

DATE 02/22/2008

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

PERMIT
000026793

APPLICANT LINDA RODER PHONE 782-2281
ADDRESS 387 SW KEMP CT LAKE CITY FL 32024
OWNER RONALD & JOANNE KUNTSEN PHONE 754-2717
ADDRESS 339 SW TAMARACK LOOP LAKE CITY FL 32024
CONTRACTOR JOEL PHINNEY PHONE 867-1499
LOCATION OF PROPERTY 90W, TL ON 247S, TR ON TAMARACK LOOP, 1ST LOT ON LEFT
PAST LEGION DRIVE

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 114000.00
HEATED FLOOR AREA 1536.00 TOTAL AREA 2280.00 HEIGHT STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB
LAND USE & ZONING RR MAX. HEIGHT 16
Minimum Set Back Requirements: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00
NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 16-4S-16-03036-001 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES 1.80

CBC1256243
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 08-0019 BK JH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD

Check # or Cash 1240

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 \$ 570.00 CERTIFICATION FEE \$ 11.40 SURCHARGE FEE \$ 11.40
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 667.80
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 RECEIVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGRESS WHEN THE PERMIT HAS RECEIVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

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COMMENTS: ONE FOOT ABOVE THE ROADCheck # or Cash per 1240**FOR BUILDING & ZONING DEPARTMENT ONLY**

(footer/Slab)

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

BUILDING PERMIT FEE \$ 570.00 CERTIFICATION FEE \$ 11.40 SURCHARGE FEE \$ 11.40
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ **TOTAL FEE** 667.80
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The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Ronald and Joanne
Knutser

Notice of Authorization

I, Joel Phinney, hereby authorize Linda Roder or Melanie Roder to be my Representative and act on my behalf in all aspects for applying for a Building Permit to be located in Columbia County.

X Joel Phinney
Contractor's Signature

2-22-08
Date

Sworn to and Subscribed before me this 22 day of Feb, 2007
by Joel Phinney, who

☒ is Personally Known or

_____ has produced _____ as identification.

Linda Roder
Notary Public



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

Notary Stamp



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

CK# 1238

Columbia County Building Permit Application

For Office Use Only Application # 0801-32 Date Received 1/9/08 By GT Permit # 26793
 Zoning Official BLK Date 15.01.08 Flood Zone X FEMA Map # N/A Zoning RR
 Land Use RVL0 Elevation N/A MFE 1st above Rd River N/A Plans Examiner OK JTH Date 1-14-08
 Comments MH to be removed
☒ NOC ☒ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel #
☐ Dev Permit # ☐ In Floodway ☐ Letter of Authorization from Contractor
☐ Unincorporated area ☐ Incorporated area ☐ Town of Fort White ☐ Town of Fort White Compliance letter

Fax

Name Authorized Person Signing Permit Linda RoderPhone 752-2281Address 387 SW Kemp Ct. L.C. 32024Owners Name Ronald + Joanne KnutsenPhone 754-2717911 Address 339 SW Tamarack Dr LP Lake City FL 32024Contractors Name Joel PhinneyPhone 867-1499Address 301 NW Cole Terr, L.C. 32055Fee Simple Owner Name & Address NABonding Co. Name & Address NAArchitect/Engineer Name & Address Will MyersMortgage Lenders Name & Address CCBCircle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress EnergyProperty ID Number 16-45-16-03036-001 Estimated Cost of Construction 120K

Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____

Driving Directions Hwy 90 West, Lon CR 247, Ron Tamarack Loop,
1st lot on left past Legion Dr.Number of Existing Dwellings on Property 1 MH to be movedConstruction of Single Family DwellingTotal Acreage 1.8 acres Lot Size 1.8 acresDo you need a - Culvert Permit or Culvert Waiver or Have an Existing DriveTotal Building Height 16'2"Actual Distance of Structure from Property Lines - Front 50' Side 20' Side 15'10" Rear 23'1"Number of Stories 1 Heated Floor Area 1536 Total Heated Floor Area 1536 Roof Pitch 6-122280

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.

Columbia County Building Permit Application

Application # _____

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT 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.

