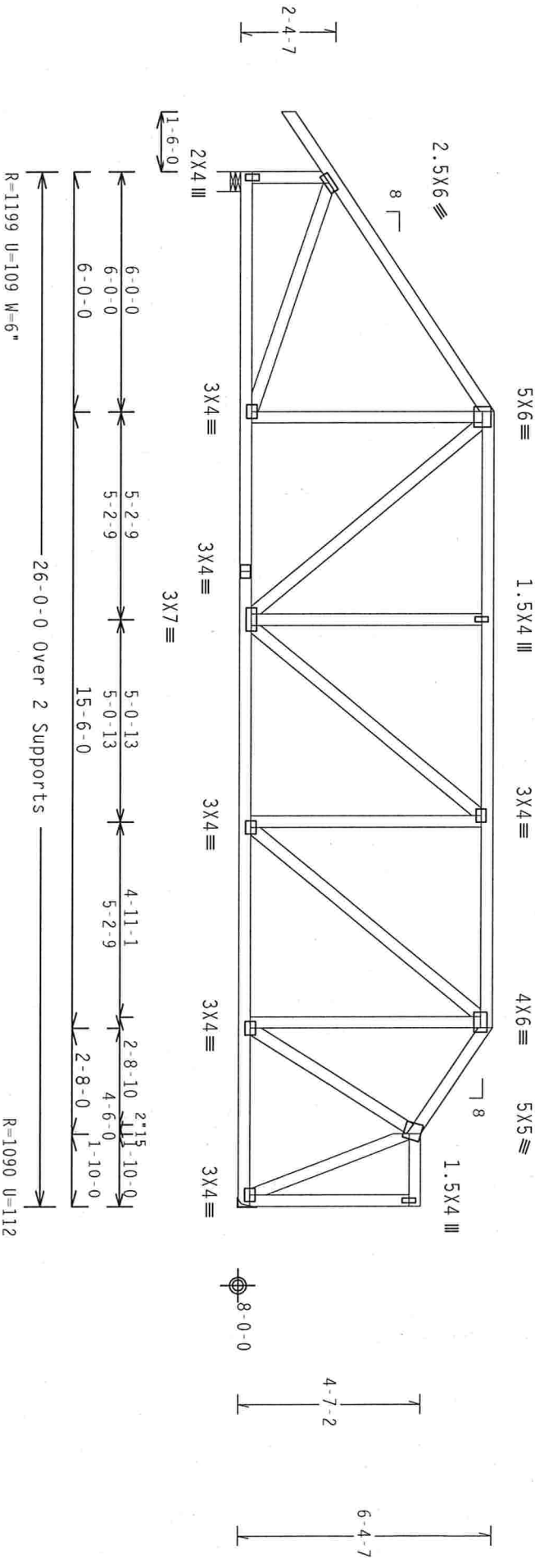


TC LL	20.0 PSF	REF	R8228- 45704
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCU88228 08023078
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61631
DUR.FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	JREF-	1TEE8228204

(8-034--Sparks Construction Lot 6 Rolling Meadows -- Lot 6 Rolling Meadows , ** - H9B)
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

End verticals not exposed to wind pressure.
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 MMFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/0(0) 7.36.0424 1.00(1.25)/0(0) QTY:1 FL/-/4/-/E/-/- Scale = .25"/Ft.

****WARNING**** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (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.



TC LL	20.0 PSF	REF R8228- 45705
TC DL	10.0 PSF	DATE 01/23/08
BC DL	10.0 PSF	DRW HCUR8228 08023079
BC LL	0.0 PSF	HC-ENG DF/DF
TOT.LD.	40.0 PSF	SEQN- 61159
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TEE8228204

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0-778

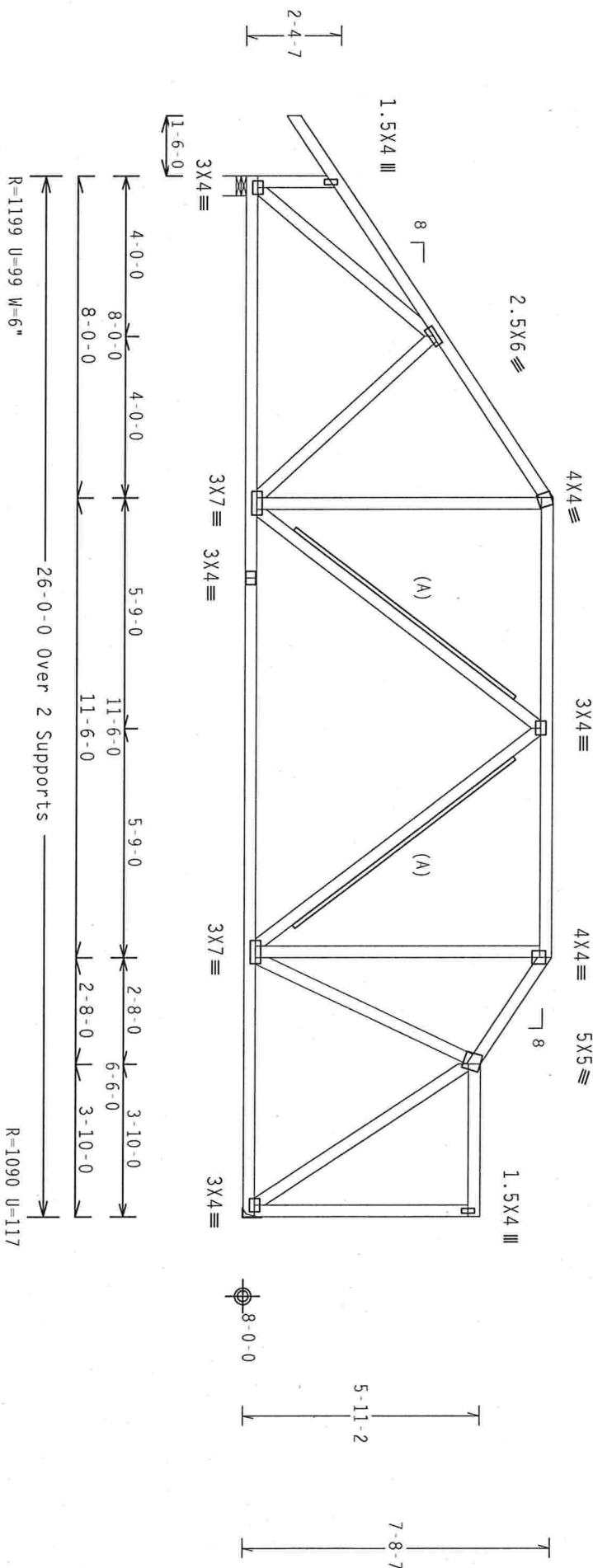
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

(A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" 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 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 gcpi(+/-)=0.18
Wind reactions based on MMFRS pressures.

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



PLT TYP. Wave

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

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

7.36.0424

QTY:1

FL/-/4/-/E/-/-

Scale = .25"/Ft.

WARNING: THESE TRUCKS BEARING EXISTENT CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PROTECTING THE TRUSS COMPONENTS. INFORMATION, PUBLISHED BY THE TRUSS PRACTICE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA, WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MONTICELLO, VA, 53179 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITB BCG, INC. SHALL NOT

BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE SPECIFICATIONS OF THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE FABRICATOR.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL GRADE SPEC., BY AIRPA) AND TPI. ITM BCG
CONNECTOR PLATES ARE MADE OF 20/18/166A (W,H,SS/K) ASTM A653 GRADE 40/60 (W,K,H,SS) GALV. STEEL. APPLY
PLATES TO EACH FACE OF DRIBBLES AND UNLESS OTHERWISE SPECIFIED ON THIS DESIGN POSITION PER DRAWINGS 1604-3

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS FOLLOWED BY (1) SHALL BE PER ANNE A3 OF TP11-2002 SEC.3. A SEAL ON THIS PLATE IS REQUIRED FOR THIS DESIGN, POSITION PER ANNE A3 OF TP11-2002 SEC.3.

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.

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

1000000

224-1
QTY:
No. 52212
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAN 24 1988

TC LL	20.0 PSF	REF	R8228 - 45706
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023080
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN -	61166
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	1TEE8228Z04

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

End verticals not exposed to wind pressure.

(A) 1x4 #3 or better "T" brace, 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

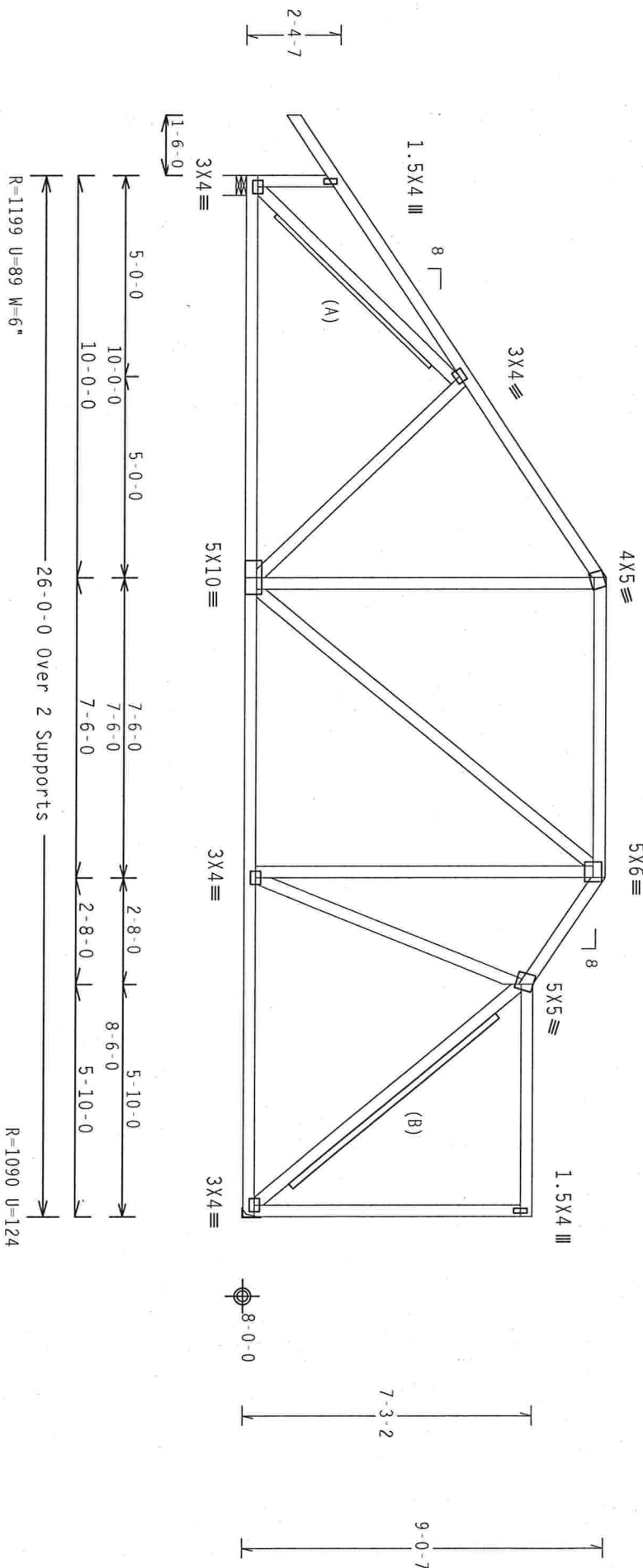
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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 Gcpl(+/-)=0.18

Wind reactions based on MWFRS pressures.

(B) 2x4 #3 or better "T" brace, 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

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



PLT TYP. Wave

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

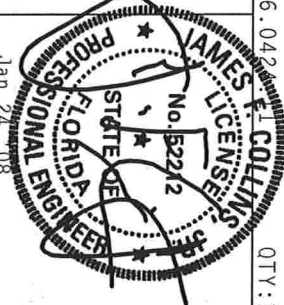
QTY: 1

FL/-/4/-/E/-/-

Scale = .25"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 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.

****IMPORTANT**** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BGC, 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, BY ACPA) AND TPI. DESIGNER'S RESPONSIBILITY FOR THE TRUSS DESIGN SHALL BE THE DESIGNER'S. THE BGC, INC. SHALL NOT BE RESPONSIBLE FOR THE TRUSS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, BY ACPA) AND TPI. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002 SEC. 2.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY 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.



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0378

TC LL	20.0 PSF	REF	R8228- 45707
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023081
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEON-	61173
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228204

מחברת: ד"ר חגית גורן (חברת מועצה אזורית חבל מנשה)

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.

(B) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5".min.)nails @ 6" OC.

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



Scale = .25" / Ft.

JAMES L. BOLING, JR.
FEB 27 1967
No. 52272

FL Certificate of Authorization # 0 278

[illegible]

Jan 24 08

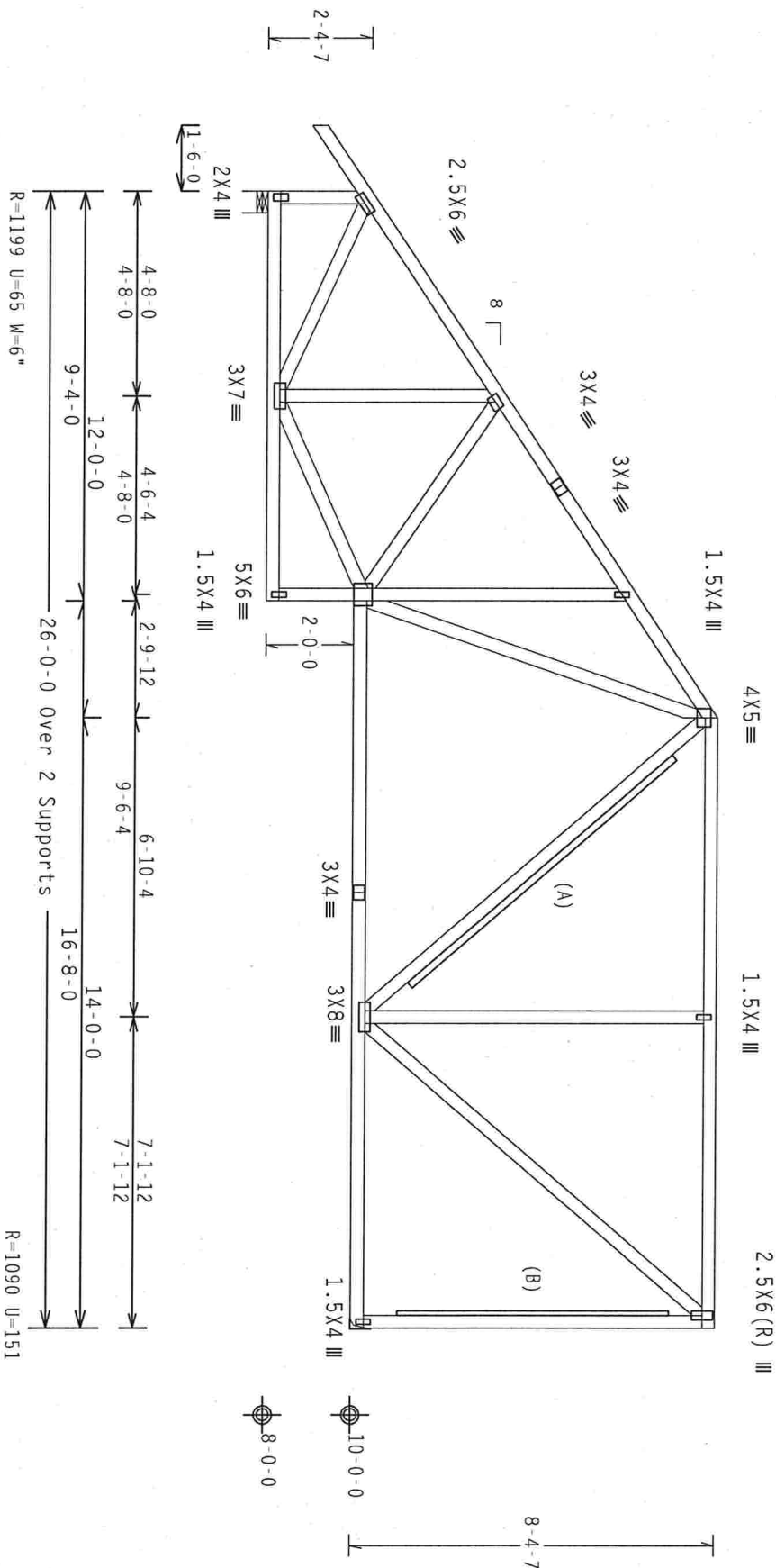
TC LL	20.0 PSF	REF	R8228- 45708
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023082
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61183
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228Z04

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

(B) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" 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

(A) 2x4 #3 or better "I" brace: 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.



PLT TYP. Wave

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

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

7.36.0424

QTY:1

FL/-/4/-/E/-/-/

Scale = .25"/Ft.

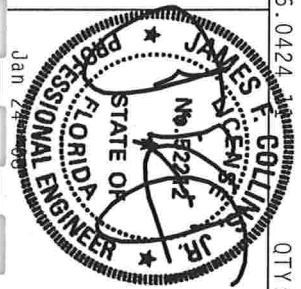
WARNING: THESE BUILDING COMPONENTS ARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND REPAIRING. REFER TO BC61 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TROSS PILE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) FOR SAFETY PRACTICES AND AFRCA (AMERICAN RAILROAD COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PERTAINING TO PREDRILLING OF THE MEMBERS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIDG CEILING.

****IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT**

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844
FL Certificate of Authorization # 00778



Jan 24 2006

TC LL	20.0 PSF	REF	R8228- 45710
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023093
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61201
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228204

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webbs	2x4	SP	#3	
Filter	2x4	SP	#2	Dense

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. 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(+/-)=0.55

See DWGS TCE111EB0207 and BCE111EB0207 for filler details

Wind reactions based on MWFRS pressures.

atorally brace BC at 21" OC in lieu of rigid column lateral bracing.

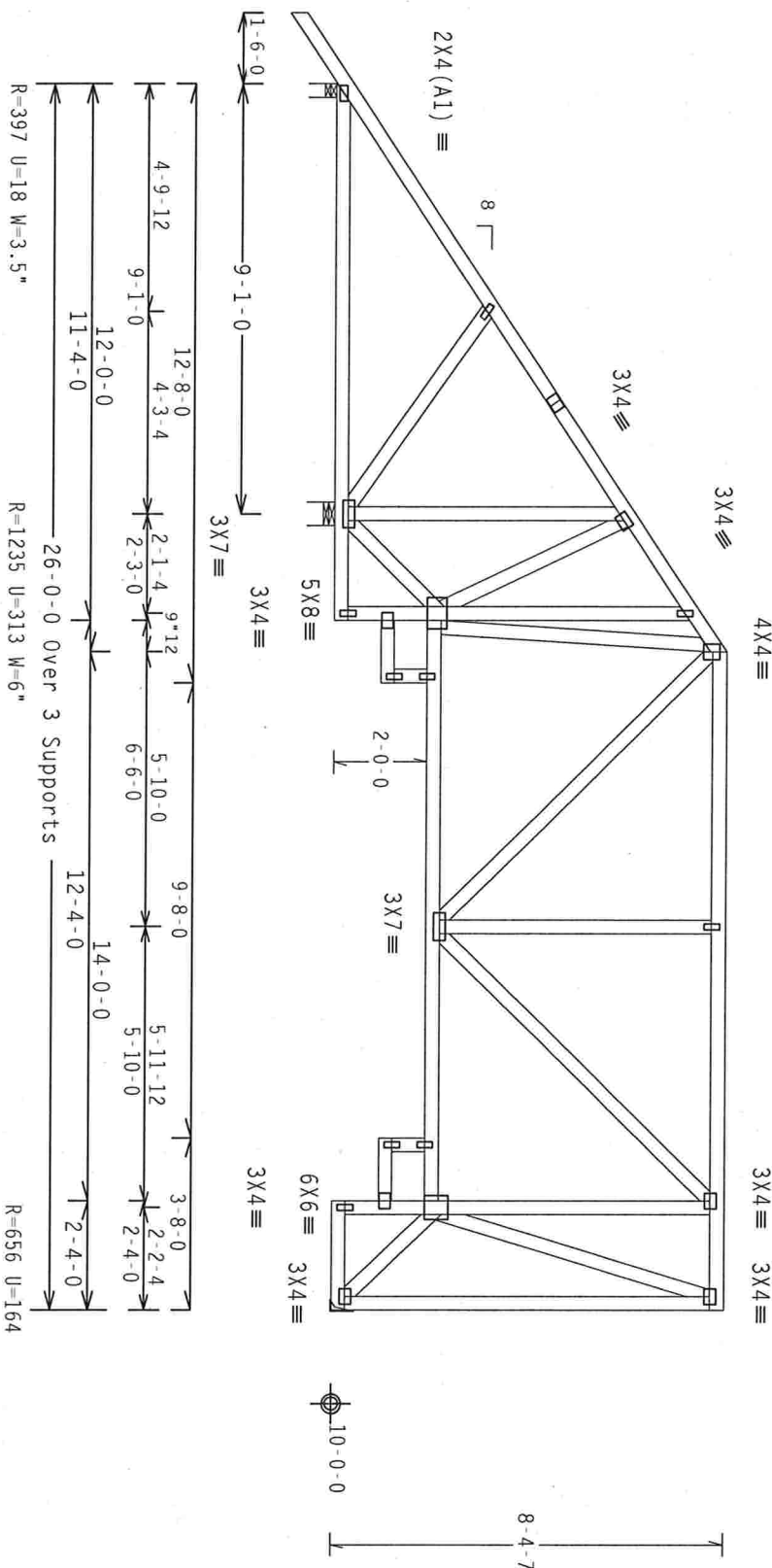
Right end vertical not exposed to wind pressure.

Laterally brace BC at 24" OC in lieu of rigid ceiling. Laterally brace BC above filler at 24" OC.

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.

Laterally brace BC above filler @ 24" O.C.
Including a lateral brace at chord ends.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

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

7.36.0424: 41 cm

QTY:8

FL/-/4/-/E/-/-

Scale = .25" / Ft.

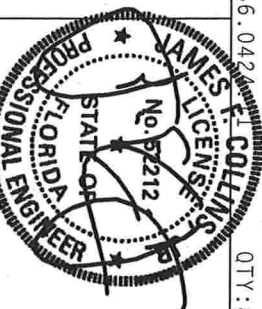
*****WARNING***** FRAMES REQUIRE EXISTING GATE IN FABRICATION, UNLOADING, SHIPPING, INSTALLING AND REACTION
REFER TO G051 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PRACTICE INSTITUTE), 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 65000
ENTERPRISE LANE, MADISON, WI, 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. INTERSESS
OTOMENETHE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT

ALPINE

ITW Building Components Group, Inc.

FL Certificate of Authorization # 0278



Jan 24 08

TC LL	20.0 PSF	REF	R8228- 45711
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023107
BC LL	0.0 PSF	HC-ENG DF/DF	
TOT.LD.	40.0 PSF	SEQN-	61223
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228Z04

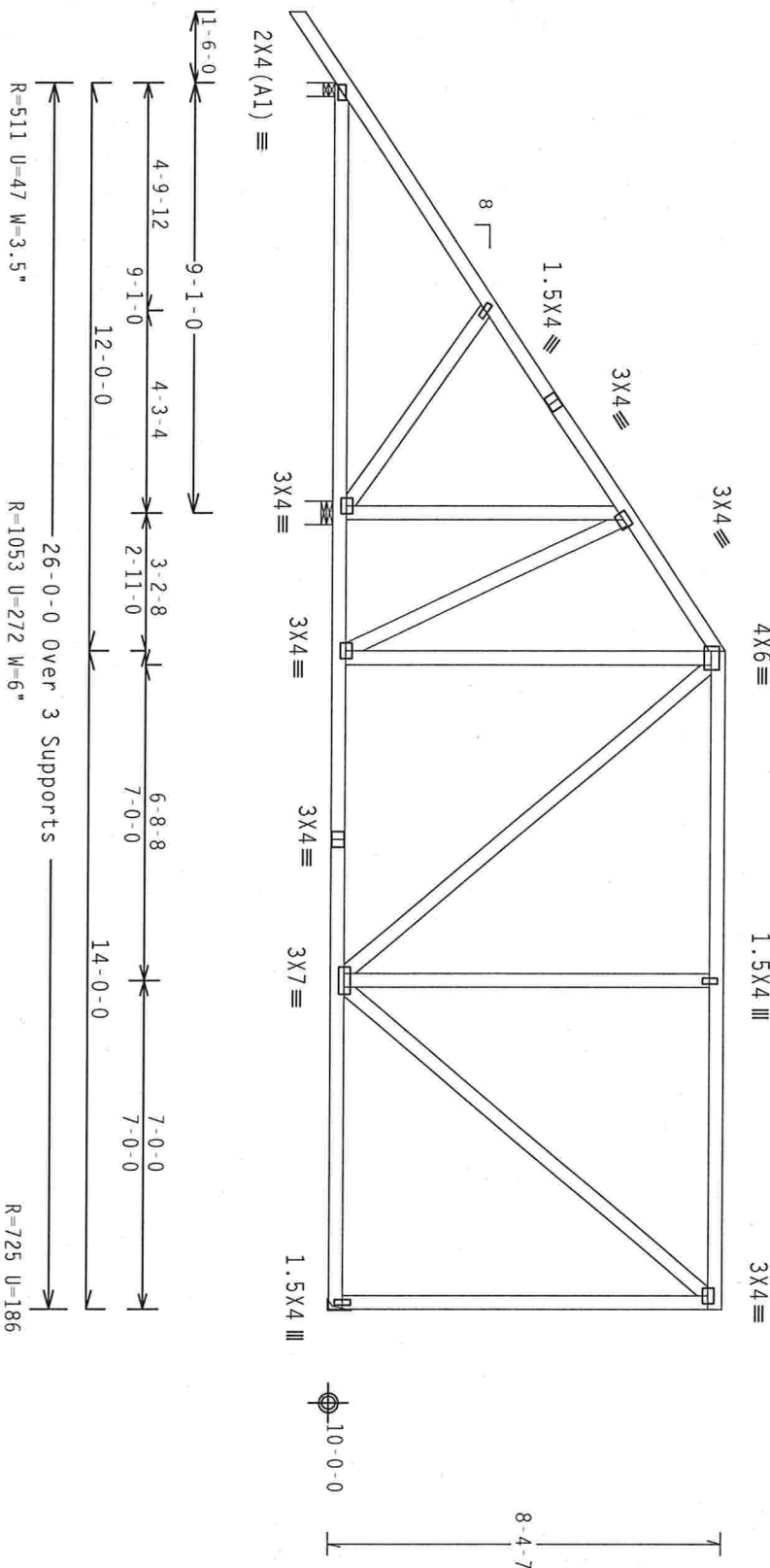
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

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

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.



PLT TYP. Wave

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

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

7.36.0424

QTY:1

FL/-/4/-/E/-/-

Scale = .25"/Ft.

WARNING: FIBERGLASS REINFORCED PLASTIC (FRP) TRUSS PLATE INSTALLING AND BRACING, REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WPCA (WOOD TRUSS COMPANY) OF AMERICA, 6300 ENTERPRISE LANE, MOUNTAIN VIEW, MO 64061 FOR SAFETY PRACTICES AND PRECAUTIONS IN THESE CONDITIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT**

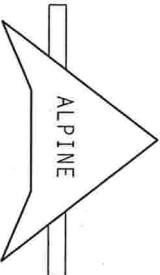
TYPE: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTION DETAILS AND PACE OF 20/10/100A (W. H/33/K) ASIN 6033 GRADE 40/50 (W. K/H.55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 1004.7

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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



Jan 24 08

TC LL	20.0 PSF	REF	R8228- 45712
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023087
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61258
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228204

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, 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 Gcpl(+/-)=0.18

(B) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Wind reactions based on MWFRS pressures.

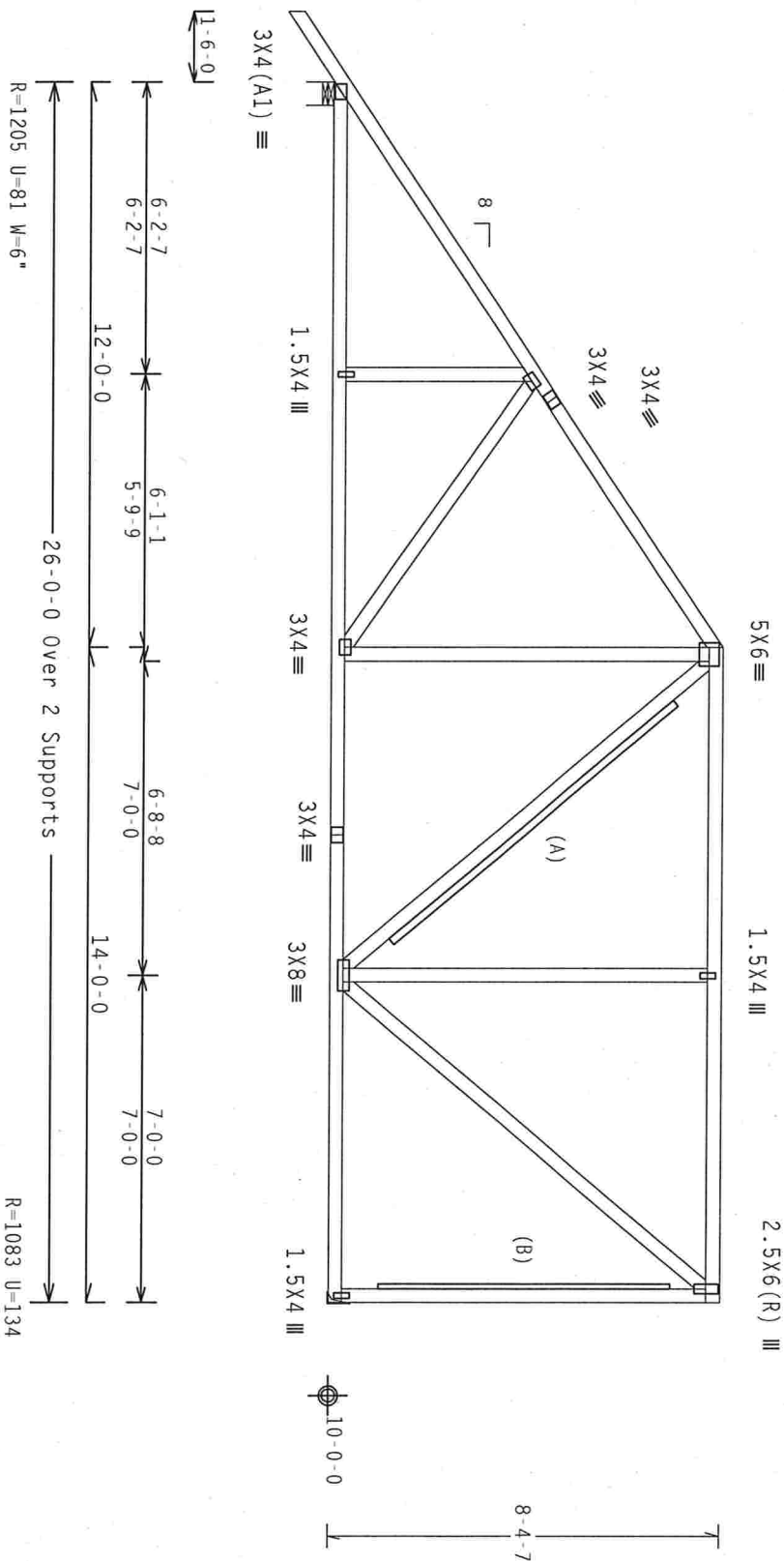
(A) 2x4 #3 or better "T" brace 80% length of web member Attach

Right end vertical not exposed to wind pressure.

(A) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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.



PLT TYP. Wave

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

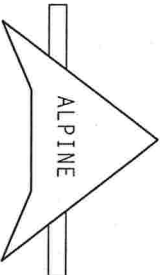
 $Cq/RT=1.00(1.25)/0(0)$

7.36.0424

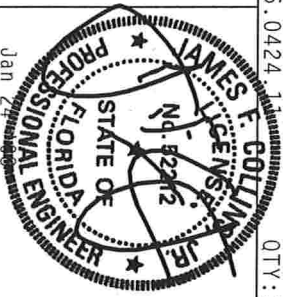
QTY:1

FL/-/4/-/E/-/-

Scale = .25" / Ft.



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



TC LL	20.0 PSF	REF	R8228- 45713
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023066
BC LL	0.0 PSF	HC- ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61271
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228204

	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.

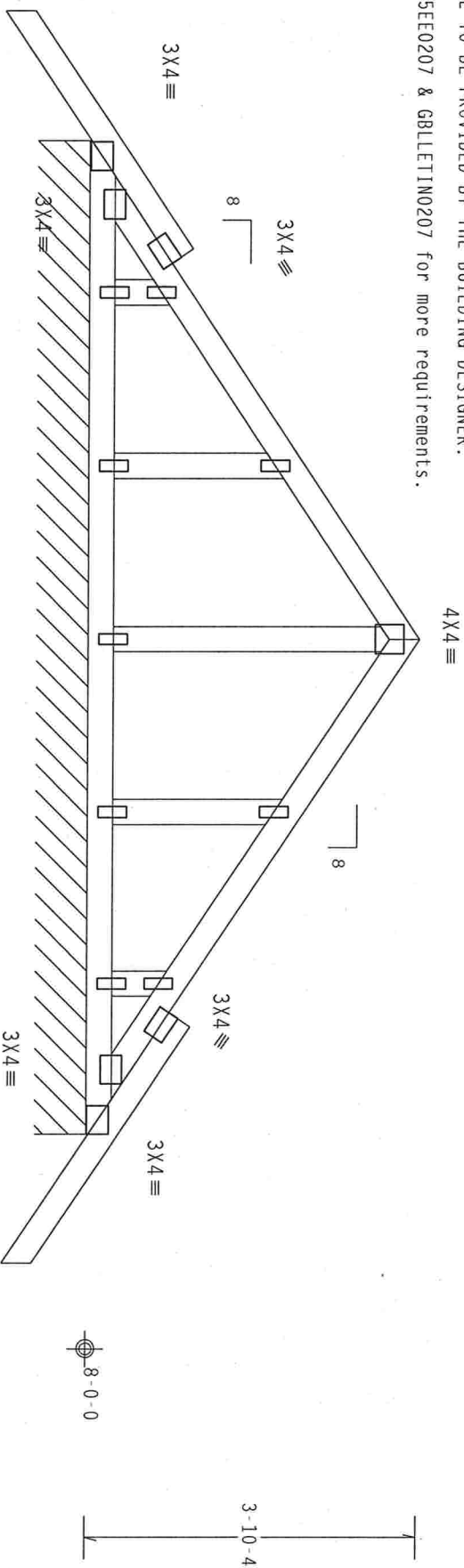
Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF, FLOOR AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS AND SUPPORTING LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.



R=122 PLF U=9 PLF W=11-6-0

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)

PLT TYP. Wave

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

7.36.0424

QTY:1

FL/-14/-1E/-1-

Scale = .5"/Ft.

WARNING: ALL TRIPS (BUILDING COMPONENT CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BC31 (BUILDING COMPONENT CASE INFORMATION), PUBLISHED BY TPI (TRUSS PATTERN INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (GOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MOUNTAIN, NJ, 07159) FOR TRUSS PRACTICES AND FOR PREPARING THESE DOCUMENTS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

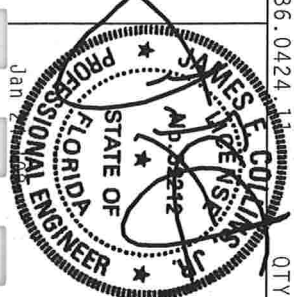
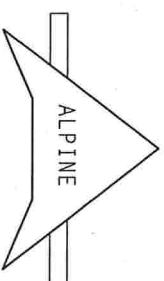
****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AIA/PDA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 304/316SS AND USED WITH 304/316SS BOLTS AND NUTS.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

1978. *Journal of the Royal Society of Medicine*, 71, 1, 1-10.

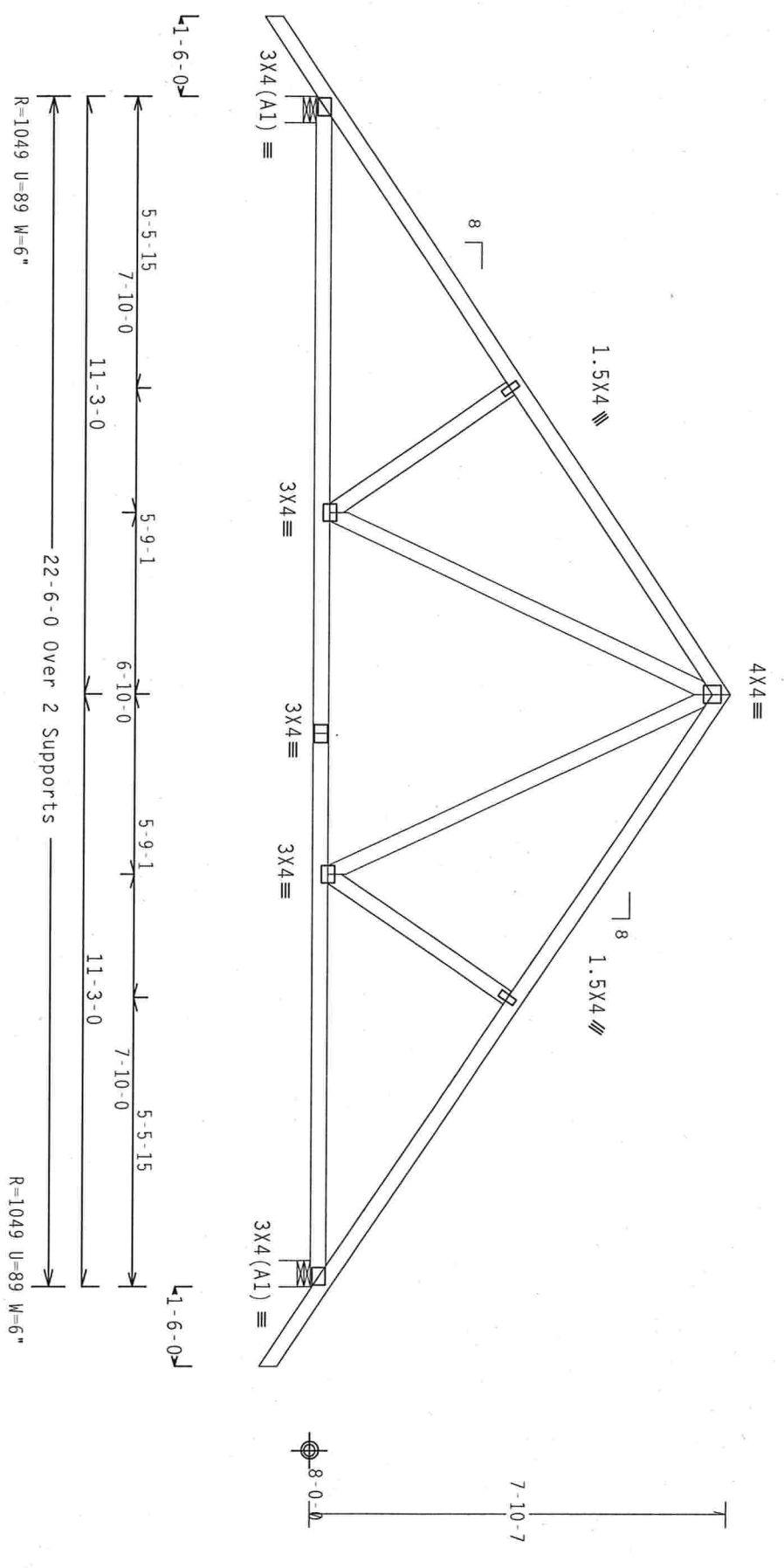
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0799



TC LL	20.0 PSF	REF	R8228- 45714
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCSUR8228 08023116
BC LL	0.0 PSF	HC- ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	60923
DUR.FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	JREF-	1TEE8228Z04

(8-034--Sparks Construction Lot 6 Rolling Meadows -- Lot 6 Rolling Meadows , ** - D1)
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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.
Wind reactions based on MMFRS pressures.



PLT TYP. Wave
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)
7.36.0424 11
QTY: 5 FL/-/4/-/E/-/-
Scale = .3125"/ft.

****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 WICA (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.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE BCS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization #0-778

E. COLLINS, JR. No. 82212 FLORIDA PROFESSIONAL ENGINEER		DATE	DRW	HCUSR8228	08023043
TC LL	20.0 PSF	REF	R8228-	45715	
TC DL	10.0 PSF	DATE	01/23/08		
BC DL	10.0 PSF	DRW	HCUSR8228	08023043	
BC LL	0.0 PSF	HC-ENG	DF/DF		*
TOT. LD.	40.0 PSF	SECON-	60970		
DUR. FAC.	1.25	FROM	AH		
SPACING	24.0"	JREF-	1TEE8228Z04		

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 GCp1(+/-)=0.18

SPECIAL LOADS
----- (NUMBER DIAP EAC = 1 25 / PLATE DIAP EAC = 1 25)

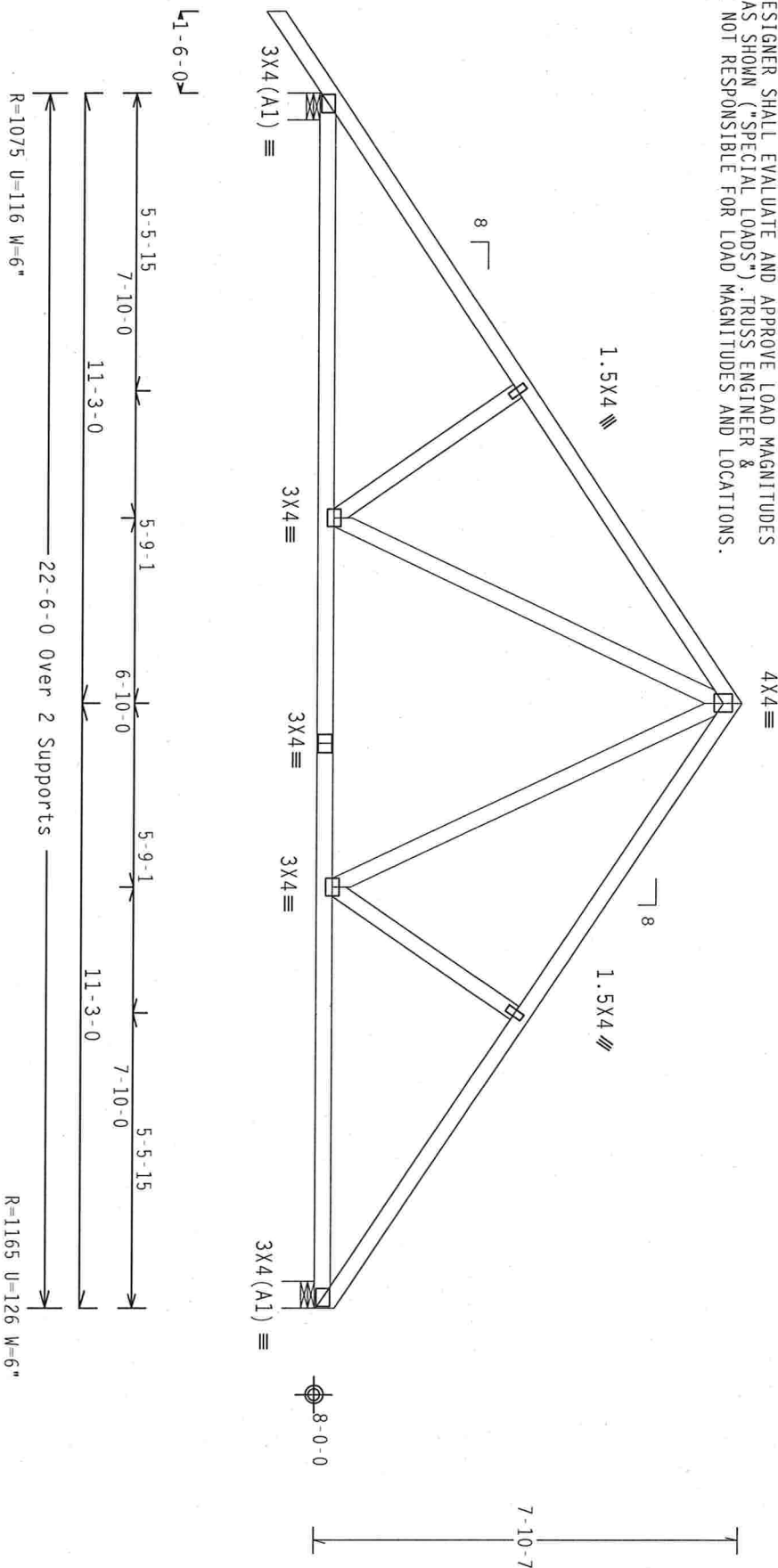
Wind reactions based on MwFRS pressures.

	(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From	64 PLF at -1.50 to 64 PLF at 11.25
TC - From	64 PLF at 11.25 to 64 PLF at 22.50
TC - From	5 PLF at -1.50 to 5 PLF at 0.00

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

BC - From	20 PLF at 0.00 to	20 PLF at 12.00
BC - From	20 PLF at 12.00 to	20 PLF at 22.50
TC -	246 LB Conc. Load at 20.33	

THE BUILDING DESIGNER SHALL EVALUATE AND APPROVE LOAD MAGNITUDES AND LOCATIONS AS SHOWN ("SPECIAL LOADS"). TRUSS ENGINEER & FABRICATOR ARE NOT RESPONSIBLE FOR LOAD MAGNITUDES AND LOCATIONS.



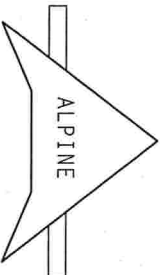
PLT TYP. Wave

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

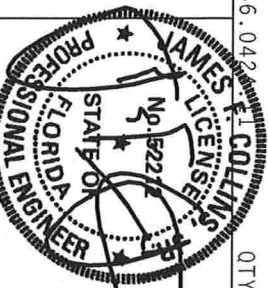
QTY:3 FL/-/4/-/E/-/-

Scale = .3125"/Ft.

WARNING: TREES, ROUTINE EXISTING CREEP IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO DESI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PRACTICE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES, PRIOR TO PERFORMING THE SE FUNCTIONS, UNLESS OTHERWISE INDICATED FOR GOOD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERTY ATTACHED RIGID CELLING.

[illegible]

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



Jan 24 08

TC LL	20.0 PSF	REF	R8228- 45716
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023044
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61564
DUR.FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	JREF-	1TEE8228Z04

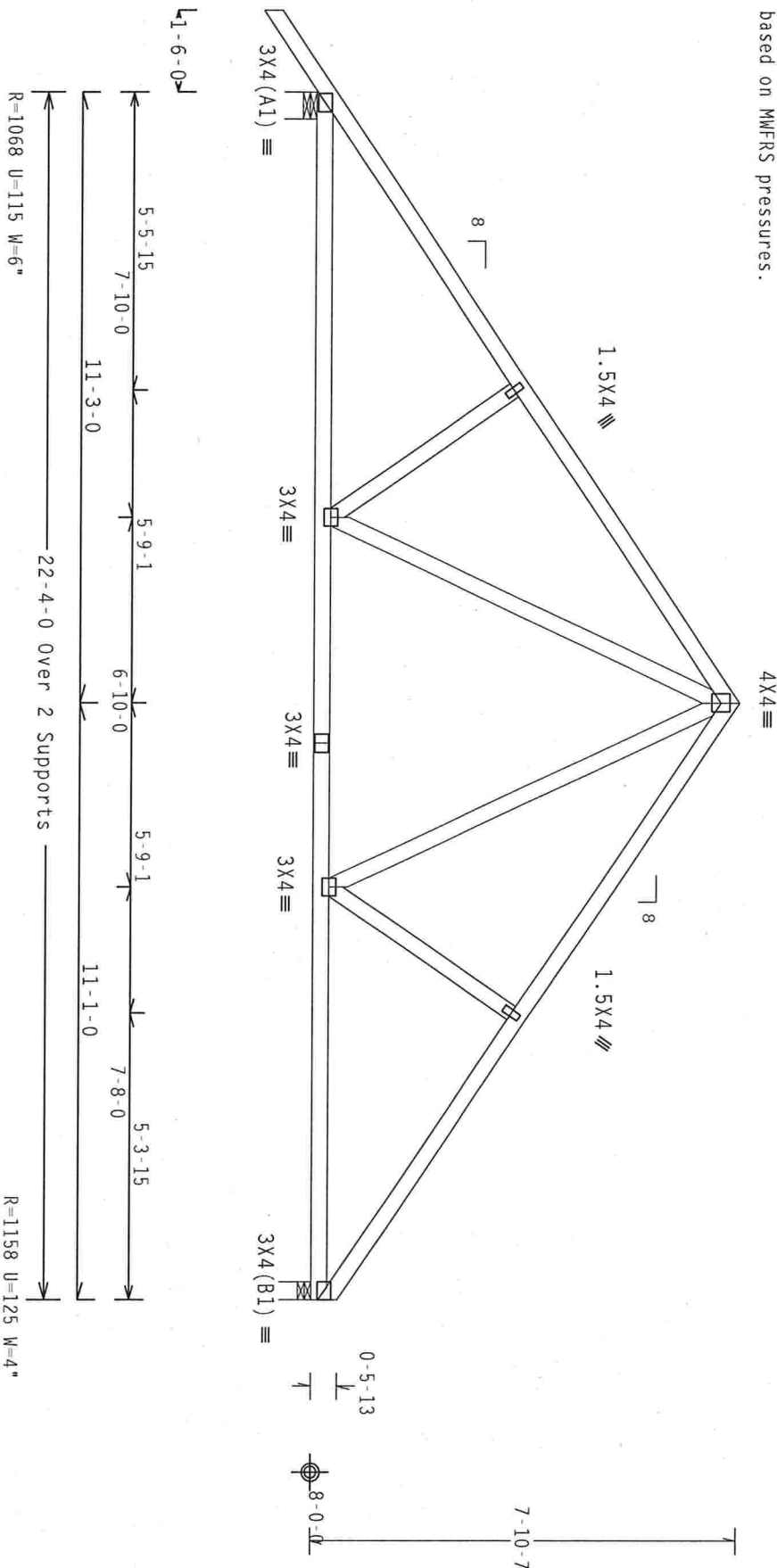
	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
	webs	2x4	SP	#3		

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. $I_w=1.00$ GCPI (+/-)=0.18

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
 ----- Excess Capacity = 150 + 50 = 200

TC	From	at	-1.50 to	64	PLF at	11.25
TC	From	at	1.25 to	64	PLF at	22.33
BC	From	5	PLF at	0.00	5	PLF at
BC	From	20	PLF at	0.00 to	20	PLF at
BC	From	20	PLF at	12.00 to	20	PLF at
TC	246	LB	Conc.	Load at	20.33	

Wind reactions based on MMFRS pressures.



PLT TYP. Wave

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

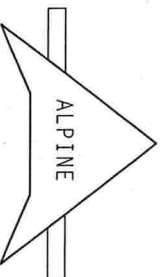
 $Cq/RT=1.00(1.25)/0(0)$

7.36.0424

QTY:2

FL/ - /4/ - /E/ - / -

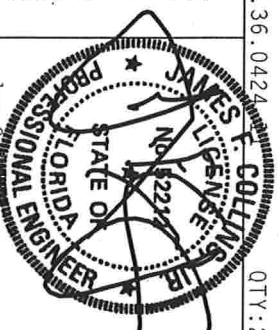
Scale = .3125" / Ft.



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

****WARNING**** PRIORS BUILDING EXTERIOR CARE (IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO DCSE) (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MIDDLETOWN, VA, 53179) 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 GELTING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITR 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 A BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE REQUIREMENTS OR NOS (NATIONAL DESIGN SPEC. BY AIA/A) AND TPI. ITR BCG, INC. CONSTRUCTOR PLATES ARE MADE OF 2018/166GA (O/H/SS/2X) ASTM A563 GRADE 40/90 (K/20/SS) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1606-2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-1:2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROCESS/ANAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 45717
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023045
BC LL	0.0 PSF	HC-ENG DF/DF	
TOT.LD.	40.0 PSF	SEON-	61560
DUR.FAC.	1.25	FROM AH	
SPACING	SEE ABOVE	JREF-	1TEE8228Z04

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.

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

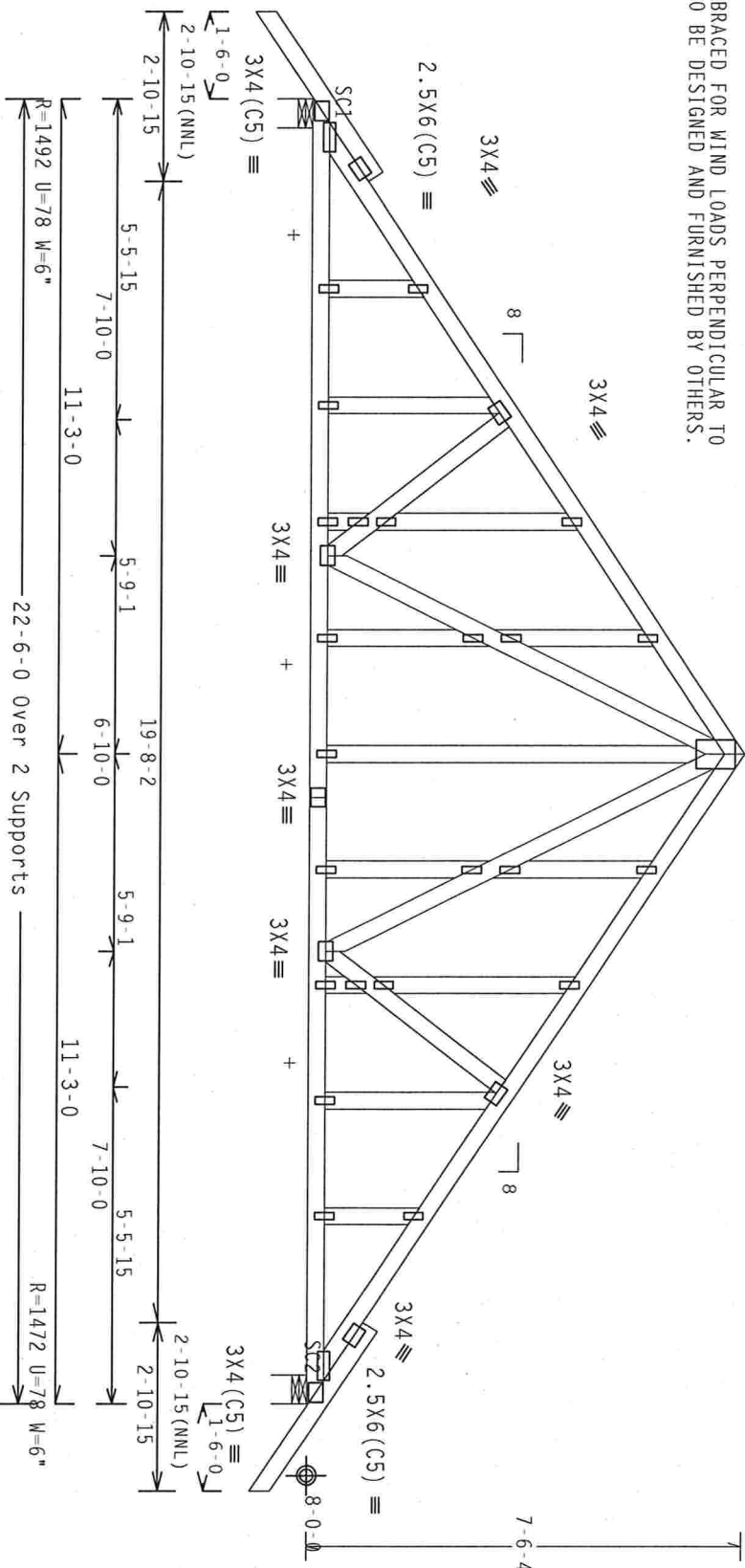
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF
THE ROOF, FLOOR AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS,
AND SUPPORTING SHEAR WALLS. DIAPHRAGMS AND SHEAR WALLS MUST
PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL
CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.

+ MEMBER TO BE Laterally Braced for Wind Loads Perpendicular to
TRUSS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

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. $1w=1.00 GCP1(+/-)=0.18$
Wind reactions based on MWFRS pressures.

See DWGS A11015EE0207 & GBLLETIND0207 for more requirements.

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.



Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

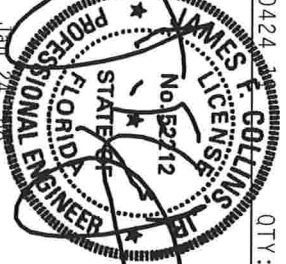
7.36.0424

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

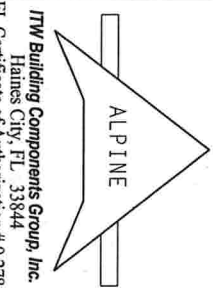
Scale = .3125"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WCA (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.

IMPORTANT TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT
BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH
THIS DESIGN, OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING, SHALL BE THE RESPONSIBILITY OF THE
INSTALLER. THE INSTALLER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE
INSTALLER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE INSTALLER SHALL
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APPROVALS. THE INSTALLER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERX A3 OF TPI-2002 SEC.3. A SEASON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R8228- 45718
TC DL	10.0 PSF	DATE 01/23/08
BC DL	10.0 PSF	DRW HCUR8228 08023117
BC LL	0.0 PSF	HC-ENG DF/DF
TOT.LD.	40.0 PSF	SEON- 61053
DUR.FAC.	1.25	FROM AH
SPACING	SEE ABOVE	UREF- 1TEE8228204



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0778

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. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

Wind reactions based on MWFRS pressures.

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

CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.



Design Crit: TPI-2002(STD)/FBC

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

QTY:1

FL/-/4/-/E/-/-

Scale = .5"/Ft.



TC LL	20.0 PSF	REF R8228 - 45719
TC DL	10.0 PSF	DATE 01/23/08

TW Building Components Group, Inc.

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

Q424

OTY :

JAN 24 08

STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAMES E. COLLINGS
No. 62212

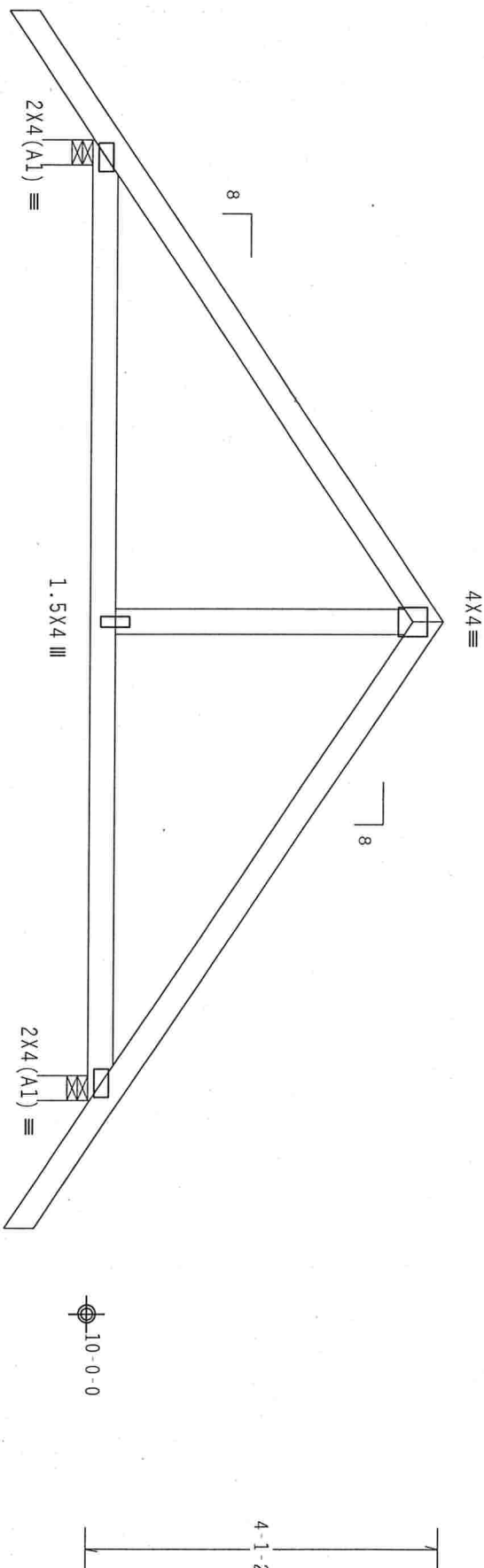
TC LL	20.0 PSF	REF	R8228 - 45719
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023046
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61012
DUR.FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	JREF-	1TEE8228704

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, PART. ENC. 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 (+/-)=0.55

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

Wind reactions based on MWFRS pressures.



1-6-0

1-6-0

Diagram illustrating the reinforcement layout for a square slab. The slab dimensions are 11'-2" over 2 supports. The reinforcement is specified as R=572 U=113 W=3.489" (left) and R=572 U=113 W=3.5" (right). The layout shows a grid of reinforcement bars with dimensions 5-7-0 indicated for the spacing between bars.

PLT TYP. Wave

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

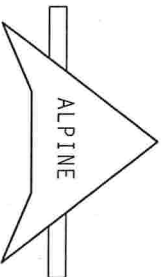
 $C_q/RT=1.00(1.25)/0(0)$

7.36.042/101 QTY:

QTY:

FL/-/4/-/E/-/-

Scale = .5" / Ft.



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

****WARNING***** * * * * THESE BUILDING COMPONENTS ARE INFORMATIONAL. HANDLING, SHIPPING, INSTALLING AND BROCHURE REFERENCE TO ACSI (BUILDING COMPONENT SAFETY IN INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WCA (WOOD TRUSS COMPANY OF AMERICA, 65000 ENTERPRISE LANE, MASON, MO, 65719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED FIELD CELLING.

****IMPORTANT***** * * * * FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. IIV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH THE TYPE OR APPLICATION OF THE TRUSS PLATES WILL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR THE TYPE OF CONNECTIONS WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. FOR STEEL AND TPI (TYPICAL TRUSS PLATE CONNECTIONS) AND/OR AISC (STEEL EDITION) AS WELL AS THE FOLLOWING:

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. FOR STEEL AND TPI (TYPICAL TRUSS PLATE CONNECTIONS) AND/OR AISC (STEEL EDITION) AS WELL AS THE FOLLOWING:

PLATES TO EACH FACE OF TRUSS AND ANCHORS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 1606-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI-1-2002 SEC.3. A SEAL ON THIS DOCUMENT INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Jan 24 08

TC LL	20.0 PSF	REF	R8228- 45720
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023047
BC LL	0.0 PSF	HC-ENG DF/DF	*
TOT.LD.	40.0 PSF	SEQN-	61016
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228Z04

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

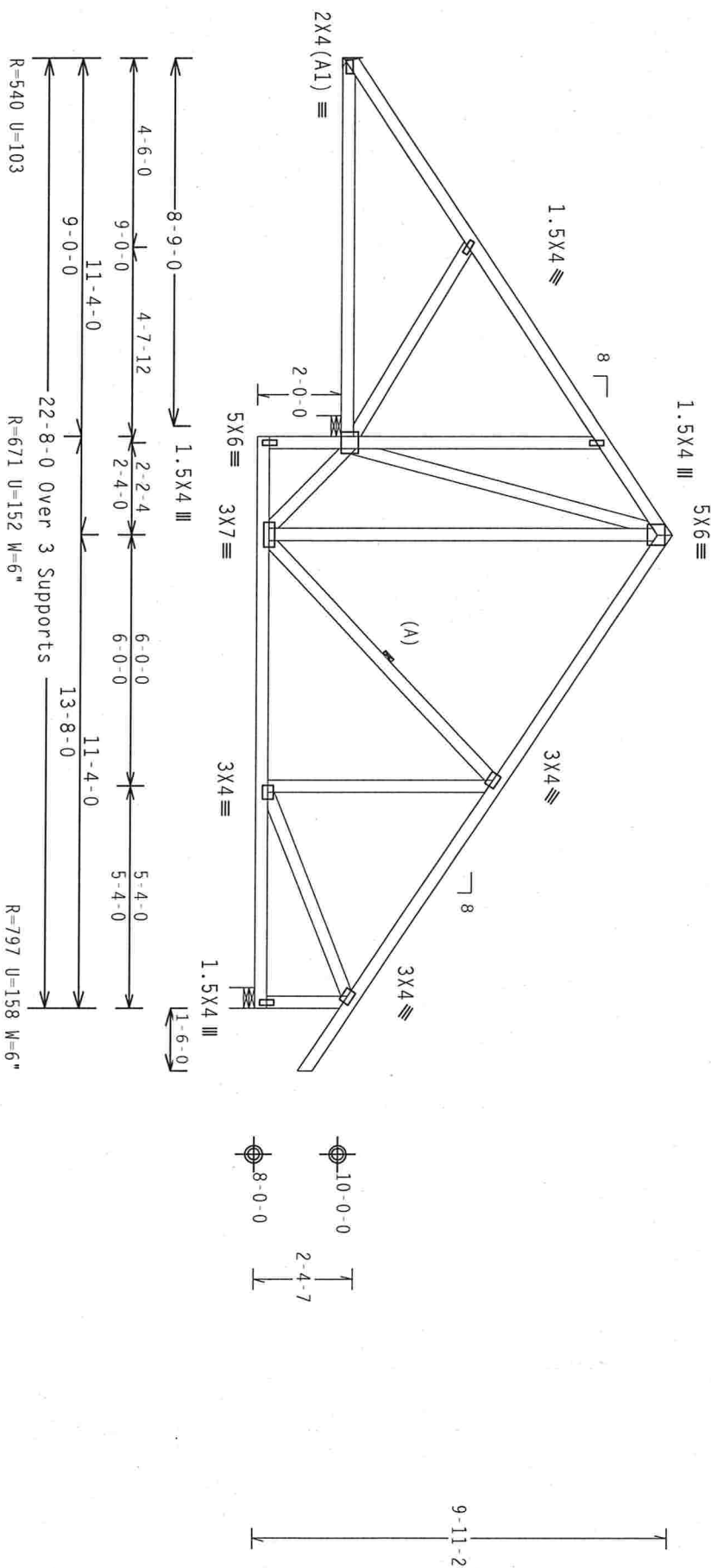
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=9.0 psf. Iw=1.00 Gcpl(+/-)=0.55

(A) Continuous lateral bracing equally spaced on member.

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.

Right end vertical not exposed to wind pressure.



PLT TYP. Wave

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

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

7.36.0424 11

QTY:3

FL/-/4/-/E/-/-

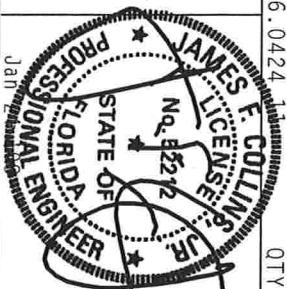
Scale = .25" / Ft.

*****WARNING***** FRAMES (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRESS PASTE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, AL 35119) FOR SAFETY PRACTICES AND PITCH TO PERFORMING THESE ACTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.

FL Certificate of Authorization # 0 278



TC LL	20.0 PSF	REF	R8228- 45722
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023100
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61134
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228204

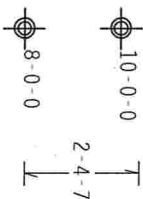
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W1 2x4 SP #2 Dense:
Bearing len 2x4 SP #3.

End verticals not exposed to wind pressure.

Wind reactions based on MWFRS pressures.

Deflection moats 1/240 live and 1/180 total load (buck increase)

(A) continuous lateral bracing equally spaced on member.



9-11-2

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

7.36.0424

QTY:3 FL/-/4/-/E/-/-

Scale = .25" / Ft.

WARNING—TRILLS (BUILDING EXTERIOR CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PROTECTING) (BUILDING COMPONENT SAFETY INFORMATION)—PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48139) FOR SAFETY PRACTICES AND WAYS TO PREVENTING THESE INCIDENTS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

TYPE: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

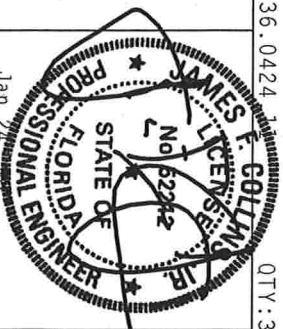
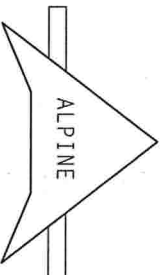
CONCRETE SHALL BE MADE OF 20/10/100A (W, C/H, S/S) AS PER AGGREGATE 40/60 (W, C/H, S/S) GALT. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWING 1604-7

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



TC LL	20.0 PSF	REF	R8228- 45723
TC DL	10.0 PSF	DATE	01/23/08
BC DL	10.0 PSF	DRW	HCUSR8228 08023103
BC LL	0.0 PSF	HC-ENG DF/DF	
TOT.LD.	40.0 PSF	SEON-	61138
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TEE8228Z04

1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068. 2069. 2070. 2071. 2072. 2073. 2074. 2075. 2076. 2077. 2078. 2079. 2080. 2081. 2082. 2083. 2084. 2085. 2086. 2087. 2088. 2089. 2090. 2091. 2092. 2093. 2094. 2095. 2096. 2097. 2098. 2099. 2100. 2101. 2102. 2103. 2104. 2105. 2106. 2107. 2108. 2109. 2110. 2111. 2112. 2113. 2114. 2115. 2116. 2117. 2118. 2119. 2120. 2121. 2122. 2123. 2124. 2125. 2126. 2127. 2128. 2129. 2130. 2131. 2132. 2133. 2134. 2135. 2136. 2137. 2138. 2139. 2140. 2141. 2142. 2143. 2144. 2145. 2146. 2147. 2148. 2149. 2150. 2151. 2152. 2153. 2154. 2155. 2156. 2157. 2158. 2159. 2160. 2161. 2162. 2163. 2164. 2165. 2166. 2167. 2168. 2169. 2170. 2171. 2172. 2173. 2174. 2175. 2176. 2177. 2178. 2179. 2180. 2181. 2182. 2183. 2184. 2185. 2186. 2187. 2188. 2189. 2190. 2191. 2192. 2193. 2194. 2195. 2196. 2197. 2198. 2199. 2200. 2201. 2202. 2203. 2204. 2205. 2206. 2207. 2208. 2209. 2210. 2211. 2212. 2213. 2214. 2215. 2216. 2217. 2218. 2219. 2220. 2221. 2222. 2223. 2224. 2225. 2226. 2227. 2228. 2229. 2230. 2231. 2232. 2233. 2234. 2235. 2236. 2237. 2238. 2239. 2240. 2241. 2242. 2243. 2244. 2245. 2246. 2247. 2248. 2249. 2250. 2251. 2252. 2253. 2254. 2255. 2256. 2257. 2258. 2259. 2260. 2261. 2262. 2263. 2264. 2265. 2266. 2267. 2268. 2269. 2270. 2271. 2272. 2273. 2274. 2275. 2276. 2277. 2278. 2279. 2280. 2281. 2282. 2283. 2284. 2285. 2286. 2287. 2288. 2289. 2290. 2291. 2292. 2293. 2294. 2295. 2296. 2297. 2298. 2299. 2300. 2301. 2302. 2303. 2304. 2305. 2306. 2307. 2308. 2309. 2310. 2311. 2312. 2313. 2314. 2315. 2316. 2317. 2318. 2319. 2320. 2321. 2322. 2323. 2324. 2325. 2326. 2327. 2328. 2329. 2330. 2331. 2332. 2333. 2334. 2335. 2336. 2337. 2338. 2339. 2340. 2341. 2342. 2343. 2344. 2345. 2346. 2347. 2348. 2349. 2350. 2351. 2352. 2353. 2354. 2355. 2356. 2357. 2358. 2359. 2360. 2361. 2362. 2363. 2364. 2365. 2366. 2367. 2368. 2369. 2370. 2371. 2372. 2373. 2374. 2375. 2376. 2377. 2378. 2379. 2380. 2381. 2382. 2383. 2384. 2385. 2386. 2387. 2388. 2389. 2390. 2391. 2392. 2393. 2394. 2395. 2396. 2397. 2398. 2399. 2400. 2401. 2402. 2403. 2404. 2405. 2406. 2407. 2408. 2409. 2410. 2411. 2412. 2413. 2414. 2415. 2416. 2417. 2418. 2419. 2420. 2421. 2422. 2423. 2424. 2425. 2426. 2427. 2428. 2429. 2430. 2431. 2432. 2433. 2434. 2435. 2436. 2437. 2438. 2439. 2440. 2441. 2442. 2443. 2444. 2445. 2446. 2447. 2448. 2449. 2450. 2451. 2452. 2453. 2454. 2455. 2456. 2457. 2458. 2459. 2460. 2461. 2462. 2463. 2464. 2465. 2466. 2467. 2468. 2469. 2470. 2471. 2472. 2473. 2474. 2475. 2476. 2477. 2478. 2479. 2480. 2481. 2482. 2483. 2484. 2485. 2486. 2487. 2488. 2489. 2490. 2491. 2492. 2493. 2494. 2495. 2496. 2497. 2498. 2499. 2500. 2501. 2502. 2503. 2504. 2505. 2506. 2507. 2508. 2509. 2510. 2511. 2512. 2513. 2514. 2515. 2516. 2517. 2518. 2519. 2520. 2521. 2522. 2523. 2524. 2525. 2526. 2527. 2528. 2529. 2530. 2531. 2532. 2533. 2534. 2535. 2536. 2537. 2538. 2539. 2540. 2541. 2542. 2543. 2544. 2545. 2546. 2547. 2548. 2549. 2550. 2551. 2552. 2553. 2554. 2555. 2556. 2557. 2558. 2559. 2560. 2561. 2562. 2563. 2564. 2565. 2566. 2567. 2568. 2569. 2570. 2571. 2572. 2573. 2574. 2575. 2576. 2577. 2578. 2579. 2580. 2581. 2582. 2583. 2584. 2585. 2586. 2587. 2588. 2589. 2590. 2591. 2592. 2593. 2594. 2595. 2596. 2597. 2598. 2599. 2600. 2601. 2602. 2603. 2604. 2605. 2606. 2607. 2608. 2609. 2610. 2611. 2612. 2613. 2614. 2615. 2616. 2617. 2618. 2619. 2620. 2621. 2622. 2623. 2624. 2625. 26

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. 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(+/-)=0.55

Wind reactions based on MMFRS pressures.

+ MEMBER TO BE LATERALLY BRACED FOR WIND LOADS DEPENDENT ON AD TO

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



Scale = .25"/Ft.

James A. Collins
No. 57212
Licence

STATE OF



Jan 24 1908

Jan 24 08

| | | | |
|----------|----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45724 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCSRA8228 08023098 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEON- | 61130 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228Z04 |

110 mph wind, 15.54 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. $I_w=1.00$ $G_{cpl}(+/-)=0.18$

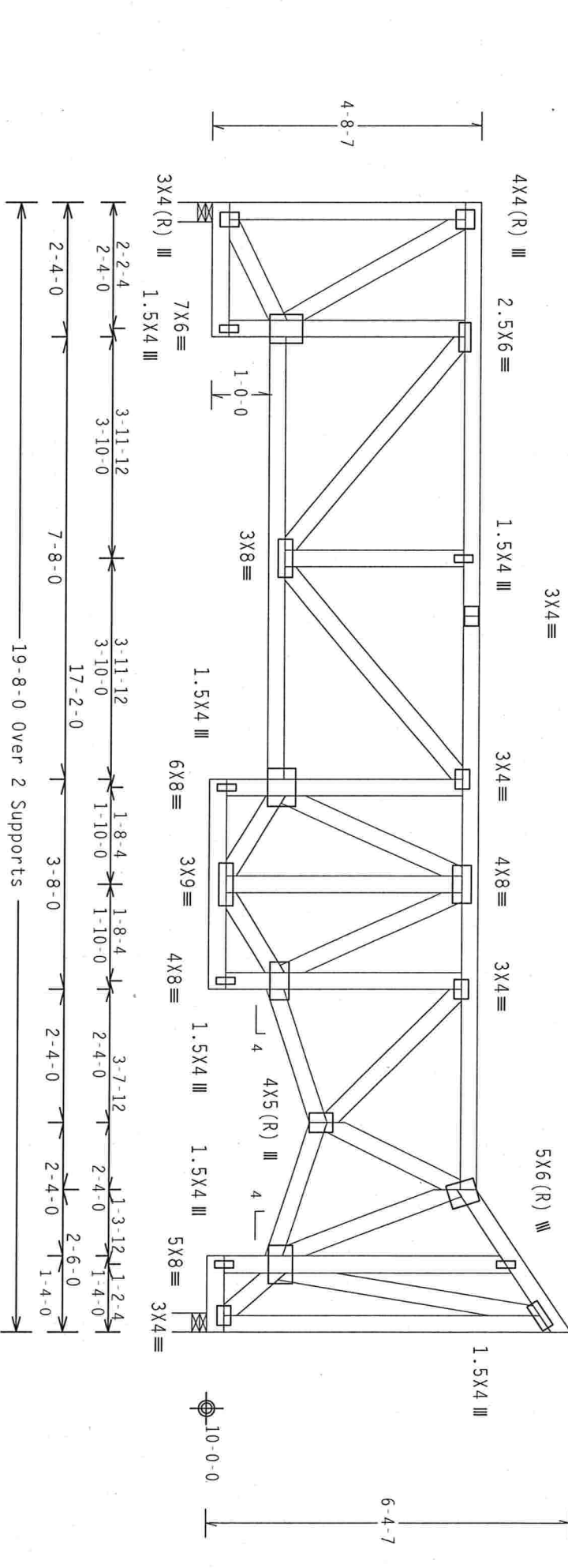
End verticals not exposed to wind pressure.

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

THE BUILDING DESIGNER SHALL EVALUATE AND APPROVE LOAD MAGNITUDES AND LOCATIONS AS SHOWN ("SPECIAL LOADS"). TRUSS ENGINEER & FABRICATOR ARE NOT RESPONSIBLE FOR LOAD MAGNITUDES AND LOCATIONS. PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.

Wind reactions based on MMFRS pressures.

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



PLT TYP. Wave
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)
7.36.0424.11
QTY: 1
FL/-/4/-/E/-/-
Scale = .375"/ft.
R=1326 U=154 W=4"
R=1000 U=116 W=4"

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0778

PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 15222
J. E. COLLINS
J. E. COLLINS
J. E. COLLINS

| TC LL | TC DL | BC DL | BC LL | TOT. LD. | DUR. FAC. | SPACING |
|----------|----------|----------|---------|----------|-----------|-----------|
| 20.0 PSF | 10.0 PSF | 10.0 PSF | 0.0 PSF | 40.0 PSF | 1.25 | SEE ABOVE |

REF R8228- 45725
DATE 01/23/08
DRW HCUSR8228 08023099
HC-ENG DF/DF
SEON- 61540
FROM AH
JREF- 1TEE8228204

F5)

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.

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

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

7.36.0424

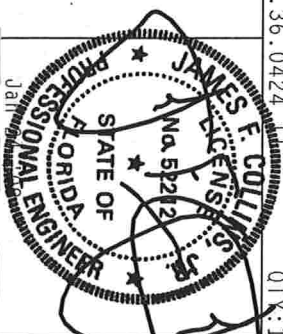
QTY:1 FL/-/4/-/E/-/-

Scale = .1875"/Ft.

*****WARNING*****
 THESE PRACTICES REQUIRE EXTENSIVE CHANGING, HANDLING, SHIPPING, INSTALLING AND PROTECTING REFER TO DCST (BUILDING COMPONENT SAFETY INFORMATION) . PUBLISHED BY IP1 (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LAKE, MADISON, WI 53719) FOR SAFETY PRACTICES PRELIM TO PERFORMING THESE OPERATIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

DESIGN CONDITIONS OR APPLICABLE REQUIREMENTS OF MOST NATIONAL DESIGN SPEC. BY AREA AND TP1. THE BIG CONNECTOR PLATES ARE MADE OF 20/18/1604 (A166/55/16) ASTM A653 GRADE 40/60 (N/A/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TUBS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMX AS OF TP11-2020 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TUBS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/PP1 1 SEC. 2.

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



| CL/-/4/-/E/-/- | | Scale= .1875"/Ft. |
|----------------|----------|------------------------|
| TC LL | 20.0 PSF | REF R8228 - 45727 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCU8R8228 08023102 |
| BC LL | 0.0 PSF | HC - ENG DF/DF |
| TOT. LD. | 40.0 PSF | SEQN- 61510 |
| DUR. FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEE8228204 |

| | Top | chord | 2x4 | SP | #2 | Dense |
|-----|-------|-------|-----|----|-------|-------|
| Bot | chord | 2x4 | SP | #2 | Dense | |
| | webs | 2x4 | SP | #3 | | |

110 mph wind, 17.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCDI (+/-)=0.18

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

| TC | From | 60 PLF at | 0.00 to | 60 PLF at | 19.67 to |
|----|--------------|-----------|----------|-----------|----------|
| BC | From | 20 PLF at | 0.00 to | 20 PLF at | 2.33 to |
| BC | From | 20 PLF at | 2.33 to | 20 PLF at | 10.00 to |
| BC | From | 20 PLF at | 10.00 to | 20 PLF at | 13.67 to |
| BC | From | 21 PLF at | 13.67 to | 21 PLF at | 16.00 to |
| BC | From | 21 PLF at | 16.00 to | 21 PLF at | 18.33 to |
| BC | From | 20 PLF at | 18.33 to | 20 PLF at | 19.67 to |
| TC | 246 LB Conc. | Load at | 1.83, | 5.33, | 8.83 |

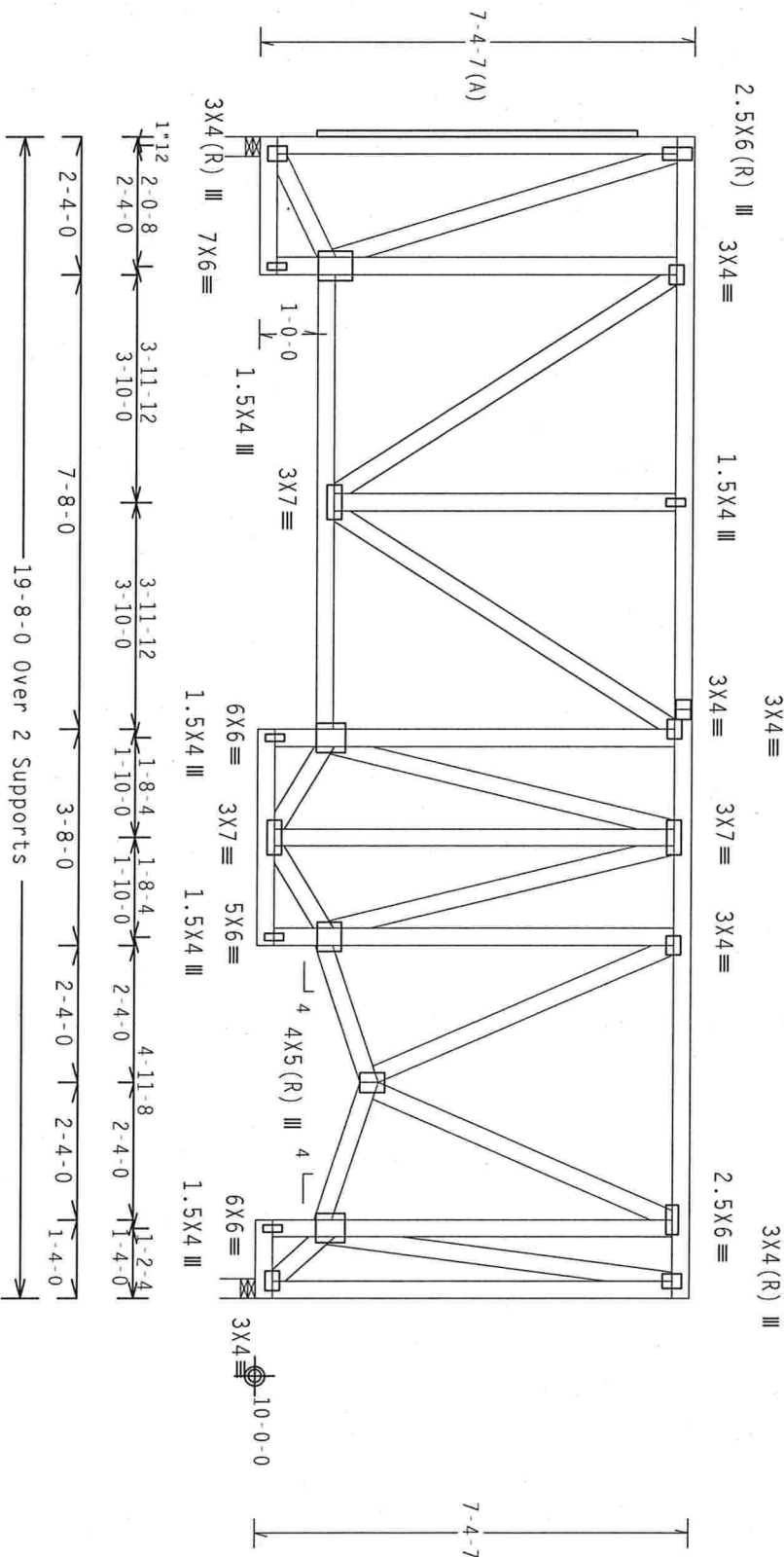
Wind reactions based on MWFRS pressures.

End verticals not exposed to wind pressure.

(A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5".min.) nails @ 6" OC.

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

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



R=1325 U=191 W=4"

R=991 U=143 W=4"

PLT TYP. Wave

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

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

QTY:1

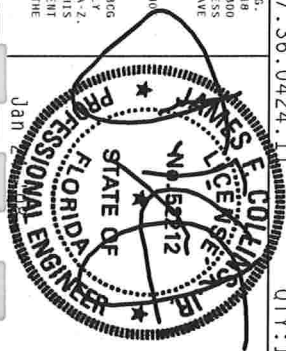
FL/-/4/-/E/-/-

Scale = .3125" / Ft.

ALPINE

ITW Building Components Group, Inc.

FL Certificate of Authorization # 0278



Jam

| | | | |
|----------|-----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228 - 45728 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023109 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN - | 61546 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | SEE ABOVE | JREF - | 1TEE8228204 |

Wind reactions based on MWFRS pressures.

End verticals not exposed to wind pressure.

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

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

SPECIAL LOADS

| ----- (LUMBER DUR. FAC.=1.25 / PLATE DUR. FAC.=1.25) | | | |
|--|----------------------|--------------------|-----------------|
| TC | From | 60 PLF at 0.00 to | 60 PLF at 19.67 |
| BC | From | 20 PLF at 0.00 to | 20 PLF at 2.33 |
| BC | From | 20 PLF at 2.33 to | 20 PLF at 10.00 |
| BC | From | 20 PLF at 10.00 to | 20 PLF at 13.67 |
| BC | From | 21 PLF at 13.67 to | 21 PLF at 16.00 |
| BC | From | 21 PLF at 16.00 to | 21 PLF at 18.33 |
| BC | From | 20 PLF at 18.33 to | 20 PLF at 19.67 |
| TC | 246 LB Conc. Load at | 1.83, | 5.33, 8.83 |

THE BUILDING DESIGNER SHALL EVALUATE AND APPROVE LOAD MAGNITUDES AND LOCATIONS AS SHOWN ("SPECIAL LOADS"). TRUSS ENGINEER & FABRICATOR ARE NOT RESPONSIBLE FOR LOAD MAGNITUDES AND LOCATIONS. PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.



Design Crit: TPI-2002(STP)/ERR
Cq/RT=1.00(2.2)

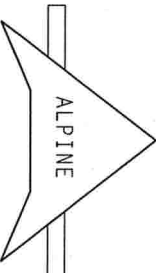
QTY:1 FL/-/4/-/E7

Scale = .3125"/Ft.

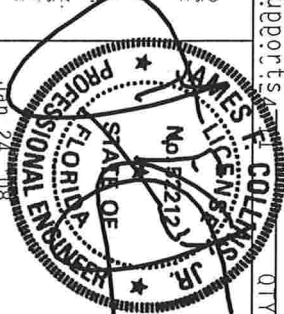
****WARNING**** FRICES, RESIDUE EXTREME CARE IN INFORMATION. HANDLING, SHIPPING, INSTALLING AND BRACING. NEED TO ACES (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (FRUSS PAPER INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (GOOD PAPER COUNCIL OF AMERICA, 6500 ENTERPRISE LAKE, MADISON, WI, 53719) FOR SAFETY PRACTICES, PRIOR TO PERFORMING THESE OPERATIONS. UNLESS OTHERWISE INDICATED, THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING.

****IMPORTANT**** UNDERSTAND A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TROSS IN CONFORMANCE WITH THE T1, OR FABRICATING, HANDLING, SHIPPING, INSTALLING, AND BRACING OF TRUSSES.

CONCRETE PLATES MADE OF 20/18/60 (A-H/SS-F) ASIN A563 GRADE 40/60 (A-W/SS) GALV. STEEL, APPX. 1600-2200 PLATES TO EACH FACE OF THUSID, AND UNLESS OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS 1600-2200. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF PPI-2002 SEC.3.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TOWNS COMPONENTS DESIGN SHOWING. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN DESIGNER PER ANNEX/PIPI 1 SEC. 2.



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



| | | | |
|----------|-----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45729 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023110 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 61530 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | SEE ABOVE | JREF- | 1TEE8228Z04 |

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W4, W10 2x4 SP #2 Dense:

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

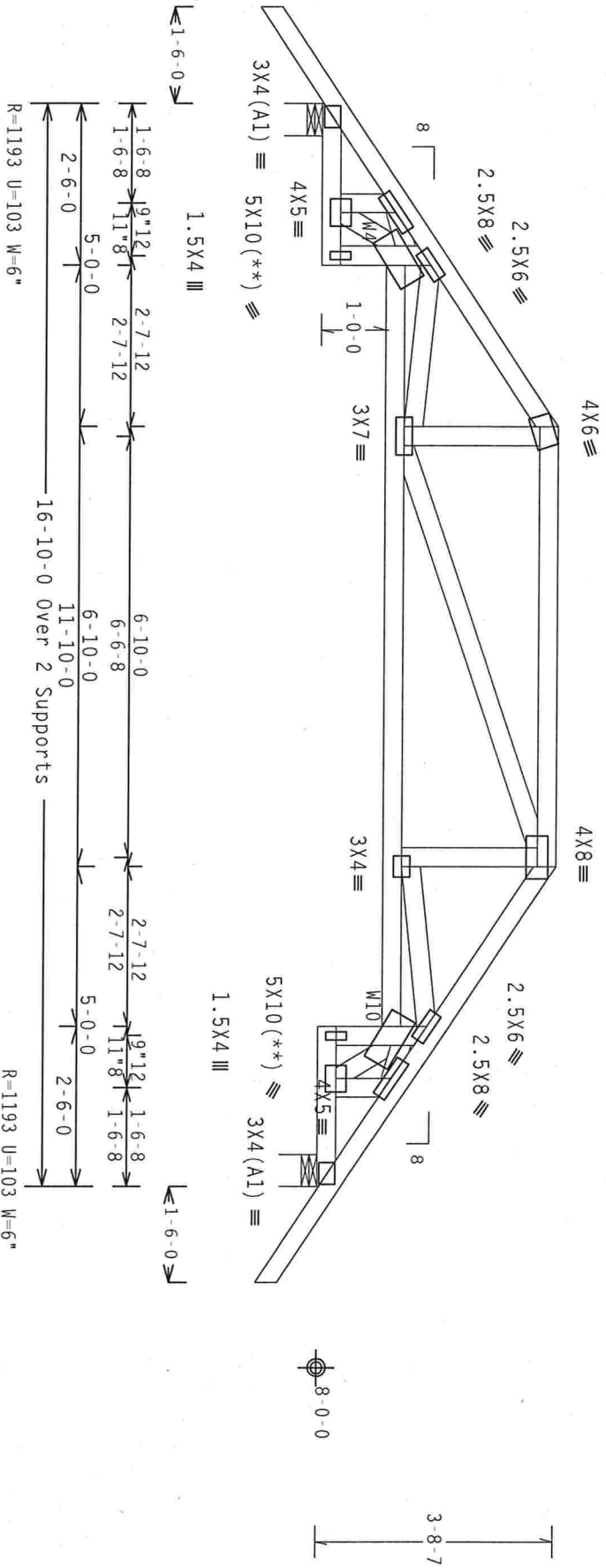
#1 hip supports 5-0-0 jacks with no webs.