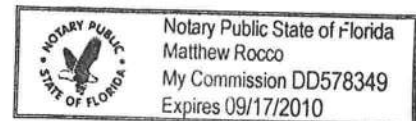
OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Owners Signature _____

Affirmed under penalty of perjury to by the Owner and subscribed before me this 23rd day of JAN 2008
Personally known _____ or Produced Identification FL DL

State of Florida Notary Signature (For the Owner) _____

SEAL:



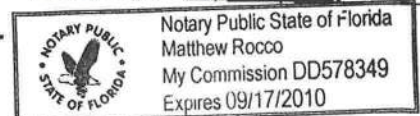
CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

Contractor's Signature (Permitee) _____

Contractor's License Number CBC-1256243
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 23rd day of JAN 2008
Personally known _____ or Produced Identification FL DL

SEAL:



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Knutson Residential Whole Building Performance Method A

Project Name: **Skyline Homes - Burley Road Spec**
 Address: **Lot: , Sub: , Plat:**
 City, State: **Lake City, FL 32025-**
 Owner: **Spec House**
 Climate Zone: **North**

Builder: **Skyline Homes**
 Permitting Office: **Columbia**
 Permit Number: **26793**
 Jurisdiction Number: **221000**

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?	No	___
6. Conditioned floor area (ft ²)	1536 ft ²	___
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(Sngle Default) 212.8 ft ²	___
b. SHGC:		___
(or Clear or Tint DEFAULT)	7b. (Clear) 212.8 ft ²	___
8. Floor types		___
a. Slab-On-Grade Edge Insulation	R=0.0, 176.0(p) ft	___
b. N/A		___
c. N/A		___
9. Wall types		___
a. Frame, Wood, Exterior	R=13.0, 1008.2 ft ²	___
b. Frame, Wood, Adjacent	R=13.0, 148.0 ft ²	___
c. N/A		___
d. N/A		___
e. N/A		___
10. Ceiling types		___
a. Under Attic	R=30.0, 1536.0 ft ²	___
b. N/A		___
c. N/A		___
11. Ducts		___
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 45.0 ft	___
b. N/A		___
12. Cooling systems		___
a. Central Unit	Cap: 40.0 kBtu/hr SEER: 15.00	___
b. N/A		___
c. N/A		___
13. Heating systems		___
a. Electric Heat Pump	Cap: 40.0 kBtu/hr HSPF: 8.00	___
b. N/A		___
c. N/A		___
14. Hot water systems		___
a. Electric Resistance	Cap: 80.0 gallons EF: 0.92	___
b. N/A		___
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		___
15. HVAC credits	PT, ___	___
(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		___

Glass/Floor Area: 0.14

Total as-built points: 21643

Total base points: 21891

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: 12.31.07

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

OWNER/AGENT: *[Signature]*DATE: 1-02-07

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



BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Overhang Type/SC Ornt Len Hgt Area X SPM X SOF = Points							
.18	1536.0	18.59	5140.0	1.Single, Clear	W	1.5	8.0	75.0	43.84	0.96	3150.0
				2.Single, Clear	W	1.5	8.0	40.0	43.84	0.96	1680.0
				3.Single, Clear	W	1.5	8.0	3.0	43.84	0.96	126.0
				4.Single, Clear	N	1.5	8.0	15.0	21.73	0.97	315.0
				5.Single, Clear	E	7.5	8.0	18.0	47.92	0.53	460.0
				6.Single, Clear	E	7.5	8.0	13.3	47.92	0.53	339.0
				7.Single, Clear	E	1.5	8.0	12.5	47.92	0.96	573.0
				8.Single, Clear	E	1.5	8.0	16.0	47.92	0.96	734.0
				9.Single, Clear	S	1.5	8.0	20.0	40.81	0.92	753.0
				As-Built Total:				212.8		8130.0	
WALL TYPES Area X BSPM = Points				Type		R-Value		Area X SPM = Points			
Adjacent	148.0	0.70	103.6	1. Frame, Wood, Exterior		13.0		1008.2	1.50	1512.3	
Exterior	1008.2	1.70	1713.9	2. Frame, Wood, Adjacent		13.0		148.0	0.60	88.8	
Base Total:		1156.2	1817.5	As-Built Total:				1156.2	1601.1		
DOOR TYPES Area X BSPM = Points				Type		Area X SPM = Points					
Adjacent	20.0	2.40	48.0	1.Exterior Insulated				20.0	4.10	82.0	
Exterior	20.0	6.10	122.0	2.Adjacent Insulated				20.0	1.60	32.0	
Base Total:		40.0	170.0	As-Built Total:				40.0	114.0		
CEILING TYPES Area X BSPM = Points				Type		R-Value		Area X SPM X SCM = Points			
Under Attic	1536.0	1.73	2657.3	1. Under Attic		30.0		1536.0	1.73 X 1.00		2657.3
Base Total:		1536.0	2657.3	As-Built Total:				1536.0	2657.3		
FLOOR TYPES Area X BSPM = Points				Type		R-Value		Area X SPM = Points			
Slab	176.0(p)	-37.0	-6512.0	1. Slab-On-Grade Edge Insulation		0.0		176.0(p)	-41.20		-7251.2
Raised	0.0	0.00	0.0								
Base Total:			-6512.0	As-Built Total:				176.0	-7251.2		
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
	1536.0	10.21	15682.6	1536.0 10.21 15682.6							