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

(**) 2 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, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

Wind reactions based on MWFRS pressures.



PLT TYP. Wave

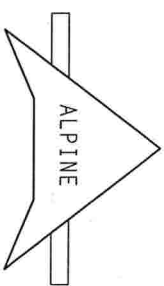
Design Crit: TPI-2002 (STD) /FBC
Cq/RT=1.00(1.25)/0(0)

7.36.0424.11 OTY:1 FL/-/4/-/E/-/-

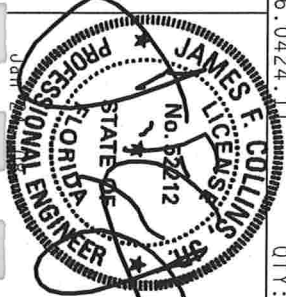
Scale = .375"/ft.

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR GIRDERS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0-778



| FL/-/4/-/E/-/- | | Scale=.3/5"/ft. | |
|----------------|-----------|-----------------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45730 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023048 |
| BC LL | 0.0 PSF | HC-ENG DF/DF | |
| TOT.LD. | 40.0 PSF | SEQN- | 61275 |
| DUR.FAC. | 1.25 | | |
| SPACING | SEE ABOVE | JREF- | 1TEE8228Z04 |

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2 :B2 2x8 SP SS:
Webs 2x4 SP #3 :W3, W11 2x4 SP #2 Dense:

SPECIAL LOADS

| | |
|--------------|---|
| TC - From | DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25) |
| TC - From | 64 PLF at -1.50 to 64 PLF at 5.75 |
| TC - From | 64 PLF at 5.75 to 64 PLF at 11.08 |
| TC - From | 64 PLF at 11.08 to 64 PLF at 18.33 |
| BC - From | 5 PLF at -1.50 to 5 PLF at 0.00 |
| BC - From | 20 PLF at 0.00 to 20 PLF at 2.50 |
| BC - From | 20 PLF at 2.50 to 20 PLF at 14.33 |
| BC - From | 20 PLF at 14.33 to 20 PLF at 16.83 |
| BC - From | 5 PLF at 16.83 to 5 PLF at 18.33 |
| PLB- 3918 LB | Conc. Load at (7.13,9.04) |
| PLB- 1401 LB | Conc. Load at (9.06,9.04), (11.06,9.04), (13.06,9.04) |
| | (15.06,8.04) |

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

Laterally brace BC above filler @ 24" O.C.
Including a lateral brace at chord ends.

4 COMPLETE TRUSSES REQUIRED

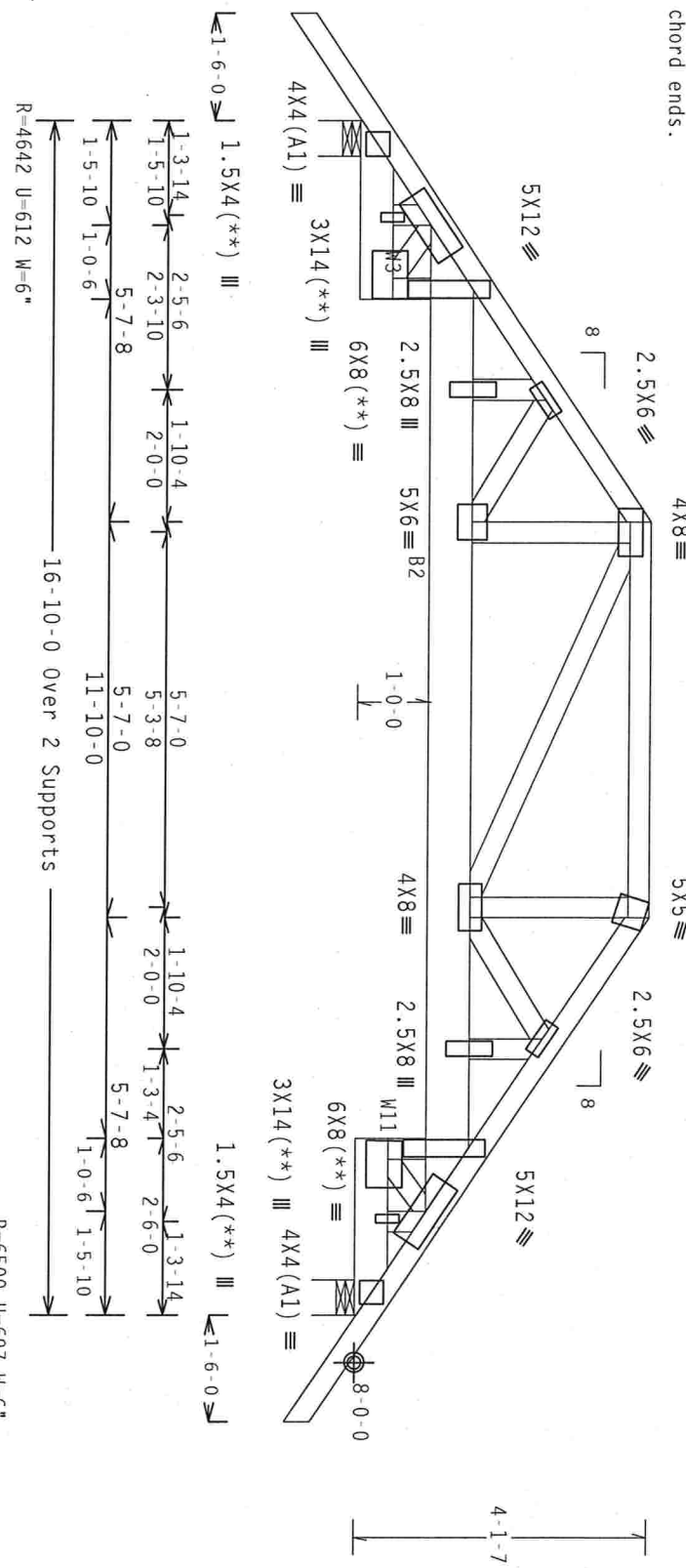
Nailing Schedule: (12d Common (0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" O.C.
Bot Chord: 1 Row @3.25" O.C.
Webs : 1 Row @ 4" O.C.

Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting. In addition apply (1) 1/2" bolt at each bottom chord joint location. (**) 6 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 MMFRS pressures.

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



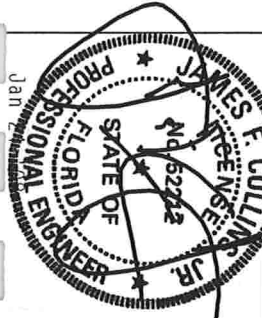
PLT TYP. Wave
Design Crit: TP1-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

QTY: 1
FL/-/4/-/E/-/-
Scale = .375"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 216 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WICA CHORD 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.

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 THE TRUSS PLATE INSTITUTE, 216 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WICA CHORD 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.

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0-778



| TC LL | 20.0 PSF | REF | R8228- 45731 |
|----------|----------|--------------|--------------------|
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023049 |
| BC LL | 0.0 PSF | HC-ENG DF/DF | |
| TOT. LD. | 40.0 PSF | SEON- | 61602 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228Z04 |

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

| | | |
|----|---------------|--|
| TC | - | (NUMBER DUE.FAC.=1.25 / PLATE DUR.FAC.=1.25) |
| TC | From | 62 PLF at 0.00 to 62 PLF at 3.16 |
| TC | From | 62 PLF at 3.16 to 62 PLF at 9.26 |
| TC | From | 62 PLF at 9.26 to 62 PLF at 12.42 |
| BC | From | 20 PLF at 0.00 to 20 PLF at 12.42 |
| TC | -73 LB Conc. | Load at 1.54, 10.88 |
| TC | -21 LB Conc. | Load at 2.22, 10.20 |
| TC | -2 LB Conc. | Load at 3.16, 9.26 |
| TC | -14 LB Conc. | Load at 4.97, 6.21, 7.45 |
| BC | -132 LB Conc. | Load at 0.96, 11.62 |
| BC | -21 LB Conc. | Load at 1.54, 10.88 |
| BC | -9 LB Conc. | Load at 2.22, 10.20 |
| BC | -215 LB Conc. | Load at 2.94, 7.65, 9.65 |
| BC | -5 LB Conc. | Load at 3.16, 9.26 |
| BC | -220 LB Conc. | Load at 4.94, 6.29 |
| BC | -5 LB Conc. | Load at 7.45 |



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

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

7.36.0424 1.

QTY:1

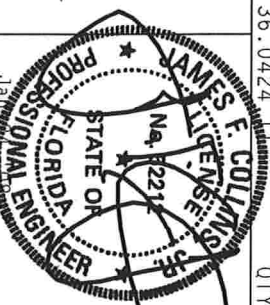
FL/-/4/-/E/-/-/

Scale = .5"/Ft.

* * *WARNING* * * TRUCKS, RELOADERS, EXTENSIVE CAGE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DCST (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS ANALYSIS INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND AFCA (AMERICAN FABRICATORS' COUNCIL OF AMERICA, 65000 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 PROPERLY ATTACHED RIGID CELLING.

****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 T01, OR FABRICATING, WELDING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONDITIONS FOR APPLICABLE PROVISIONS FOR RUS APPLICABLE DESIGN SPEC. (A, B, M, SS) AND TPL. THE REQUIRED RUS DESIGN SPEC. 2010/16/05/25/35/45/55/65/75/85/95/105/115/125/135/145/155/165/175/185/195/205/215/225/235/245/255/265/275/285/295/305/315/325/335/345/355/365/375/385/395/405/415/425/435/445/455/465/475/485/495/505/515/525/535/545/555/565/575/585/595/605/615/625/635/645/655/665/675/685/695/705/715/725/735/745/755/765/775/785/795/805/815/825/835/845/855/865/875/885/895/905/915/925/935/945/955/965/975/985/995/1005/1015/1025/1035/1045/1055/1065/1075/1085/1095/1105/1115/1125/1135/1145/1155/1165/1175/1185/1195/1205/1215/1225/1235/1245/1255/1265/1275/1285/1295/1305/1315/1325/1335/1345/1355/1365/1375/1385/1395/1405/1415/1425/1435/1445/1455/1465/1475/1485/1495/1505/1515/1525/1535/1545/1555/1565/1575/1585/1595/1605/1615/1625/1635/1645/1655/1665/1675/1685/1695/1705/1715/1725/1735/1745/1755/1765/1775/1785/1795/1805/1815/1825/1835/1845/1855/1865/1875/1885/1895/1905/1915/1925/1935/1945/1955/1965/1975/1985/1995/2005/2015/2025/2035/2045/2055/2065/2075/2085/2095/2105/2115/2125/2135/2145/2155/2165/2175/2185/2195/2205/2215/2225/2235/2245/2255/2265/2275/2285/2295/2305/2315/2325/2335/2345/2355/2365/2375/2385/2395/2405/2415/2425/2435/2445/2455/2465/2475/2485/2495/2505/2515/2525/2535/2545/2555/2565/2575/2585/2595/2605/2615/2625/2635/2645/2655/2665/2675/2685/2695/2705/2715/2725/2735/2745/2755/2765/2775/2785/2795/2805/2815/2825/2835/2845/2855/2865/2875/2885/2895/2905/2915/2925/2935/2945/2955/2965/2975/2985/2995/3005/3015/3025/3035/3045/3055/3065/3075/3085/3095/3105/3115/3125/3135/3145/3155/3165/3175/3185/3195/3205/3215/3225/3235/3245/3255/3265/3275/3285/3295/3305/3315/3325/3335/3345/3355/3365/3375/3385/3395/3405/3415/3425/3435/3445/3455/3465/3475/3485/3495/3505/3515/3525/3535/3545/3555/3565/3575/3585/3595/3605/3615/3625/3635/3645/3655/3665/3675/3685/3695/3705/3715/3725/3735/3745/3755/3765/3775/3785/3795/3805/3815/3825/3835/3845/3855/3865/3875/3885/3895/3905/3915/3925/3935/3945/3955/3965/3975/3985/3995/4005/4015/4025/4035/4045/4055/4065/4075/4085/4095/4105/4115/4125/4135/4145/4155/4165/4175/4185/4195/4205/4215/4225/4235/4245/4255/4265/4275/4285/4295/4305/4315/4325/4335/4345/4355/4365/4375/4385/4395/4405/4415/4425/4435/4445/4455/4465/4475/4485/4495/4505/4515/4525/4535/4545/4555/4565/4575/4585/4595/4605/4615/4625/4635/4645/4655/4665/4675/4685/4695/4705/4715/4725/4735/4745/4755/4765/4775/4785/4795/4805/4815/4825/4835/4845/4855/4865/4875/4885/4895/4905/4915/4925/4935/4945/4955/4965/4975/4985/4995/5005/5015/5025/5035/5045/5055/5065/5075/5085/5095/5105/5115/5125/5135/5145/5155/5165/5175/5185/5195/5205/5215/5225/5235/5245/5255/5265/5275/5285/5295/5305/5315/5325/5335/5345/5355/5365/5375/5385/5395/5405/5415/5425/5435/5445/5455/5465/5475/5485/5495/5505/5515/5525/5535/5545/5555/5565/5575/5585/5595/5605/5615/5625/5635/5645/5655/5665/5675/5685/5695/5705/5715/5725/5735/5745/5755/5765/5775/5785/5795/5805/5815/5825/5835/5845/5855/5865/5875/5885/5895/5905/5915/5925/5935/5945/5955/5965/5975/5985/5995/6005/6015/6025/6035/6045/6055/6065/6075/6085/6095/6105/6115/6125/6135/6145/6155/6165/6175/6185/6195/6205/6215/6225/6235/6245/6255/6265/6275/6285/6295/6305/6315/6325/6335/6345/6355/6365/6375/6385/6395/6405/6415/6425/6435/6445/6455/6465/6475/6485/6495/6505/6515/6525/6535/6545/6555/6565/6575/6585/6595/6605/6615/6625/6635/6645/6655/6665/6675/6685/6695/6705/6715/6725/6735/6745/6755/6765/6775/6785/6795/6805/6815/6825/6835/6845/6855/6865/6875/6885/6895/6905/6915/6925/6935/6945/6955/6965/6975/6985/6995/7005/7015/7025/7035/7045/7055/7065/7075/7085/7095/7105/7115/7125/7135/7145/7155/7165/7175/7185/7195/7205/7215/7225/7235/7245/7255/7265/7275/7285/7295/7305/7315/7325/7335/7345/7355/7365/7375/7385/7395/7405/7415/7425/7435/7445/7455/7465/7475/7485/7495/7505/7515/7525/7535/7545/7555/7565/7575/7585/7595/7605/7615/7625/7635/7645/7655/7665/7675/7685/7695/7705/7715/7725/7735/7745/7755/7765/7775/7785/7795/7805/7815/7825/7835/7845/7855/7865/7875/7885/7895/7905/7915/7925/7935/7945/7955/7965/7975/7985/7995/8005/8015/8025/8035/8045/8055/8065/8075/8085/8095/8105/8115/8125/8135/8145/8155/8165/8175/8185/8195/8205/8215/8225/8235/8245/8255/8265/8275/8285/8295/8305/8315

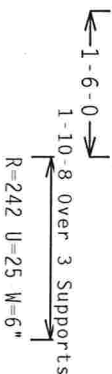


| | | | |
|----------|----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45732 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUS88228 08023042 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 61077 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228204 |

THE FOLLOWING INFORMATION IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.

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, lw=1.00 gcpi (+/-)=0.18

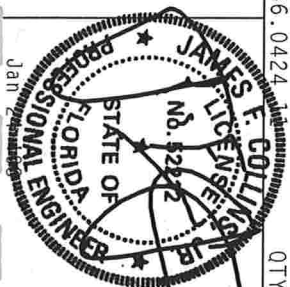
Wind reactions based on MWFRS pressures.



Scale = .5" / Ft.

****IMPORTANT****URNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITN BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH ITN1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING, BRACING OF TRUSSES.

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS FOR MOD-
CONCRETE PLATES ARE MADE OF 201/81/166A (N/H/55/2) ASTM A653 GRADE 40/60 (N/H/55) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TUBS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, SECTION PER DRAWINGS 166A-2.2.
AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2020 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TUBS COMPONENTS OF THE
DESIGN SHOW. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



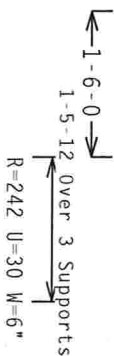
| 3 FL/-4/-E/-/- | | Scale = .5"/ft. |
|----------------|----------|------------------------|
| TC LL | 20.0 PSF | REF R8228- 45733 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08023084 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- 60829 |
| DUR.FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TE88228204 |

המחברת מודה לרבות מהמשתתפים במחקר על שיתוף הפעולה והתמיכה.

Bearing reactions of -2# at (1-5-12, 8-0-0), -10# at (1-5-12, 9-0-13), require special connection to resist uplift from loads other than wind.

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.


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

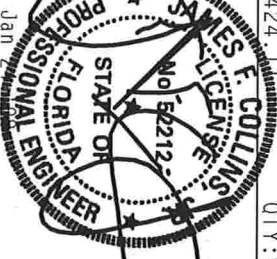
7.36.0424.11

QTY:2 FL/-/4/-/E/-/-/

Scale = .5" / Ft.

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 THIS OR EXISTING DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

DESIGN OR FABRICATOR, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, JOISTS OR COMBRIQUES WITH APPLICABLE PROVISIONS OF MOST NATIONAL DESIGN SPEC., PER AISC, AND TPI-1. THE BCG HAS
CONNECTION PLATES ARE MADE OF 2018/160A (U-H/HSS) WITH A563 GRADE 40/60 (K/P-V/S) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1606-2. A SEAL ON THIS
AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-1-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENTS OF THE
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER AISC/TPI-1 SEC. 2.



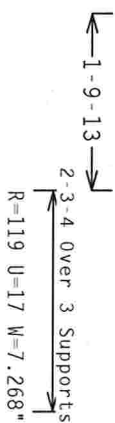
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| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023075 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 60834 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228Z04 |

THE UNIVERSITY OF CHICAGO

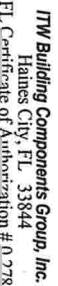
Bearing reactions of -5# at (2-3-4, 8-0-0); -2# at (2-3-4, 9-3-11) require special connection to resist uplift from loads other than wind.

Wind reactions based on MWFRS pressures.

Hipjack supports 1-7-4 setback jacks with no webs.



Scale = .5"/Ft.



6. 0424
QTY 1

JAMES F. COLLINS
FLORIDA
STATE
PROFESSIONAL ENGINEER
No. 52212

Jan 24, 2008

| | | | |
|----------|-----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45735 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023064 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 60847 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | SEE ABOVE | JREF- | 1TEE8228204 |

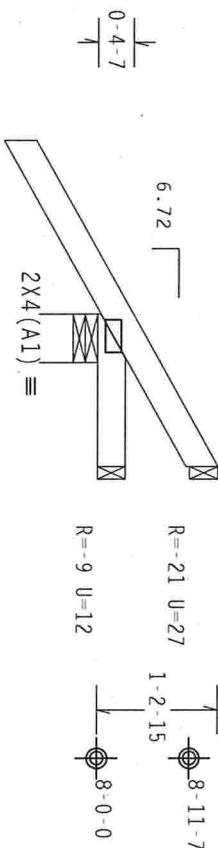
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

Bearing reactions of -8# at (1-6-13, 8-0-0), -20# at (1-6-13,
8-11-7), require special connection to resist uplift from loads
other than wind.

Wind reactions based on MMFRS pressures.

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



PLT TYP. Wave

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

7.36.0424

QTY:2

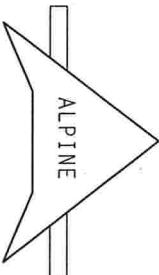
FL/-/4/-/E/-/-

Scale =.5"/Ft.

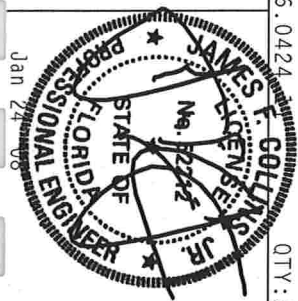
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WTC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE 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.

****IMPORTANT**** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI BCS, 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.

CONTRACTOR WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. BY AIA/AA) AND TPI. TPI BCS SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY 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.



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0778



| | | |
|----------|----------|------------------------|
| TC LL | 20.0 PSF | REF R8228- 45736 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08023106 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEON- 60839 |
| DUR.FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEE8228204 |

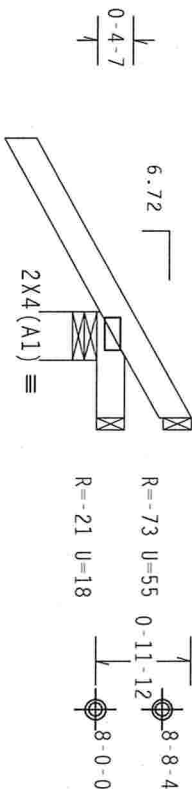
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

Bearing reactions of -21# at (1-1-1, 8-0-0), -73# at (1-1-1, 8-8-4),
require special connection to resist uplift from loads other than
wind.

Wind reactions based on MMFRS pressures.

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



←1-9-6→
1-1-1 Over 3 Supports
R=305 U=57 W=6"

PLT TYP. Wave

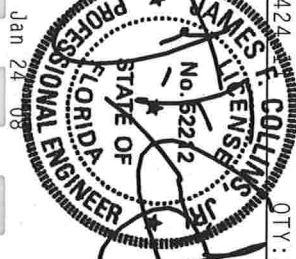
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
REFER TO BCSE CONSULTING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (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.

****IMPORTANT**** TURNISH 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.
CONNECTIONS WITH APPLICABLE PROVISIONS OF AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 500 N. MERRILL
STREET, PITTSBURGH, PA 15222) OR AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 500 N. MERRILL
STREET, PITTSBURGH, PA 15222) SHALL BE USED. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS SHALL BE IN INCHES.
ANY INSPECTION OF PLATES FOLLOWED BY (C) SHALL BE PERFORMED AS OF TPI-2002 SEC. 3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0778



QTY: 2 FL/-/4/-/E/-/-

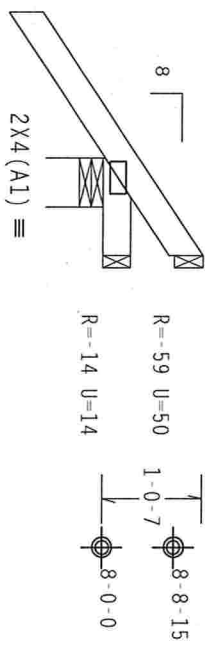
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| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08023095 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEON- 60843 |
| DUR.FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEE8228204 |

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 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0
psf. Iw=1.00 GCPI (+/-)=0.18

Bearing reactions of -14# at (1-0-0, 8-0-0), -59# at (1-0-0,
8-8-15), require special connection to resist uplift from loads
other than wind.
Wind reactions based on MMFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



1-6-0-0
1-0-0 Over 3 Supports
R=261 U=45 W=6"

PLT TYP. Wave

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

7.36.0424

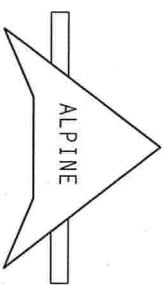
QTY: 8 FL/-/4/-/E/-/-

Scale = .5"/ft.

****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 WICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LANE, MAITSON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 30/30 GALV. STEEL. APPLY 2 PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN PER DIVISION OF THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY 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.



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0778



| | | | |
|----------|----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45738 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023052 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEON- | 60851 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228204 |

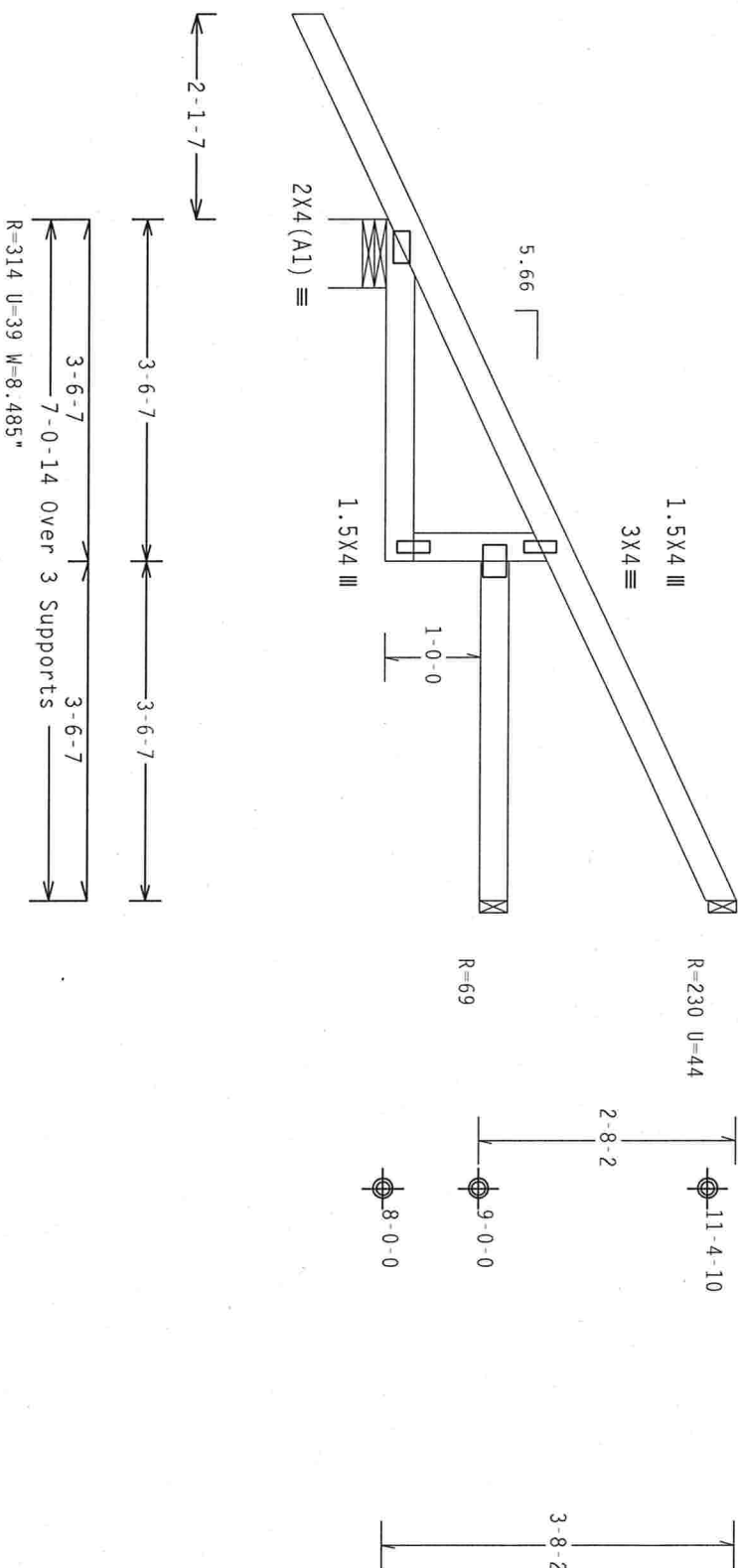
| | | | | |
|-----------|-----|----|----|-------|
| Top chord | 2x4 | SP | #2 | Dense |
| Bot chord | 2x4 | SP | #2 | Dense |
| Web | 2x4 | SP | #3 | |

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

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

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.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.36.0424 73

QTY:2

FL/-/4/-/E/-/-

Scale = .5" / Ft.

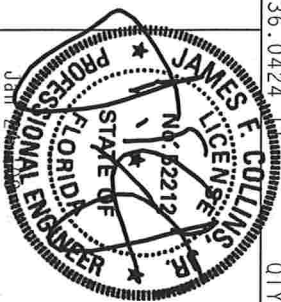
WARNING: THESE BUILDING COMPONENTS REQUIRE CARE IN FABRICATION, SHIPPING, INSTALLING AND BRACING. REFER TO DC51 (BUILDING COMPONENT SPECIFIC INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NFCA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MOBILE, AL 36689) FOR TRUSS PRACTICES. PRIOR TO PERFORMING THESE FUNCTIONS, THESE COMPONENTS INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITM BCG, INC. SHALL NOT**

ALPINE

ITW Building Components Group, Inc.

FL Certificate of Authorization # 0278

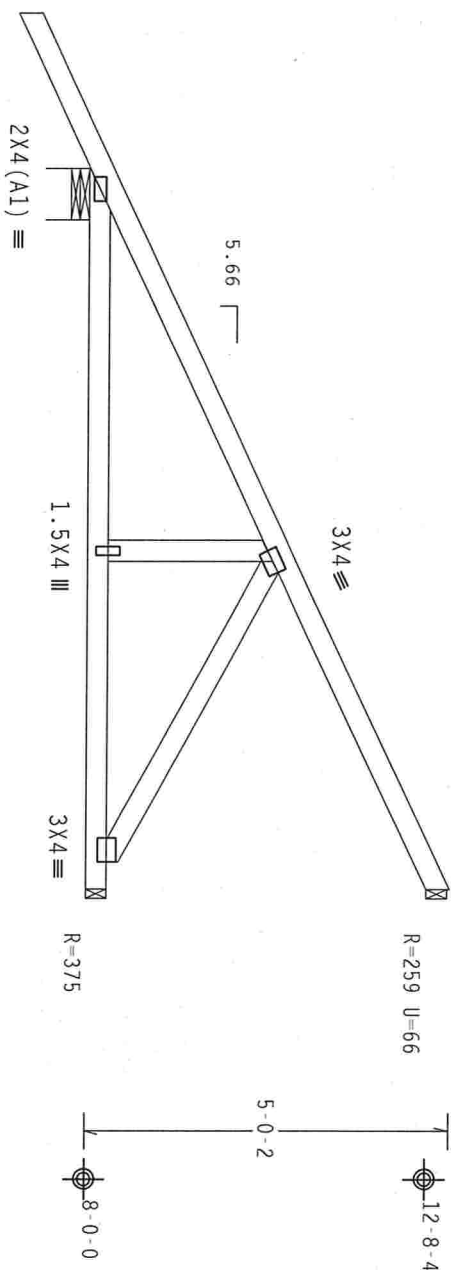


| | | | |
|-------------------|----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45739 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023050 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 61073 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING SEE ABOVE | | JREF- | 1TEE8228Z04 |

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, $I_w=1.00$ 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.



R=472 U=50 W=8.485*

Diagram illustrating the relationship between various parameters (R, U, W) and the number of supports (Over 3 Supports).

PLT TYP. Wave

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

7.36.0424

QTY:1

FL/-/4/-/E/-/-

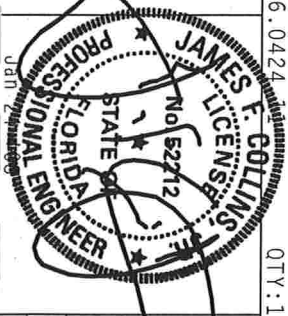
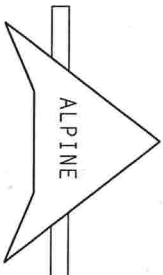
Scale = .375" / Ft.

WARNING: FIRE'S BUILDING COMPONENTS CAN BE FABRICATED, MANUFACTURED, SHIPPED, INSTALLED AND BRACED REFER TO AC308 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY PCI (CONCRETE PANEL INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNDESIGNED, UNDESIGNED INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****URNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITB BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TROSS IN CONFORMANCE WITH ITB1, OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES, DESIGN, CONSTRUCTING, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

SECTION COMMENTS: THE FOLLOWING CONDITIONS OF MATERIALS AND CONSTRUCTION SHALL BE USED FOR THE TRUSS COMPONENTS: 1. ALL TRUSS COMPONENTS SHALL BE MANUFACTURED BY A TRUSS MANUFACTURER WHO SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE TRUSS COMPONENTS. 2. THE TRUSS COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 95

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



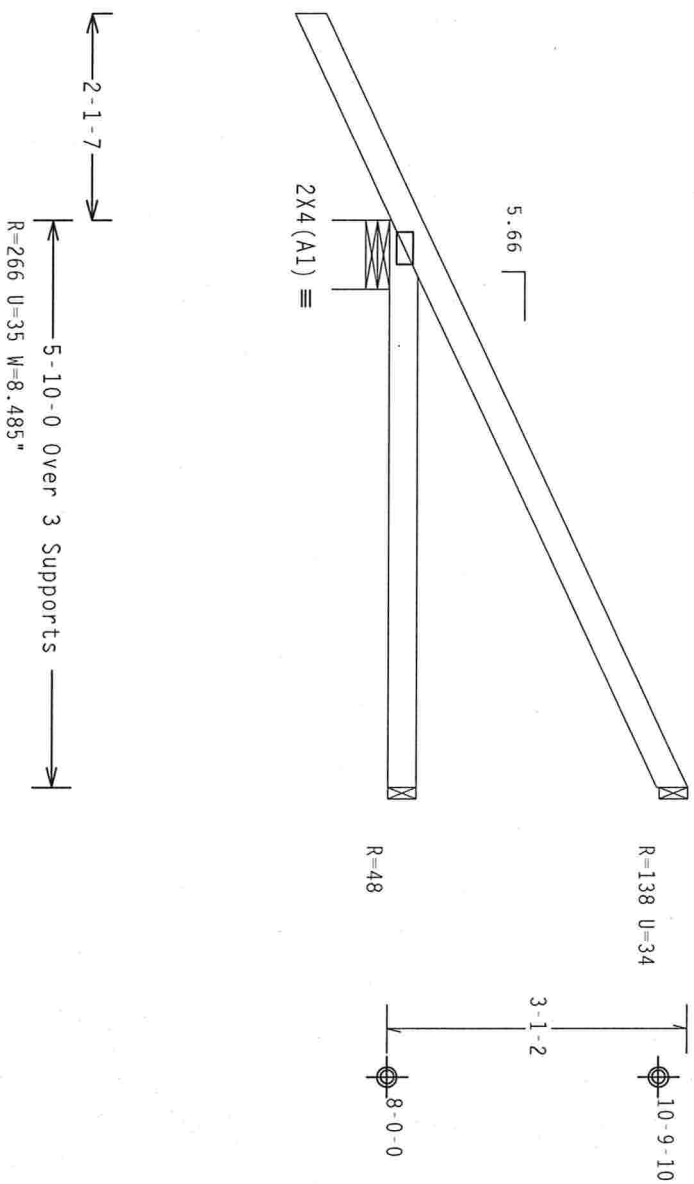
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| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCURS8228 08023069 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEON- | 60884 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | SEE ABOVE | JREF- | 1TEE8228Z04 |

| | | | | |
|-----------|-----|----|----|-------|
| 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. $I_w=1.00$ GCPI (+/-)=0.18

Wind reactions based on MWFRS pressures.



PLT TYP. Wave

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

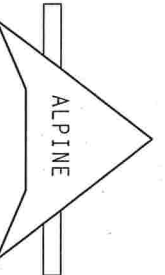
$$Cq/RT=1.00(1.25)/0(0)$$

7.36.0424

QTY:1

FL/-/4/-/E/-/-

Scale = .5"/Ft.



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

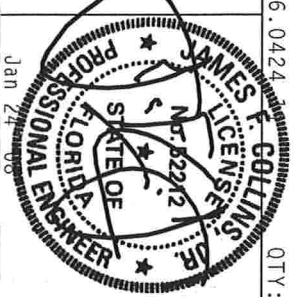
****WARNING**** THESE BUILDING COMPONENTS WERE FABRICATED, HANDLED, BY THE TRUSS PLATE INSTITUTE, 218 REFER TO BCS1 (REBUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WFLA (6000 TRUSS COMPANY OF AMERICA, 6300 ENTERPRISE LANE, BALDWIN, MA, 03719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS A PROPERLY ATTACHED RIGID CEILING SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, AN FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TYPE OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ALPAA) AND TPI-1. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, AN FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TYPE OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 2018/1666 (G4/HSSK3) ASH A563 GRADE 40/60 (K4/H4/55) GALV. STEEL. APPLY 160A-2 PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER A563 OR TPI-1-2002 SEC.3.

DRAWING IDENTIFIQUES ACCEPTED OR PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



| | | | |
|----------|-----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45741 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023089 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT. LD. | 40.0 PSF | SEQN- | 60888 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | SEE ABOVE | JREF- | 1TEE8228204 |

RECEIVED BY THE DIRECTOR, FBI, 11/11/68

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 MMFRS pressures.



Scale = .375"/Ft.

IMAVE

ALPINE

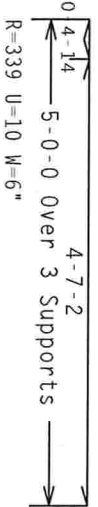
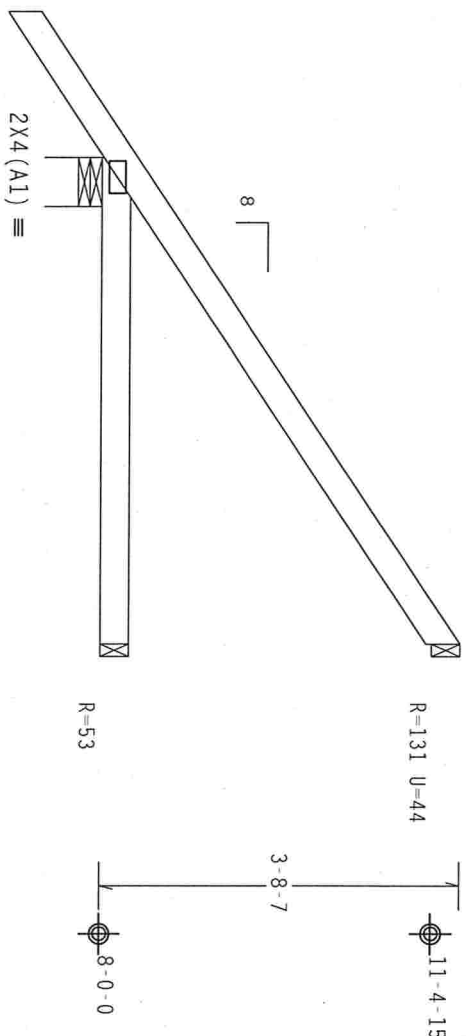
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|----------|----------|--------|-------------------|
| TC LL | 20.0 PSF | REF | R8228- 45742 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCSR8228 08023076 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- | 60858 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228204 |

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. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

Wind reactions based on MMFRS pressures.



PLT TYP. Wave

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

7.36.0424

QTY: 2

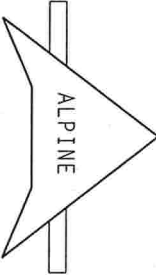
FL/-/4/-/E/-/-

Scale = .5"/ft.

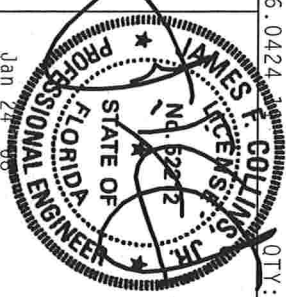
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 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.

****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 CONDITIONS WITH APPLICABLE PROVISIONS OF BOB (NATIONAL DESIGN SPEC. BY AIA/AIA AND TPI. ITW BCG, INC. IS THE DESIGNER OF RECORD FOR THIS DESIGN. POSITION PER DRAWINGS 1600-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE THE RESPONSIBILITY OF THE TRUSS CONTRACTOR. THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0778



| | | |
|----------|----------|------------------------|
| TC LL | 20.0 PSF | REF R8228- 45743 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08023073 |
| BC LL | 0.0 PSF | HC-ENG DF/DF * |
| TOT.LD. | 40.0 PSF | SEON- 60864 |
| DUR.FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEE8228204 |

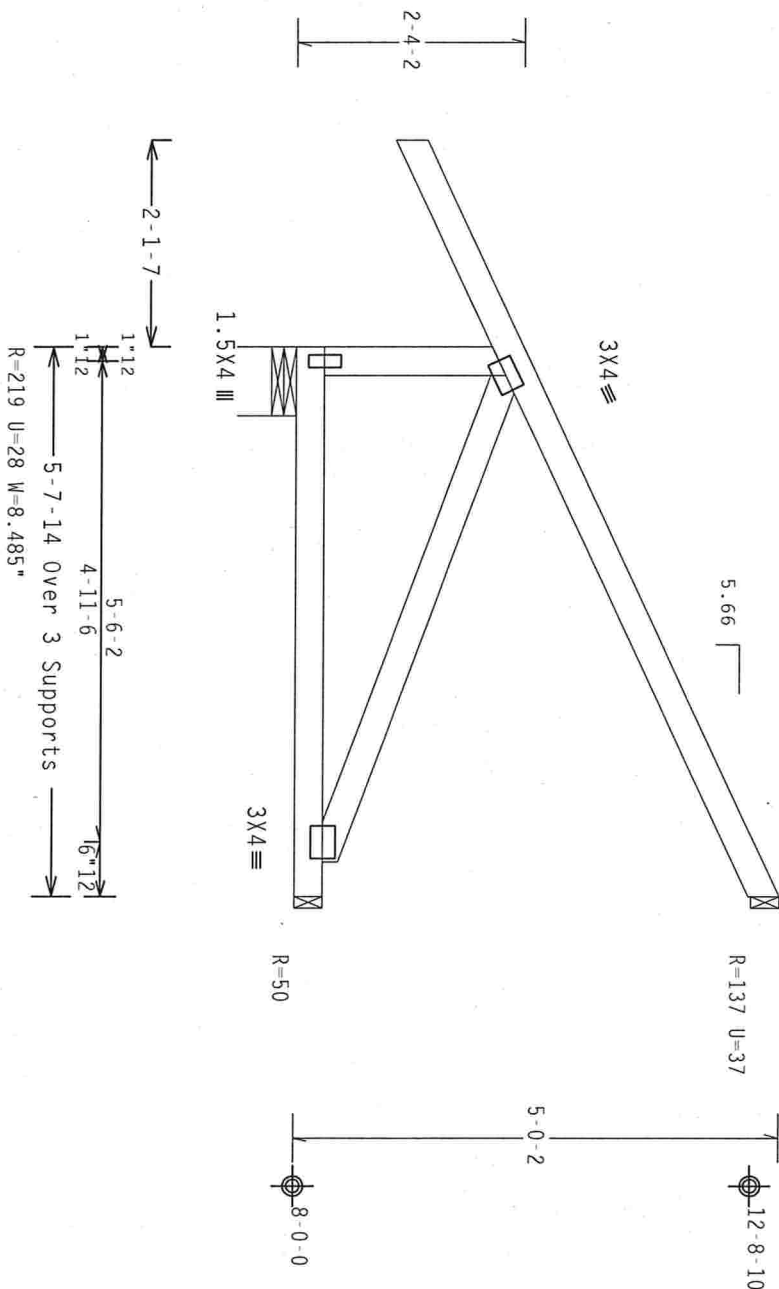
| | Top | chord | 2x4 | SP | #2 | Dense |
|-----|-------|-------|---|----|-------|-------|
| Bot | chord | 2x4 | SP <td>#2</td> <td>Dense</td> <td></td> | #2 | Dense | |
| | Webb | 2x4 | SP | #3 | | |

Hipjack supports 4-0-0 setback jacks with no webs.

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. 1w=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.



PLT TYP. Wave

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

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

7.36.0424

QTY:1

FL1-141-1E1-1-

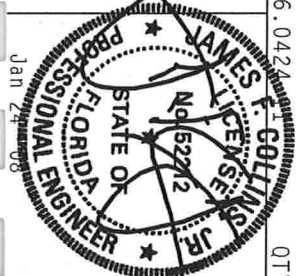
Scale = .5" / Ft.

WARNING: THESE TRUCKS BEARING EXTREME CHARGE, WARNING, SHIPPING, INSTALLING AND BROCHURE REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 219 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 63000 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PERTAINING TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.

FL Certificate of Authorization # 0278

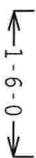


| | | | |
|----------|-----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45744 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023090 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 60901 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | SEE ABOVE | JREF- | 1TEER228204 |

THE NEW YORK PUBLIC LIBRARY
ASTOR LENOX TILDEN FOUNDATION
500 5TH AVENUE
NEW YORK 17, N.Y.

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

Wind reactions based on MMFRS pressures.



R=268 U=17 W=6

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

QTY:3

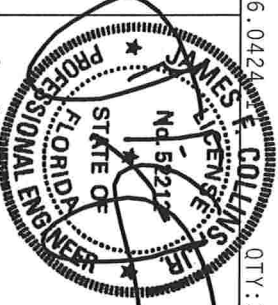
Scale = .5" / Ft.

OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE

FL Certificate of Authorization # 0278

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

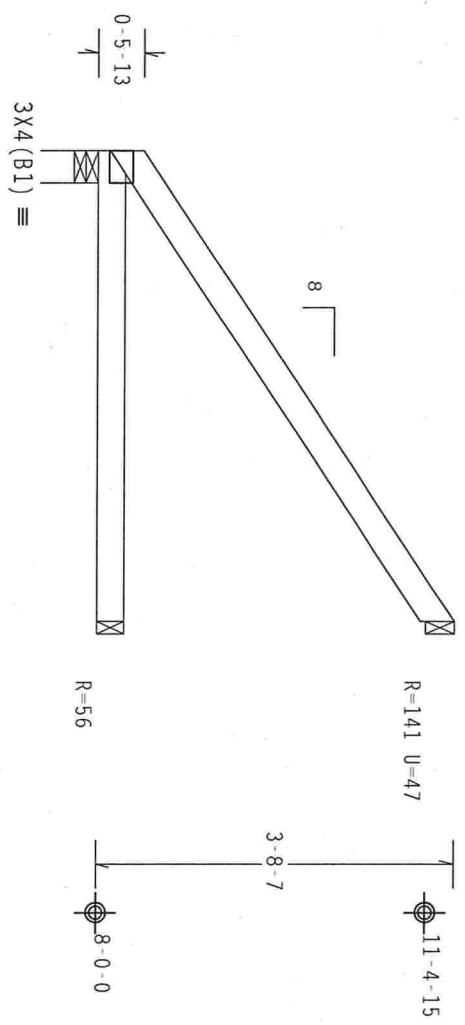


Jan 24 '08

| | | | |
|----------|----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228 - 45745 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCU8R8228 080Z3074 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- | 60869 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228Z04 |

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.



4-10-0
4-10-0 Over 3 Supports
R=208 W=4"

PLT TYP. Wave

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

7.36.0424.11

QTY:1

FL/-/4/-/E/-/-

Scale =.5"/ft.

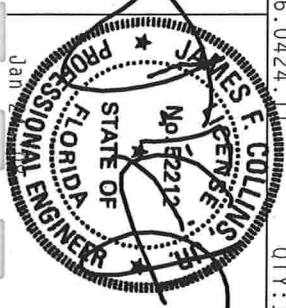
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 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.

****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.

ITW BUILDING COMPONENTS GROUP, INC. (ITW BCG) HAS ASSIGNED GRADE 40/60 (40 KSI) GALV. STEEL, TYP. CONNECTOR PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE INDICATED AS OF TPI-2002 SECTION 1.1.1, 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.



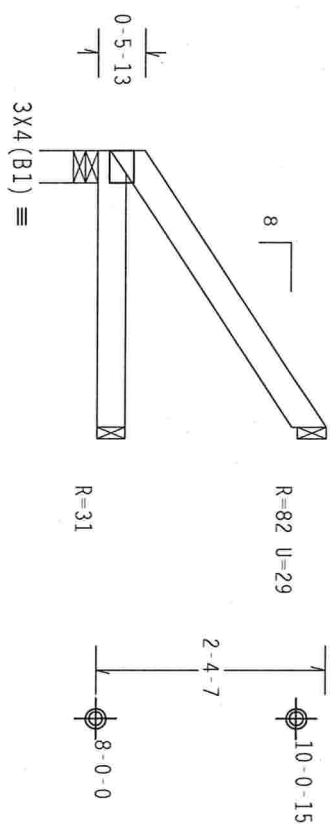
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0778



| | | |
|-----------|----------|------------------------|
| TC LL | 20.0 PSF | REF R8228- 45746 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08023070 |
| BC LL | 0.0 PSF | HC-ENG DF/DF * |
| TOT. LD. | 40.0 PSF | SEON- 60874 |
| DUR. FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEE8228Z04 |

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.



2-10-0 06-10-8 supports
R=124 W=4"

PLT TYP. Wave

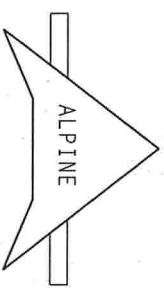
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

7.36.0424 10.11.04 QTY:1 FL/-/4/-/E/-/-

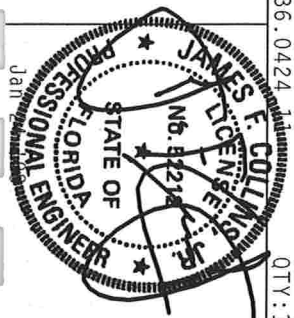
Scale =.5"/ft.

****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 STREET, SUITE 312, ALEXANDRIA, VA, 22319 AND WICA (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.

****IMPORTANT**** TURNISH 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. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22319 AND WICA (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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FL Certificate of Authorization # 0778



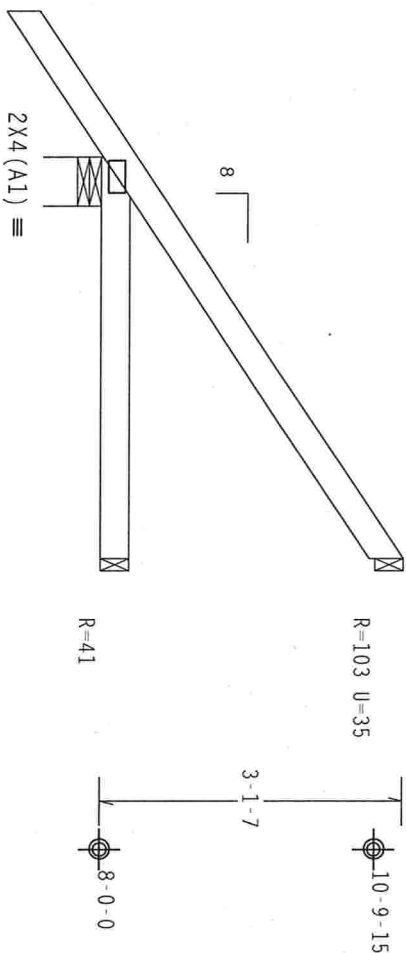
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| TC LL | 20.0 PSF | REF R8228- 45747 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCUR8228 08023071 |
| BC LL | 0.0 PSF | HC-ENG DF/DF * |
| TOT.LD. | 40.0 PSF | SEON- 60878 |
| DUR.FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEE8228204 |

| 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 Gcpl (+/-)0.18

Wind reactions based on MWFRS pressures.



1-6-0

0 3-8-10
4-14
4-1-8 Over 3 Supports →
R=306 U=13 W=6"

PLT TYP. Wave

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

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

7.36.0424

QTY:1

FL/-/4/-/E/-/-

Scale = .5"/Ft.

WARNING: ALL TRUCKS (INCLUDING EXTREME CASE, HANDLING, SHIPPING, STRESSING AND BRACING REFER TO RC51 (BUILDING COMPONENT SAFETY INFORMATION)), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MONTICELLO, NJ 07043) FOR SAFETY PRACTICES ARE REQUIRED TO PERFORM THESE ACTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERTY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERTY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

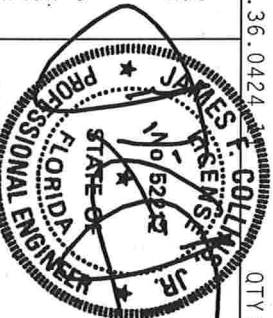
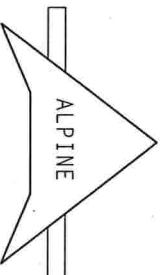
TYPE: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTION PLATES ARE MADE OF 20/10/100A (W, H, S) ASIM A053 GRADE 40/50 (W, K/H, S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 1604-2

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0778



Jan 24 08

| | | | |
|----------|----------|--------------|--------------------|
| TC LL | 20.0 PSF | REF | R8228 - 45748 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023096 |
| BC LL | 0.0 PSF | HC-ENG DF/DF | * |
| TOT.LD. | 40.0 PSF | SEQN- | 60893 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228Z04 |

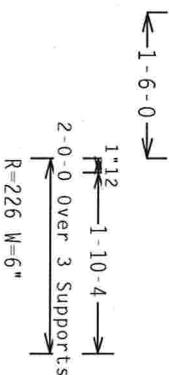
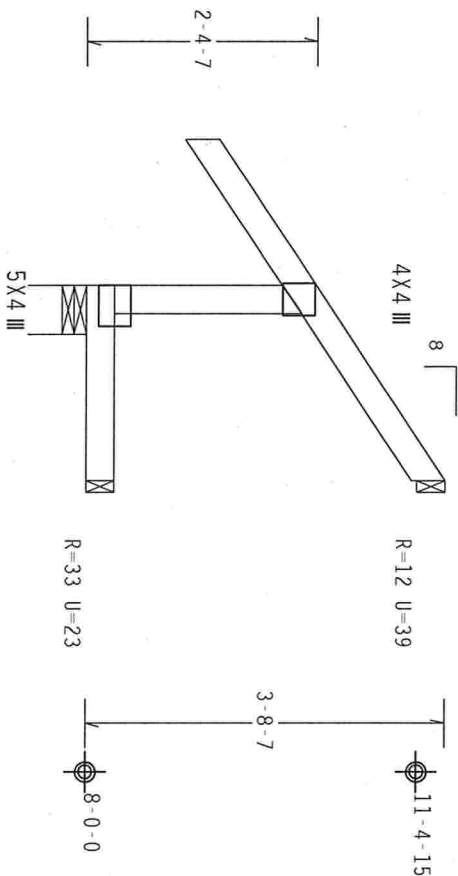
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #2 Dense

Left 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.

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. $I_w=1.00$ GCPI (+/-)=0.18

Wind reactions based on MMFRS pressures.



PLT TYP. Wave

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

7.36.0424

QTY:1

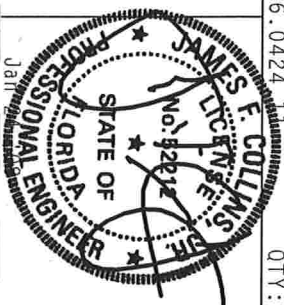
FL/-/4/-/E/-/-

Scale =.5"/Ft.

****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 WICA (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.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF TRUSSES IN COMPLIANCE WITH THE TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

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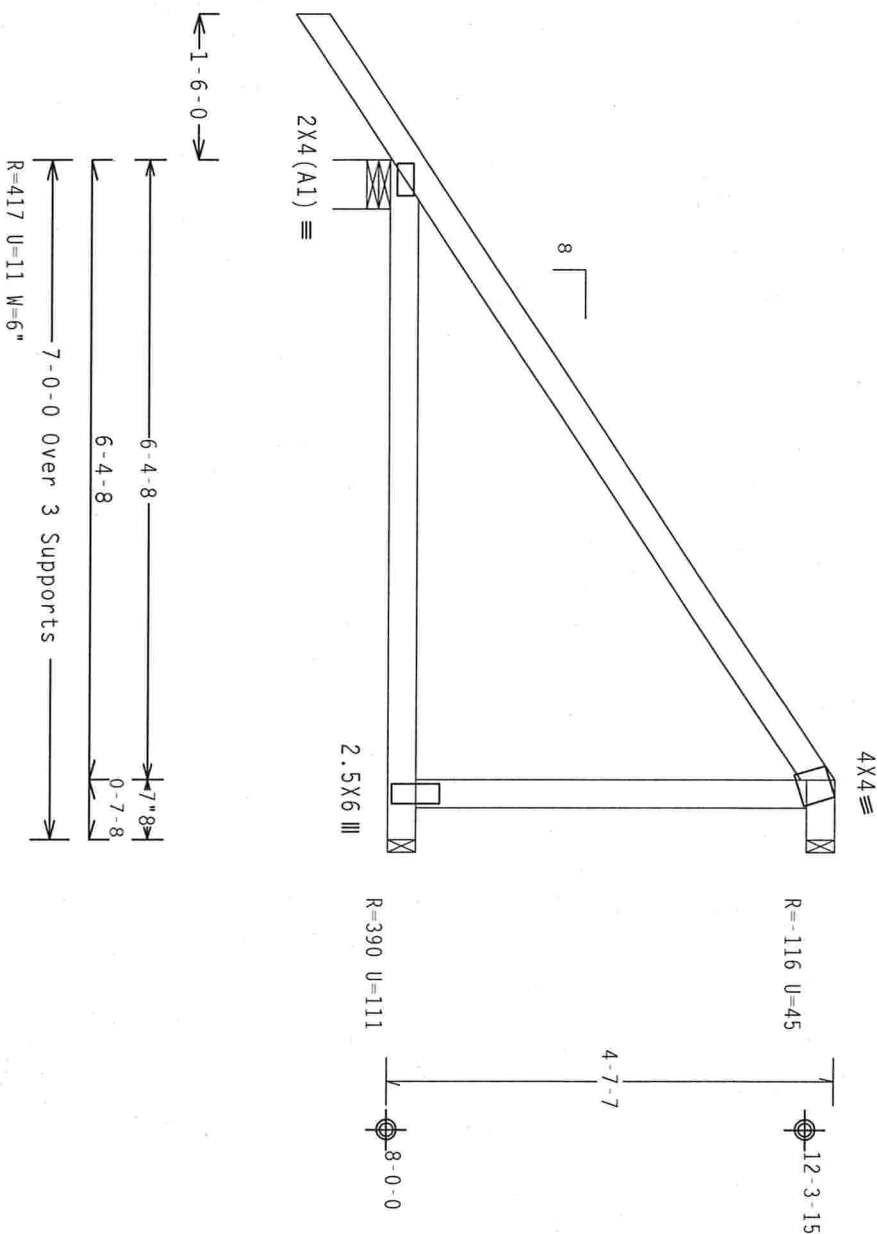
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| TC LL | 20.0 PSF | REF: R8228- 45749 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCUR8228 08023091 |
| BC LL | 0.0 PSF | HC-ENG DF/DF * |
| TOT.LD. | 40.0 PSF | SEON- 60897 |
| DUR.FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEE8228Z04 |

| | | | | | |
|-----|-------|-----|----|----|-------|
| 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.

Bearing reaction of -115# at (7-0-0, 12-3-15), requires special connection to resist uplift from loads other than wind.



PLT TYP. Wave

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

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

7.36.0424

QTY:1

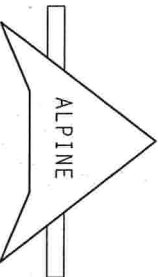
FL/-/4/-/E/-/-

Scale = .5" / Ft.

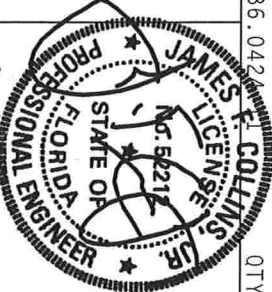
WARNING: THESE PRICES INCLUDE EXTREME CHARGE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PROTECTING. REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRESS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND NICK & KOON TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MONTICELLO, VA, 53139 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIDGE CEILING.

****IMPORTANT****URNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TROSS IN CONFORMANCE WITH TDS, OR FABRICATING, HANDLING, SHIPPING, INSTALLING, BRACING OR TROSSING.

DESIGN CONDITIONS FOR APPLICATION OF MOST OF THE BUILDING CODES. THE BUILDING CODES REQUIRE THAT THE CONDUCTOR PLATES ARE MADE OF 2017B/160A (H/HSS/V) ASTM A653 GRADE 40/60 (H K/1/55) GALV. STEEL. THE PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON PERI-METRIC, POSITION PER DRAWINGS 1606-2.2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-1-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY 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.



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



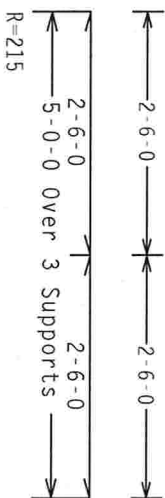
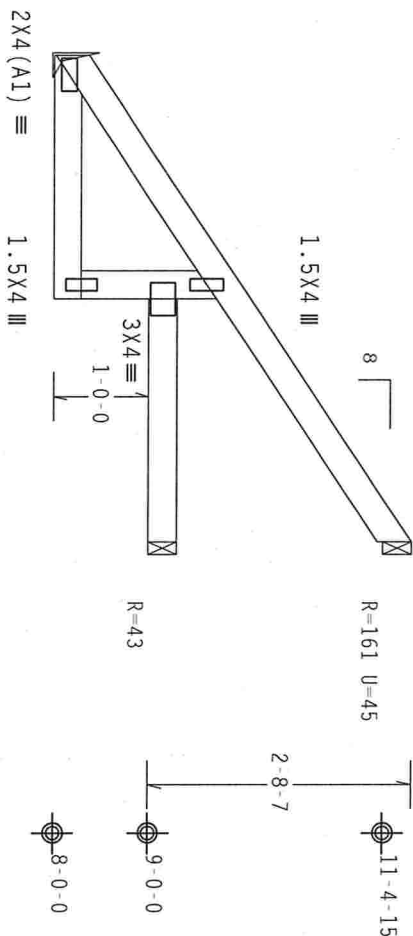
Jan 24 08

| | | | |
|----------|----------|--------------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45750 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023092 |
| BC LL | 0.0 PSF | HC-ENG DF/DF | * |
| TOT.LD. | 40.0 PSF | SEQN- | 60905 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228204 |

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, 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 MMFRS pressures.



PLT TYP. Wave

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

7.36.0424 F. COLLINS
OTY:5 FL/-/4/-/E/-/-

Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (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.

****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 AIA/ASA AND TPI, 1100 N. MICHIGAN, SUITE 1000, ANN ARBOR, MI 48106) AND ASD (WOOD DESIGN SPECIFICATION FOR DRAMMERS, 1600 ZEEB AVENUE, SUITE 200, ANN ARBOR, MI 48106) AND TPI-2002 (TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314). ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK AS OF TPI-2002 SPEC FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844

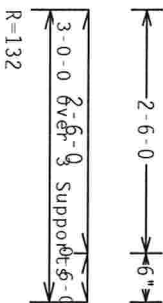
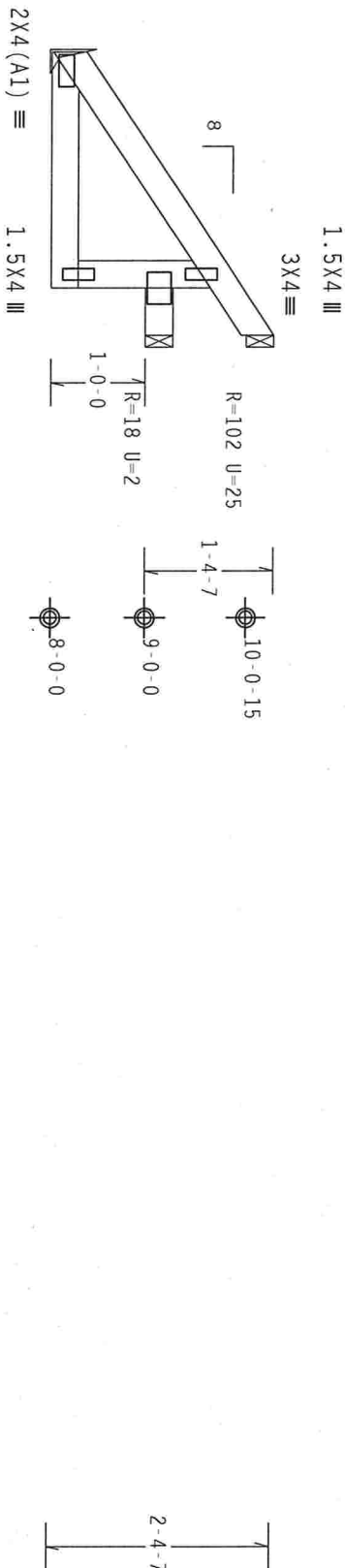
FL Certificate of Authorization #0-778



| | | | |
|-----------|----------|--------------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45751 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023055 |
| BC LL | 0.0 PSF | HC-ENG DF/DF | * |
| TOT. LD. | 40.0 PSF | SEQN- | 61060 |
| DUR. FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228204 |

(8-034--Sparks Construction Lot 6 Rolling Meadows -- Lot 6 Rolling Meadows . ** - J3C)
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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.
Wind reactions based on MMFRS pressures.



PLT TYP. Wave

Design Crt: TPI-2002(STD)/FBC

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

7.36.042

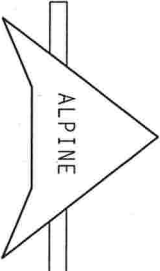
QTY: 2

FL/-/4/-/E/-/-

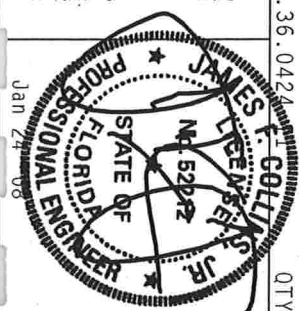
Scale = .5"/ft.

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

****IMPORTANT**** TURNISH 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 THE DESIGN OR ANY DAMAGE TO THE TRUSS OR BUILDING DURING OR AFTER INSTALLATION. THE BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE INTERNATIONAL BUILDING CODES, AS AMENDED BY THE BCG DESIGN. CONNECTION PLATES ARE MADE OF 20/18/16GA (14/4/55K) WITH A53 GRADE 40/60 (4/4/55) GALV. STEEL, APRIL 2, ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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FL Certificate of Authorization # 0778



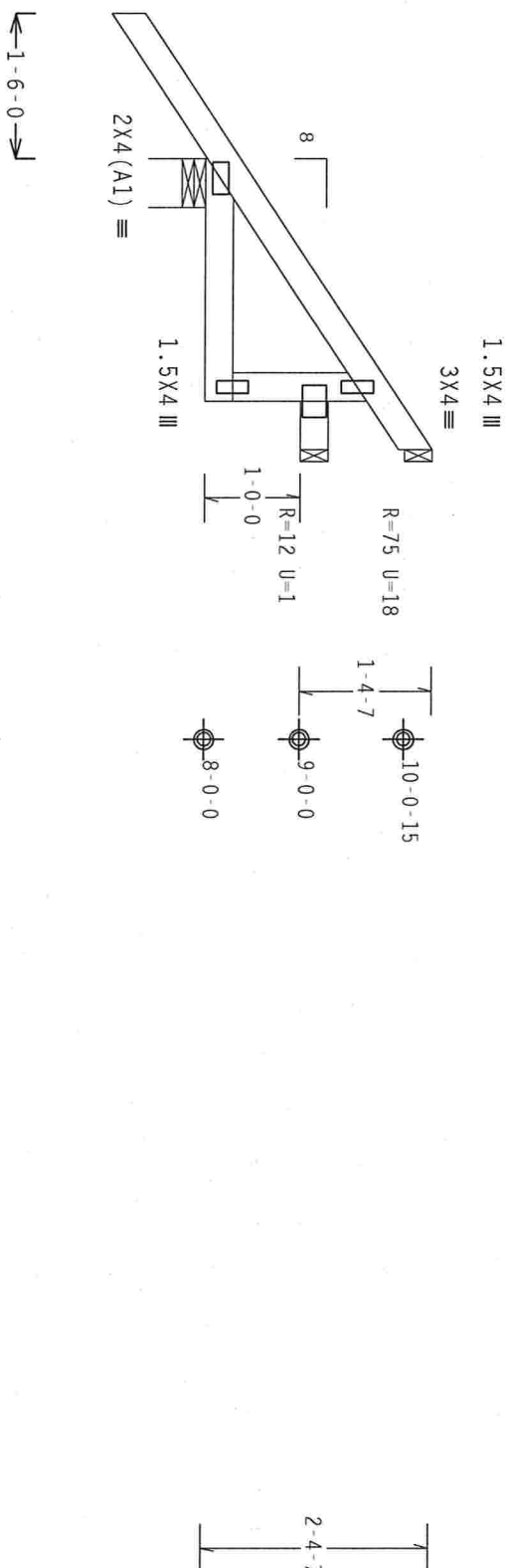
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| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCU8228 08023054 |
| BC LL | 0.0 PSF | HC-ENG DF/DF | * |
| TOT.LD. | 40.0 PSF | SEQN | 61065 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF | 1TEE8228204 |

| | | | | | |
|-----|-------|-----|----|----|-------|
| 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

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

Wind reactions based on MMFRS pressures.



PLT TYP. Wave

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

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

7.36.0424

QTY:2

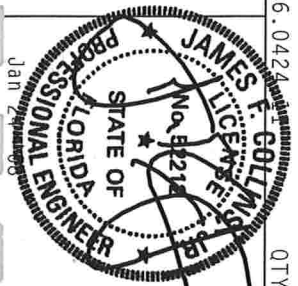
FL/-14/-1E1/-1-

Scale = .5" / Ft.

WARNING: THESE TRUCKS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC-1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PILING INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND TRUSS COUNCIL OF AMERICA, 63000 ENTERPRISE LANE, MIDLOTHIAN, VA, 55139 FOR SAFETY PRACTICES AND NECA TO PERFORM THESE FUNCTIONS. UNDESSED COMPONENTS INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIDGEL CEILING.

ALPINE

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



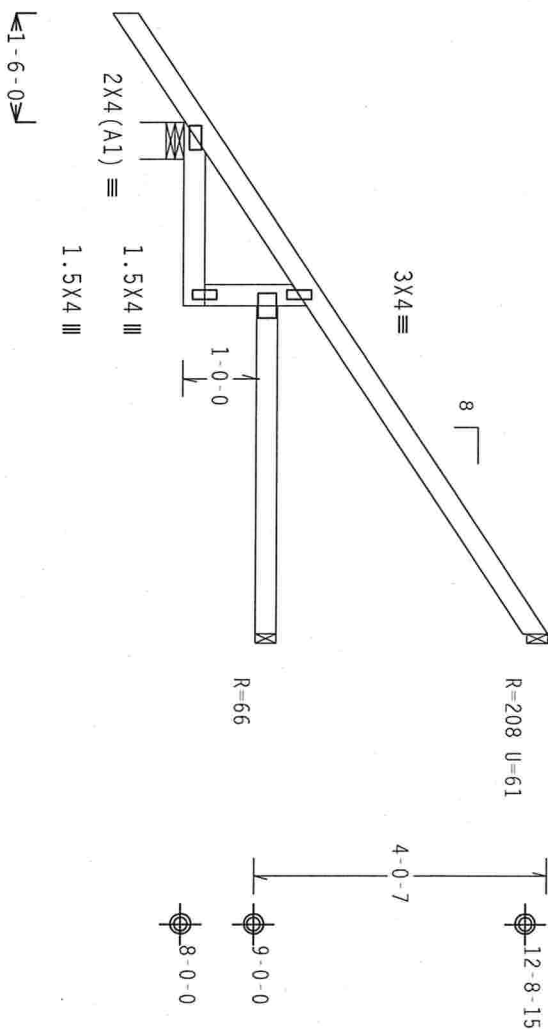
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|----------|----------|--------------|--------------------|
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| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023051 |
| BC LL | 0.0 PSF | HC-ENG DF/DF | * |
| TOT.LD. | 40.0 PSF | SEQN- | 61069 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228Z04 |

| | | | | | |
|-----|-------|-----|----|----|-------|
| 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, 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. $I_w=1.00$ 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.



$\overbrace{2-6-0}^{4-6-0}$
 $\overbrace{7-0-0}^{\text{Over 3 Supports}}$
 $R=417 \quad U=5 \quad W=6''$

PLT TYP. Wave

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

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

7.36.0424

QTY:3

FL-/-/4/-/E/-/-

Scale = .375"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PRACTICE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WPCA (WOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES AND GUIDANCE TO PERFORMING THESE FUNCTIONS. UNDESIGNED OR OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

ITEM: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES,

PLATES TO EACH FACE OF TRUSS AND THESE OTHERWISE LOCATED ON THIS DESIGN POSITION AND OTHERWISE AS REQUIRED.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

Jan 24 08

SPACING

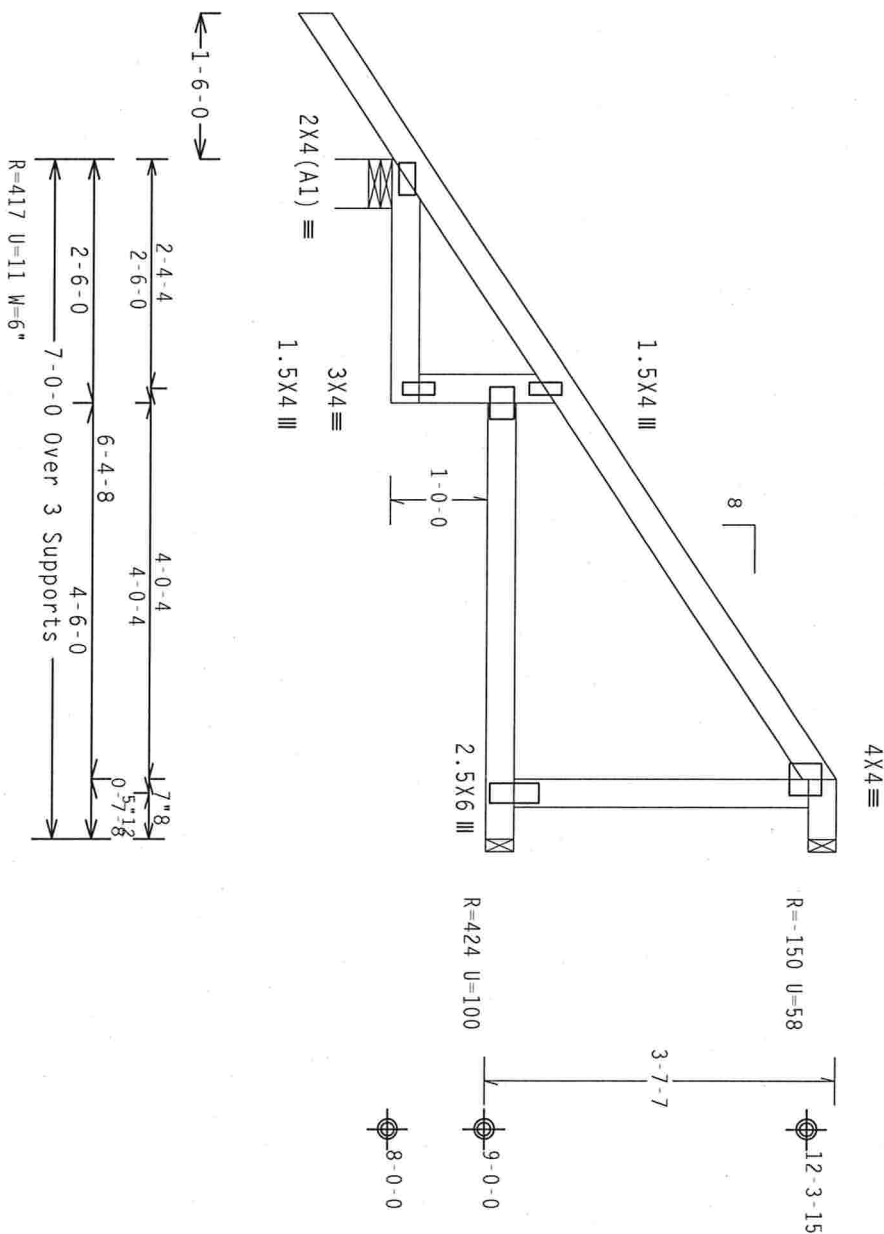
24.0"

JREF - 1TEE8228Z04

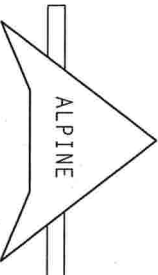
| | Top | chord | 2x4 | SP | #2 | Dense |
|-----|-------|-------|-----|----|-------|-------|
| Bot | chord | 2x4 | SP | #2 | Dense | |
| | webs | 2x4 | SP | #3 | | |

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

Bearing reaction of -149# at (7-0-0, 12-3-15), requires special connection to resist uplift from loads other than wind.
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp(+/-)=0.18
Wind reactions based on MMFRS pressures.



PLT TYP. Wave



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

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

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

7.36.0424

QTY:1

FL/-/4/-/E/-/-

Scale = .5" / Ft.

[illegible]

****IMPORTANT*****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TYPE, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

[illegible]

| | | | |
|----------|----------|--------------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45755 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023061 |
| BC LL | 0.0 PSF | HC-ENG DF/DF | * |
| TOT.LD. | 40.0 PSF | SEQN- | 61087 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228204 |

M1)

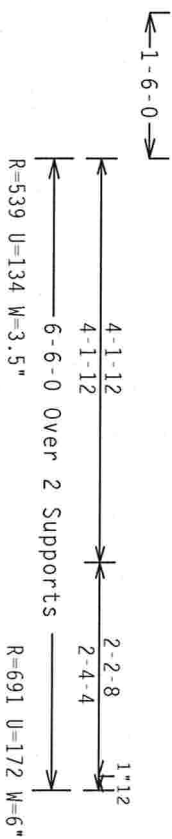
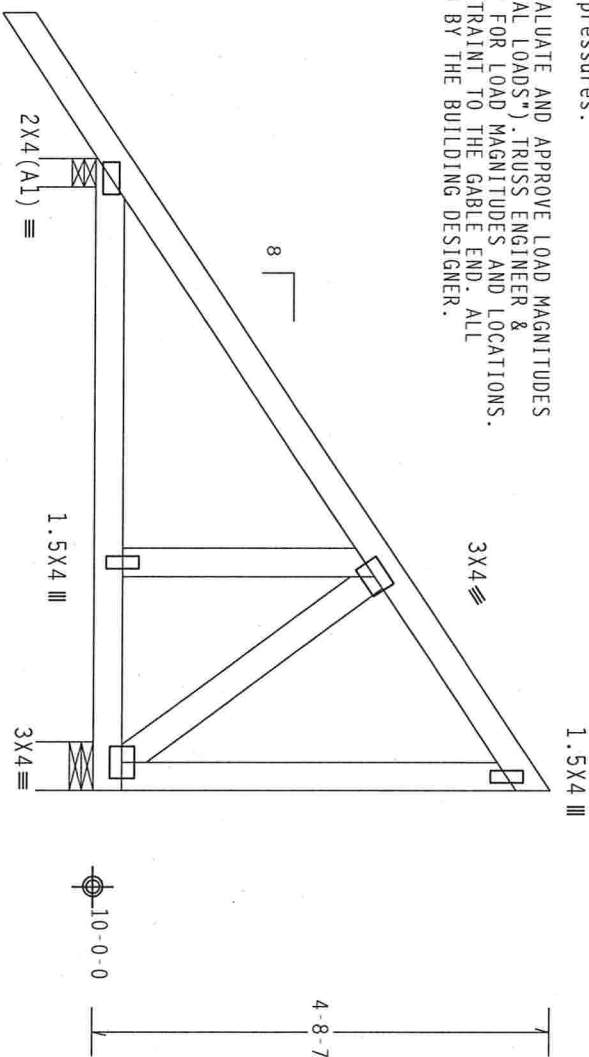
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART_ENC, bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0, psf, wind BC DL=5.0 psf. Iw=1.00 GCPI (+/-)=0.55

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.

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.

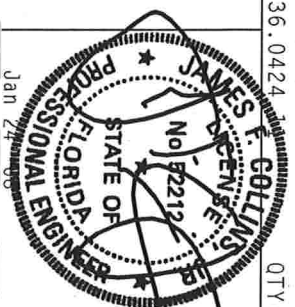


Scale = .5"/Ft.

WARNING: THIS PROJECT REQUIRES EXTENSIVE CARE IN FABRICATION, HANDLING, UNLOADING, SHIPPING, INSTALLING, AND BRACING. REFER TO BC51 (BUILDING COMPONENT SPECIFICATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS COMPANY OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES AND MICH (MIDWEST CONNECTIONS) FOR CONNECTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
EL Certificate of Authorization # 0 078



| | | | |
|----------|-----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228 - 45/756 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023108 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN - | 61556 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | SEE ABOVE | JREF - | 1TEE8228Z04 |

| | Top chord | 2x4 | SP | #2 | Dense |
|-----|-----------|-----|----|----|-------|
| Bot | chord | 2x6 | SP | #2 | |
| Web | | 2x4 | SP | #3 | |

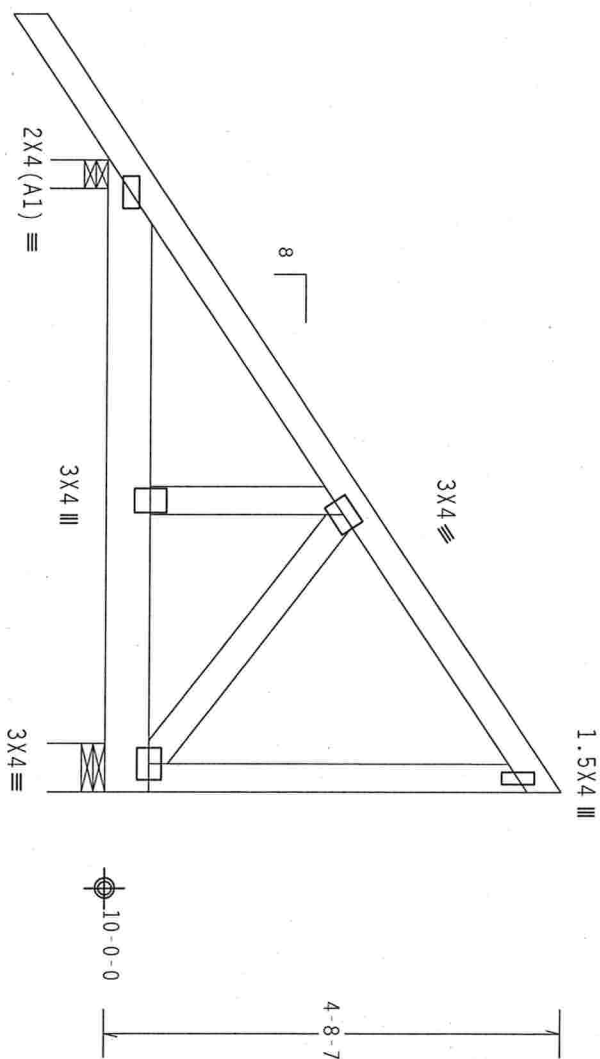
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 gcpi (+/-)=0.55

Girder supports 9'-0" span to BC one face and 2'-0" span to TC/BC split opposite face.

Wind reactions based on MMFRS 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.



0-6-0

Diagram of a continuous beam with four supports. The beam is divided into three spans. The first span has a length of 3.5-15 feet. The second span has a length of 2-10.5 feet. The third span has a length of 3-0-1 feet. The total length of the beam is 6-6-0 feet. The beam is supported by two supports in the middle of the second span. The beam is labeled R=866 U=206 W=3.5" and R=700 U=146 W=3.5".

PLT TYP. Wave

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

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

7.36.042

QTY:1

FL/-/4/-/E/-/-

Scale = .5" / Ft.

-WARNING-

THESE TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIGN (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 214 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND AISC 6000 TRUSS COUNCIL OF AMERICA, 63000 ENTERPRISE LANE, MADISON, WI 53729 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. DIMENSIONS OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844
FL Certificate of Authorization # 0278

Jan 24 08

SPACING SEE ABOVE

JREF - 1TFF8228Z04

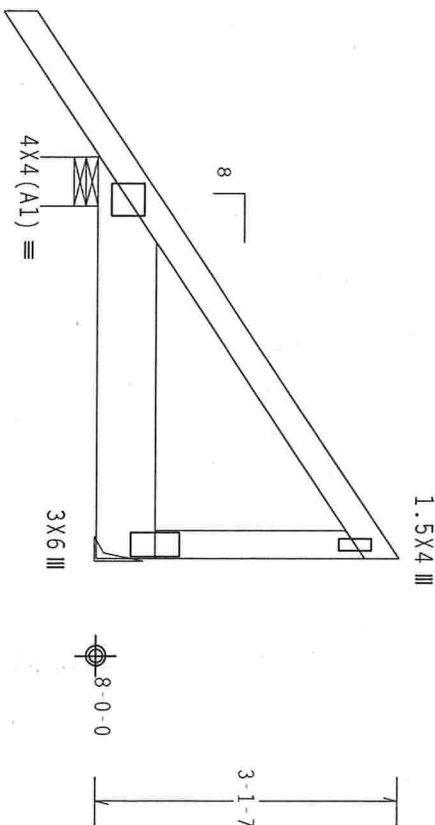
... .. (LUNDS & BERTILSONS) SUBMITTED BY LUNDS FIRM

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.50 to 64 PLF at 4.13

| | (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25) |
|---|--|
| TC - From 64 PLF at -1.50 to 64 PLF at 4.13 | |
| BC - From 5 PLF at -1.50 to 5 PLF at -0.00 | |
| BC - From 20 PLF at -0.00 to 20 PLF at 4.13 | |
| PLB- 1377 LB Conc. Load at (1.73,8.04), (3.73,8.04) | |

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.



1-6-0

$$\begin{array}{c} \text{---} 3 \text{---} 11 \text{---} 12 \text{---} \\ \text{---} 1^{\text{st}} 12 \end{array}$$

4-1-8 Over 2 Supports

R=1272 U=118 W=6" R=1931 U=132

PLT TYP. Wave

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

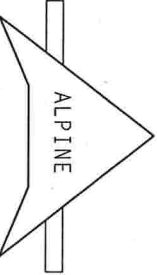
7.36.0424 QTY:1

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

Scale = .5"/Ft.

WARNING: TRIES REQUIRE EXISTING CAVE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSI (BUILDING COMPONENT SYSTEM INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI, 53719) FOR PROPER PRACTICES PRIOR TO TRANSFERRING THESE FUNCTIONS. UNDESIRABLE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED FIELD CEILING.

IMPORTANT: *PURCHASE A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SMALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TUSHS IN CONFORMANCE WITH THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOS (NATIONAL DESIGN SPEC BY AREA) AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOS (NATIONAL DESIGN SPEC BY AREA) AND TPI. CONECTOR PLATES ARE MADE OF 2018/81/66A (H/V/5/5) ASTM A653, GRADE 49/60 (K: 6/41/55) GALV. STEEL. APPLICABLE TO EACH FACE OF TUSHS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1660-2. DRAWING INDICATES ACCEPTANCE OF THESE SHALL BE PER ANNEX A OF TPI-1-2002. SEC. 3. A SEAL ON THIS DESIGN SHOWS THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



Jan 24 08

| | | | |
|----------|----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228- 45758 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023097 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT. LD. | 40.0 PSF | SEQN- | 61455 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228Z04 |

CONFIDENTIAL BY INSTRUCTIONS OF THE DIRECTOR

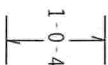
SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 1.75

| | |
|-----------|--|
| ----- | (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25) |
| TC - From | 64 PLF at 0.00 to 64 PLF at 1.75 |
| TC - From | 64 PLF at 1.75 to 64 PLF at 3.50 |
| BC - From | 4 PLF at 0.00 to 4 PLF at 3.50 |

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

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

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

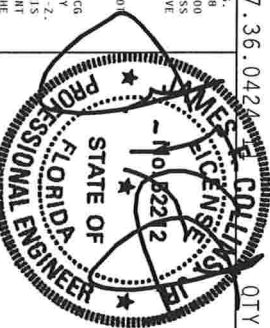


7.36.0424
QTY: 2
FL/-/4/-/E/-/-
Scale = .5"/Ft.

| | | |
|--|--|-------------------------------|
| REACTING
UNIT, 218
A,
6300
UNLESS
NOTED
OTHERWISE HAVE | TC LL
20.0 PSF
TC DL
10.0 PSF | REF R8228 - 45
DATE 01/23/ |
|--|--|-------------------------------|

| BC LL | 0.0 PSF | HC-ENG DF/DF |
|-------|---------|--------------|
| | | |

| | | | |
|---------------------------|------|----------------|----------------|
| COMPONENT
ID
NUMBER | DATE | DESCRIPTION | REMARKS |
| Jan 24 08 | | DUR. FAC. 1.25 | FROM AH |
| | | SPACING 24.0" | JREF- 1TEE8228 |



| | | | |
|----------|----------|--------|-------------------|
| TC LL | 20.0 PSF | REF | R8228 - 45759 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUS88228 0802315 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 61635 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228204 |

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SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 9.67

Right end vertical not exposed to wind pressure.

Right end vertical not exposed to wind pressure.

Refer to DWG PIGBACKB0207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



Diagram of a continuous beam with four spans. The spans are labeled 10'-11", 8'-10-11", 14'-0-0", and 4'-4-0". The beam is supported by four supports, with the first support being a pin support and the others being roller supports. The beam is labeled "14'-0-0" Over 2 Supports".


Design Crit: TPI-2002(STD)/FBC

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

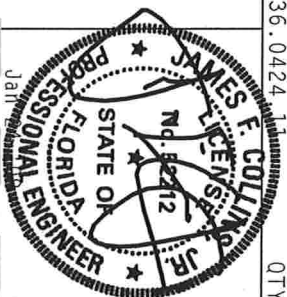
QTY:5 FL/-/4/-/E/-/-

Scale = .375"/Ft.

| | | |
|-------|----------|------------------|
| TC LL | 20.0 PSF | REF R8228- 45760 |
| TC DL | 10.0 PSF | DATE 01/23/08 |



Haines City, FL 33844
FL Certificate of Authorization # 0278



Jan

| | | | |
|----------|-------|-------|-------------|
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TFE8228704 |

| | Top | chord | 2x4 | SP | #2 | Dense |
|-----|-------|-------|-----|----|-------|-------|
| Bot | chord | 2x4 | SP | #2 | Dense | |
| | webs | 2x4 | SP | #3 | | |

110 mph wind, 19.48 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=2.0 psf. Iw=1.00 Gcpl(+/-)=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.

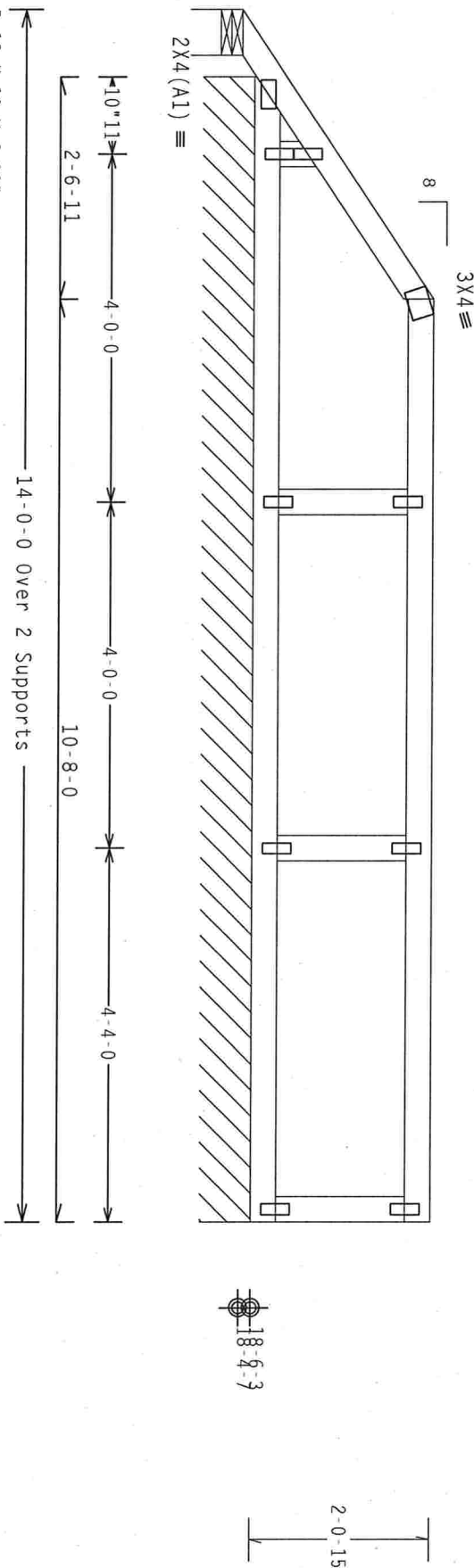
Refer to DWG PIGBACKB0207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE

PORTION OF CROSS UNDER PLYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 3.33
TC - From 64 PLF at 3.33 to 64 PLF at 14.00
BC - From 4 PLF at 0.00 to 4 PLF at 14.00

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.



Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

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

7.36.0424.11

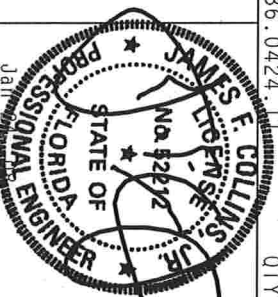
QTY:1 FL/-/4/-/E/-/-

Scale = .5" / Ft.