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

ADDRESS: Lot: , Sub: , Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 18955.4				Summer As-Built Points: 20933.7						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
18955.4	0.3250		6160.5	(sys 1: Central Unit 40000btuh ,SEER/EFF(15.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 20934 1.00 (1.09 x 1.147 x 1.00) 0.228 0.950 5657.3 20933.7 1.00 1.250 0.228 0.950 5657.3						

Residential Whole Building Performance Method A - Details

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	1536.0	20.17	5577.0	1.Single, Clear	W	1.5	8.0	75.0	28.84	1.01	2187.0
				2.Single, Clear	W	1.5	8.0	40.0	28.84	1.01	1166.0
				3.Single, Clear	W	1.5	8.0	3.0	28.84	1.01	87.0
				4.Single, Clear	N	1.5	8.0	15.0	33.22	1.00	498.0
				5.Single, Clear	E	7.5	8.0	18.0	26.41	1.27	603.0
				6.Single, Clear	E	7.5	8.0	13.3	26.41	1.27	445.0
				7.Single, Clear	E	1.5	8.0	12.5	26.41	1.02	336.0
				8.Single, Clear	E	1.5	8.0	16.0	26.41	1.02	430.0
				9.Single, Clear	S	1.5	8.0	20.0	20.24	1.04	421.0
				As-Built Total:				212.8		6173.0	
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	148.0	3.60	532.8	1. Frame, Wood, Exterior	13.0		1008.2	3.40		3427.9	
Exterior	1008.2	3.70	3730.3	2. Frame, Wood, Adjacent	13.0		148.0	3.30		488.4	
Base Total:		1156.2	4263.1	As-Built Total:				1156.2		3916.3	
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points						
Adjacent	20.0	11.50	230.0	1.Exterior Insulated				20.0	8.40		168.0
Exterior	20.0	12.30	246.0	2.Adjacent Insulated				20.0	8.00		160.0
Base Total:		40.0	476.0	As-Built Total:					40.0		328.0
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1536.0	2.05	3148.8	1. Under Attic	30.0		1536.0	2.05 X 1.00		3148.8	
Base Total:		1536.0	3148.8	As-Built Total:					1536.0		3148.8
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	176.0(p)	8.9	1566.4	1. Slab-On-Grade Edge Insulation	0.0		176.0(p)	18.80		3308.8	
Raised	0.0	0.00	0.0								
Base Total:		1566.4		As-Built Total:					176.0		3308.8
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
		1536.0	-0.59	-906.2				1536.0	-0.59		-906.2

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

ADDRESS: Lot: , Sub: , Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT									
Winter Base Points: 14125.1				Winter As-Built Points: 15968.6									
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier	= Heating Points
14125.1		0.5540	7825.3	(sys 1: Electric Heat Pump 40000 btuh ,EFF(8.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 15968.6		1.000		(1.069 x 1.169 x 1.00)		0.426		0.950	8080.7
14125.1		0.5540	7825.3	15968.6		1.00		1.250		0.426		0.950	8080.7

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , Lake City, FL, 32025-

PERMIT #:

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

CODE COMPLIANCE STATUS									
BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
6160		7825		7905 21891	5657		8081		7905 21643

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , Lake City, FL, 32025-

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* = 84.9

The higher the score, the more efficient the home.