*****WARNING***** TRUCKS (LOADING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PRACTICE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) (GOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MIDDLETOWN, NJ, 07047) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TPO GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT*****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH IP11, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

SECTION COMBINES THE APPLICABLE PROVISIONS OF MOST ALPHABETICALLY LISTED SPECIFICATIONS. THE BRIDGE CONNECTOR PLATES ARE MADE OF 2018/160A (4-H/55-Y) ASTM A663 GRADE 50/60 (4- K/1-S) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS ANCH. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITIONING PER DRAWINGS 160A-2. EACH ANCHER OF PLATES FOLLOWED BY (1) SHALL BE PER ANCHOR AS OF THE 2012-2020 SEC.3. A SEAL ON THIS 3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWS THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



| FL / - / 4 / - / E / - / - | | Scale = .5" / Ft. |
|----------------------------|----------|------------------------|
| TC LL | 20.0 PSF | REF R8228- 45761 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCU8R8228 08023111 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- 61240 |
| DUR.FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEE8228Z04 |

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

110 mph wind, 20.15 ft mean hgt, ASCE 7-02, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf,
wind BC DL=2.0 psf. $I_w=1.00$ $G C p_i(+/-)=0.18$

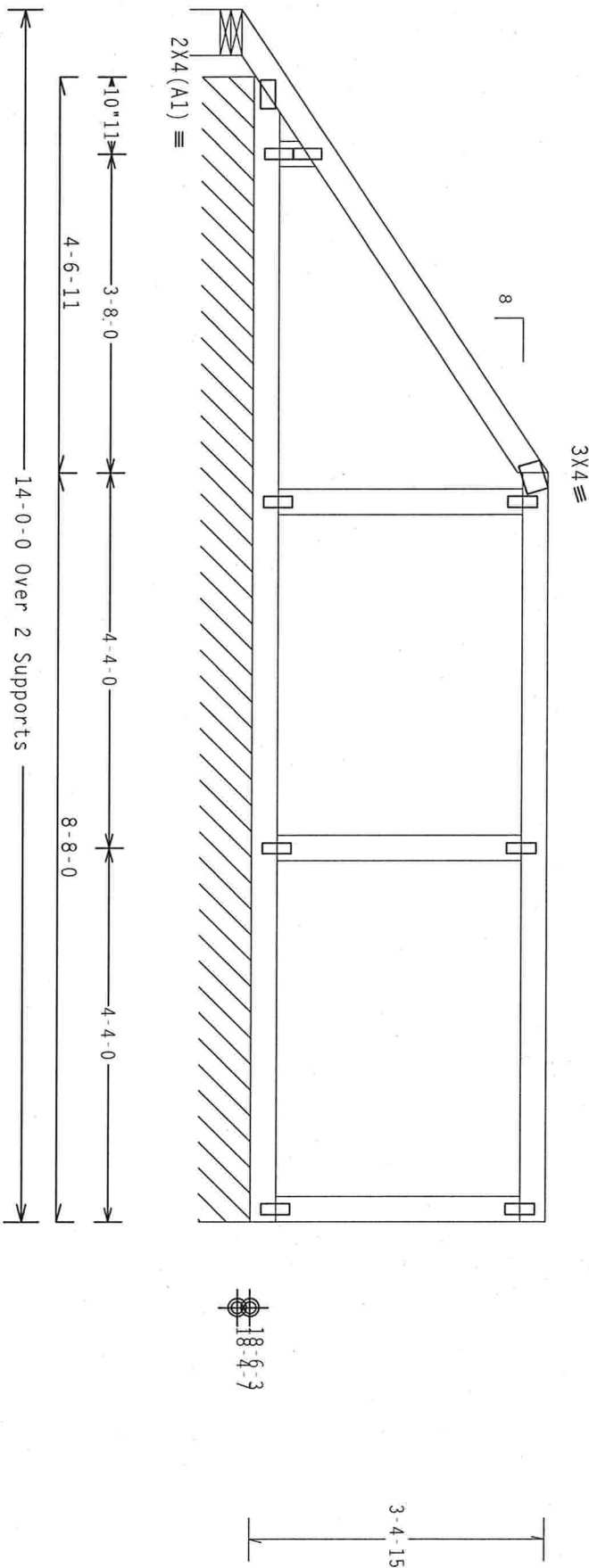
Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKB0207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25
TC - From 64 PLF at 0.00 to 64 PLF at 5.33
TC - From 64 PLF at 5.33 to 64 PLF at 14.00
BC - From 4 PLF at 0.00 to 4 PLF at 14.00
Right end vertical not exposed to wind pressure.
In lieu of structural panels or rigid ceiling use purlins to brace
all flat TC @ 24" OC, all BC @ 24" OC.



R-13 U=22 W=6.31"
R=70 PLF U=26 PLF W=13-2-12

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

7.36.0424

QTY: 1

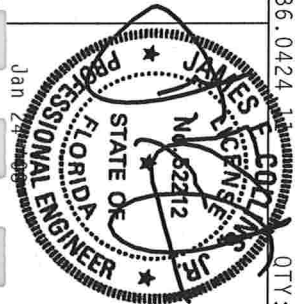
FL/-/4/-/E/-/-

Scale = .5"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTA (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.

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
THIS DESIGN, INCLUDING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
DESIGN OF TRUSSES, INCLUDING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, BY AEPD AND TPI. ITW BCG
CONNECTOR PLATES ARE MADE OF 20/19/16/15/14/13/12/11/10/9/8/7/6/5/4/3/2/1 STEEL. THE DESIGN OF THE TRUSS
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 1604-2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/PTI 1 SEC. 2.

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0778



| | | | |
|----------|----------|--------------|--------------------|
| TC LL | 20.0 PSF | REF | R8228-45762 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023104 |
| BC LL | 0.0 PSF | HC-ENG DF/DF | |
| TOT.LD. | 40.0 PSF | SEQN- | 61244 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228204 |

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

110 mph wind, 20.81 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. $I_w=1.00$ $G C p_i(+/-)=0.18$

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.

Refer to DWG PIGBACK80207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

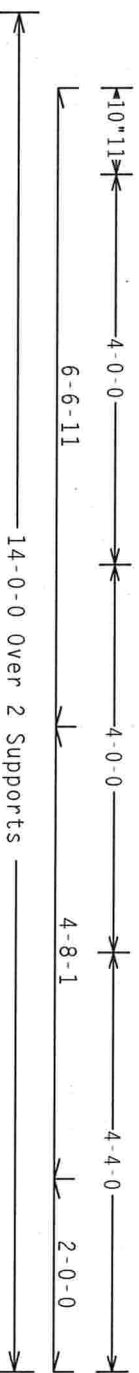
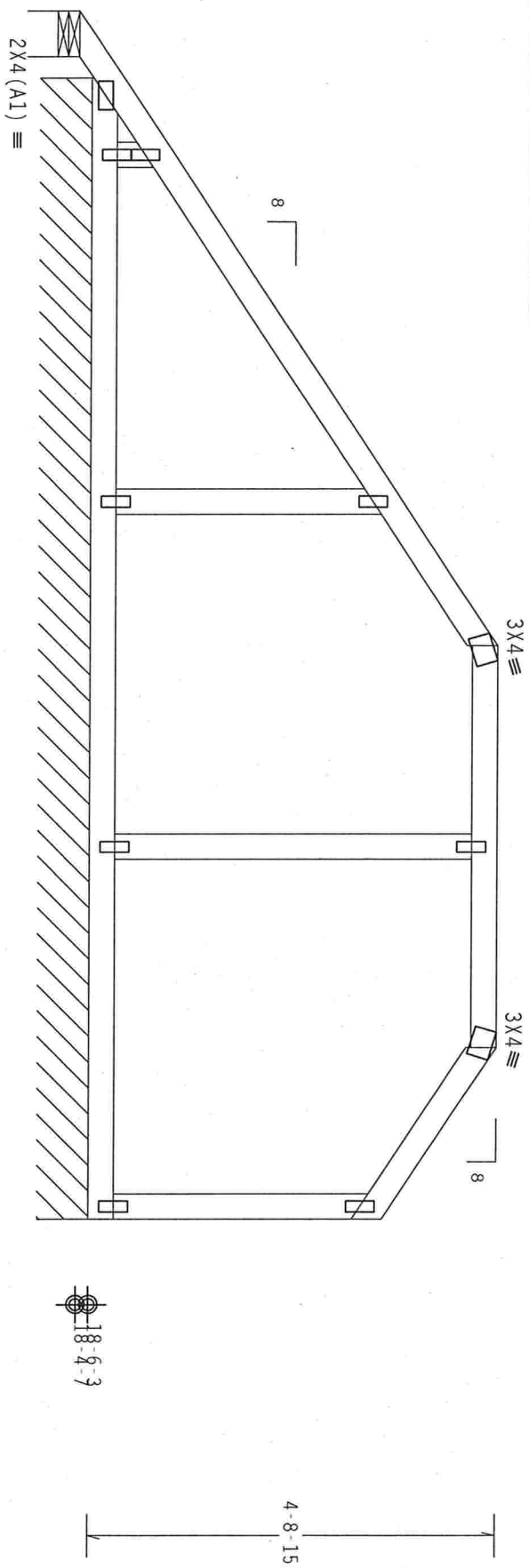
SPECIAL LOADS

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

| | | |
|-----------|--------------------|-----------------|
| TC - From | 64 PLF at 0.00 to | 64 PLF at 7.33 |
| TC - From | 64 PLF at 7.33 to | 64 PLF at 12.00 |
| TC - From | 64 PLF at 12.00 to | 64 PLF at 14.00 |
| BC - From | 4 PLF at 0.00 to | 4 PLF at 14.00 |

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.



R=14 U=40 W=6.31"
R=70 PLF U=26 PLF W=13-2-12

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

7.36.0424.1 QTY:1 FL/-/4/-/E/-/-

Scale = .5"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF 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 THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0778



| | | |
|----------|----------|-----------------------|
| TC LL | 20.0 PSF | REF R8228-45763 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCUR8228 08023086 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEON- 61248 |
| DUR.FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEE8228204 |

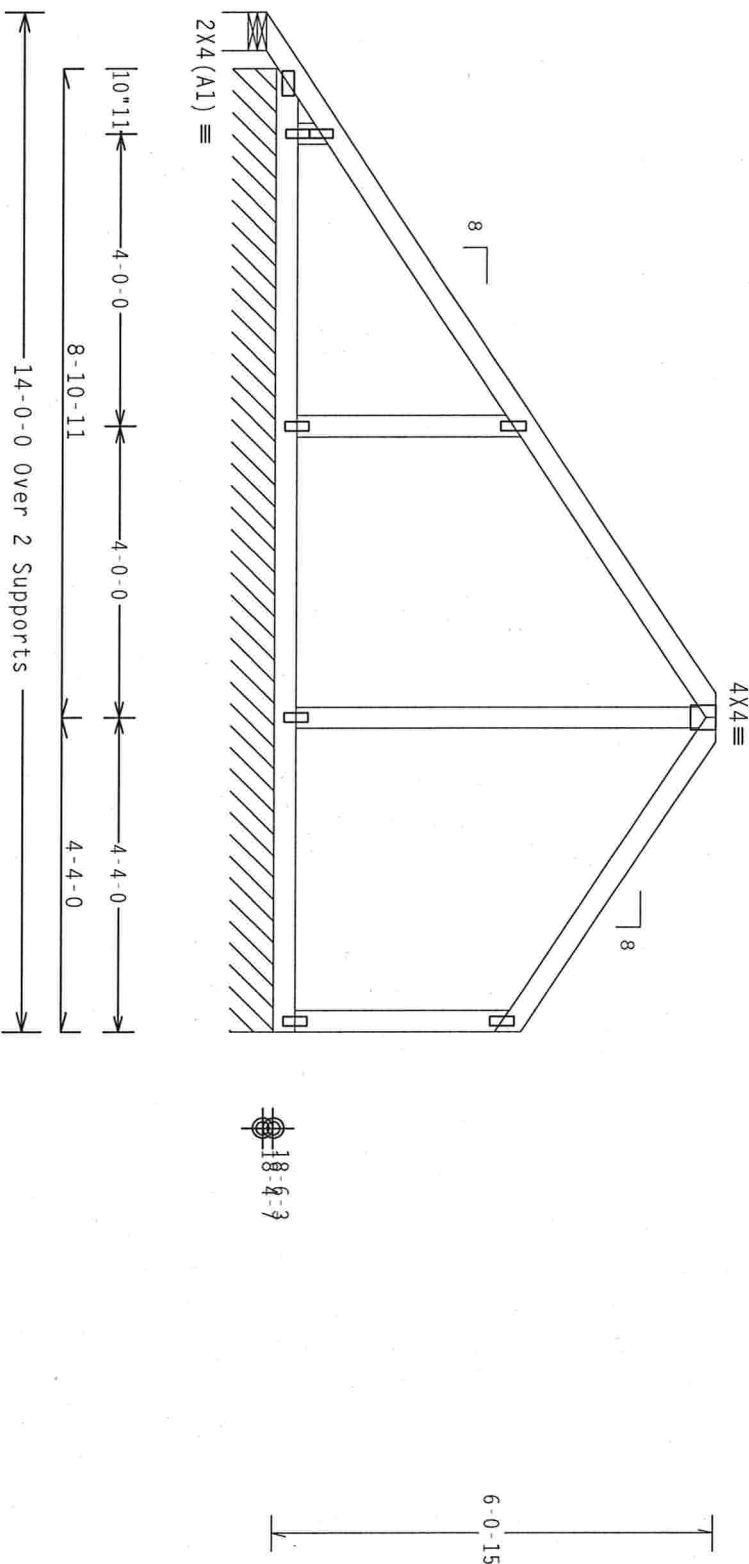
| | Top | chord | 2x4 | SP | #2 | Dense |
|-----|-------|-------|-----|----|-------|-------|
| Bot | chord | 2x4 | SP | #2 | Dense | |
| | webs | 2x4 | SP | #3 | | |

110 mph wind, 21.48 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=2.0 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.

Refer to DWG PIGBACKB0207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



R=14 U=60 W=6.31"
R=66 PLF U=26 PLF W=13-2-12

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

$$\underline{Cq/RT=1.00(1.25)/0(0)}$$

7.36.0424.11

QTY:1

FL/-/4/-/E/-/-

Scale = .375"/Ft.

WARNING—TRUCKS, CRANES, EXTREME CAGE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TROSS PASTE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MICA (WOOD TRUSS COUNCIL OF AMERICA), 6500 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO REFORMING THESE COMPONENTS. UNLESS OTHERWISE INDICATED THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE 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.

DESIGNER OF THE PROJECT AND PROVIDER OF MOST INFORMATION, DESIGN SPECIF., PER M/R/M/I AND T/P...
CONNECTION PLATES ARE MADE OF 20/18/760 (A36/SS/SX) ASST A553 GRADE 40/50 (Q. K./M.) GALV. STEEL. APPLY
PLATES TO EACH FACE OF THUSMS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1600-2.
AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP1-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SLOTTED FOR THE TRUSS COMPONENTS
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.

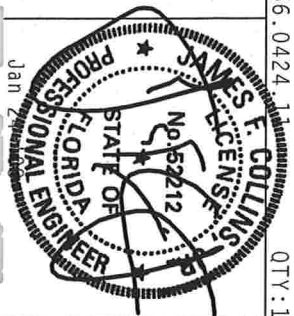
SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 9.33
TC - From 64 PLF at 10.00 to 64 PLF at 14.00
BC - From 4 PLF at 0.00 to 4 PLF at 14.00

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

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844

FL Certificate of Authorization # 0 07376



| FL/-/4/-/E/-/- | | Scale = .375"/ft. |
|----------------|----------|------------------------|
| TC LL | 20.0 PSF | REF R8228 -45764 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCU8R8228 08023101 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- 61252 |
| DUR.FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEE8228Z04 |

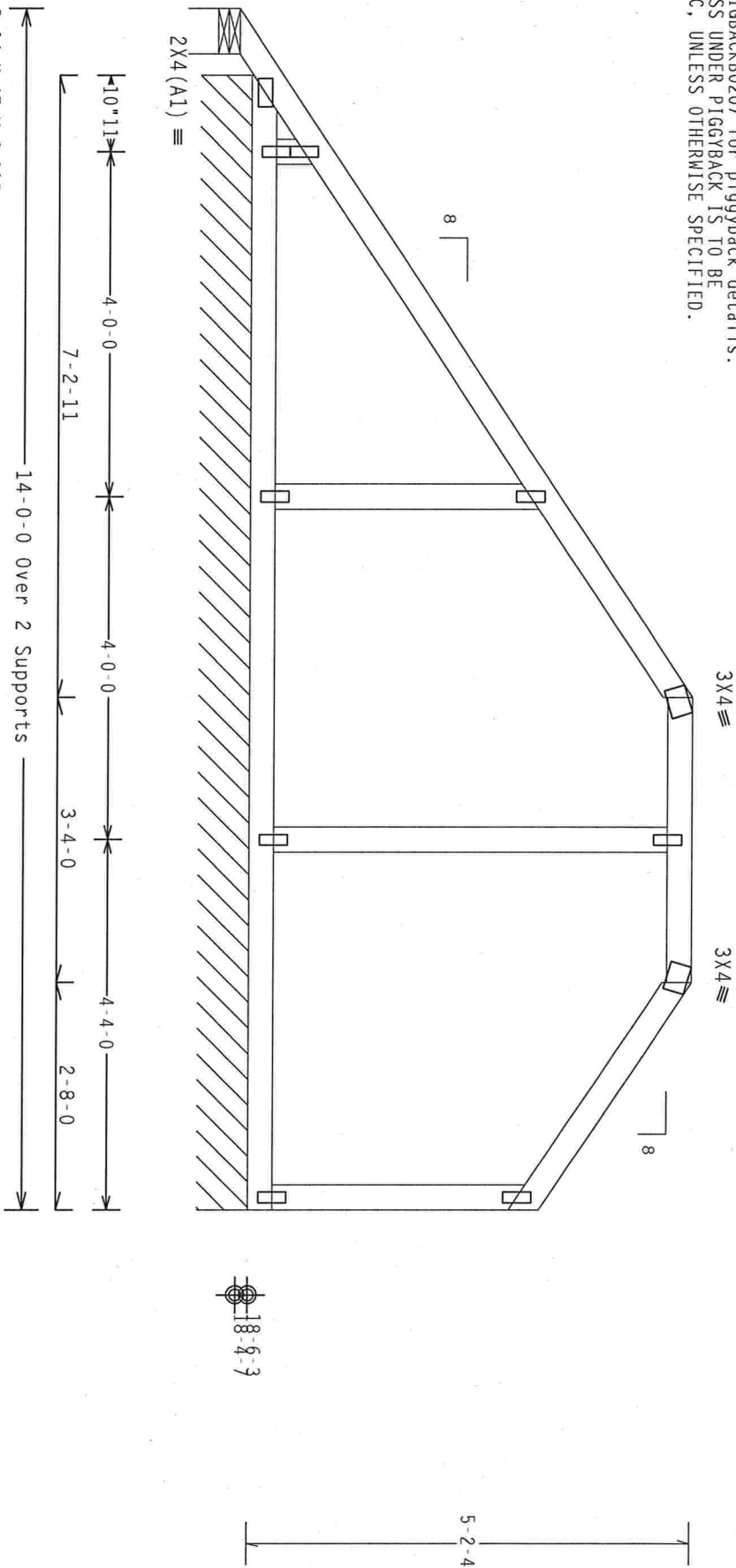
| | | | | |
|-----------|-----|----|----|-------|
| Top chord | 2x4 | SP | #2 | Dense |
| Bot chord | 2x4 | SP | #2 | Dense |
| Web | 2x4 | SP | #3 | |

110 mph wind, 21.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 1I, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. Iw=1.00 Gcpl(+/-)=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.

Refer to DWG PIGBACKB027 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



R=14 U=47 W=6.31"
R=70 PLF U=27 PLF W=13-2-12

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

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

7.36.0424

QTY:1

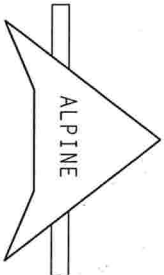
FL/-/4/-/E/-/-

Scale = .5"/Ft.

WARNING: THESE ARE DANGEROUS. THEY INVOLVE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRESS PASTE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND NRC (NATIONAL RESEARCH COUNCIL OF CONSTRUCTION), 6500 ENTERPRISE LANE, MANASSAS, VA, 20108, FOR SAFETY PRACTICES PRIOR TO PERFORMING THE ACTIONS, UNLESS OTHERWISE INDICATED. TWO CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID DETAIL.

IMPORTANT URUSHI A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITM 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.

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0277



| | | | |
|----------|----------|--------|-------------------|
| TC LL | 20.0 PSF | REF | R8228- 45765 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUR8228 08023085 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 61280 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228Z04 |

SPECIAL LOADS

| | | |
|---------------|-----------------------|-----------------|
| ----- (LUMBER | DUR.FAC.=1.25 / PLATE | DUR.FAC.=1.25) |
| TC - From | 64 PLF at 0.00 to | 64 PLF at 8.00 |
| TC - From | 64 PLF at 8.00 to | 64 PLF at 11.34 |
| TC - From | 64 PLF at 11.34 to | 64 PLF at 14.00 |
| BC - From | 4 PLF at 0.00 to | 4 PLF at 14.00 |

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purtins to brace all flat TC @ 24" OC, all BC @ 24" OC.

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

In lieu of structural panels or rigid ceiling use purlins to brace
all flat TC @ 24" OC, all BC @ 24" OC.

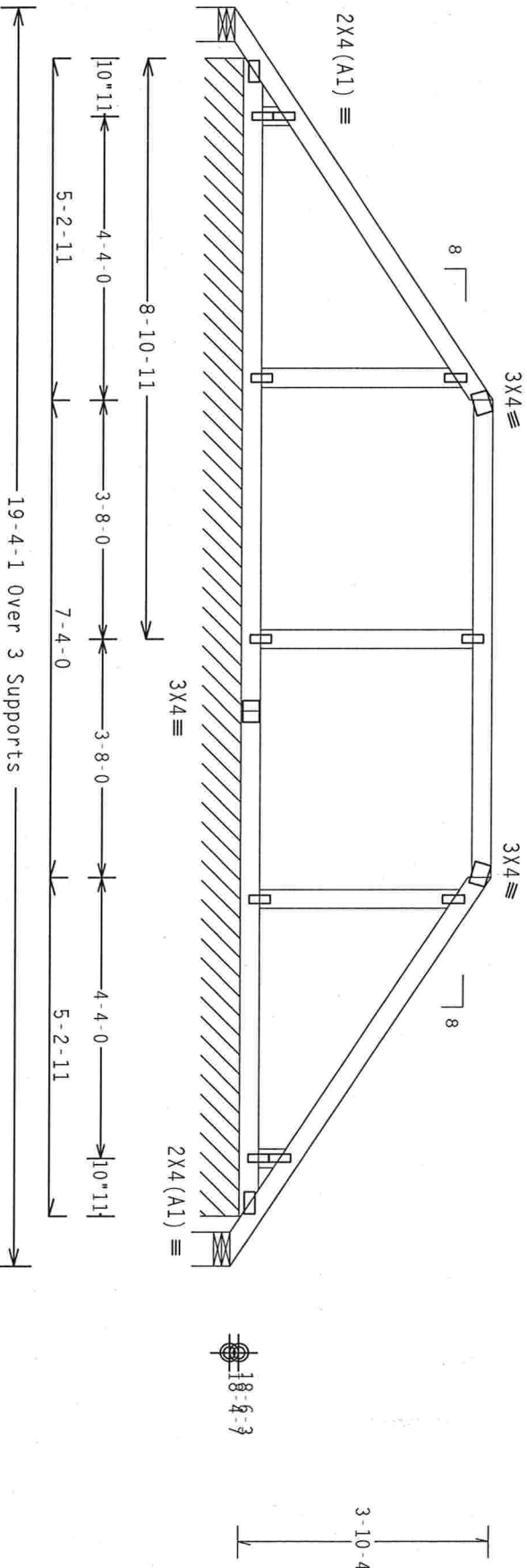
Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.

Refer to DWG PIGBACKB0207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

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

| | | |
|-----------|--------------------|-----------------|
| TC - From | 64 PLF at 0.00 to | 64 PLF at 6.00 |
| TC - From | 64 PLF at 6.00 to | 64 PLF at 13.34 |
| TC - From | 64 PLF at 13.34 to | 64 PLF at 19.34 |
| BC - From | 4 PLF at 0.00 to | 4 PLF at 19.34 |



R=15 W=6.31"
R=70 PLF W=17-9-7

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (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.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization #0-778



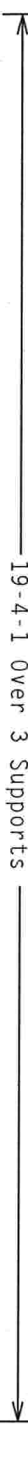
| | | |
|----------|----------------|------------------------|
| OTY:1 | FL/-/4/-/E/-/- | Scale = .375"/ft. |
| TC LL | 20.0 PSF | REF R8228- 45766 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08023065 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT. LD. | 40.0 PSF | SEON- 61294 |
| DUR.FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEF8228Z04 |

THE UNIVERSITY OF CHICAGO (CHICAGO, ILLINOIS) SUBMITTED BY

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 4.00

| TC - From | 64 PLF at 15.34 to | 64 PLF at 19.34 to |
|-----------|--------------------|--------------------|
| BC - From | 4 PLF at 0.00 to | 4 PLF at 19.34 to |

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.



Shown.

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

QTY:1

Scale = .375"/Ft.

JAMES I. BOLLINS
LICENSE
No. 632218
JA

10:0 PM

DRW HLUSK8228 08023114

0.0 PST

HC-ENG DF/DF

TOT.LD. 40.0 PSF

SEQN- 61299

OUR.FAC. 1.25

FROM AH

SPACING 24 0"

1DEC- 1TEEO330704

Jan 24 08

| | | | |
|----------|-------|--------|-------------|
| DUR.FAC. | 1.25 | FROM | AN |
| SPACING | 24.0" | JREF - | ITEE8228Z04 |

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

In lieu of structural panels or rigid ceiling use purlins to brace
all flat TC @ 24" OC, all BC @ 24" OC.

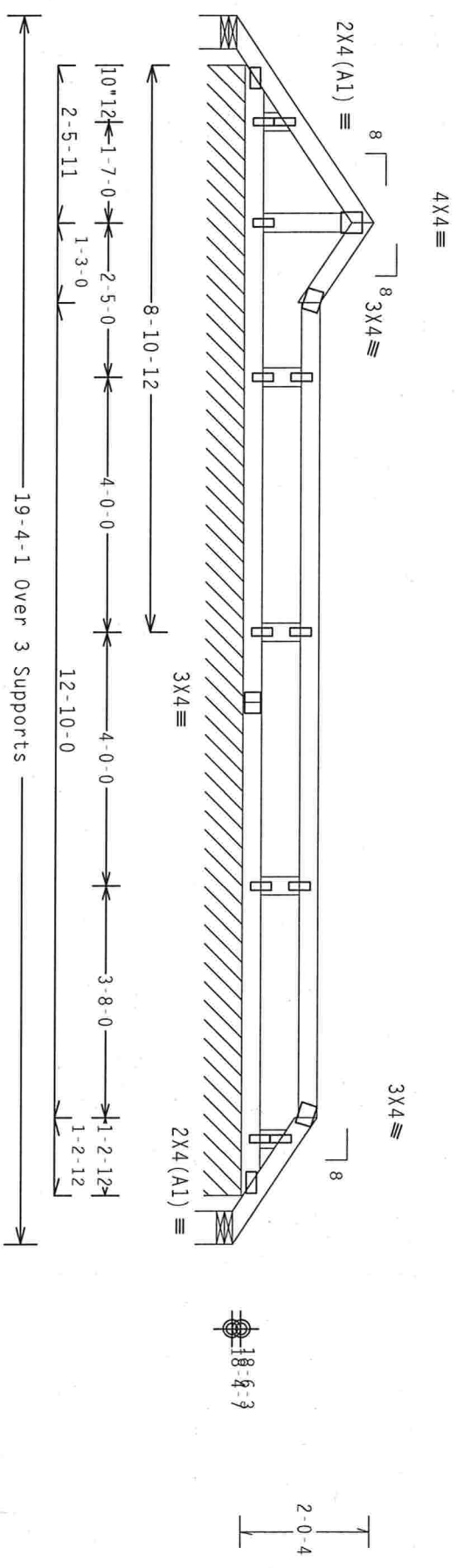
Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.

Refer to DWG PIGBACKB0207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

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

| | | |
|-----------|--------------------|-----------------|
| TC - From | 64 PLF at 0.00 to | 64 PLF at 3.25 |
| TC - From | 64 PLF at 3.25 to | 64 PLF at 4.50 |
| TC - From | 64 PLF at 4.50 to | 64 PLF at 17.34 |
| TC - From | 64 PLF at 17.34 to | 64 PLF at 19.34 |
| BC - From | 4 PLF at 0.00 to | 4 PLF at 19.34 |



Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

QTY: 1

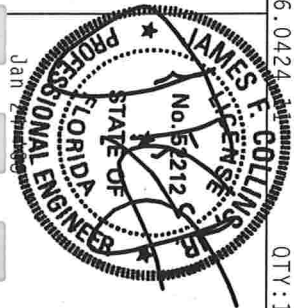
FL/-/4/-/E/-/-

Scale = .375"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS CONNECTOR 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.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0378



| | | |
|----------|----------|------------------------|
| TC LL | 20.0 PSF | REF R8228- 45768 |
| TC DL | 10.0 PSF | DATE 01/23/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08023113 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT. LD. | 40.0 PSF | SECON- 61304 |
| DUR.FAC. | 1.25 | FROM AH |
| SPACING | 24.0" | JREF- 1TEE8228204 |

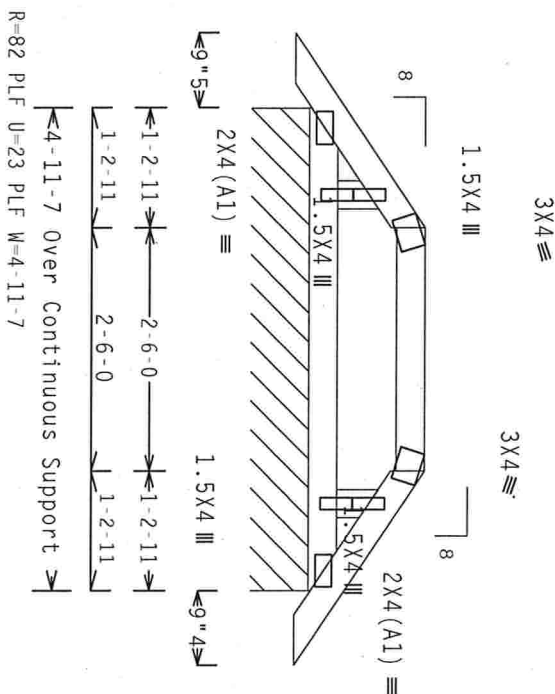
| | Top | chord | 2x4 | SP | #2 | Dense |
|-----|-------|-------|-----|----|-------|-------|
| Bot | chord | 2x4 | SP | #2 | Dense | |
| | Web | 2x4 | SP | #3 | | |

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.

Refer to DWG. PIGBACKB0207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 2.00
TC - From 64 PLF at 2.00 to 64 PLF at 4.50
TC - From 64 PLF at 4.50 to 64 PLF at 6.50
BC - From 4 PLF at 0.00 to 4 PLF at 6.50



R=82 PLF U=23 PLF W=4-11-7

PLT TYP. Wave

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

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

7.36.0424.11

QTY:1

FL/-/4/-/E/-/-

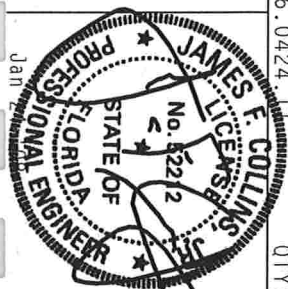
Scale = .5" / Ft.

WARNING TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC-1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNDESIRABLE PROPERTIES INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.

FL Certificate of Authorization # 00778



| | | | |
|----------|----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228 - 45769 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023112 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEON - | 61316 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF - | 1TEE8228Z04 |

PB12)

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 60 PLF at 0.00 to 60 PLF at 18.83

| | BC - From | 4 PLF at 0.00 to | 4 PLF at 20.83 |
|----|---------------|------------------|----------------|
| 1 | 07 LF at 0.00 | 07 LF at 0.00 | 07 LF at 0.00 |
| 2 | 08 LF at 0.00 | 08 LF at 0.00 | 08 LF at 0.00 |
| 3 | 09 LF at 0.00 | 09 LF at 0.00 | 09 LF at 0.00 |
| 4 | 10 LF at 0.00 | 10 LF at 0.00 | 10 LF at 0.00 |
| 5 | 11 LF at 0.00 | 11 LF at 0.00 | 11 LF at 0.00 |
| 6 | 12 LF at 0.00 | 12 LF at 0.00 | 12 LF at 0.00 |
| 7 | 13 LF at 0.00 | 13 LF at 0.00 | 13 LF at 0.00 |
| 8 | 14 LF at 0.00 | 14 LF at 0.00 | 14 LF at 0.00 |
| 9 | 15 LF at 0.00 | 15 LF at 0.00 | 15 LF at 0.00 |
| 10 | 16 LF at 0.00 | 16 LF at 0.00 | 16 LF at 0.00 |
| 11 | 17 LF at 0.00 | 17 LF at 0.00 | 17 LF at 0.00 |
| 12 | 18 LF at 0.00 | 18 LF at 0.00 | 18 LF at 0.00 |
| 13 | 19 LF at 0.00 | 19 LF at 0.00 | 19 LF at 0.00 |
| 14 | 20 LF at 0.00 | 20 LF at 0.00 | 20 LF at 0.00 |
| 15 | 21 LF at 0.00 | 21 LF at 0.00 | 21 LF at 0.00 |
| 16 | 22 LF at 0.00 | 22 LF at 0.00 | 22 LF at 0.00 |
| 17 | 23 LF at 0.00 | 23 LF at 0.00 | 23 LF at 0.00 |
| 18 | 24 LF at 0.00 | 24 LF at 0.00 | 24 LF at 0.00 |
| 19 | 25 LF at 0.00 | 25 LF at 0.00 | 25 LF at 0.00 |
| 20 | 26 LF at 0.00 | 26 LF at 0.00 | 26 LF at 0.00 |
| 21 | 27 LF at 0.00 | 27 LF at 0.00 | 27 LF at 0.00 |
| 22 | 28 LF at 0.00 | 28 LF at 0.00 | 28 LF at 0.00 |
| 23 | 29 LF at 0.00 | 29 LF at 0.00 | 29 LF at 0.00 |
| 24 | 30 LF at 0.00 | 30 LF at 0.00 | 30 LF at 0.00 |
| 25 | 31 LF at 0.00 | 31 LF at 0.00 | 31 LF at 0.00 |
| 26 | 32 LF at 0.00 | 32 LF at 0.00 | 32 LF at 0.00 |
| 27 | 33 LF at 0.00 | 33 LF at 0.00 | 33 LF at 0.00 |
| 28 | 34 LF at 0.00 | 34 LF at 0.00 | 34 LF at 0.00 |
| 29 | 35 LF at 0.00 | 35 LF at 0.00 | 35 LF at 0.00 |
| 30 | 36 LF at 0.00 | 36 LF at 0.00 | 36 LF at 0.00 |
| 31 | 37 LF at 0.00 | 37 LF at 0.00 | 37 LF at 0.00 |
| 32 | 38 LF at 0.00 | 38 LF at 0.00 | 38 LF at 0.00 |
| 33 | 39 LF at 0.00 | 39 LF at 0.00 | 39 LF at 0.00 |
| 34 | 40 LF at 0.00 | 40 LF at 0.00 | 40 LF at 0.00 |
| 35 | 41 LF at 0.00 | 41 LF at 0.00 | 41 LF at 0.00 |
| 36 | 42 LF at 0.00 | 42 LF at 0.00 | 42 LF at 0.00 |
| 37 | 43 LF at 0.00 | 43 LF at 0.00 | 43 LF at 0.00 |
| 38 | 44 LF at 0.00 | 44 LF at 0.00 | 44 LF at 0.00 |
| 39 | 45 LF at 0.00 | 45 LF at 0.00 | 45 LF at 0.00 |
| 40 | 46 LF at 0.00 | 46 LF at 0.00 | 46 LF at 0.00 |
| 41 | 47 LF at 0.00 | 47 LF at 0.00 | 47 LF at 0.00 |
| 42 | 48 LF at 0.00 | 48 LF at 0.00 | 48 LF at 0.00 |
| 43 | 49 LF at 0.00 | 49 LF at 0.00 | 49 LF at 0.00 |
| 44 | 50 LF at 0.00 | 50 LF at 0.00 | 50 LF at 0.00 |
| 45 | 51 LF at 0.00 | 51 LF at 0.00 | 51 LF at 0.00 |
| 46 | 52 LF at 0.00 | 52 LF at 0.00 | 52 LF at 0.00 |
| 47 | 53 LF at 0.00 | 53 LF at 0.00 | 53 LF at 0.00 |
| 48 | 54 LF at 0.00 | 54 LF at 0.00 | 54 LF at 0.00 |
| 49 | 55 LF at 0.00 | 55 LF at 0.00 | 55 LF at 0.00 |
| 50 | 56 LF at 0.00 | 56 LF at 0.00 | 56 LF at 0.00 |
| 51 | 57 LF at 0.00 | 57 LF at 0.00 | 57 LF at 0.00 |
| 52 | 58 LF at 0.00 | 58 LF at 0.00 | 58 LF at 0.00 |
| 53 | 59 LF at 0.00 | 59 LF at 0.00 | 59 LF at 0.00 |
| 54 | 60 LF at 0.00 | 60 LF at 0.00 | 60 LF at 0.00 |
| 55 | 61 LF at 0.00 | 61 LF at 0.00 | 61 LF at 0.00 |
| 56 | 62 LF at 0.00 | 62 LF at 0.00 | 62 LF at 0.00 |
| 57 | 63 LF at 0.00 | 63 LF at 0.00 | 63 LF at 0.00 |
| 58 | 64 LF at 0.00 | 64 LF at 0.00 | 64 LF at 0.00 |
| 59 | 65 LF at 0.00 | 65 LF at 0.00 | 65 LF at 0.00 |
| 60 | 66 LF at 0.00 | 66 LF at 0.00 | 66 LF at 0.00 |
| 61 | 67 LF at 0.00 | 67 LF at 0.00 | 67 LF at 0.00 |
| 62 | 68 LF at 0.00 | 68 LF at 0.00 | 68 LF at 0.00 |
| 63 | 69 LF at 0.00 | 69 LF at 0.00 | 69 LF at 0.00 |
| 64 | 70 LF at 0.00 | 70 LF at 0.00 | 70 LF at 0.00 |
| 65 | 71 LF at 0.00 | 71 LF at 0.00 | 71 LF at 0.00 |
| 66 | 72 LF at 0.00 | 72 LF at 0.00 | 72 LF at 0.00 |
| 67 | 73 LF at 0.00 | 73 LF at 0.00 | 73 LF at 0.00 |
| 68 | 74 LF at 0.00 | 74 LF at 0.00 | 74 LF at 0.00 |
| 69 | 75 LF at 0.00 | 75 LF at 0.00 | 75 LF at 0.00 |
| 70 | 76 LF at 0.00 | 76 LF at 0.00 | 76 LF at 0.00 |
| 71 | 77 LF at 0.00 | 77 LF at 0.00 | 77 LF at 0.00 |
| 72 | 78 LF at 0.00 | 78 LF at 0.00 | 78 LF at 0.00 |
| 73 | 79 LF at 0.00 | 79 LF at 0.00 | 79 LF at 0.00 |
| 74 | 80 LF at 0.00 | | |

110 mph wind, 19.37 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,

Deflection meets L/240 live and L/180 total load. Creep increase

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



Design Crit: $TPI-2002(STD)/FBC$

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

7.36.0424111 QTY:1

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

Scale = .375"/Ft.

BRACING,
ROUTE, 218
A, 6300
UNLESS
SMALL HAVE

JAMES A. COLLINS, JR.
LICENSED
No. 52219

SHALL NOT

STATE OF

ITM BCG
REL. APPLY
1604-2
FLORIDA
WEEK



Professional Engineer

Jan 24 08

PROFESSIONAL ENGINEER
Jan 24 2008

| | | | |
|----------|----------|--------|--------------------|
| TC LL | 20.0 PSF | REF | R8228 - 45770 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023094 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 61419 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228204 |

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

Bearing reaction of -15# at (20-3-11, 18-8-7), requires special connection to resist uplift from loads other than wind.

Wind reactions based on MMFRS pressures.

Left 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.

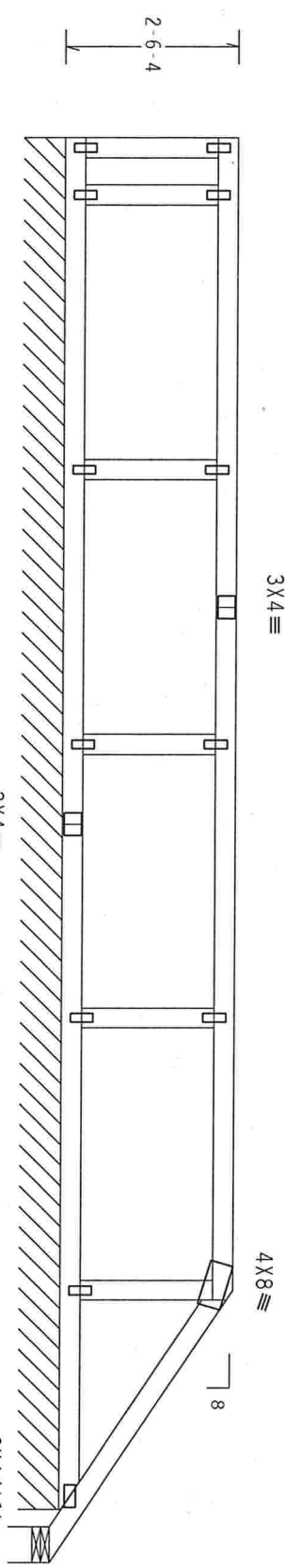
Refer to DWG PIGBACKB0207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 60 PLF at 0.00 to 60 PLF at 16.83
TC - From 64 PLF at 16.83 to 64 PLF at 20.83
BC - From 4 PLF at 0.00 to 4 PLF at 20.83

110 mph wind, 20.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. $I_w=1.00$ $G C p_i(+/-)=0.18$

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



10'-0" 4'-0" 4'-0" 4'-0" 4'-1'-12" 3'-0" 3'-0" 3'-0"

16'-11"-12" 20'-10"-0 Over 2 Supports

R=67 PLF U=22 PLF W=20-0-11

R=15 U=17 W=6.31"

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC

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

7.36.0424.1

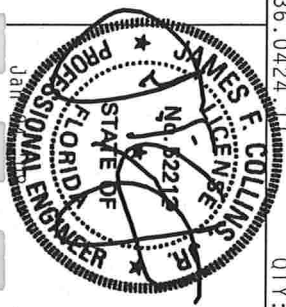
QTY:1 FL/-/4/-/E/-/-

Scale = .375"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (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.

****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 THE TPI OR TRACER/ITW, HANDLING, SHIPPING, INSTALLING & BRACING. BY AERDA AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 6061-T6 ALUMINUM. ALL BOLTS, NUTS, WASHERS, AND STEEL PLATES SHALL BE APPLIED TO EACH FACE OF TRUSS AND UNLESS OTHERWISE INDICATED ON THIS DESIGN PER A SEAL OR THIS 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.

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization #0-778



| | | | |
|----------|----------|--------------|--------------------|
| TC LL | 20.0 PSF | REF | R8228-45771 |
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023068 |
| BC LL | 0.0 PSF | HC-ENG DF/DF | |
| TOT. LD. | 40.0 PSF | SEON- | 61427 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | UREF- | 1TEF8228Z04 |

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

SPECIAL LOADS

------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 60 PLF at 0.00 to 60 PLF at 16.37
TC - From 64 PLF at 16.37 to 64 PLF at 20.83
BC - From 4 PLF at 0.00 to 4 PLF at 20.83

110 mph wind, 20.19 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=2.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

Left 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.

Refer to DWG PIGBACKB0207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

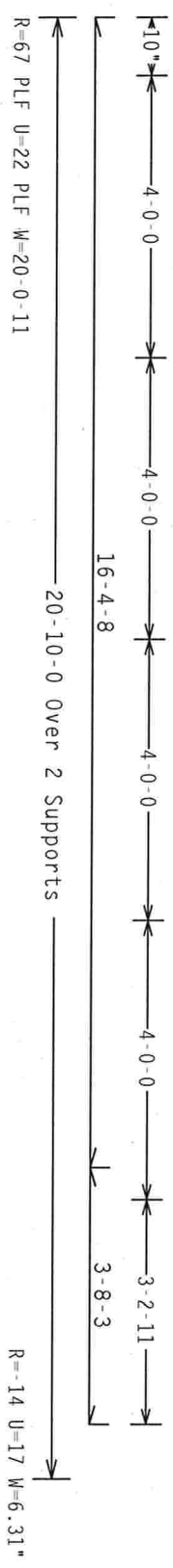
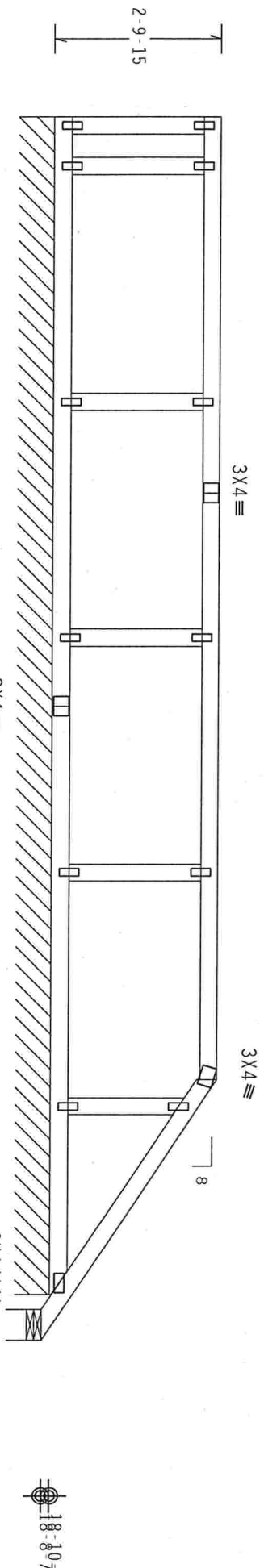
3 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Bearing reaction of -13# at (20-3-11, 18-8-7), requires special connection to resist uplift from loads other than wind.

Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.



Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

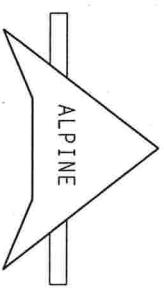
7.36.0421 COLLINS

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

Scale = .375"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS CONNECT 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.

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 THE: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITW BCG CONTRACTORS WITH APPLICABLE PROVISIONS OF MOS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. CONSTRUCTION WITH APPLICABLE PROVISIONS OF MOS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC.3. 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.



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization #0-778



| TC LL | 20.0 PSF | REF | R8228-45772 |
|----------|----------|--------------|--------------------|
| TC DL | 10.0 PSF | DATE | 01/23/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08023067 |
| BC LL | 0.0 PSF | HC-ENG DF/DF | |
| TOT.LD. | 40.0 PSF | SEON- | 61432 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TEE8228Z04 |

CLB WEB BRACE SUBSTITUTION

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

NOTES:

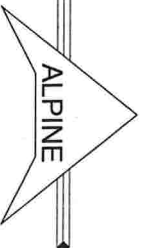
THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

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

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

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

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



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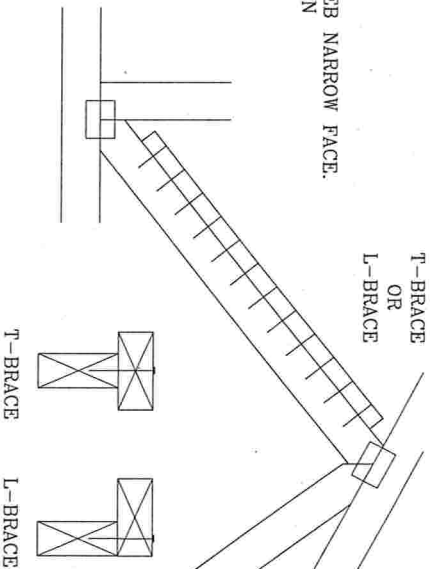
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314, AND VITA (VOID TRUSS CONSTRUCTION) PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED.

PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN ACCORDANCE WITH THE FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITV BCG CONNECTOR PLATES TO BE USED FOR EACH OF THE TRUSSES AND, UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY CD SHALL BE PER ANNEK A3 OF TPI 1-2002 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.

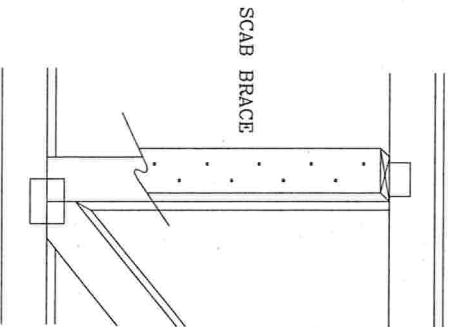
T-BRACING OR L-BRACING:

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:

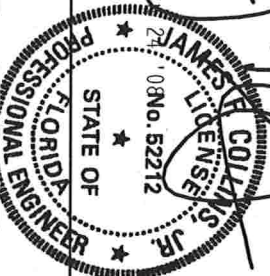
APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d BOX OR GUN
(0.128" x 3" MIN) NAILS.
AT 6" O.C. BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579.640

| | | | |
|----------|-----|------|--------------|
| 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 | | |

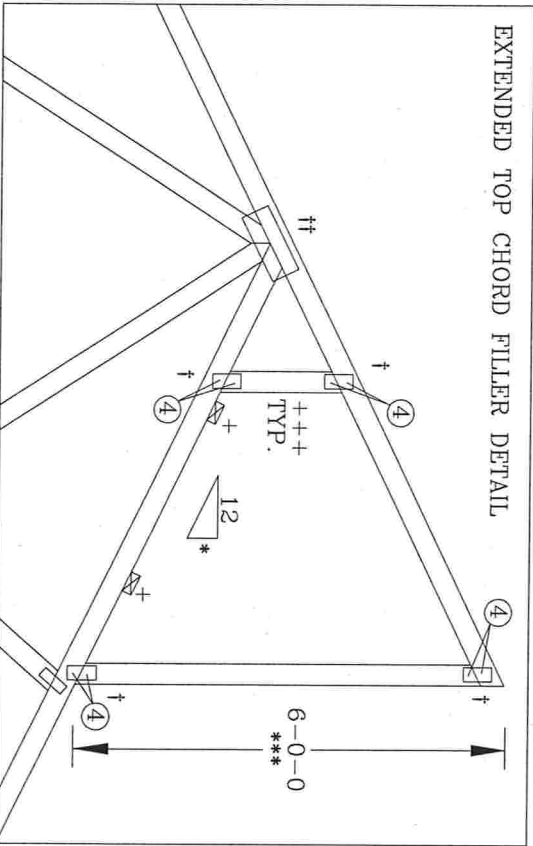
DUR. FAC.
SPACING



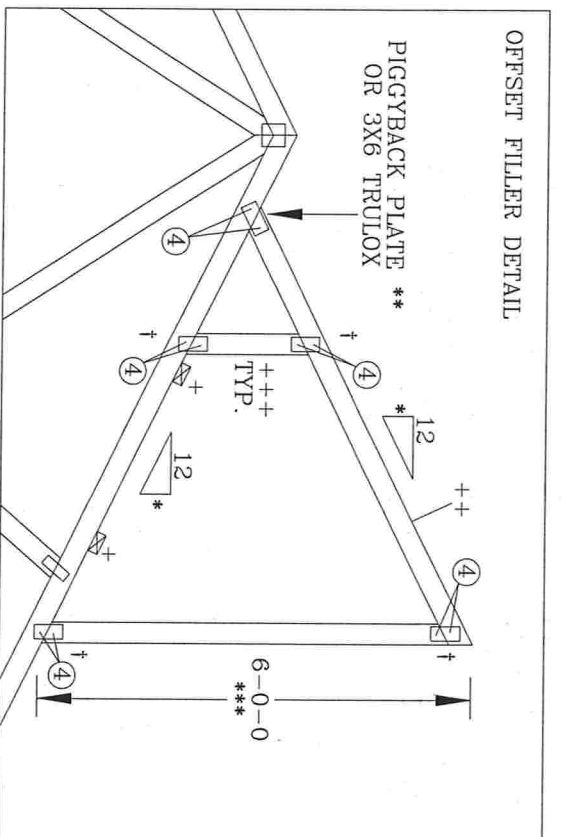
TOP CHORD FILLER DETAIL

- + 2X4 CONTINUOUS LATERAL BRACING AT 24" O.C. MAXIMUM SPACING. ATTACH TO EACH TOP CHORD WITH (2) 16d COMMON (0.162"x 3.5", MIN) NAILS.
- BRACING MATERIAL TO BE SUPPLIED AND ATTACHED AT BOTH ENDS TO A SUITABLE SUPPORT BY ERECTION CONTRACTOR.
- ++ 2X4 SO. PINE #2 N OR SPF #1/#2 FILLER TOP CHORD.
- +++ 2X4 SO. PINE #3 OR SPF #1/#2 VERTICAL WEBS SPACED 48" OC MAXIMUM.
- * 8/12 MAXIMUM PITCH.
- ** 2X8.25 PIGGYBACK SPECIAL PLATE. SEE DRAWING PIGBACKB0699 FOR PIGGYBACK SPECIAL PLATE INFORMATION.
- *** 6'0" MAXIMUM HEIGHT.
- † W2X4 OR 3X6 TRULOX.
- †† REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.
- 0.120"x 1.375" NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF EACH TRUSS PLY. SEE DWG. 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS

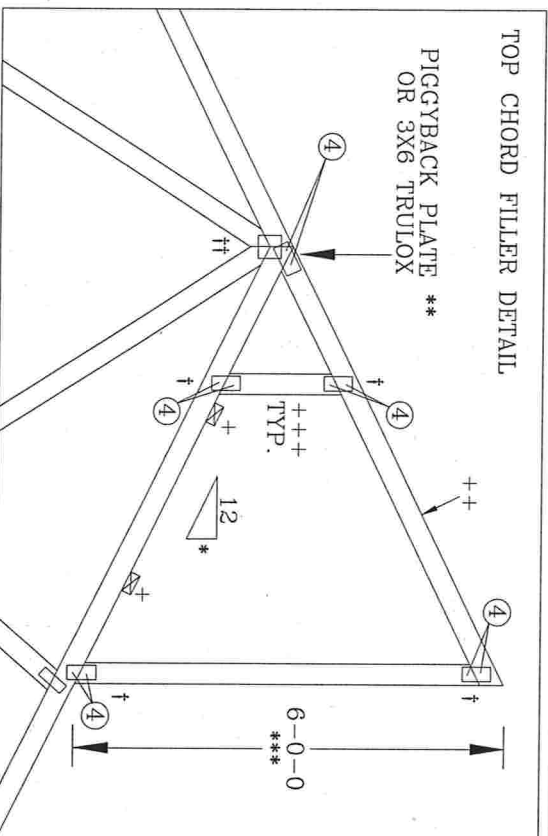
EXTENDED TOP CHORD FILLER DETAIL



OFFSET FILLER DETAIL



TOP CHORD FILLER DETAIL



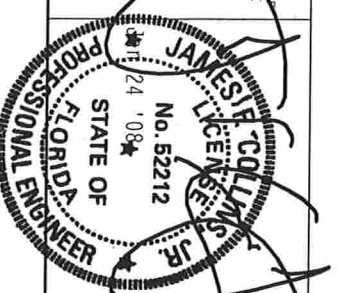
THIS DRAWING REPLACES DRAWING 884.080

ALPINE

TRUSS BUILDING COMPONENTS GROUP, INC.
POMPAHO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE SYSTEMS, 1000 ENTERPRISE DRIVE, SUITE 312, ALEXANDRIA, VA 22304 AND VITA CLOUD TRUSS CONDUCTOR FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE A PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN ACCORDANCE WITH THE DESIGN, OR ANY DAMAGE TO THE TRUSS DURING FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONCEPTS WITH NO FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITV BCG CONNECTOR PLATES ARE MADE OF 2024-T3 ALUMINUM, 1/4" THICK, 10660 (A/K/A 5353) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE SPECIFIED, THE PLATES SHALL BE PER DESIGN, POSITION PER DRAWINGS 160A-2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



| TC LL | MAX 30 PSF | REF | TC-FILLER |
|-----------|--------------|------|--------------|
| TC DL | MAX 15 PSF | DATE | 2/23/07 |
| BC DL | MAX 10 PSF | DRWG | TCFILLER0207 |
| BC LL | 0 PSF | -ENG | SJP/KAR |
| TOT. LD. | MAX 55 PSF | | |
| DUR. FAC. | 1.15 OR 1.33 | | |
| SPACING | 24.0" | | |

BOTTOM CHORD FILLER DETAIL

* OPTIONAL INTERIOR OR CANTILEVER BEARING. MINIMUM PLATE SIZES (1X3 WAVE) MAY BE USED IF BEARING IS OMITTED. WEDGE OR VERTICAL MEMBER MUST COINCIDE WITH BEARING LOCATION.

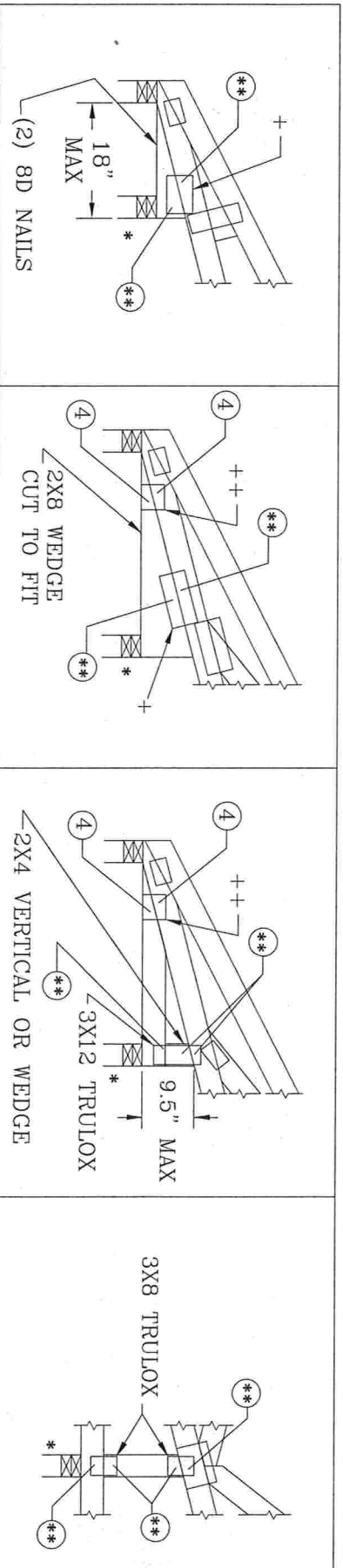
+ 3X4 WAVE OR 4X8 TRULOX
++ 2X4 WAVE OR 3X6 TRULOX

0.120" X 1.375", NAILS, REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF THE TRUSS. SEE DWG. 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.

ALL TRULOX PLATES SHOWN ARE MINIMUMS. LARGER PLATES MAY BE REQUIRED TO ACCOMMODATE REQUIRED NAILS (**)

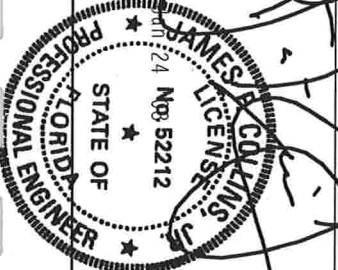
| FILLER BOTTOM CHORD OR WEDGE SPECIES | MAXIMUM REACTION | | MINIMUM BEARING AREA | ** REQUIRED NAILS PER FACE WITH TRULOX PLATES | | | | | |
|--------------------------------------|------------------|--------|----------------------|---|-------------|-------------|-------------|-------------|--|
| | DOWNWARD | UPLIFT | | 1.00 D.O.L. | 1.15 D.O.L. | 1.25 D.O.L. | 1.33 D.O.L. | 1.60 D.O.L. | |
| DOUGLAS FIR-LARCH | 3281# | 1656# | 1.5" X 3.5" | 12 | 11 | 10 | 9 | 8 | |
| HEM-FIR | 2126# | 1095# | 1.5" X 3.5" | 9 | 8 | 7 | 7 | 6 | |
| SPRUCE-PINE-FIR | 2231# | 1192# | 1.5" X 3.5" | 10 | 9 | 8 | 8 | 6 | |
| SOUTHERN PINE DENSE | 3465# | 1791# | 1.5" X 3.5" | 12 | 11 | 10 | 9 | 8 | |
| SOUTHERN PINE | 2966# | 1492# | 1.5" X 3.5" | 10 | 9 | 8 | 8 | 7 | |
| SOUTHERN PINE NON-DENSE | 2520# | 1343# | 1.5" X 3.5" | 9 | 8 | 7 | 7 | 6 | |



ITV BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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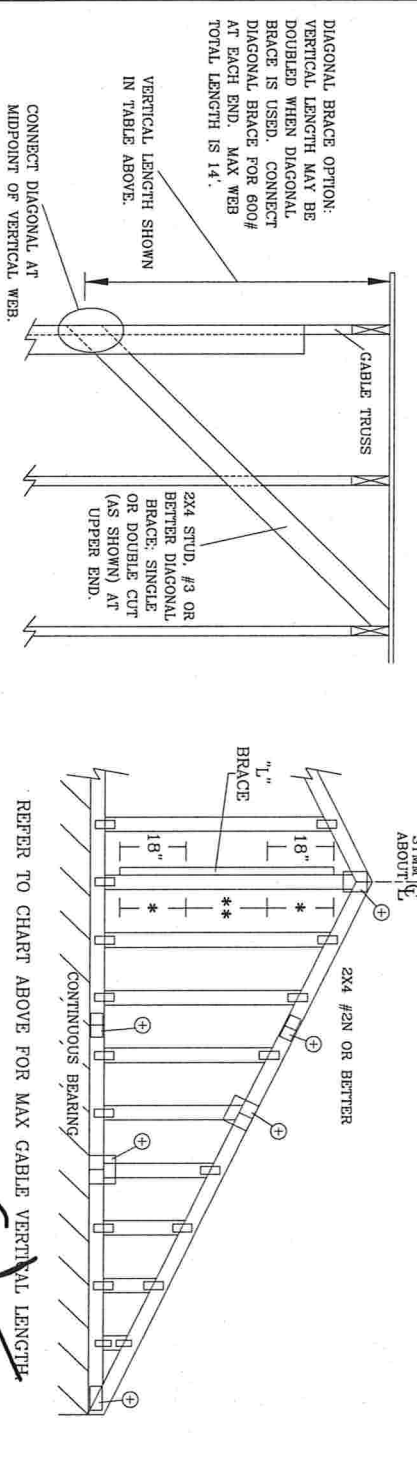
IMPROVANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN ACCORDANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONTRACTORS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. GALV. STEEL PLATES. THE EACH PLATE OF 160A/2 (V.A./SS/2) AND 160B/2 (V.A./SS/2) SHALL BE PER DESIGN, POSITION PER DRAWINGS 160A-2, ANY INSPECTION OF PLATES FOLLOWED BY A SEAL, BE PER 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.



THIS DRAWING REPLACES DRAWINGS A115 A115/R & 804.132

| | | | | |
|-----------|--------------------|-----|------|--------------|
| TC LL | — | PSF | REF | BC FILLER |
| TC DL | — | PSF | DATE | 2/23/07 |
| BC DL | 10.0 | PSF | DRWG | BCFILLER0207 |
| BC LL | — | PSF | — | ENG DL/KAR |
| TOT. LD. | — | PSF | | |
| DUR. FAC. | 1.0/1.15/1.25/1.33 | | | |
| SPACING | 24.0" | | | |

| 2x4 GABLE VERTICAL LENGTH | | BRACE | | NO BRACES | | (1) 1x4 "L" BRACE * | | (1) 2x4 "L" BRACE * | | (2) 2x4 "L" BRACE * | | (1) 2x6 "L" BRACE * | | (2) 2x6 "L" BRACE ** | |
|---------------------------|---------|-------------|--------|-----------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|----------------------|---------|
| GABLE VERTICAL SPACING | SPECIES | BRACE GRADE | BRACES | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B |
| 12" O.C. | SPF | #1 / #2 | 3' 10" | 6' 8" | 6' 10" | 7' 11" | 8' 1" | 9' 5" | 9' 5" | 12' 4" | 12' 4" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | SPF | #3 | 3' 9" | 6' 0" | 6' 0" | 7' 11" | 7' 11" | 9' 5" | 9' 5" | 12' 4" | 12' 4" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | HF | STANDARD | 3' 9" | 6' 0" | 6' 0" | 7' 11" | 7' 11" | 9' 5" | 9' 5" | 12' 3" | 12' 3" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | SP | #1 | 4' 3" | 6' 8" | 7' 2" | 7' 11" | 8' 6" | 9' 5" | 10' 2" | 12' 5" | 13' 5" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | SP | #2 | 4' 2" | 6' 8" | 7' 2" | 7' 11" | 8' 6" | 9' 5" | 10' 2" | 12' 5" | 13' 5" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| 16" O.C. | DFL | STANDARD | 4' 0" | 6' 1" | 6' 2" | 7' 11" | 8' 0" | 9' 5" | 9' 11" | 12' 5" | 12' 8" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | SPF | #1 / #2 | 3' 10" | 5' 3" | 5' 3" | 6' 11" | 6' 11" | 9' 4" | 9' 4" | 10' 10" | 10' 10" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | SPF | #3 | 4' 4" | 7' 4" | 7' 4" | 9' 1" | 9' 1" | 10' 10" | 10' 10" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | HF | STANDARD | 4' 4" | 7' 4" | 7' 4" | 9' 1" | 9' 1" | 10' 10" | 10' 10" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | SP | #1 | 4' 10" | 7' 8" | 8' 3" | 9' 1" | 9' 9" | 10' 10" | 11' 8" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| 24" O.C. | SP | #2 | 4' 9" | 7' 8" | 8' 3" | 9' 1" | 9' 9" | 10' 10" | 11' 8" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | DFL | STANDARD | 4' 6" | 7' 6" | 7' 6" | 9' 1" | 9' 6" | 10' 10" | 11' 4" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | SPF | #1 / #2 | 4' 5" | 7' 8" | 7' 10" | 9' 1" | 9' 4" | 10' 10" | 11' 1" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | SPF | #3 | 4' 4" | 7' 4" | 7' 4" | 9' 1" | 9' 1" | 10' 10" | 10' 10" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | HF | STANDARD | 4' 4" | 7' 4" | 7' 4" | 9' 1" | 9' 1" | 10' 10" | 10' 10" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |



ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-02-GAB11015

DATE 2/23/07

DRWG A11015EEO207

ENG

| BRACING GROUP SPECIES AND GRADES: | |
|-----------------------------------|---------------|
| GROUP A: | |
| SPRUCED PINE-FIR | HFM-PIN |
| #1 / #2 STANDARD | #2 STUD |
| #3 STUD | #3 STANDARD |
| GROUP B: | |
| DOUGLAS FIR-LARCH | SOUTHERN PINE |
| #1 STUD | #3 STUD |
| #2 STANDARD | #3 STANDARD |

| 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, SPACE, AND HEEL PLATES.

CABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

ATTACH EACH "L" BRACE WITH 10d NAILS.

* FOR (1) "L" BRACE: SPACE NAILS AT 2' 0" O.C. IN 18" END ZONES AND 4' 0" O.C. BETWEEN ZONES.

** FOR (2) "L" BRACES: SPACE NAILS AT 3' 0" O.C. IN 18" END ZONES AND 6' 0" O.C. BETWEEN ZONES.

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

Diagram illustrating the connection of a cable to a girder, showing the cable vertical length (TYP.) and the connection points (marked with +).

Labels in the diagram include:

- SYM. ABOUT
- CABLE VERTICAL LENGTH TYP.
- +

Table specifications:

| | |
|---|---------------------|
| + | LESS THAN 4' 0" |
| + | GREATER THAN 4' 0" |
| + | LESS THAN 11' 6" |
| + | GREATER THAN 11' 6" |

EXAMPLE:

2

REFER TO ENGINEER FOR SPECIFICATIONS AND DETAILS

* IF CABLE VERTICAL LENGTH IS GREATER THAN 11' 6", REFER TO ENGINEER FOR SPECIFICATIONS AND DETAILS

PROVIDE CONNECTIONS FOR TRUSS MEMBERS ON THE OTHER SIDE OF THE TRUSS

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

(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 SBCI WIND LOAD.

ASCE 7-93 CABLE DETAIL DRAWINGS

ASCE 7-98 CABLE DETAIL DRAWINGS

ASCE 7-98 CABLE DETAIL DRAWINGS

A13030EC0307 A13030EC0307 A10030EC0307 A08530EC0307
A13013EC0207, A12013EC0207, A1013EC0207, A08313EC0207,
A13030EC0307 A13030EC0307 A10030EC0307 A08530EC0307

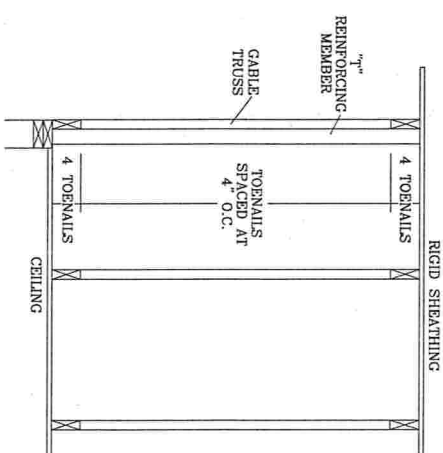
ASCE 7-02 CABLE DETAIL DRAWINGS

A13013EE0207, A12013EE0207, A10013EE0207, A08513EE0207,
A12030EE0207, A12030EE0207, A10030EE0207, A08530EE0207,

ASCE 7-05 CABLE DETAIL DRAWINGS

AI3030E50207, AI2030E50207, AI1030E50207, A08530E50207
AI3015E50207, AI2015E50207, AI1015E50207, A08515E50207,
AI3030E50207, AI2030E50207, AI1030E50207, A08530E50207

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



THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

TO CONVERT FROM "L" TO "r" REINFORCING MEMBERS
MULTIPLY "r" 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
SBCI WIND LOAD.

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

WEB LENGTH INCREASE W/T BRACE

| WIND SPEED AND MRH | | " ^{WIND} " REINF. MBR. SIZE | SBCI | 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 | 20 % | 10 % | |
| 30 FT | 2x6 | 30 % | 50 % | |
| 80 MPH | 2x4 | 10 % | 10 % | |
| 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 1

ASCE WIND SPEED = 100 MPH

CABLE VERTICAL. = 24" OC SP #3

"T" REINFORCING MEMBER SIZE = 2X4

(1) 2×4 "1" BRACE LENGTH = 6' 7"

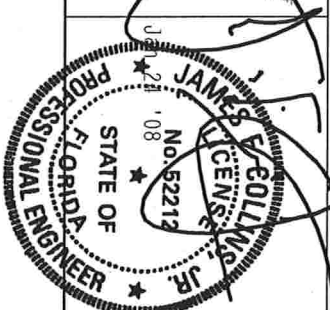
MAXIMUM "T" REINFORCED CABLE VERTICAL LENGTH

$$1.10 \times 6 \times 1 = 6.6$$


ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRING EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING PLASMA BRACING, REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE CRUSS PLASMA BRACING GROUP, 608 ENTERPRISE DRIVE, SUITE 312, ALEXANDRIA, VA 22314 AND WFOA CLOUD TRUSS CONSULTANTS, INC., 7000 E. HIGHWAY 90, SUITE 100, DENVER, CO 80231 FOR ADDITIONAL INFORMATION REGARDING THE FUNCTIONS, UNLESS OTHERWISE INDICATED, THIS CHORD SHALL HAVE PROPERLY ATTACHED STROUTS/PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR, ITV BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF, NIS NATIONAL DESIGN SPEC, BY ASPEA AND THE FOLLOWING BCG ENGINEERING DRAWINGS. THE MORE DETAILED ACH/SPS, STH 4453 GRADE 40/60, C/A/K/S, GALVAZ BEG ENGINEERED PER PLATES 1-7 AND SECTION OF PLATES FIELDED AND WELDED IN THE PERMISSIBLE POSITION PER PLATES 1504-7 AND CONNECTION OF PLATES FIELDED AND WELDED IN THE PERMISSIBLE ANGLE AS OF TPI-1-2002 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 MSMT/TP1 SEC. 2.



| | |
|---------------------|--|
| 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

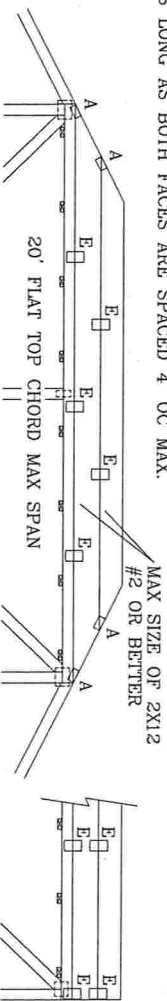
PIGGYBACK DETAIL

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

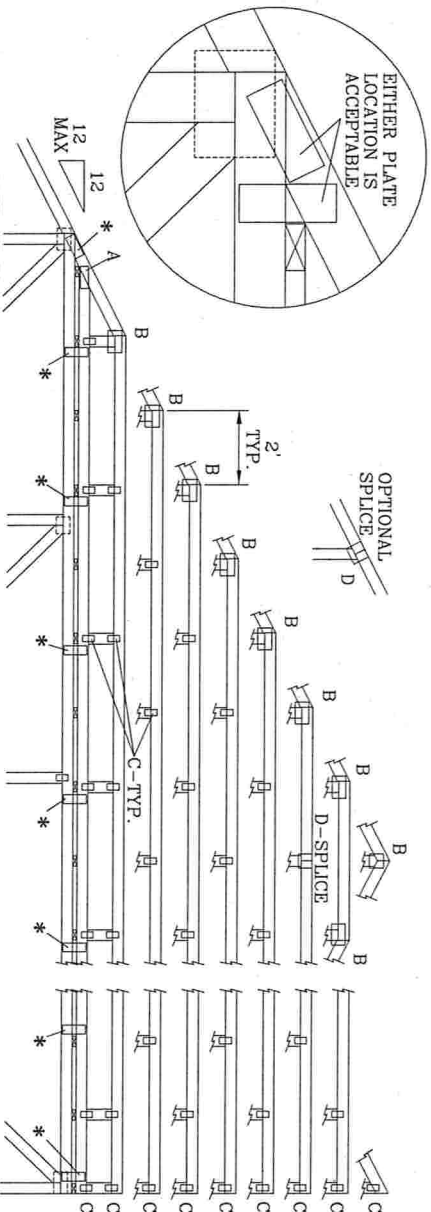
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

130 MPH WIND, 30' MEAN HGT, ASCE 7-98, ASCE 7-02 OR
ASCE 7-05, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II,
EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF
110 MPH WIND, 30' MEAN HGT, SRC
ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF
WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (E.*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4" OC MAX.



EITHER PLATE
LOCATION IS
ACCEPTABLE



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

THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 847.045

(4) 6d BOX (0.099"x 2", MIN) NAILS.

8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES, ATTACH WITH (8) 6d BOX (0.099" X 2", MIN) NAILS PER GUSSET.

(4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

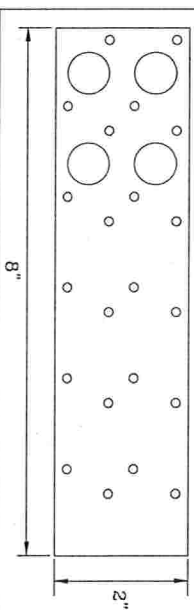
| JOINT
TYPE | SPANS UP TO | | | |
|---------------|--|-------|-------|-------|
| | 30' | 34' | 36' | 52' |
| A | 2X4 | 2.5X4 | 2.5X4 | 3X5 |
| B | 4X6 | 5X6 | 5X6 | 5X6 |
| C | 1.5X3 | 1.5X4 | 1.5X4 | 1.5X4 |
| D | 5X4 | 5X5 | 5X5 | 5X6 |
| E | 4X6 OR 3X6 TRUSS AT 4' OC,
ROTATED VERTICALLY | | | |

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

| WEB BRACING CHART | |
|-------------------|--|
| WEB LENGTH | REQUIRED BRACING |
| 0' TO 7'9" | NO BRACING |
| 7'9" TO 10' | 1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d BOX (0.113" X 2.5" MIN) NAILS AT 4" OC. |
| 10' TO 14' | 2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d BOX (0.135" X 3.5" MIN) NAILS AT 4" OC. |

* PIGGYBACK SPECIAL PLATE

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

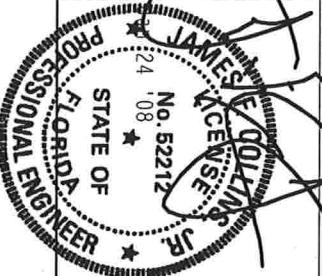


ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO BCCL BUILDING COMPONENTS SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22304 AND VICA CAVOD TRUSS CONSULTING, INC., 6300 ENTERPRISE LN., MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. TIV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD TO THIS DESIGN, OR CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING, AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC., BY AF&PA AND TPI. TIV BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA C/US/A578 A578 A653 GRADE 40/60 C/A/K/HSS GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY GD SHALL BE PER FORMED BY THE RESPONSE TEAM. A SEAL ON THIS DRAWING INDICATES APPROVAL OF PROFESSIONAL ENGINEER'S RESPONSE. SEE 3.1.1. FOR DESIGN SIGNING AND SEALING REQUIREMENTS. THE SIGNATURE AND SEAL OF THIS COMPANY FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER UBC/TP/1, SEC. 2.



| | | |
|----------------|-------|--------------|
| MAX LOADING | REF | PIGGYBACK |
| 55 PSF AT | DATE | 2/23/07 |
| 1.33 DUR. FAC. | DRWG | PIGBACKB0207 |
| 50 PSF AT | -ENG | DLJ/KAR |
| 1.25 DUR. FAC. | | |
| 47 PSF AT | | |
| 1.15 DUR. FAC. | | |
| SPACING | 24.0" | |

This instrument prepared by:
William J. Haley, Esquire
Brannon, Brown,
Haley & Bullock, P. A.
P. O. Box 1029
Lake City, FL 32056-1029

Inst:2005028716 Date:11/17/2005 Time:14:06
Doc Stamp-Deed : 1043.70
16 DC, P. DeWitt Cason, Columbia County B:1065 P:1227

SPECIAL WARRANTY DEED

THIS INDENTURE, made this 16th day of November, 2005, between **JERRY COOK**, a married man, who does not reside on the property, but who resides at 314 Cannon Creek Drive, Lake City, Florida 32055, hereinafter referred to as Grantor, and **SPARKS CONTRACTORS, INC.**, a Florida corporation, having a mailing address of 162 SW Country Court, Lake City FL 32024, hereinafter referred to as Grantee.

WITNESSETH: That said Grantor, for and in consideration of the sum of \$10.00 and other good and valuable considerations to said Grantor in hand paid by said Grantee, the receipt and sufficiency of which are hereby acknowledged, have granted, bargained and sold to the said Grantee, and Grantee's successors and assigns forever, the following described land, situate, lying and being in **Columbia County, Florida**, to-wit:

Lot(s) 3, 5, and 6, **ROLLING MEADOWS**, a subdivision according to the plat thereof, as recorded in Plat Book 8, pages 45 and 46, public records of Columbia County, Florida.

PARCEL NO. Part of 15-4S- [REDACTED]

SUBJECT TO: Taxes and special assessments for the year 2005 and subsequent years; restrictions, reservations, rights of way for public roads, easements of record, if any; and zoning and any other governmental restrictions regulating the use of the lands.

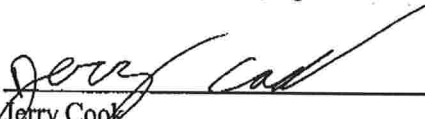
and said Grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons claiming by, through or under said Grantor.

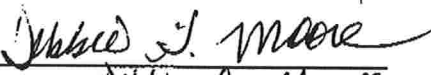
IN WITNESS WHEREOF, Grantor has hereunto set its hand and seal the day and year first above written.

Signed, sealed and delivered
in the presence of:

Inst:2005028716 Date:11/17/2005 Time:14:06
Doc Stamp-Deed : 1043.70
DC, P. DeWitt Cason, Columbia County B:1065 P:1228


Print Name: William J. Hakey


Jerry Cook


Print Name: Debbie G. Moore

**STATE OF FLORIDA
COUNTY OF COLUMBIA**

The foregoing instrument was acknowledged before me this 16th day of November, 2005, by Jerry Cook, who is personally known to me or whom produced FL Driver's License, as identification.

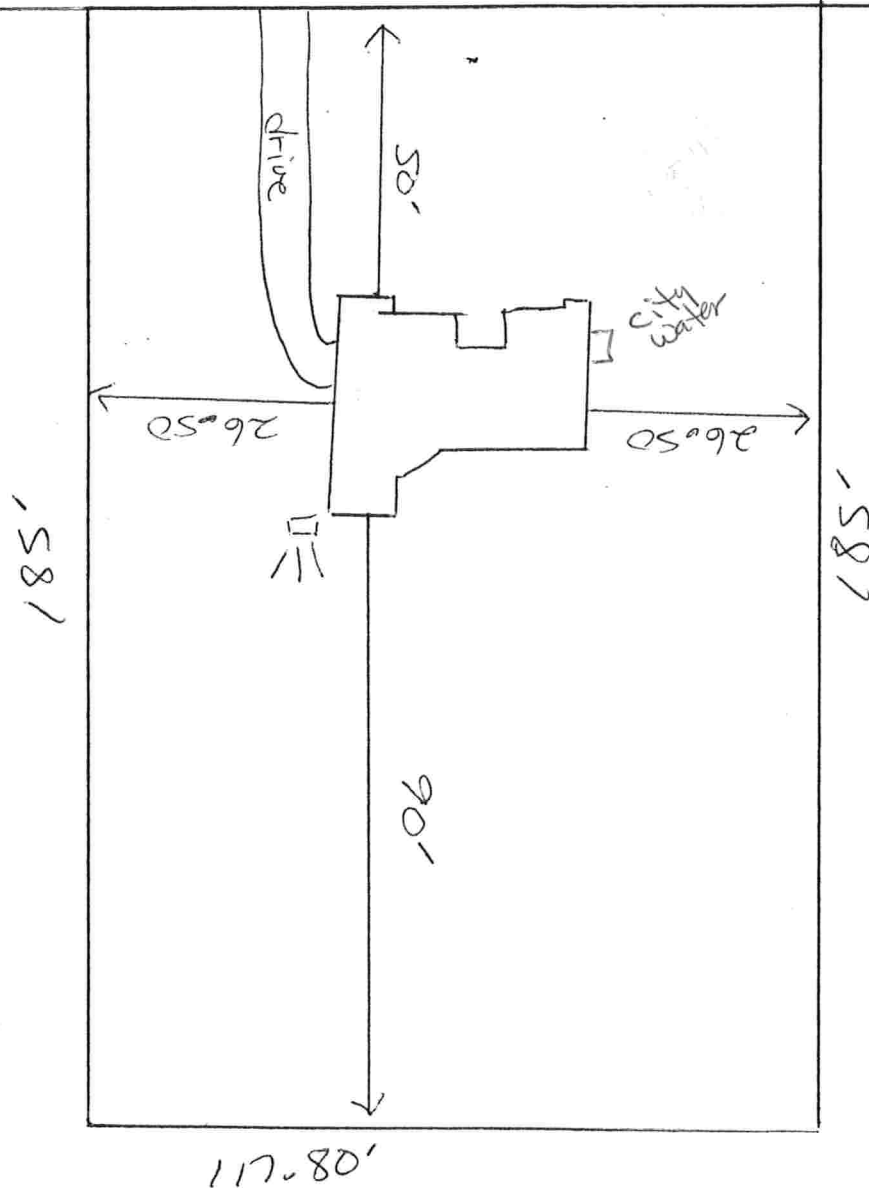

Notary Public, State of Florida



Lot 6 Rolling Meadows.
15-45-16-03023-506



SW Morning Glory Dr.
117.80'



Residential System Sizing Calculation

Summary

Spec House

Project Title:
801242SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

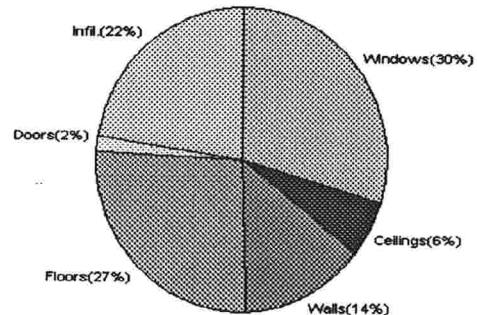
1/24/2008

| | | | |
|---|-------------------|---------------------------------------|-------------------|
| 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 | 36594 Btuh | Total cooling load calculation | 32764 Btuh |
| Submitted heating capacity | % of calc Btuh | Submitted cooling capacity | % of calc Btuh |
| Total (Electric Heat Pump) | 117.5 43000 | Sensible (SHR = 0.75) | 116.2 32250 |
| Heat Pump + Auxiliary(0.0kW) | 117.5 43000 | Latent | 214.7 10750 |
| | | Total (Electric Heat Pump) | 131.2 43000 |

WINTER CALCULATIONS

Winter Heating Load (for 1860 sqft)

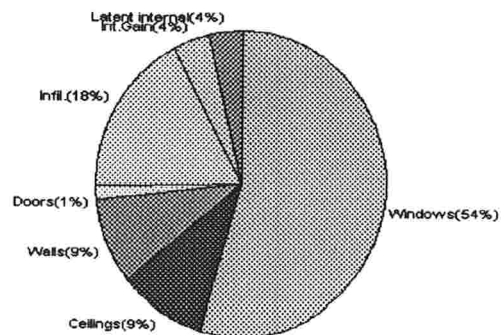
| Load component | | Load | |
|------------------------|-----------|--------------|-------------|
| Window total | 340 sqft | 10954 | Btuh |
| Wall total | 1518 sqft | 4984 | Btuh |
| Door total | 50 sqft | 648 | Btuh |
| Ceiling total | 1860 sqft | 2192 | Btuh |
| Floor total | 224 sqft | 9780 | Btuh |
| Infiltration | 198 cfm | 8036 | Btuh |
| Duct loss | | 0 | Btuh |
| Subtotal | | 36594 | Btuh |
| Ventilation | 0 cfm | 0 | Btuh |
| TOTAL HEAT LOSS | | 36594 | Btuh |



SUMMER CALCULATIONS

Summer Cooling Load (for 1860 sqft)

| Load component | | Load | |
|---------------------------------------|-----------|--------------|-------------|
| Window total | 340 sqft | 17844 | Btuh |
| Wall total | 1518 sqft | 3025 | Btuh |
| Door total | 50 sqft | 490 | Btuh |
| Ceiling total | 1860 sqft | 3080 | Btuh |
| Floor total | | 0 | Btuh |
| Infiltration | 104 cfm | 1939 | Btuh |
| Internal gain | | 1380 | Btuh |
| Duct gain | | 0 | Btuh |
| Sens. Ventilation | 0 cfm | 0 | Btuh |
| Total sensible gain | | 27758 | Btuh |
| Latent gain(ducts) | | 0 | Btuh |
| Latent gain(infiltration) | | 3807 | Btuh |
| Latent gain(ventilation) | | 0 | Btuh |
| Latent gain(internal/occupants/other) | | 1200 | Btuh |
| Total latent gain | | 5007 | Btuh |
| TOTAL HEAT GAIN | | 32764 | Btuh |



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 1-24-08

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

, FL

Project Title:
801242SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

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

1/24/2008

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

Component Loads for Whole House

| Window | Panes/SHGC/Frame/U | Orientation | Area(sqft) | X | HTM= | Load |
|-------------------------|--|-------------|-------------|---|-------|------------|
| 1 | 2, Clear, Metal, 0.87 | NW | 36.0 | | 32.2 | 1159 Btuh |
| 2 | 2, Clear, Metal, 0.87 | NW | 54.0 | | 32.2 | 1738 Btuh |
| 3 | 2, Clear, Metal, 0.87 | W | 20.0 | | 32.2 | 644 Btuh |
| 4 | 2, Clear, Metal, 0.87 | SW | 18.0 | | 32.2 | 579 Btuh |
| 5 | 2, Clear, Metal, 0.87 | NW | 24.0 | | 32.2 | 773 Btuh |
| 6 | 2, Clear, Metal, 0.87 | NW | 54.0 | | 32.2 | 1738 Btuh |
| 7 | 2, Clear, Metal, 0.87 | NE | 15.0 | | 32.2 | 483 Btuh |
| 8 | 2, Clear, Metal, 0.87 | SE | 36.0 | | 32.2 | 1159 Btuh |
| 9 | 2, Clear, Metal, 0.87 | SE | 13.3 | | 32.2 | 428 Btuh |
| 10 | 2, Clear, Metal, 0.87 | SE | 5.0 | | 32.2 | 161 Btuh |
| 11 | 2, Clear, Metal, 0.87 | SE | 15.0 | | 32.2 | 483 Btuh |
| 12 | 2, Clear, Metal, 0.87 | SE | 20.0 | | 32.2 | 644 Btuh |
| 13 | 2, Clear, Metal, 0.87 | SW | 30.0 | | 32.2 | 966 Btuh |
| Window Total | | | 340(sqft) | | | 10954 Btuh |
| Walls | Type | R-Value | Area | X | HTM= | Load |
| 1 | Frame - Wood - Ext(0.09) | 13.0 | 1274 | | 3.3 | 4183 Btuh |
| 2 | Frame - Wood - Adj(0.09) | 13.0 | 244 | | 3.3 | 801 Btuh |
| Wall Total | | | 1518 | | | 4984 Btuh |
| Doors | Type | | Area | X | HTM= | Load |
| 1 | Insulated - Adjacent | | 20 | | 12.9 | 259 Btuh |
| 2 | Insulated - Exterior | | 20 | | 12.9 | 259 Btuh |
| 3 | Insulated - Exterior | | 10 | | 12.9 | 130 Btuh |
| Door Total | | | 50 | | | 648Btuh |
| Ceilings | Type/Color/Surface | R-Value | Area | X | HTM= | Load |
| 1 | Vented Attic/D/Shin) | 30.0 | 1860 | | 1.2 | 2192 Btuh |
| Ceiling Total | | | 1860 | | | 2192Btuh |
| Floors | Type | R-Value | Size | X | HTM= | Load |
| 1 | Slab On Grade | 0 | 224.0 ft(p) | | 43.7 | 9780 Btuh |
| Floor Total | | | 224 | | | 9780 Btuh |
| Zone Envelope Subtotal: | | | | | | 28558 Btuh |
| Infiltration | Type | ACH X | Zone Volume | | CFM= | |
| | Natural | 0.80 | 14880 | | 198.4 | 8036 Btuh |
| Ductload | Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00) | | | | | 0 Btuh |
| Zone #1 | Sensible Zone Subtotal | | | | | 36594 Btuh |

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

, FL

Project Title:

801242SparksConstructionInc

Class 3 Rating

Registration No. 0

Climate: North

1/24/2008

WHOLE HOUSE TOTALS

| | | |
|--|----------------------|------------|
| | Subtotal Sensible | 36594 Btuh |
| | Ventilation Sensible | 0 Btuh |
| | Total Btuh Loss | 36594 Btuh |