Spec House, Lot: , Sub: , Plat: , Lake City, FL, 32025-

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 40.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 15.00
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	No	___	c. N/A	___
6. Conditioned floor area (ft ²)	1536 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: 40.0 kBtu/hr
(or Single or Double DEFAULT)	7a(Sngle Default) 212.8 ft ²	___		HSPF: 8.00
b. SHGC:		___	b. N/A	___
(or Clear or Tint DEFAULT)	7b. (Clear) 212.8 ft ²	___	c. N/A	___
8. Floor types		___		___
a. Slab-On-Grade Edge Insulation	R=0.0, 176.0(p) ft	___	14. Hot water systems	
b. N/A	___	___	a. Electric Resistance	Cap: 80.0 gallons
c. N/A	___	___		EF: 0.92
9. Wall types		___	b. N/A	___
a. Frame, Wood, Exterior	R=13.0, 1008.2 ft ²	___	c. Conservation credits	___
b. Frame, Wood, Adjacent	R=13.0, 148.0 ft ²	___	(HR-Heat recovery, Solar	___
c. N/A	___	___	DHP-Dedicated heat pump)	___
d. N/A	___	___		PT, ___
e. N/A	___	___	15. HVAC credits	
10. Ceiling types		___	(CF-Ceiling fan, CV-Cross ventilation,	
a. Under Attic	R=30.0, 1536.0 ft ²	___	HF-Whole house fan,	
b. N/A	___	___	PT-Programmable Thermostat,	
c. N/A	___	___	MZ-C-Multizone cooling,	
11. Ducts		___	MZ-H-Multizone heating)	
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 45.0 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: _____