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Spec House

, FL

Project Title:
801242SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

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

1/24/2008

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

Component Loads for Zone #1: Main

| Window | Panes/SHGC/Frame/U | Orientation | Area(sqft) | X | HTM= | Load |
|-------------------------|--|-------------|-------------|-------|------|------------|
| 1 | 2, Clear, Metal, 0.87 | NW | 36.0 | | 32.2 | 1159 Btuh |
| 2 | 2, Clear, Metal, 0.87 | NW | 54.0 | | 32.2 | 1738 Btuh |
| 3 | 2, Clear, Metal, 0.87 | W | 20.0 | | 32.2 | 644 Btuh |
| 4 | 2, Clear, Metal, 0.87 | SW | 18.0 | | 32.2 | 579 Btuh |
| 5 | 2, Clear, Metal, 0.87 | NW | 24.0 | | 32.2 | 773 Btuh |
| 6 | 2, Clear, Metal, 0.87 | NW | 54.0 | | 32.2 | 1738 Btuh |
| 7 | 2, Clear, Metal, 0.87 | NE | 15.0 | | 32.2 | 483 Btuh |
| 8 | 2, Clear, Metal, 0.87 | SE | 36.0 | | 32.2 | 1159 Btuh |
| 9 | 2, Clear, Metal, 0.87 | SE | 13.3 | | 32.2 | 428 Btuh |
| 10 | 2, Clear, Metal, 0.87 | SE | 5.0 | | 32.2 | 161 Btuh |
| 11 | 2, Clear, Metal, 0.87 | SE | 15.0 | | 32.2 | 483 Btuh |
| 12 | 2, Clear, Metal, 0.87 | SE | 20.0 | | 32.2 | 644 Btuh |
| 13 | 2, Clear, Metal, 0.87 | SW | 30.0 | | 32.2 | 966 Btuh |
| Window Total | | | 340(sqft) | | | 10954 Btuh |
| Walls | Type | R-Value | Area | X | HTM= | Load |
| 1 | Frame - Wood - Ext(0.09) | 13.0 | 1274 | | 3.3 | 4183 Btuh |
| 2 | Frame - Wood - Adj(0.09) | 13.0 | 244 | | 3.3 | 801 Btuh |
| Wall Total | | | 1518 | | | 4984 Btuh |
| Doors | Type | | Area | X | HTM= | Load |
| 1 | Insulated - Adjacent | | 20 | | 12.9 | 259 Btuh |
| 2 | Insulated - Exterior | | 20 | | 12.9 | 259 Btuh |
| 3 | Insulated - Exterior | | 10 | | 12.9 | 130 Btuh |
| Door Total | | | 50 | | | 648Btuh |
| Ceilings | Type/Color/Surface | R-Value | Area | X | HTM= | Load |
| 1 | Vented Attic/D/Shin) | 30.0 | 1860 | | 1.2 | 2192 Btuh |
| Ceiling Total | | | 1860 | | | 2192Btuh |
| Floors | Type | R-Value | Size | X | HTM= | Load |
| 1 | Slab On Grade | 0 | 224.0 ft(p) | | 43.7 | 9780 Btuh |
| Floor Total | | | 224 | | | 9780 Btuh |
| Zone Envelope Subtotal: | | | | | | 28558 Btuh |
| Infiltration | Type | ACH X | Zone Volume | CFM= | | |
| | Natural | 0.80 | 14880 | 198.4 | | 8036 Btuh |
| Ductload | Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00) | | | | | 0 Btuh |
| Zone #1 | Sensible Zone Subtotal | | | | | 36594 Btuh |

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
801242SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

1/24/2008

WHOLE HOUSE TOTALS

| | | |
|--|----------------------|------------|
| | Subtotal Sensible | 36594 Btuh |
| | Ventilation Sensible | 0 Btuh |
| | Total Btuh Loss | 36594 Btuh |

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House

, FL

Project Title:
801242SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

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

1/24/2008

Component Loads for Whole House

| Window | Type* | Ornt | Overhang | | Window Area(sqft) | | | HTM | | Load | |
|-------------------------|--|-----------------|---------------|--------------|-------------------|-----------|----------|------------|-----------|------------|------|
| | Pn/SHGC/U/InSh/ExSh/IS | | Len | Hgt | Gross | Shaded | Unshaded | Shaded | Unshaded | | |
| 1 | 2, Clear, 0.87, None,N,N | NW | 1.5ft. | 7.5ft. | 36.0 | 0.0 | 36.0 | 29 | 60 | 2161 | Btuh |
| 2 | 2, Clear, 0.87, None,N,N | NW | 12ft. | 7.5ft. | 54.0 | 0.0 | 54.0 | 29 | 60 | 3242 | Btuh |
| 3 | 2, Clear, 0.87, None,N,N | W | 13ft. | 7.5ft. | 20.0 | 20.0 | 0.0 | 29 | 80 | 579 | Btuh |
| 4 | 2, Clear, 0.87, None,N,N | SW | 18ft. | 6.5ft. | 18.0 | 18.0 | 0.0 | 29 | 63 | 521 | Btuh |
| 5 | 2, Clear, 0.87, None,N,N | NW | 1.5ft. | 7.5ft. | 24.0 | 0.0 | 24.0 | 29 | 60 | 1441 | Btuh |
| 6 | 2, Clear, 0.87, None,N,N | NW | 1.5ft. | 7.5ft. | 54.0 | 0.0 | 54.0 | 29 | 60 | 3242 | Btuh |
| 7 | 2, Clear, 0.87, None,N,N | NE | 1.5ft. | 5.5ft. | 15.0 | 0.0 | 15.0 | 29 | 60 | 901 | Btuh |
| 8 | 2, Clear, 0.87, None,N,N | SE | 1.5ft. | 7.5ft. | 36.0 | 6.1 | 29.9 | 29 | 63 | 2045 | Btuh |
| 9 | 2, Clear, 0.87, None,N,N | SE | 7ft. | 7.5ft. | 13.3 | 13.3 | 0.0 | 29 | 63 | 385 | Btuh |
| 10 | 2, Clear, 0.87, None,N,N | SE | 7ft. | 1.5ft. | 5.0 | 5.0 | 0.0 | 29 | 63 | 145 | Btuh |
| 11 | 2, Clear, 0.87, None,N,N | SE | 1.5ft. | 5.5ft. | 15.0 | 6.1 | 8.9 | 29 | 63 | 734 | Btuh |
| 12 | 2, Clear, 0.87, None,N,N | SE | 1.5ft. | 5.5ft. | 20.0 | 8.1 | 11.9 | 29 | 63 | 979 | Btuh |
| 13 | 2, Clear, 0.87, None,N,N | SW | 1.5ft. | 5.5ft. | 30.0 | 12.1 | 17.9 | 29 | 63 | 1468 | Btuh |
| Window Total | | | | | 340 (sqft) | | | | | 17844 Btuh | |
| Walls | Type | R-Value/U-Value | | Area(sqft) | | | HTM | | Load | | |
| 1 | Frame - Wood - Ext | 13.0/0.09 | | 1273.7 | | | 2.1 | | 2657 Btuh | | |
| 2 | Frame - Wood - Adj | 13.0/0.09 | | 244.0 | | | 1.5 | | 368 Btuh | | |
| Wall Total | | | | | 1518 (sqft) | | | | | 3025 Btuh | |
| Doors | Type | | | Area (sqft) | | | HTM | | Load | | |
| 1 | Insulated - Adjacent | | | 20.0 | | | 9.8 | | 196 Btuh | | |
| 2 | Insulated - Exterior | | | 20.0 | | | 9.8 | | 196 Btuh | | |
| 3 | Insulated - Exterior | | | 10.0 | | | 9.8 | | 98 Btuh | | |
| Door Total | | | | | 50 (sqft) | | | | | 490 Btuh | |
| Ceilings | Type/Color/Surface | R-Value | | Area(sqft) | | | HTM | | Load | | |
| 1 | Vented Attic/DarkShingle | 30.0 | | 1860.0 | | | 1.7 | | 3080 Btuh | | |
| Ceiling Total | | | | | 1860 (sqft) | | | | | 3080 Btuh | |
| Floors | Type | R-Value | | Size | | | HTM | | Load | | |
| 1 | Slab On Grade | 0.0 | | 224 (ft(p)) | | | 0.0 | | 0 Btuh | | |
| Floor Total | | | | | 224.0 (sqft) | | | | | 0 Btuh | |
| Zone Envelope Subtotal: | | | | | | | | | | 24439 Btuh | |
| Infiltration | Type | ACH | | Volume(cuft) | | | CFM= | | Load | | |
| | SensibleNatural | 0.42 | | 14880 | | | 104.2 | | 1939 Btuh | | |
| Internal gain | Occupants | | Btuh/occupant | | | Appliance | | Load | | | |
| | 6 | | X 230 + | | | 0 | | 1380 Btuh | | | |
| Duct load | Unsealed, R6.0, Supply(Attic), Return(Attic) | | | | | | | DGM = 0.00 | | 0.0 Btuh | |
| Sensible Zone Load | | | | | | | | | | 27758 Btuh | |

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
801242SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

1/24/2008

WHOLE HOUSE TOTALS

| | | |
|---|---|-------------------|
| Whole House
Totals for Cooling | Sensible Envelope Load All Zones | 27758 Btuh |
| | Sensible Duct Load | 0 Btuh |
| | Total Sensible Zone Loads | 27758 Btuh |
| | Sensible ventilation | 0 Btuh |
| | Blower | 0 Btuh |
| | Total sensible gain | 27758 Btuh |
| | Latent infiltration gain (for 54 gr. humidity difference) | 3807 Btuh |
| | Latent ventilation gain | 0 Btuh |
| | Latent duct gain | 0 Btuh |
| | Latent occupant gain (6 people @ 200 Btuh per person) | 1200 Btuh |
| | Latent other gain | 0 Btuh |
| | Latent total gain | 5007 Btuh |
| | TOTAL GAIN | 32764 Btuh |

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House

, FL

Project Title:
801242SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

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

1/24/2008

Component Loads for Zone #1: Main

| Window | Type* | | Overhang | | Window Area(sqft) | | | HTM | | Load |
|-------------------------|--|-----------------|---------------|--------------|-------------------|--------|------------|-----------|----------|------------|
| | Pn/SHGC/U/InSh/ExSh/IS | Ornt | Len | Hgt | Gross | Shaded | Unshaded | Shaded | Unshaded | |
| 1 | 2, Clear, 0.87, None,N,N | NW | 1.5ft. | 7.5ft. | 36.0 | 0.0 | 36.0 | 29 | 60 | 2161 Btuh |
| 2 | 2, Clear, 0.87, None,N,N | NW | 12ft. | 7.5ft. | 54.0 | 0.0 | 54.0 | 29 | 60 | 3242 Btuh |
| 3 | 2, Clear, 0.87, None,N,N | W | 13ft. | 7.5ft. | 20.0 | 20.0 | 0.0 | 29 | 80 | 579 Btuh |
| 4 | 2, Clear, 0.87, None,N,N | SW | 18ft. | 6.5ft. | 18.0 | 18.0 | 0.0 | 29 | 63 | 521 Btuh |
| 5 | 2, Clear, 0.87, None,N,N | NW | 1.5ft. | 7.5ft. | 24.0 | 0.0 | 24.0 | 29 | 60 | 1441 Btuh |
| 6 | 2, Clear, 0.87, None,N,N | NW | 1.5ft. | 7.5ft. | 54.0 | 0.0 | 54.0 | 29 | 60 | 3242 Btuh |
| 7 | 2, Clear, 0.87, None,N,N | NE | 1.5ft. | 5.5ft. | 15.0 | 0.0 | 15.0 | 29 | 60 | 901 Btuh |
| 8 | 2, Clear, 0.87, None,N,N | SE | 1.5ft. | 7.5ft. | 36.0 | 6.1 | 29.9 | 29 | 63 | 2045 Btuh |
| 9 | 2, Clear, 0.87, None,N,N | SE | 7ft. | 7.5ft. | 13.3 | 13.3 | 0.0 | 29 | 63 | 385 Btuh |
| 10 | 2, Clear, 0.87, None,N,N | SE | 7ft. | 1.5ft. | 5.0 | 5.0 | 0.0 | 29 | 63 | 145 Btuh |
| 11 | 2, Clear, 0.87, None,N,N | SE | 1.5ft. | 5.5ft. | 15.0 | 6.1 | 8.9 | 29 | 63 | 734 Btuh |
| 12 | 2, Clear, 0.87, None,N,N | SE | 1.5ft. | 5.5ft. | 20.0 | 8.1 | 11.9 | 29 | 63 | 979 Btuh |
| 13 | 2, Clear, 0.87, None,N,N | SW | 1.5ft. | 5.5ft. | 30.0 | 12.1 | 17.9 | 29 | 63 | 1468 Btuh |
| Window Total | | | | | 340 (sqft) | | | | | 17844 Btuh |
| Walls | Type | R-Value/U-Value | | Area(sqft) | | HTM | | Load | | |
| 1 | Frame - Wood - Ext | 13.0/0.09 | | 1273.7 | | 2.1 | | 2657 Btuh | | |
| 2 | Frame - Wood - Adj | 13.0/0.09 | | 244.0 | | 1.5 | | 368 Btuh | | |
| Wall Total | | | | | 1518 (sqft) | | | 3025 Btuh | | |
| Doors | Type | | | Area (sqft) | | HTM | | Load | | |
| 1 | Insulated - Adjacent | | | 20.0 | | 9.8 | | 196 Btuh | | |
| 2 | Insulated - Exterior | | | 20.0 | | 9.8 | | 196 Btuh | | |
| 3 | Insulated - Exterior | | | 10.0 | | 9.8 | | 98 Btuh | | |
| Door Total | | | | | 50 (sqft) | | | 490 Btuh | | |
| Ceilings | Type/Color/Surface | R-Value | | Area(sqft) | | HTM | | Load | | |
| 1 | Vented Attic/DarkShingle | 30.0 | | 1860.0 | | 1.7 | | 3080 Btuh | | |
| Ceiling Total | | | | | 1860 (sqft) | | | 3080 Btuh | | |
| Floors | Type | R-Value | | Size | | HTM | | Load | | |
| 1 | Slab On Grade | 0.0 | | 224 (ft(p)) | | 0.0 | | 0 Btuh | | |
| Floor Total | | | | | 224.0 (sqft) | | | 0 Btuh | | |
| Zone Envelope Subtotal: | | | | | | | | | | 24439 Btuh |
| Infiltration | Type | ACH | | Volume(cuft) | | CFM= | | Load | | |
| | SensibleNatural | 0.42 | | 14880 | | 104.2 | | 1939 Btuh | | |
| Internal gain | Occupants | | Btuh/occupant | | Appliance | | Load | | | |
| | 6 | | X 230 + | | 0 | | 1380 Btuh | | | |
| Duct load | Unsealed, R6.0, Supply(Attic), Return(Attic) | | | | | | DGM = 0.00 | | 0.0 Btuh | |
| Sensible Zone Load | | | | | | | | | | 27758 Btuh |

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
801242SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

1/24/2008

WHOLE HOUSE TOTALS

| | | |
|---|---|-------------------|
| Whole House
Totals for Cooling | Sensible Envelope Load All Zones | 27758 Btuh |
| | Sensible Duct Load | 0 Btuh |
| | Total Sensible Zone Loads | 27758 Btuh |
| | Sensible ventilation | 0 Btuh |
| | Blower | 0 Btuh |
| | Total sensible gain | 27758 Btuh |
| | Latent infiltration gain (for 54 gr. humidity difference) | 3807 Btuh |
| | Latent ventilation gain | 0 Btuh |
| | Latent duct gain | 0 Btuh |
| | Latent occupant gain (6 people @ 200 Btuh per person) | 1200 Btuh |
| | Latent other gain | 0 Btuh |
| | Latent total gain | 5007 Btuh |
| | TOTAL GAIN | 32764 Btuh |

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Spec House

, FL

Project Title:
801242SparksConstructionInc

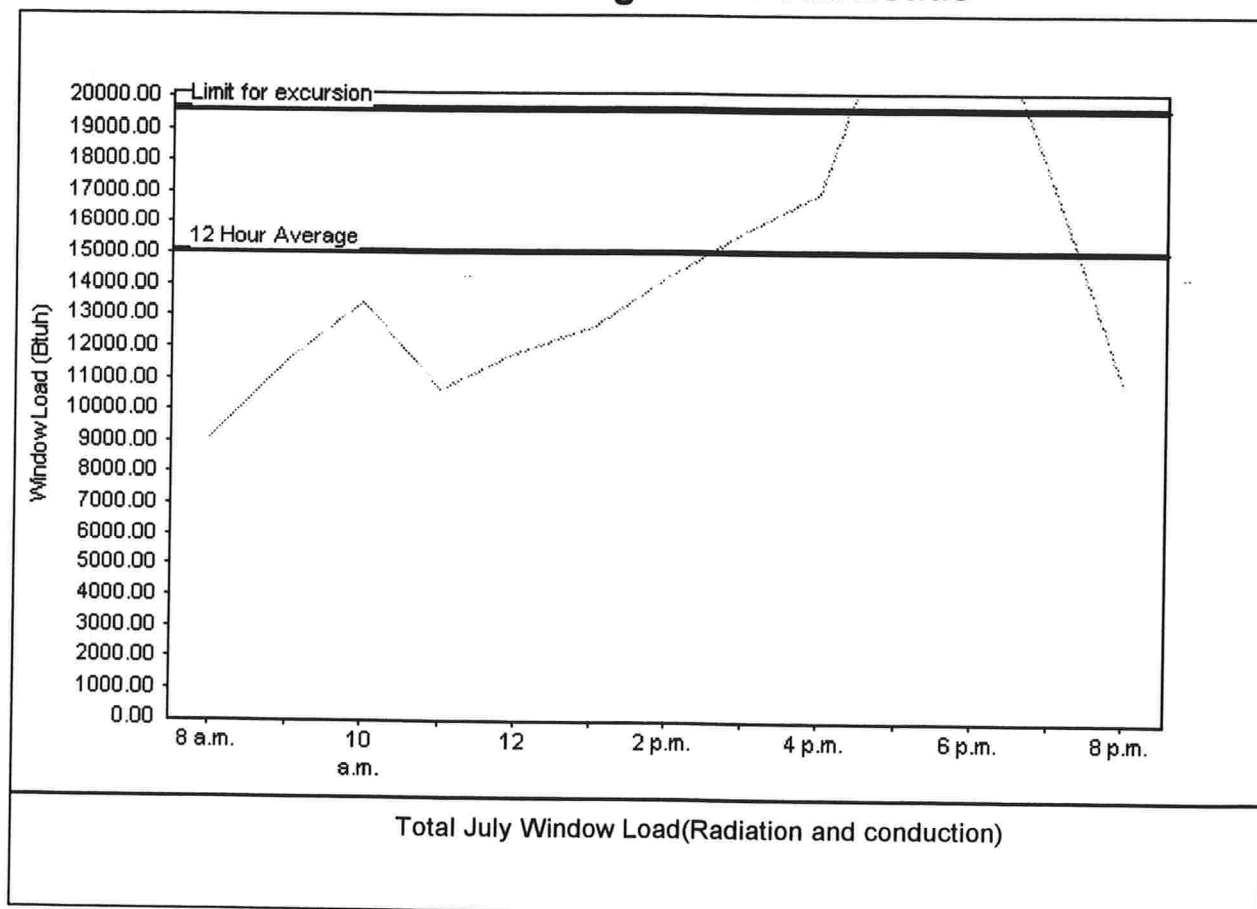
Class 3 Rating
Registration No. 0
Climate: North

1/24/2008

Weather data for: Gainesville - Defaults

| | | | |
|-------------------------------|----------|-------------------------------|-----------|
| Summer design temperature | 92 F | Average window load for July | 15100 Btu |
| Summer setpoint | 75 F | Peak window load for July | 24011 Btu |
| Summer temperature difference | 17 F | Excursion limit(130% of Ave.) | 19630 Btu |
| Latitude | 29 North | Window excursion (July) | 4381 Btu |

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*

DATE: *1-24-08*

EnergyGauge® FLR2PB v4.1



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

| | | | |
|---------------|--|----------------------|--|
| Project Name: | 801242SparksConstructionInc | Builder: | |
| Address: | Lot: 6, Sub: Rolling Meadows, Plat: | Permitting Office: | |
| City, State: | , FL | Permit Number: | |
| Owner: | Spec House | Jurisdiction Number: | |
| Climate Zone: | North | | |

| | | |
|---|------------------------------|-----|
| 1. New construction or existing | New | ___ |
| 2. Single family or multi-family | Single family | ___ |
| 3. Number of units, if multi-family | 1 | ___ |
| 4. Number of Bedrooms | 3 | ___ |
| 5. Is this a worst case? | Yes | ___ |
| 6. Conditioned floor area (ft²) | 1860 ft² | ___ |
| 7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default) | | ___ |
| a. U-factor: | Description Area | ___ |
| (or Single or Double DEFAULT) | 7a. (Dble Default) 340.3 ft² | ___ |
| b. SHGC: | | ___ |
| (or Clear or Tint DEFAULT) | 7b. (Clear) 340.3 ft² | ___ |
| 8. Floor types | | ___ |
| a. Slab-On-Grade Edge Insulation | R=0.0, 224.0(p) ft | ___ |
| b. N/A | | ___ |
| c. N/A | | ___ |
| 9. Wall types | | ___ |
| a. Frame, Wood, Exterior | R=13.0, 1273.7 ft² | ___ |
| b. Frame, Wood, Adjacent | R=13.0, 244.0 ft² | ___ |
| c. N/A | | ___ |
| d. N/A | | ___ |
| e. N/A | | ___ |
| 10. Ceiling types | | ___ |
| a. Under Attic | R=30.0, 1860.0 ft² | ___ |
| b. N/A | | ___ |
| c. N/A | | ___ |
| 11. Ducts | | ___ |
| a. Sup: Unc. Ret: Unc. AH: Interior | Sup. R=6.0, 170.0 ft | ___ |
| b. N/A | | ___ |
| 12. Cooling systems | | ___ |
| a. Central Unit | Cap: 43.0 kBtu/hr | ___ |
| | SEER: 13.00 | ___ |
| b. N/A | | ___ |
| c. N/A | | ___ |
| 13. Heating systems | | ___ |
| a. Electric Heat Pump | Cap: 43.0 kBtu/hr | ___ |
| | HSPF: 7.90 | ___ |
| b. N/A | | ___ |
| c. N/A | | ___ |
| 14. Hot water systems | | ___ |
| a. Electric Resistance | Cap: 40.0 gallons | ___ |
| | EF: 0.93 | ___ |
| b. N/A | | ___ |
| c. Conservation credits | | ___ |
| (HR-Heat recovery, Solar | | ___ |
| DHP-Dedicated heat pump) | | ___ |
| 15. HVAC credits | | ___ |
| (CF-Ceiling fan, CV-Cross ventilation, | | ___ |
| HF-Whole house fan, | | ___ |
| PT-Programmable Thermostat, | | ___ |
| MZ-C-Multizone cooling, | | ___ |
| MZ-H-Multizone heating) | | ___ |

Glass/Floor Area: 0.18

Total as-built points: 25595

Total base points: 27165

PASS

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

PREPARED BY: [Signature]

DATE: 1-24-09

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

OWNER/AGENT: [Signature]

DATE: 1-26-09

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

BUILDING OFFICIAL: _____

DATE: _____



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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

| BASE | | | | AS-BUILT | | | | | | | |
|---|----------|-------|---------|-------------------------------|--------------------------|----------------------------|---------------------------|----------------------------------|---------------|----------------|--------|
| GLASS TYPES | | | | | | | | | | | |
| .18 X Conditioned X BSPM = Points
Floor Area | | | | Type/SC | Overhang
Ornt Len Hgt | | Area X SPM X SOF = Points | | | | |
| .18 | 1860.0 | 20.04 | 6709.4 | Double, Clear | SW | 1.5 | 7.5 | 36.0 | 40.16 | 0.93 | 1349.6 |
| | | | | Double, Clear | SW | 12.0 | 7.5 | 54.0 | 40.16 | 0.42 | 901.5 |
| | | | | Double, Clear | S | 13.0 | 7.5 | 20.0 | 35.87 | 0.46 | 328.6 |
| | | | | Double, Clear | SE | 18.0 | 6.5 | 18.0 | 42.75 | 0.38 | 292.0 |
| | | | | Double, Clear | SW | 1.5 | 7.5 | 24.0 | 40.16 | 0.93 | 899.7 |
| | | | | Double, Clear | SW | 1.5 | 7.5 | 54.0 | 40.16 | 0.93 | 2024.4 |
| | | | | Double, Clear | NW | 1.5 | 5.5 | 15.0 | 25.97 | 0.91 | 355.2 |
| | | | | Double, Clear | NE | 1.5 | 7.5 | 36.0 | 29.56 | 0.95 | 1014.4 |
| | | | | Double, Clear | NE | 7.0 | 7.5 | 13.3 | 29.56 | 0.60 | 235.7 |
| | | | | Double, Clear | NE | 7.0 | 1.5 | 5.0 | 29.56 | 0.44 | 65.1 |
| | | | | Double, Clear | NE | 1.5 | 5.5 | 15.0 | 29.56 | 0.91 | 401.5 |
| | | | | Double, Clear | NE | 1.5 | 5.5 | 20.0 | 29.56 | 0.91 | 535.3 |
| | | | | Double, Clear | SE | 1.5 | 5.5 | 30.0 | 42.75 | 0.86 | 1104.3 |
| | | | | As-Built Total: | | | | 340.3 | 9507.3 | | |
| WALL TYPES | | | | Type | | R-Value | | Area X SPM = Points | | | |
| Adjacent | 244.0 | 0.70 | 170.8 | Frame, Wood, Exterior | | 13.0 | | 1273.7 | 1.50 | 1910.5 | |
| Exterior | 1273.7 | 1.70 | 2165.3 | Frame, Wood, Adjacent | | 13.0 | | 244.0 | 0.60 | 146.4 | |
| Base Total: | | | | 1517.7 | | 2336.1 | | As-Built Total: | | 1517.7 | |
| | | | | | | | | | | 2056.9 | |
| DOOR TYPES | | | | Type | | Area X SPM = Points | | | | | |
| Adjacent | 20.0 | 1.60 | 32.0 | Exterior Insulated | | 10.0 | | 4.10 | 41.0 | | |
| Exterior | 30.0 | 4.10 | 123.0 | Exterior Insulated | | 20.0 | | 4.10 | 82.0 | | |
| | | | | Adjacent Insulated | | 20.0 | | 1.60 | 32.0 | | |
| Base Total: | | | | 50.0 | | 155.0 | | As-Built Total: | | 50.0 | |
| | | | | | | | | | | 155.0 | |
| CEILING TYPES | | | | Type | | R-Value | | Area X SPM X SCM = Points | | | |
| Under Attic | 1860.0 | 1.73 | 3217.8 | Under Attic | | 30.0 | | 1860.0 | 1.73 X 1.00 | 3217.8 | |
| Base Total: | | | | 1860.0 | | 3217.8 | | As-Built Total: | | 1860.0 | |
| | | | | | | | | | | 3217.8 | |
| FLOOR TYPES | | | | Type | | R-Value | | Area X SPM = Points | | | |
| Slab | 224.0(p) | -37.0 | -8288.0 | Slab-On-Grade Edge Insulation | | 0.0 | | 224.0(p) | -41.20 | -9228.8 | |
| Raised | 0.0 | 0.00 | 0.0 | | | | | | | | |
| Base Total: | | | | -8288.0 | | As-Built Total: | | 224.0 | | -9228.8 | |
| | | | | | | | | | | | |

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

| BASE | | | | AS-BUILT | | | | | |
|--|---------------------|------------------|--|--|------------------------------|-------------------|---------------------|---------------------|------------------|
| INFILTRATION Area X BSPM = Points | | | | Area X SPM = Points | | | | | |
| 1860.0 | 10.21 | 18990.6 | | 1860.0 | 10.21 | 18990.6 | | | |
| Summer Base Points: 23120.9 | | | | Summer As-Built Points: 24698.8 | | | | | |
| Total Summer Points | X System Multiplier | = Cooling Points | | Total Component (System - Points) | X Cap Ratio (DM x DSM x AHU) | X Duct Multiplier | X System Multiplier | X Credit Multiplier | = Cooling Points |
| 23120.9 | 0.4266 | 9863.4 | | (sys 1: Central Unit 43000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)
24699 | | | | | |

(sys 1: Central Unit 43000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)

24699 1.00 (1.09 x 1.147 x 0.91) 0.263 1.000 7377.4

24698.8 1.00 1.138 0.263 1.000 7377.4

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

| BASE | | | | AS-BUILT | | | | | | | |
|---|----------|-------|--------|-------------------------------|--------------------------|------------------------|---------------------------|---------------------------|---------------|---------------|--------|
| GLASS TYPES | | | | | | | | | | | |
| .18 X Conditioned X BWPM = Points
Floor Area | | | | Type/SC | Overhang
Ornt Len Hgt | | Area X WPM X WOF = Points | | | | |
| .18 | 1860.0 | 12.74 | 4265.4 | Double, Clear | SW | 1.5 | 7.5 | 36.0 | 16.74 | 1.04 | 623.6 |
| | | | | Double, Clear | SW | 12.0 | 7.5 | 54.0 | 16.74 | 1.84 | 1667.1 |
| | | | | Double, Clear | S | 13.0 | 7.5 | 20.0 | 13.30 | 3.45 | 917.4 |
| | | | | Double, Clear | SE | 18.0 | 6.5 | 18.0 | 14.71 | 2.65 | 701.5 |
| | | | | Double, Clear | SW | 1.5 | 7.5 | 24.0 | 16.74 | 1.04 | 415.8 |
| | | | | Double, Clear | SW | 1.5 | 7.5 | 54.0 | 16.74 | 1.04 | 935.5 |
| | | | | Double, Clear | NW | 1.5 | 5.5 | 15.0 | 24.30 | 1.00 | 365.9 |
| | | | | Double, Clear | NE | 1.5 | 7.5 | 36.0 | 23.57 | 1.00 | 850.8 |
| | | | | Double, Clear | NE | 7.0 | 7.5 | 13.3 | 23.57 | 1.04 | 326.8 |
| | | | | Double, Clear | NE | 7.0 | 1.5 | 5.0 | 23.57 | 1.06 | 125.1 |
| | | | | Double, Clear | NE | 1.5 | 5.5 | 15.0 | 23.57 | 1.01 | 356.3 |
| | | | | Double, Clear | NE | 1.5 | 5.5 | 20.0 | 23.57 | 1.01 | 475.1 |
| | | | | Double, Clear | SE | 1.5 | 5.5 | 30.0 | 14.71 | 1.11 | 491.5 |
| | | | | As-Built Total: | | 340.3 | | | 8252.4 | | |
| WALL TYPES | | | | Area X BWPM = Points | | Type | R-Value | Area X WPM = Points | | | |
| Adjacent | 244.0 | 3.60 | 878.4 | Frame, Wood, Exterior | | 13.0 | 1273.7 | 3.40 | 4330.6 | | |
| Exterior | 1273.7 | 3.70 | 4712.7 | Frame, Wood, Adjacent | | 13.0 | 244.0 | 3.30 | 805.2 | | |
| Base Total: | | | | 1517.7 | | 5591.1 | | As-Built Total: | | 1517.7 | |
| | | | | | | | | | | 5135.8 | |
| DOOR TYPES | | | | Area X BWPM = Points | | Type | | Area X WPM = Points | | | |
| Adjacent | 20.0 | 8.00 | 160.0 | Exterior Insulated | | | 10.0 | 8.40 | 84.0 | | |
| Exterior | 30.0 | 8.40 | 252.0 | Exterior Insulated | | | 20.0 | 8.40 | 168.0 | | |
| | | | | Adjacent Insulated | | | 20.0 | 8.00 | 160.0 | | |
| Base Total: | | | | 50.0 | | 412.0 | | As-Built Total: | | 50.0 | |
| | | | | | | | | | | 412.0 | |
| CEILING TYPES | | | | Area X BWPM = Points | | Type | R-Value | Area X WPM X WCM = Points | | | |
| Under Attic | 1860.0 | 2.05 | 3813.0 | Under Attic | | 30.0 | 1860.0 | 2.05 X 1.00 | 3813.0 | | |
| Base Total: | | | | 1860.0 | | 3813.0 | | As-Built Total: | | 1860.0 | |
| | | | | | | | | | | 3813.0 | |
| FLOOR TYPES | | | | Area X BWPM = Points | | Type | R-Value | Area X WPM = Points | | | |
| Slab | 224.0(p) | 8.9 | 1993.6 | Slab-On-Grade Edge Insulation | | 0.0 | 224.0(p) | 18.80 | 4211.2 | | |
| Raised | 0.0 | 0.00 | 0.0 | | | | | | | | |
| Base Total: | | | | 1993.6 | | As-Built Total: | | 224.0 | | 4211.2 | |
| | | | | | | | | | | | |

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

| BASE | | | | AS-BUILT | | | | | |
|-----------------------------------|---------------------|----------------|--|--|------------------------------|-------------------|---------------------|---------------------|----------------|
| INFILTRATION Area X BWPM = Points | | | | Area X WPM = Points | | | | | |
| 1860.0 -0.59 -1097.4 | | | | 1860.0 -0.59 -1097.4 | | | | | |
| Winter Base Points: | | 14977.6 | | Winter As-Built Points: | | 20727.0 | | | |
| Total Winter X Points | System = Multiplier | Heating Points | | Total X Component (System - Points) | Cap X Ratio (DM x DSM x AHU) | Duct X Multiplier | System X Multiplier | Credit = Multiplier | Heating Points |
| 14977.6 | 0.6274 | 9397.0 | | (sys 1: Electric Heat Pump 43000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0
20727.0 1.000 (1.069 x 1.169 x 0.93) 0.432 1.000 10397.7
20727.0 1.00 1.162 0.432 1.000 10397.7 | | | | | |

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

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

| CODE COMPLIANCE STATUS | | | | | | | | | | | |
|------------------------|---|-------------------|---|---------------------|-------------------|-------------------|---|-------------------|---|---------------------|-------------------|
| BASE | | | | | | AS-BUILT | | | | | |
| Cooling
Points | + | Heating
Points | + | Hot Water
Points | = Total
Points | Cooling
Points | + | Heating
Points | + | Hot Water
Points | = Total
Points |
| 9863 | | 9397 | | 7905 | 27165 | 7377 | | 10398 | | 7820 | 25595 |

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.3

The higher the score, the more efficient the home.

Spec House, Lot: 6, Sub: Rolling Meadows, Plat: , , FL,

| | | | | |
|---|--|-----|--|-------------------|
| 1. New construction or existing | New | ___ | 12. Cooling systems | |
| 2. Single family or multi-family | Single family | ___ | a. Central Unit | Cap: 43.0 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? | Yes | ___ | c. N/A | ___ |
| 6. Conditioned floor area (ft ²) | 1860 ft ² | ___ | | ___ |
| 7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default) | | ___ | 13. Heating systems | |
| a. U-factor: | Description Area | | a. Electric Heat Pump | Cap: 43.0 kBtu/hr |
| (or Single or Double DEFAULT) | 7a. (Dble Default) 340.3 ft ² | ___ | | HSPF: 7.90 |
| b. SHGC: | | ___ | b. N/A | ___ |
| (or Clear or Tint DEFAULT) | 7b. (Clear) 340.3 ft ² | ___ | c. N/A | ___ |
| 8. Floor types | | ___ | 14. Hot water systems | |
| a. Slab-On-Grade Edge Insulation | R=0.0, 224.0(p) ft | ___ | a. Electric Resistance | Cap: 40.0 gallons |
| b. N/A | | ___ | | EF: 0.93 |
| c. N/A | | ___ | b. N/A | ___ |
| 9. Wall types | | ___ | c. Conservation credits | ___ |
| a. Frame, Wood, Exterior | R=13.0, 1273.7 ft ² | ___ | (HR-Heat recovery, Solar | ___ |
| b. Frame, Wood, Adjacent | R=13.0, 244.0 ft ² | ___ | DHP-Dedicated heat pump) | ___ |
| c. N/A | | ___ | 15. HVAC credits | ___ |
| d. N/A | | ___ | (CF-Ceiling fan, CV-Cross ventilation, | ___ |
| e. N/A | | ___ | HF-Whole house fan, | ___ |
| 10. Ceiling types | | ___ | PT-Programmable Thermostat, | ___ |
| a. Under Attic | R=30.0, 1860.0 ft ² | ___ | MZ-C-Multizone cooling, | ___ |
| b. N/A | | ___ | MZ-H-Multizone heating) | ___ |
| c. N/A | | ___ | | ___ |
| 11. Ducts | | ___ | | ___ |
| a. Sup: Unc. Ret: Unc. AH: Interior | Sup. R=6.0, 170.0 ft | ___ | | ___ |
| b. N/A | | ___ | | ___ |

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

Builder Signature: _____ Date: _____

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



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

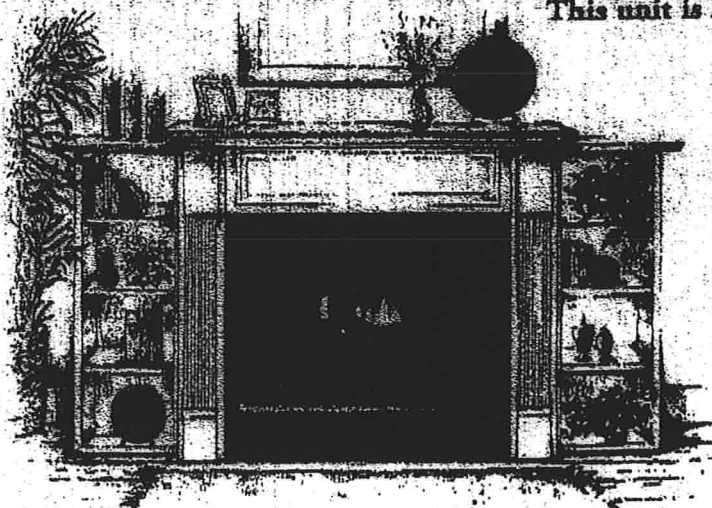
¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLR2PB v4.1)

VENT-FREE

This unit is A.G.A. certified as a heater with 99% heat efficiency

No chimney or flue system required

Wide selection of factory installed options offered

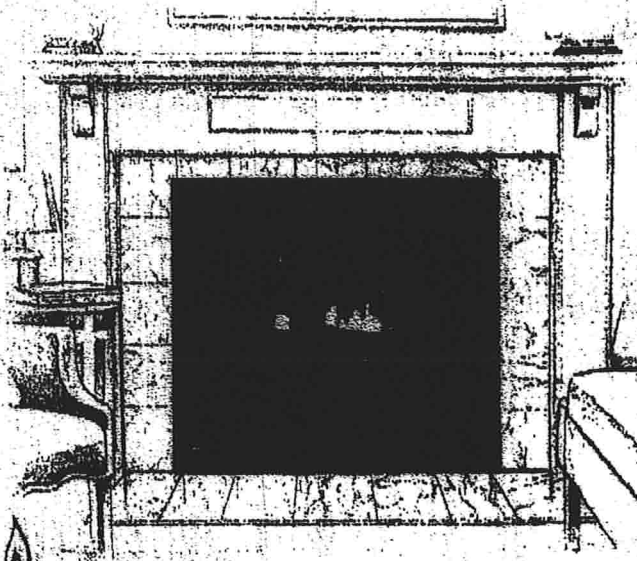
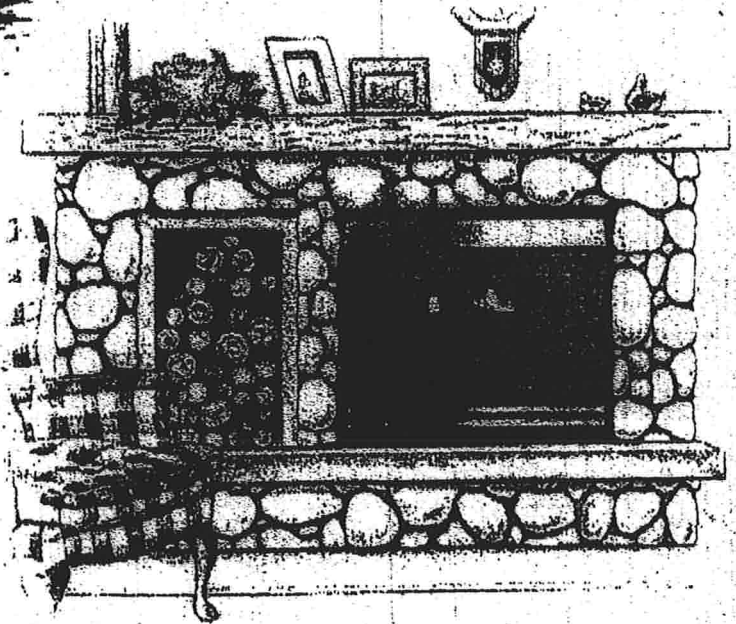


VF-4000

- 14,000 - 25,000 Btu/hr with manual control valve
- 19,500 - 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening

VF-5000

- 25,000 Btu/hr millivolt variable heat output
- 15" X 30" glass or screen viewing area
- Clean burning, safe and easy to install
- Realistic charred oak logs with glowing embers



VF-6000

- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms



SUPERIOR

VF-4000/5000/6000



VF-6000 surround

Controls hidden in access compartment.



Optional FAB-1100 Blower.

Optional brass hoods, arches, glass panel and fine mesh screen.

Controls hidden in access compartment.



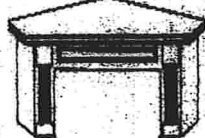
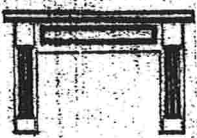
Optional FAB-1100 Blower.

Millivolt controls and piezo ignition operate during a power failure.

VF-5000/6000

SURROUNDS

The Charleston Poplar Surround is hand crafted using a combination of solid Poplar and Poplar veneer. Using the unique wood type of Poplar allows you the option to paint or stain this elegantly detailed surround. The surround is constructed using easy to assemble cam locks, and available in corner and wall units.



Distributed by:



Refractory tan brick panels



Gas flux liner kit.



Square brass trim kit.



Brass Louver Kit (For VF-4 only)



Screen panel kit (For VF-5 & VF6 only)



Arch kit (For VF-5 & VF6 only)



Glass door kit (For VF-5 & VF6 only)



Brass hood (For VF-5 & VF6 only)

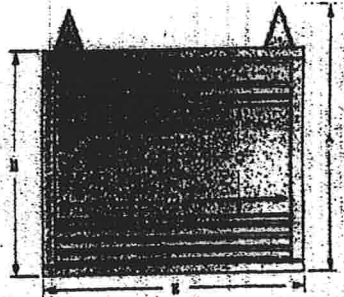


Wall switch or optional wireless remote available (For VF-4MV, VF-5 & VF-6)

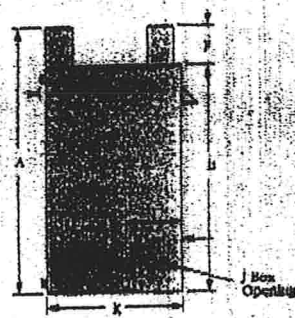


Wall thermostat (For VF-4MV, VF-5 & VF-6)

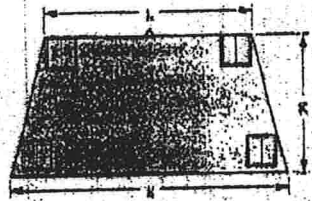
Front View



Left Side View



Top View



Vent-Free Product Dimensions

| | VF-4000/5000C | VF-6000C |
|---|---------------|----------|
| A | 42-1/8" | 42-1/8" |
| B | 31-1/2" | 36-5/8" |
| C | 20" | 20" |
| D | 30" | 34" |
| E | 40" | 40" |
| F | 5-1/2" | 5-1/2" |
| G | 1-1/2" | 1-1/2" |
| H | 3-3/4" | 3-3/4" |
| I | 8-1/2" | 8-1/2" |
| J | 3" | 3" |
| K | 19-1/8" | 19-1/8" |
| L | 27" | 28-1/2" |

Btu Chart

| Model | Natural | Propane |
|--------------------------|-----------------|-----------------|
| VF-4000 - manual | 14,000 - 25,000 | 14,000 - 25,000 |
| VF-4000/5000 - millivolt | 19,500 - 25,000 | 19,500 - 25,000 |
| VF-6000 | 25,000 - 32,000 | 25,000 - 32,000 |

Framing Dimension

| Model | Width | Height | Depth |
|--------------|-------|---------|---------|
| VF-4000/5000 | 37" | 37-1/4" | 15-1/2" |
| VF-6000 | 41" | 42-3/8" | 19-1/2" |

NOTE: Diagrams and illustrations are not to scale. Product designs, materials, dimensions, specifications, colors and prices subject to change or discontinuation without notice. Built to ANSI Z21.11.2 standard and approved by A.G.A. Report # 12970017.

Consult your distributor for local fireplace code information.



SUPERIOR

www.LennoxHearthProducts.com

Printed in U.S.A. ©2001 Lennox Hearth Products • 1110 West Telford Ave., Orange, CA 92665-4150
Lennox Hearth Products Direct Vent heater rated gas appliances include a 20-year limited warranty.

P/N 904442 REV B 2/00

May 01 2003 07:51AM P2

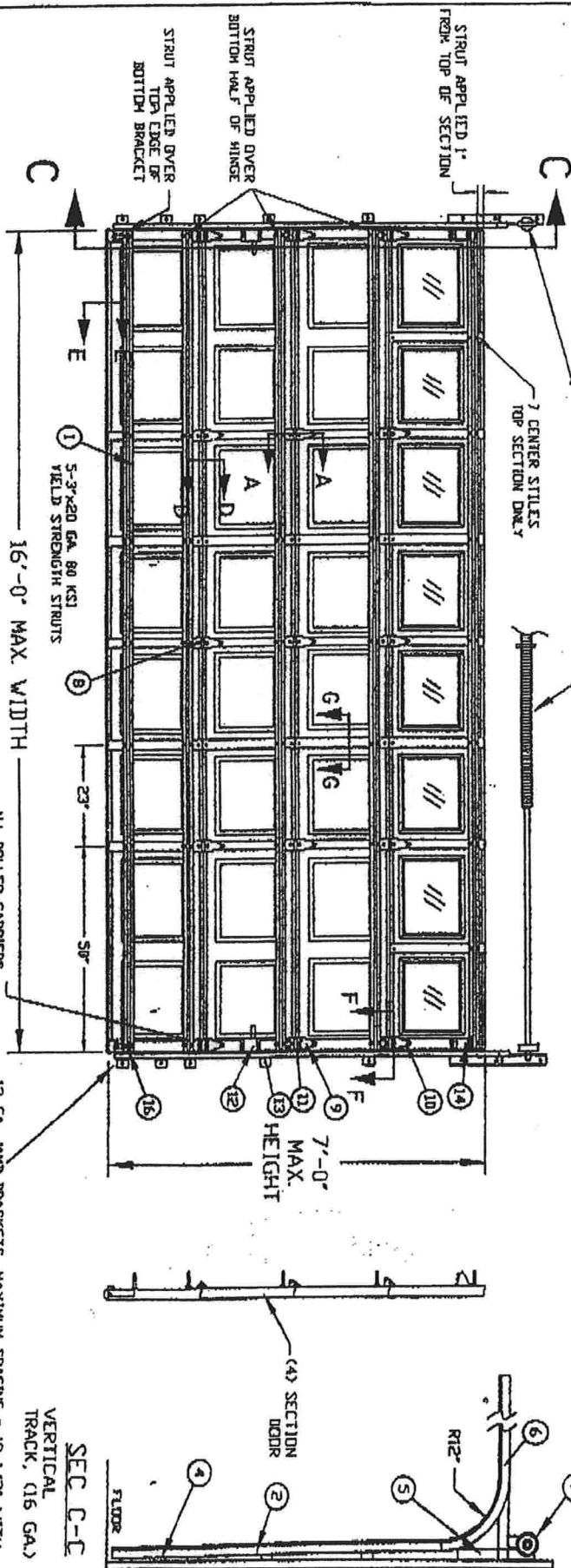
FAX NO.: +386 758 4735

FROM: LAKE CITY INDUSTRIES

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT: 21'
3. SECTION HEIGHTS OF 21' OR MORE ARE ALLOWED AND MUST BE SET IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION, AS TESTED WITH 1/8" BSB GLASS OR EQUIVALENT OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER STEM IS 51" (7' AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOW.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE Q.L. OR AS TESTED.
9. DROP IN TYPE OF INSTALLATION IS OPTIONAL.

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



INSIDE ELEVATION

16'-0" MAX. WIDTH

ALL ROLLER CARRIERS
AND HINGES ARE 14 GA.

12 GA. JAMB BRACKETS, MAXIMUM SPACING = 19-1/2" WITH
LOWEST BRACKET APPROX. 3" FROM FLOOR, 2ND BRACKET
NEAR THE HORIZONTAL & OF THE BOTTOM SECTION, 3RD
BRACKET NEAR THE TOP OF THE BOTTOM SECTION

SEC C-C

VERTICAL
TRACK, (16 GA.)

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

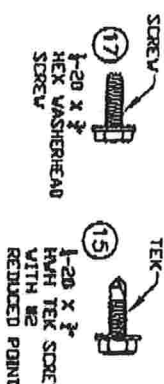
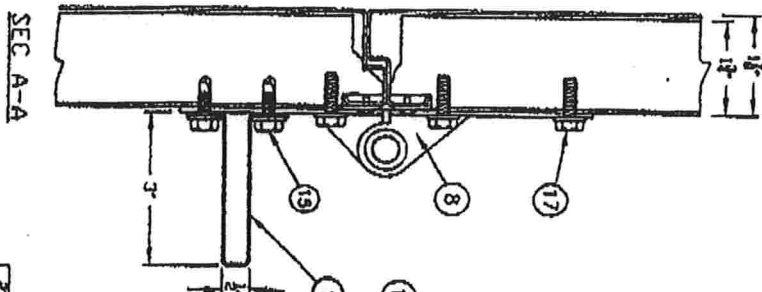
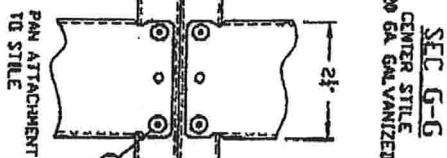
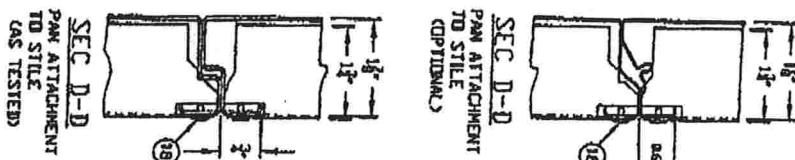
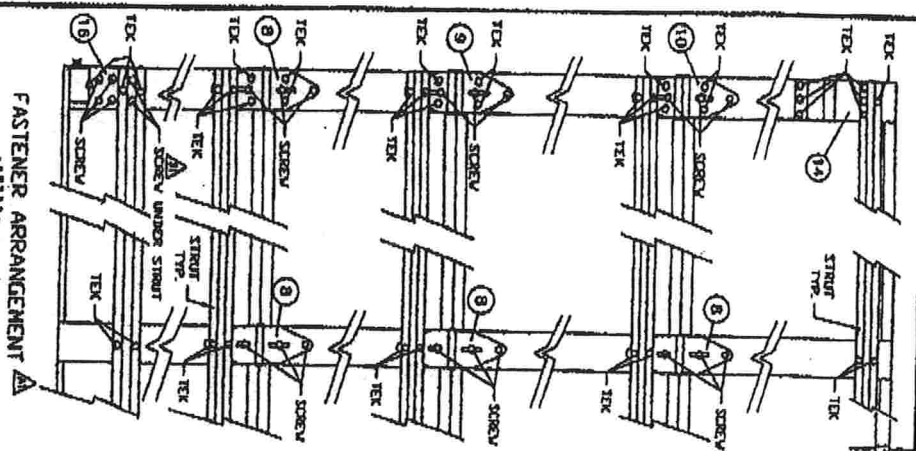
TEST REPORTS ON FILE VIDEO 10/19/00 (002933)

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

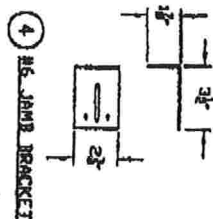


LISTED
SECCI
PSI & ISI
REPORT No. 2202

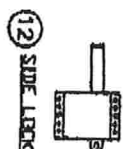
| | | | |
|---|---------------------------|----------------------------------|---|
| GALCO DOORS | | | |
| SERIES 7400, EXTERIOR STEEL = 017 MIN GAT TESTED | | | |
| SERIES 7825, EXTERIOR STEEL = 019 MIN A | | | |
| SERIES 7524, EXTERIOR STEEL = 024 MIN A | | | |
| (TESTED WITH WINDOWS) | | | |
| MAXIMUM
DOOR
WIDTH | MAXIMUM
DOOR
HEIGHT | TYPICAL
CTR. STYLE
SPACING | STRUTS
80 KSI
GRT.
VERTICAL
TRACK |
| 16' | 7' | 23" | 3" 5 2 IN. |
| <div> <p>GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538</p> </div> | | | |
| DRAWING NO. 11-10-00 | | REVISED (A) 11-10-00 | |
| DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR - WINDLOAD +20 PSF | | DRAWING NUMBER: W13220-1 | |
| PAGE 1 OF 2 | | | |



5-3/4\"/>



TRACK
16 GA. COSS MIN.



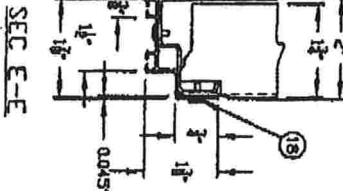
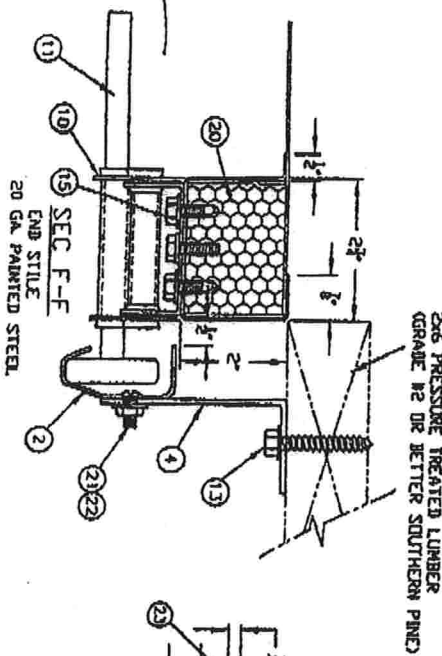
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|------|----------|----|------------------|
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| B | 12-1-00 | GM | REV. FOR 1/4\"/> |

FASTENER ARRANGEMENT A

PE No. 024280

PROFESSIONAL
NORTH CAROLINA
SEAL
PE No. 024280

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



| REV. | DATE | BY | DESCRIPTION |
|------|----------|----|------------------|
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| B | 12-1-00 | GM | REV. FOR 1/4\"/> |

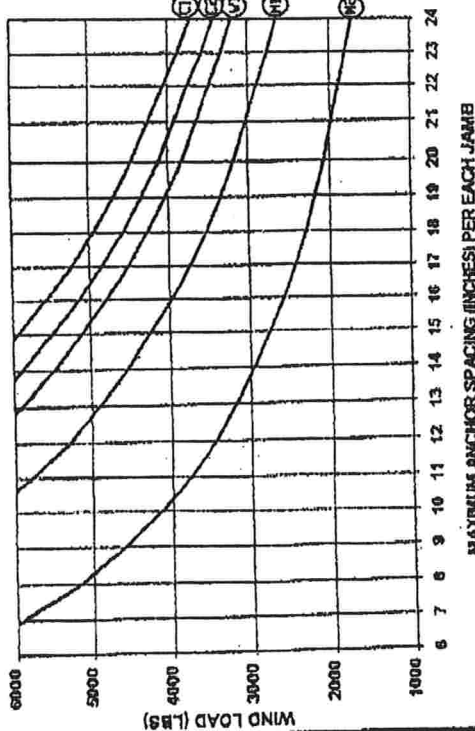
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| 99 | 1-20 x 3\"/> |
| 100 | 1-20 x 3\"/> |



GENERAL AMERICAN DOOR COMPANY
5008 BASSEL AVE. ROAD
MONTGOMERY, IL 60538

SCALE: NONE
DATE: 11-27-00
REVISED: (D) 12-1-00
PAGE 2 OF 2
V13220-2

WIND LOAD vs ANCHOR SPACING



DESIGN (LBS) X GARAGE DOOR AREA (WIDTH-FT X HEIGHT-FT) = WIND LOAD (LBS)

EXAMPLE

30 LBS. X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

USE 22" SPACING

USE 21" SPACING

USE 19" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS

HORIZONTAL FILLER JAMB

MAXIMUM 24" ANCHOR SPACING

FASTENER (TYPICAL)

2x6 VERTICAL JAMB

MAXIMUM 12" END SPACING

2X6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2X6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

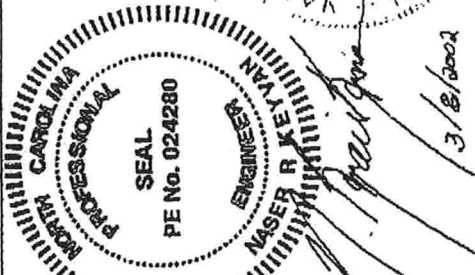
NOTES:

- 1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.
- 2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBC1 STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTD 10, CURRENT EDITION.
- 3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.
- 4) WOOD FRAME BUILDINGS: STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.
- 5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNIT'S COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
- 6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.
- 7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS CMU SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4"
- 8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.
- 9) WASHERS ARE REQUIRED ON ALL FASTENERS.
- 10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.
- 11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.



GENERAL AMERICAN DOOR COMPANY
5000 BASELINE ROAD
MONTGOMERY, IL 60538

| | |
|--|------------------|
| SALE NO. 9-30-99 | REVISED BY: DV |
| DATE: 8-30-99 | REVISED: 8-30-99 |
| DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS | |
| DRAWING NUMBER: A10560 | |



3/8/2002

Shingle

FLORIDA DEPARTMENT OF Community Affairs



Product Approval
USER: Public User

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FL # FL1956-R1
Application Type Revision
Code Version 2004
Application Status Approved
Comments
Archived

Product Manufacturer TAMKO Building Products, Inc.
Address/Phone/Email PO Box 1404
Joplin, MO 64802
(800) 641-4691 ext 2394
fred_oconnor@tamko.com

Authorized Signature
Frederick J. O'Connor
fred_oconnor@tamko.com

Technical Representative
Address/Phone/Email
Frederick J. O'Connor
PO Box 1404
Joplin, MO 64802
(800) 641-4691
fred_oconnor@tamko.com

Quality Assurance Representative
Address/Phone/Email

Category
Subcategory

Roofing
Asphalt Shingles

Compliance Method

Certification Mark or Listing

Certification Agency

Underwriters Laboratories Inc.

Referenced Standard and Year (of
Standard)

Standard
ASTM D 3462

Year
2001

Equivalence of Product Standards
Certified By

Product Approval Method

Method 1 Option A

Date Submitted
Date Validated
Date Pending FBC Approval
Date Approved

06/09/2005
06/20/2005
06/25/2005
06/29/2005

Summary of Products

| FL # | Model, Number or Name | Description |
|------|-----------------------|-------------|
|------|-----------------------|-------------|

slopes of 2:12 or greater. Not approved for use in HVHZ.

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DCA Administration
Department of Community Affairs
Florida Building Code Online
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 Tallahassee, Florida 32399-2100
 (850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

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Product Approval Accepts:





**Underwriters
Laboratories Inc.**

Northbrook Division

333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 6600

June 17, 2005

Tamko Roofing Products
Ms. Kerri Eden
P.O. Box 1404
220 W. 4th Street
Joplin, MO 64802-1404

Our Reference: R2919

This is to confirm that "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage 50 AR", "Glass-Seal AR" manufactured at Tuscaloosa, AL and "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage XL AR", "Heritage 50 AR" manufactured at Frederick, MD and "Heritage 30 AR", "Heritage XL AR", and "Heritage 50 AR" manufactured in Dallas, TX are UL Listed asphalt glass mat shingles and have been evaluated in accordance with ANSI/UL 790, Class A (ASTM E108), ASTM D3462, ASTM D3161 or UL 997 modified to 110 mph when secured with four nails.

Let me know if you have any further questions.

Very truly yours,

Alpesh Patel (Ext. 42522)
Engineer Project
Fire Protection Division

Reviewed by,

Randall K. Laymon (Ext. 42687)
Engineer Sr Staff
Fire Protection Division



Application Instructions for

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS LAMINATED ASPHALT SHINGLES

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

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

IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

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

1. ROOF DECK

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

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

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

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

TAMKO does not recommend re-roofing over existing roof.

2. VENTILATION

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

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

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents. FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

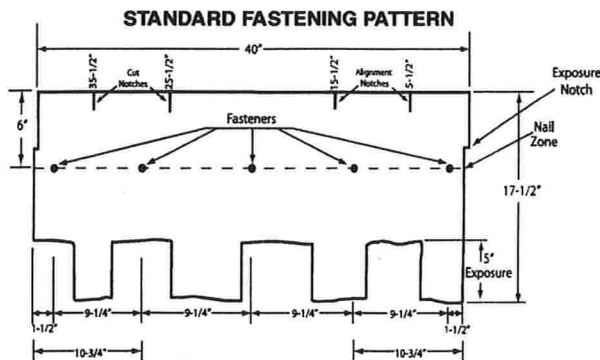
3. FASTENERS

WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).



2) Mansard or Steep Slope Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles.

(Continued)

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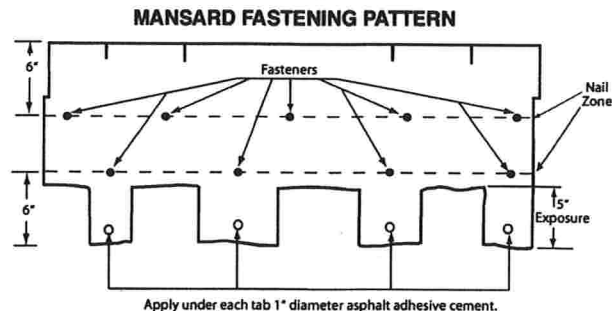
05/06



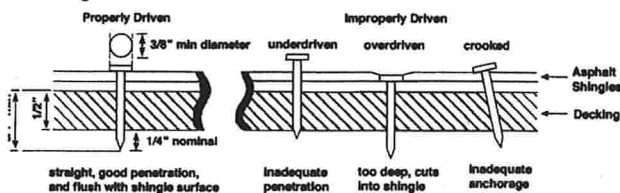
(CONTINUED from Pg. 1)

• **HERITAGE® VINTAGE™ AR** – Phillipsburg, KS **LAMINATED ASPHALT SHINGLES**

Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a \$.25 piece and applied to shingles with a 5 in. exposure, use 9 fasteners per shingle.



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12 gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in. into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles and leaks which are not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

Products which are acceptable for use as underlayment are:

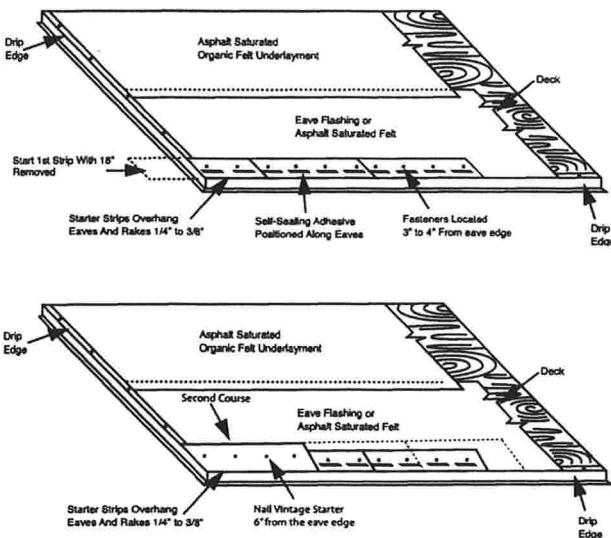
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation maybe required. Contact TAMKO's technical services department for more information)

In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information. TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AR Shingles.

The first starter course may consist of TAMKO Shingle Starter, three tab self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If three tab self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. If using three tab self-sealing shingles or shingle starter, remove 18 in. from first shingle to offset the end joints of the Vintage Starter. Attach the first starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eave edge. The starter course should overhang both the eave and rake edge 1/4 in. to 3/8 in. Over the first starter course, install Heritage Vintage Starter AR and begin at the left rake edge with a full size shingle and continue across the roof nailing the Heritage Vintage Starter AR along a line parallel to and 6 in. from the eave edge.



Note: Do not allow Vintage Starter AR joints to be visible between shingle tabs. Cutting of the starter may be required.

HERITAGE VINTAGE STARTER AR
12 1/2" x 36" 20 PIECES PER BUNDLE
60 LINEAL FT. PER BUNDLE

(Continued)

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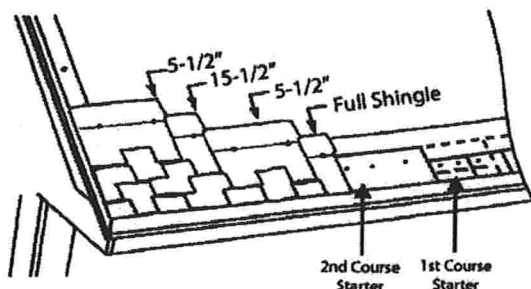
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• **HERITAGE® VINTAGE™ AR** – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge 1/4 in. to 3/8 in.. To begin the second course, align the right side of the shingle with the 5-1/2 in. alignment notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is 1/4" to 3/8". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pieces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION

TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

Following valley metal application; a 9" to 12" wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6" onto metal valley flashing) and on top of the valley underlayment. The valley will be completed with shingle application.

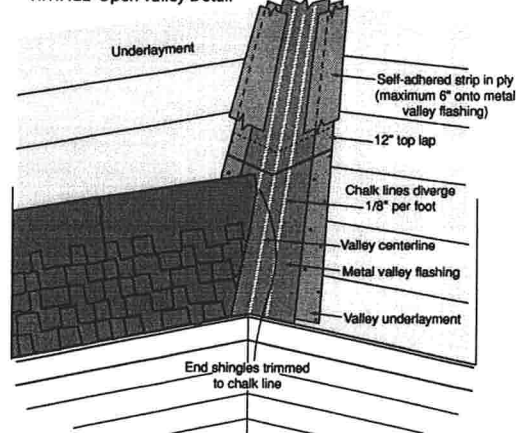
SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)

- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley centerline.
- The lower end should diverge from each other by 1/8" per foot. Thus, for an 8' long valley, the chalk lines should be 7" either side of the centerline at the eaves and for a 16' valley 8".

As shingles are applied toward the valley, trim the last shingle in each course to fit on the chalk line. Never use a shingle trimmed to less than 12" in length to finish a course running into a valley. If necessary, trim the adjacent shingle in the course to allow a longer portion to be used.

- Clip 1" from the upper corner of each shingle on a 45° angle to direct water into the valley and prevent it from penetrating between the courses.
- Form a tight seal by cementing the shingle to the valley lining with a 3" width of asphalt plastic cement (conforming to ASTM D 4586).

VINTAGE Open Valley Detail



• CAUTION:

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

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

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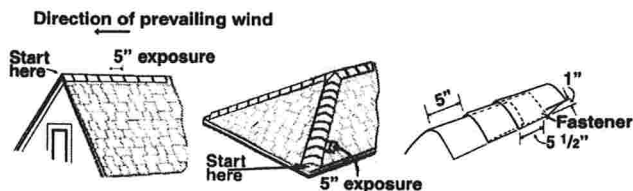
• **HERITAGE® VINTAGE™ AR** – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

8. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

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

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLE IN COLD WEATHER.



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

TAMKO®, Moisture Guard Plus®, Nail Fast® and Heritage® are registered trademarks and Vintage™ is a trademark of TAMKO Building Products, Inc.

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| | |
|--------------------|--------------------------|
| FL # | FL5108 |
| Application Type | New |
| Code Version | 2004 |
| Application Status | Approved |
| Comments | |
| Archived | <input type="checkbox"/> |

Product Manufacturer
Address/Phone/Email

MI Windows and Doors
650 W Market St
Gratz, PA 17030
(717) 365-3300 ext 2101
surich@miwd.com

Authorized Signature

Steven Ulrich
surich@miwd.com

Technical Representative
Address/Phone/Email

Quality Assurance Representative
Address/Phone/Email

Window



(Validator / Operations Administrator)

AAMA CERTIFICATION PROGRAM



AUTHORIZATION FOR PRODUCT CERTIFICATION

MI Windows & Doors, Inc.
P.O. Box 370
Gratz, PA 17030-0370

Attn: Bill Emley

The product described below is hereby approved for listing in the next issue of the AAMA Certified Products Directory. The approval is based on successful completion of tests, and the reporting to the Administrator of the results of tests, accompanied by related drawings, by an AAMA Accredited Laboratory.

- The listing below will be added to the next published AAMA Certified Products Directory.

| SPECIFICATION | RECORD OF PRODUCT TESTED | | | | LABEL
ORDER
NO. |
|---|--------------------------|---|-----------------------------|-----------------------------|-----------------------|
| AAMA/NWDOA 101/I.S. 2-97
H-R55"-36x62 | | | | | |
| COMPANY AND PLANT LOCATION | CODE
NO. | SERIES MODEL &
PRODUCT DESCRIPTION | MAXIMUM SIZE TESTED | | By
Request |
| MI Windows & Doors, Inc. (Oldsmar, FL)
MI Windows & Doors, Inc. (Smyrna, TN) | MTL-8
MTL-9 | 185/3185 SH (Fin)
(AL)(OD)(OG)
(ASTM) | <u>FRAME</u>
3'0" x 5'2" | <u>SASH</u>
2'10" x 2'7" | |

- This Certification will expire May 14, 2008 and requires validation until then by continued listing in the current AAMA Certified Products Directory.
- Product Tested and Reported by: Architectural Testing, Inc.

Report No.: D1-50360.02

Date of Report: June 14, 2004

NOTE: PLEASE REVIEW,
AND ADVISE ALJ IMMEDIATELY
IF DATA, AS SHOWN, NEEDS
CORRECTION.

Date: August 1, 2005

cc: AAMA
JGS/df
ACP-04 (Rev. 5/03)

Validated for Certification:

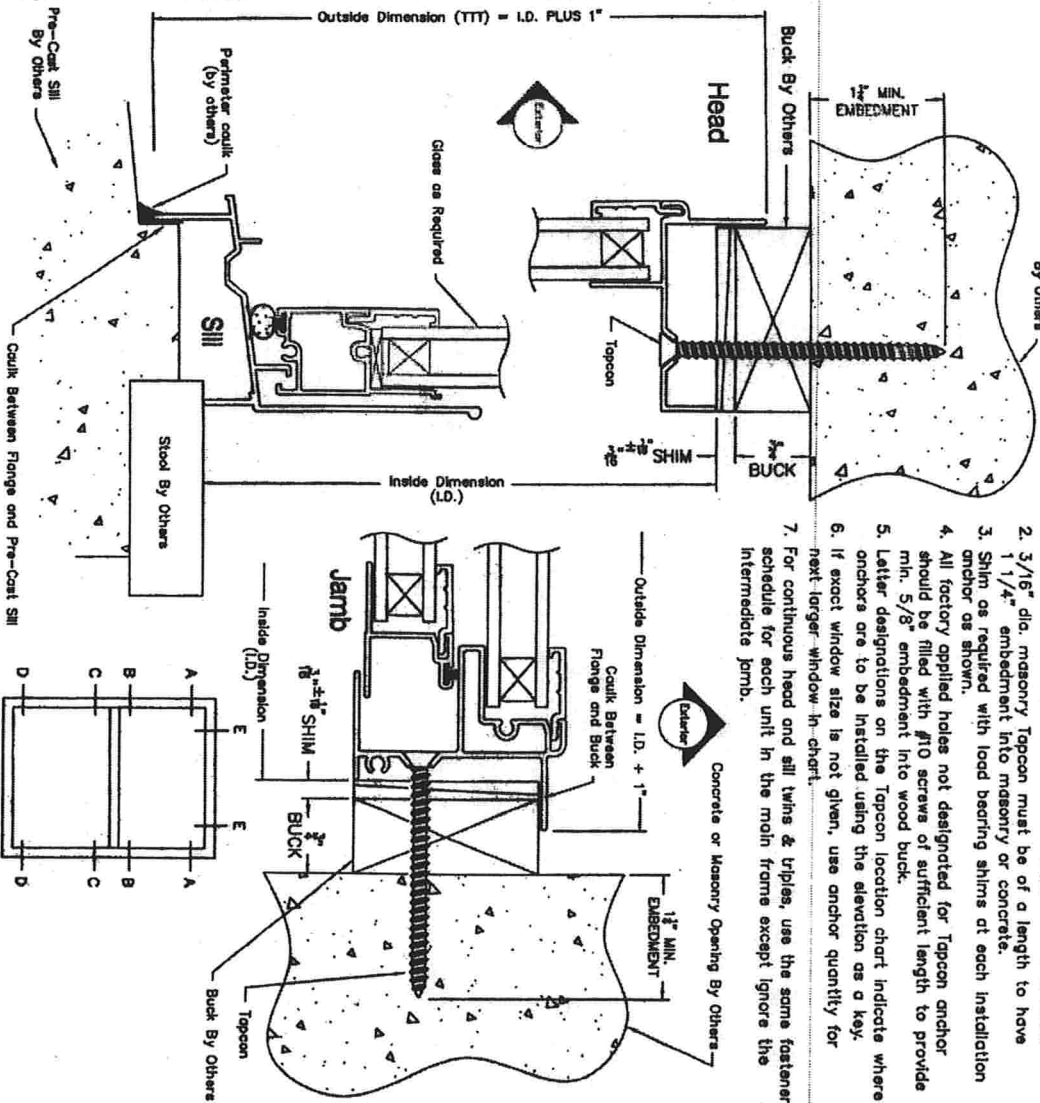
Associated Laboratories, Inc.

Authorized for Certification:

American Architectural Manufacturers Association

ONE BY (3/4) BUCKS (SHOWN)

1. Before installation, caulk back of flange, or face of buck.
2. 3/16" dia. masonry Topcon must be of a length to have 1 1/4" embedment into masonry or concrete.
3. Shim as required with load bearing shims at each installation anchor as shown.
4. All factory applied holes not designated for Topcon anchor should be filled with #10 screws of sufficient length to provide min. 5/8" embedment into wood buck.
5. Letter designations on the Topcon location chart indicate where anchors are to be installed using the elevation as a key.
6. If exact window size is not given, use anchor quantity for next larger window in chart.
7. For continuous head and sill twins & triples, use the same fastener schedule for each unit in the main frame except ignore the intermediate jamb.



TWO BY (1 1/2) BUCKS

"TWO BY" bucks are engineered and fastened to the masonry opening BY OTHERS.

Follow the same instructions and fastener requirements for "one by" bucks except use #10 screws of sufficient length for 1 1/4" minimum embedment into buck.

* TAPCON LOCATION CHART

| CODE | WINDOW ID | FASTENER LOCATIONS | | | |
|------|------------------|--------------------|----------------|------------------|------------------|
| | | UP TO DP35 | DP35.1 TO DP65 | DP65.1 TO DP85.3 | DP85.3 TO DP98.3 |
| 12 | 18 1/8 x 25 | A D & E | A D & E | A D & E | A D & E |
| 13 | 18 1/8 x 37 3/8 | A D & E | A D & E | A D & E | A D & E |
| 14 | 18 1/8 x 49 5/8 | A D & E | A D & E | A D & E | A D & E |
| 15 | 18 1/8 x 62 1/8 | A D & E | A D & E | A D & E | A D & E |
| 16 | 18 1/8 x 71 | A D & E | A D & E | A D & E | A D & E |
| 17 | 18 1/8 x 83 | A D & E | A D & E | A D & E | A D & E |
| 18 | 25 1/2 x 25 | A D & E | A D & E | A D & E | A D & E |
| 19 | 25 1/2 x 37 3/8 | A D & E | A D & E | A D & E | A D & E |
| 20 | 25 1/2 x 49 5/8 | A D & E | A D & E | A D & E | A D & E |
| 21 | 25 1/2 x 62 1/8 | A D & E | A D & E | A D & E | A D & E |
| 22 | 25 1/2 x 71 | A D & E | A D & E | A D & E | A D & E |
| 23 | 36 x 25 | A D & E | A D & E | A D & E | A D & E |
| 24 | 36 x 37 3/8 | A D & E | A D & E | A D & E | A D & E |
| 25 | 36 x 49 5/8 | A D & E | A D & E | A D & E | A D & E |
| 26 | 36 x 62 1/8 | A D & E | A D & E | A D & E | A D & E |
| 27 | 36 x 71 | A D & E | A D & E | A D & E | A D & E |
| 28 | 36 x 83 | A D & E | A D & E | A D & E | A D & E |
| 29 | 52 1/8 x 25 | A D & E | A D & E | A D & E | A D & E |
| 30 | 52 1/8 x 37 3/8 | A D & E | A D & E | A D & E | A D & E |
| 31 | 52 1/8 x 49 5/8 | A D & E | A D & E | A D & E | A D & E |
| 32 | 52 1/8 x 62 1/8 | A D & E | A D & E | A D & E | A D & E |
| 33 | 52 1/8 x 71 | A D & E | A D & E | A D & E | A D & E |
| 34 | 52 1/8 x 83 | A D & E | A D & E | A D & E | A D & E |
| 35 | 52 1/8 x 95 1/8 | A D & E | A D & E | A D & E | A D & E |
| 36 | 52 1/8 x 107 1/8 | A D & E | A D & E | A D & E | A D & E |
| 37 | 52 1/8 x 119 1/8 | A D & E | A D & E | A D & E | A D & E |
| 38 | 52 1/8 x 131 1/8 | A D & E | A D & E | A D & E | A D & E |
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| 69 | 52 1/8 x 503 1/8 | A D & E | A D & E | A D & E | A D & E |
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| 73 | 52 1/8 x 551 1/8 | A D & E | A D & E | A D & E | A D & E |
| 74 | 52 1/8 x 563 1/8 | A D & E | A D & E | A D & E | A D & E |
| 75 | 52 1/8 x 575 1/8 | A D & E | A D & E | A D & E | A D & E |
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| 77 | 52 1/8 x 599 1/8 | A D & E | A D & E | A D & E | A D & E |
| 78 | 52 1/8 x 611 1/8 | A D & E | A D & E | A D & E | A D & E |
| 79 | 52 1/8 x 623 1/8 | A D & E | A D & E | A D & E | A D & E |
| 80 | 52 1/8 x 635 1/8 | A D & E | A D & E | A D & E | A D & E |
| 81 | 52 1/8 x 647 1/8 | A D & E | A D & E | A D & E | A D & E |
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| 84 | 52 1/8 x 683 1/8 | A D & E | A D & E | A D & E | A D & E |
| 85 | 52 1/8 x 695 1/8 | A D & E | A D & E | A D & E | A D & E |
| 86 | 52 1/8 x 707 1/8 | A D & E | A D & E | A D & E | A D & E |
| 87 | 52 1/8 x 719 1/8 | A D & E | A D & E | A D & E | A D & E |
| 88 | 52 1/8 x 731 1/8 | A D & E | A D & E | A D & E | A D & E |
| 89 | 52 1/8 x 743 1/8 | A D & E | A D & E | A D & E | A D & E |
| 90 | 52 1/8 x 755 1/8 | A D & E | A D & E | A D & E | A D & E |
| 91 | 52 1/8 x 767 1/8 | A D & E | A D & E | A D & E | A D & E |
| 92 | 52 1/8 x 779 1/8 | A D & E | A D & E | A D & E | A D & E |
| 93 | 52 1/8 x 791 1/8 | A D & E | A D & E | A D & E | A D & E |
| 94 | 52 1/8 x 803 1/8 | A D & E | A D & E | A D & E | A D & E |
| 95 | 52 1/8 x 815 1/8 | A D & E | A D & E | A D & E | A D & E |
| 96 | 52 1/8 x 827 1/8 | A D & E | A D & E | A D & E | A D & E |
| 97 | 52 1/8 x 839 1/8 | A D & E | A D & E | A D & E | A D & E |
| 98 | 52 1/8 x 851 1/8 | A D & E | A D & E | A D & E | A D & E |
| 99 | 52 1/8 x 863 1/8 | A D & E | A D & E | A D & E | A D & E |
| 100 | 52 1/8 x 875 1/8 | A D & E | A D & E | A D & E | A D & E |



MI HOME PRODUCTS
GRAITZ, PA

185/3185 SINGLE HUNG FLANGE FRAME
INSTALLATION DETAILS & FASTENER SCHEDULE

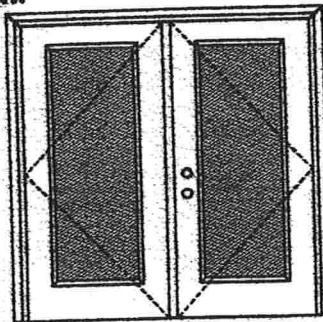
DATE: 08/15/04
SCALE: N.T.S.
REV: 1
SHEET: 1 OF 1

Phone: 407.223.4334 Fax: 407.223.4335

XX

Glazed Outswing Unit

COP-WL-JH4162-02

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

Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Double Door

Maximum unit size = 6'0" x 6'8"

Design Pressure**+40.5/-40.5**

Limited water unless special threshold design is used.

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

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

MINIMUM ASSEMBLY DETAIL:

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

MINIMUM INSTALLATION DETAIL:

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

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

100 Series



133, 135 Series



136 Series



680 Series



822 Series

1/2 GLASS:

105 Series*



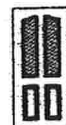
106, 160 Series*



128 Series*



200 Series*



12 RL, 23 RL, 24 RL Series*



107 Series*



108 Series



304 Series

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

Johnson
EntrySystems

March 29, 2002

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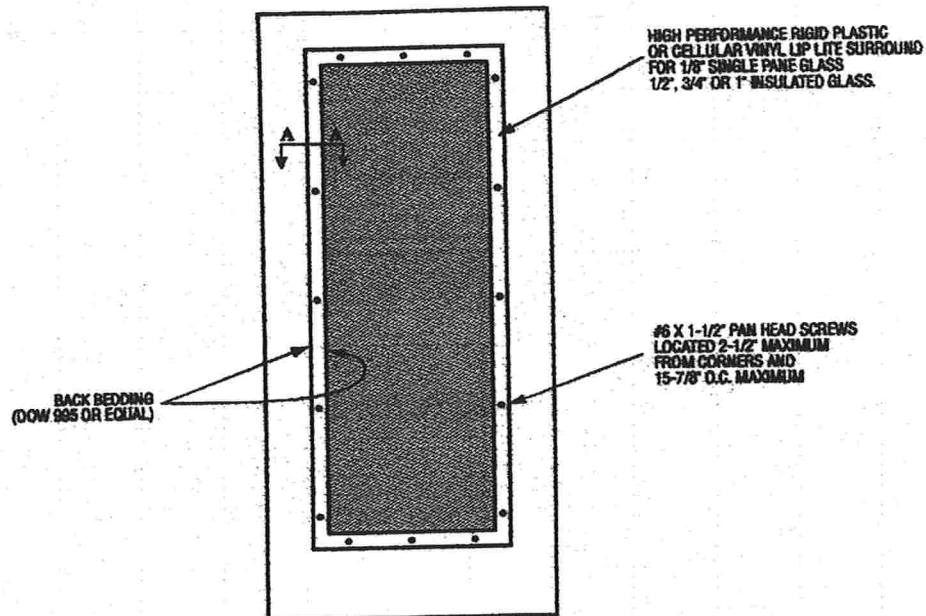
PREMDOR Collection
Premium Quality Doors



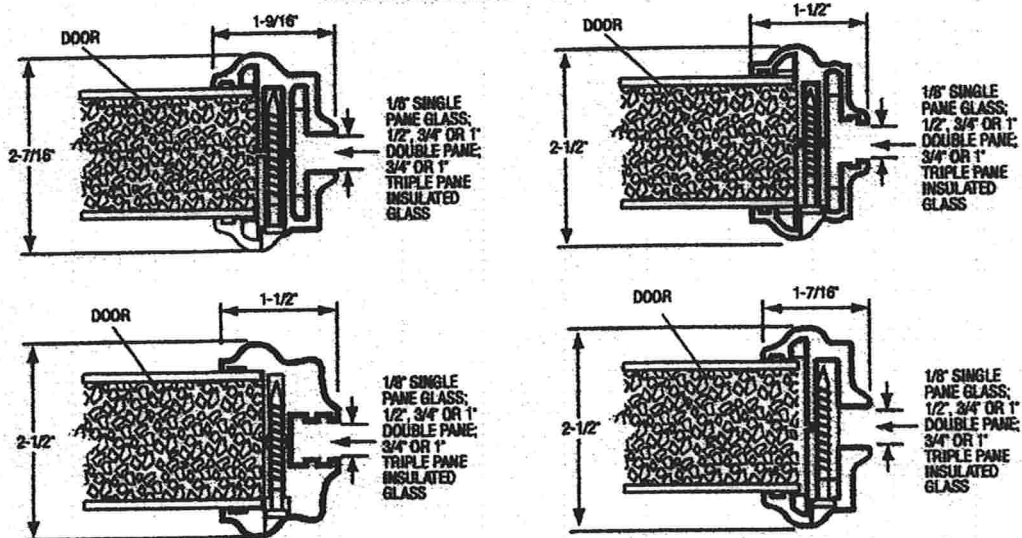
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GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



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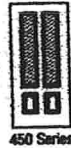
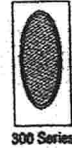
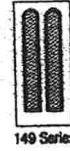
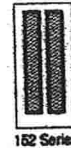
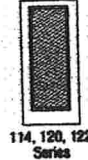
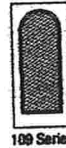
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Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS**APPROVED DOOR STYLES:**
3/4 GLASS:**FULL GLASS:****CERTIFIED TEST REPORTS:**

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

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

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

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EntrySystems

March 29, 2002
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PREMIER Collection
Premium Quality Doors



Exclusively from

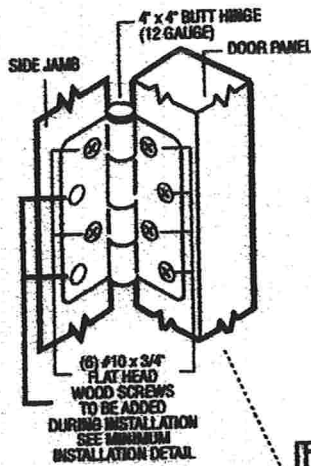
Masonite
Masonite International Corporation

XX
Unit

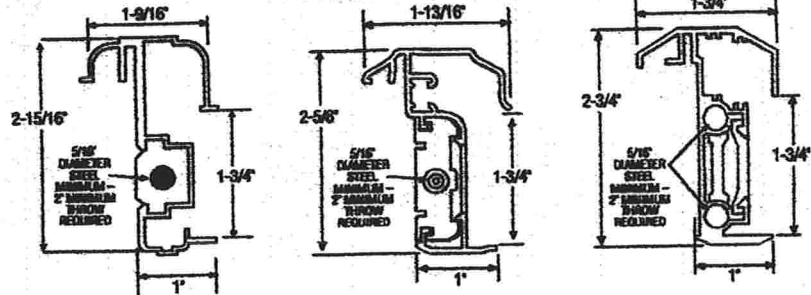
MAD-WL-MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR

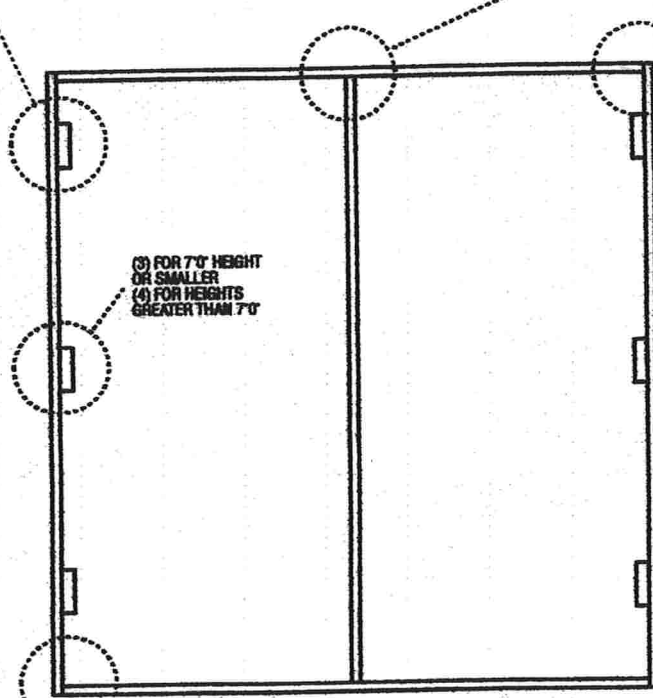
TYPICAL HINGE ATTACHMENT



TYPICAL ASTRAGAL PROFILES

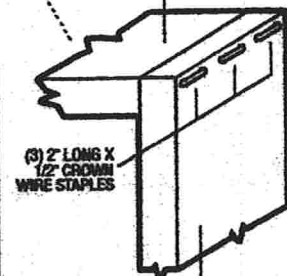


ALUMINUM EXTRUDED ASTRAGAL (0.06" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDRICAL/DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS - LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



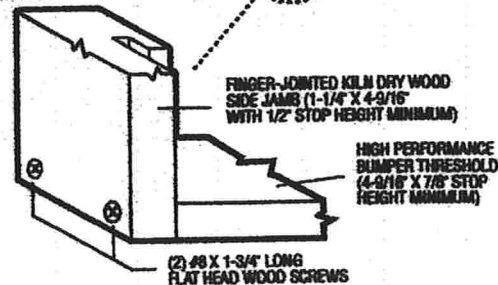
TYPICAL HEADER & SIDE JAMB ATTACHMENT

FINGER-JOINTED KILN DRY WOOD FRAME HEADER (1-1/4" X 4-9/16" WITH 1/2" STOP HEIGHT MINIMUM)



FINGER-JOINTED KILN DRY WOOD SIDE JAMB (1-1/4" X 4-9/16" WITH 1/2" STOP HEIGHT MINIMUM)

TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT

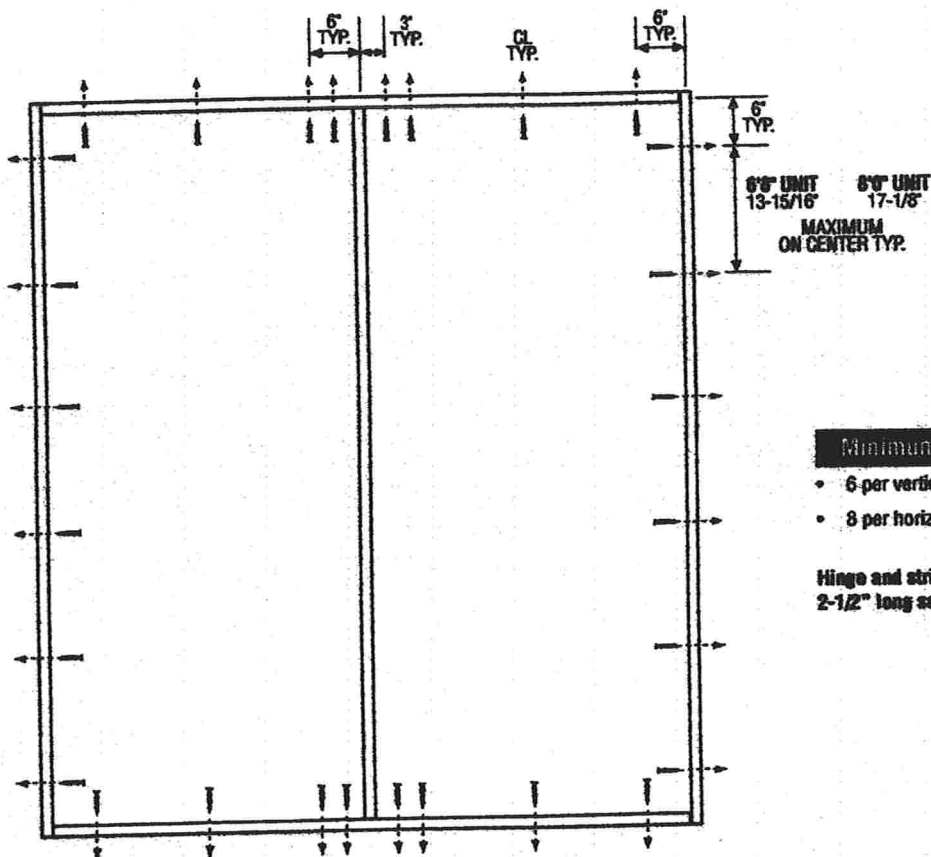


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PREMIER Collection
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DOUBLE DOOR



Minimum Fastener Count:

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

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

Latching Hardware:

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

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade County approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.