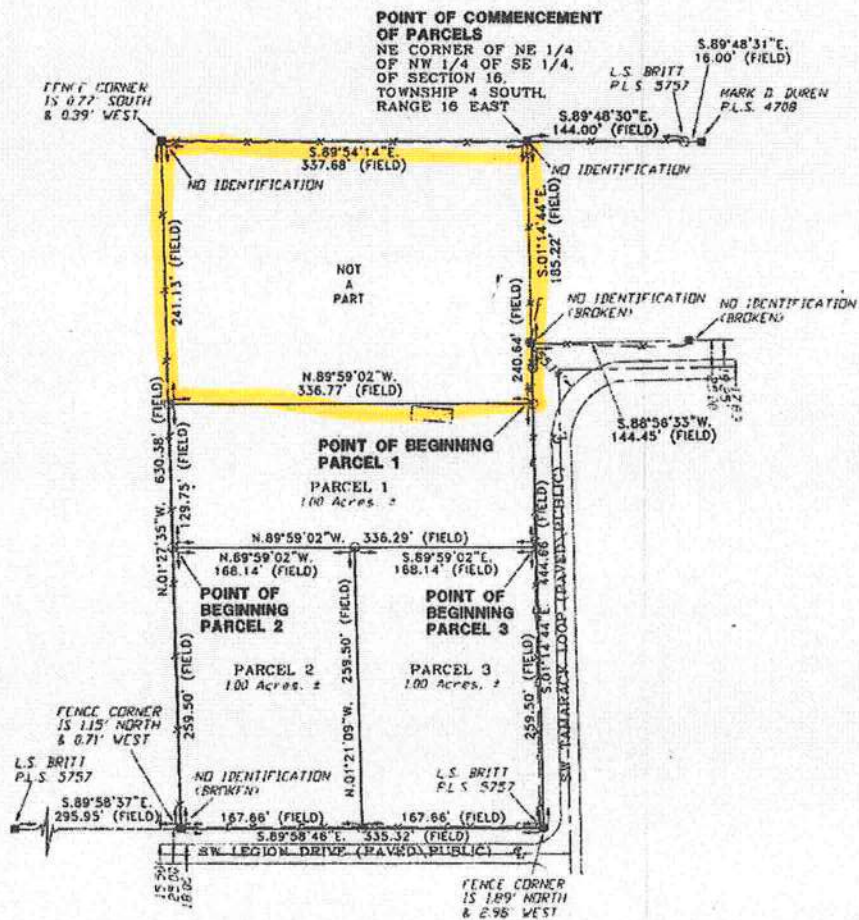
Address of New Home: _____

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 EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLRCPB v4.5.2)



CERTIFIED TO:

MARK COOK

FIELD BOOK: 511 PAGE(S): 251

W. J. L. & C. A. LUK

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

12/04/07 12/06/07
FIELD SURVEY DATE DRAWING DATE

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

① Return To:

Prepared by:
Elaine R. Davis
American Title Services of Lake City, Inc.
330 SW Main Boulevard
Lake City, Florida 32025

File Number: 05-118

Inst: 2005003877 Date: 02/21/2005 Time: 12:23
Doc Stamp-Deed: 546.00
ML DC, P. Dewitt Cason, Columbia County B: 1038 P: 1230

Warranty Deed

Made this February 18, 2005 A.D. By **Joseph G. Eichelsderfer and Marilyn S. Eichelsderfer, husband and wife**, Route 21 Box 4006, Lake City, FL. 32024, hereinafter called the grantor, to **Ronald D. Knutsen and Joanne Knutsen, husband and wife**, whose post office address is: 4743 N. U.S. Highway 441 #18, Lake City, FL. 32055, hereinafter called the grantee:

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

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

See Attached Schedule "A"

Parcel ID Number: 03036-000

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

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

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2004.

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

Signed, sealed and delivered in our presence:

Lisa D. Braswell
Witness Printed Name Lisa D. Braswell

Kimberly A. Albritton
Witness Printed Name Kimberly A. Albritton

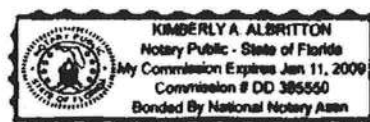
State of Florida
County of Columbia

Joseph G. Eichelsderfer (Seal)
Joseph G. Eichelsderfer

Marilyn S. Eichelsderfer (Seal)
Marilyn S. Eichelsderfer

The foregoing instrument was acknowledged before me this 18th day of February, 2005, by **Joseph G. Eichelsderfer and Marilyn S. Eichelsderfer, husband and wife**, who is/are personally known to me or who has produced drivers license as identification.

Notary Public
Print Name: Kimberly A. Albritton
My Commission Expires: Jan 11, 2009



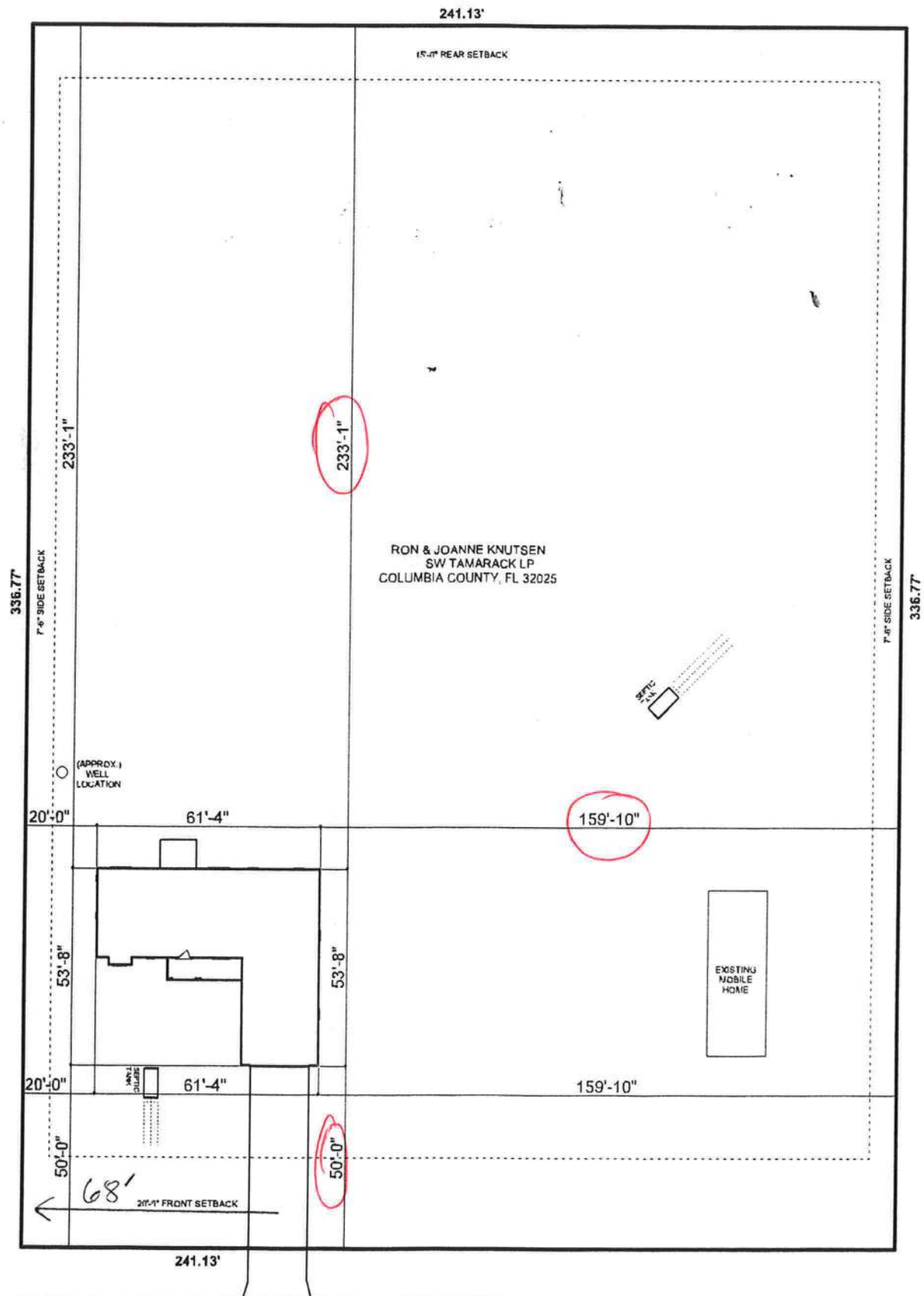
Prepared by:
Elaine R. Davis
American Title Services of Lake City, Inc.
330 SW Main Boulevard
Lake City, Florida 32025

File Number: 05-118

Inst:2005003877 Date:02/21/2005 Time:12:23
Doc Stamp-Deed : 546.00
DC, P. Dewitt Cason, Columbia County B:1038 P:1231

"Schedule A"

Begin at the Northwest Corner of the Northeast 1/4 of the Southeast 1/4 of Section 16, Township 4 South, Range 16 East, and run thence South 89°48'30" East along the North line of said Northeast 1/4 of Southeast 1/4 144 feet; thence South 1°5'45" East 181.54 feet to the North right-of-way line of graded road; thence South 88°50' West 144.03 feet to the West line of said Northeast 1/4 of the Southeast 1/4 ; thence North 1°5'45" West along the West line of said Northeast 1/4 of the Southeast 1/4 184.82 feet to the POINT OF BEGINNING. AND Section 16, Township 4 South, Range 16 East The East 1/2 of the Northeast 1/4 of the Northwest 1/4 of the Southeast 1/4, Less and Except 25 feet off the South side thereof for road, subject only to utility easements.





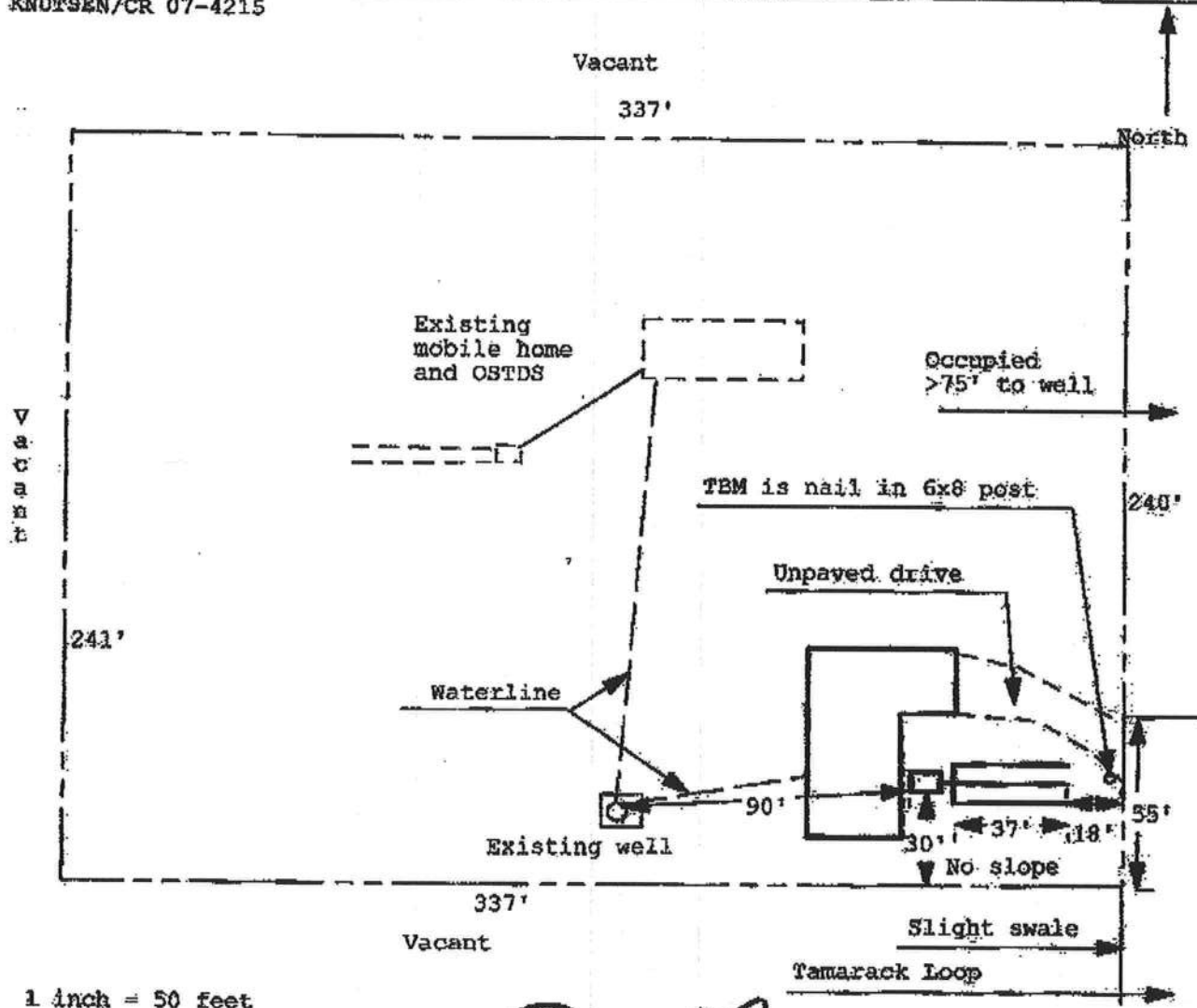
0801-32

0801-32

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 08-0019

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

KNUTSEN/CR 07-4215



Site Plan Submitted By Paul L. Knutsen Date 12/31/07
 Plan Approved ☒ Not Approved ☐ Date 1-7-08

By Mr. A. L. Columbia CPU

Notes: _____

Done Title

permit #

26793

THIS INSTRUMENT WAS PREPARED BY:
FIRST FEDERAL SAVINGS BANK OF FLORIDA
4705 WEST U.S. HIGHWAY 90
P.O. BOX 2029
LAKE CITY, FLORIDA 32056

Inst 200812003965 Date: 2/27/2008 Time: 2:47 PM
19-DC, P. DeWitt Cason, Columbia County Page 1 of 2

PERMIT NO. _____

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF Columbia

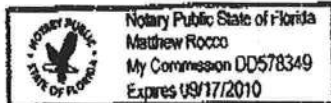
The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of property: See Exhibit A
2. General description of improvement: Construction of Dwelling
3. Owner information:
 - a. Name and address: Ronald D. Knutsen & Joanne H. Knutsen,
339 SW TAMARACK LOOP, Lake City, FL 32024
 - b. Interest in property: Fee Simple
 - c. Name and address of fee simple title holder (if other than Owner): NONE
4. Contractor (name and address): Skyline Homes, Inc., 120 SW Smith
Lane, Lake City, FL 32024
5. Surety:
 - a. Name and address: _____
 - b. Amount of bond: _____
6. Lender: **FIRST FEDERAL SAVINGS BANK OF FLORIDA**
4705 WEST U.S. HIGHWAY 90
P. O. BOX 2029
LAKE CITY, FLORIDA 32056
7. Persons within the State of Florida designated by Owner upon whom notices or other document may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes: NONE
8. In addition to himself, Owner designates PAULA HACKER of FIRST FEDERAL SAVINGS BANK OF FLORIDA, 4705 West U.S. Highway 90 / P. O. Box 2029, Lake City, Florida 32056 to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.
9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

[Signature]
Borrower Name

[Signature]
Co-Borrower Name

The foregoing instrument was acknowledged before me this 22 day of February, 2008 by Ronald D. Knutsen & Joanne H. Knutsen, who is personally known to me or who has produced driver's license for identification.



[Signature]
Notary Public
My Commission Expires: _____

File No. 07-0419/Knutsen

Exhibit A

Legal Description

Permit #
26793

A part of the East 1/2 of the NE 1/4 of the NW 1/4 of the SE 1/4 of Section 16, Township 4 South, Range 16 East, Columbia County, Florida being more particularly described as follows:

Begin at the NE corner of the NE 1/4 of the NW 1/4 of the SE 1/4 of said Section 16 and run S 01°14'44"E., along the East line thereof, 240.64 feet; thence N 89°59'02" W., 336.77 feet; thence N 01°27'35" W., 241.13 feet; thence S 89°54'14"E., 337.68 feet to the Point of Beginning.

26793

THIS INSTRUMENT WAS PREPARED BY:
 FIRST FEDERAL SAVINGS BANK OF FLORIDA
 4705 WEST U.S. HIGHWAY 90
 P.O. BOX 2029
 LAKE CITY, FLORIDA 32056

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

By

Staron Feagle
 Deputy Clerk

Date

02-27-2008
 Inst: 200812003965 Date: 2/27/2008 Time: 2:47 PM

02 DC, P. DeWitt Cason, Columbia County Page 1 of 2



PERMIT NO. _____

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
 COUNTY OF Columbia

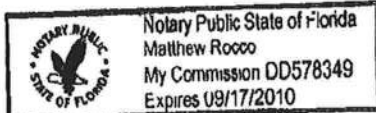
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 - a. Name and address: Ronald D. Knutsen & Joanne H. Knutsen,
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 - b. Interest in property: Fee Simple
 - c. Name and address of fee simple title holder (if other than Owner): NONE
4. Contractor (name and address): Skyline Homes, Inc., 120 SW Smith
Lane, Lake City, FL 32024
5. Surety:
 - a. Name and address: _____
 - b. Amount of bond: _____
6. Lender: **FIRST FEDERAL SAVINGS BANK OF FLORIDA**
4705 WEST U.S. HIGHWAY 90
P. O. BOX 2029
LAKE CITY, FLORIDA 32056
7. Persons within the State of Florida designated by Owner upon whom notices or other document may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes: NONE
8. In addition to himself, Owner designates **PAULA HACKER of FIRST FEDERAL SAVINGS BANK OF FLORIDA, 4705 West U.S. Highway 90 / P. O. Box 2029, Lake City, Florida 32056** to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.
9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

[Signature]
 Borrower Name

[Signature]
 Co-Borrower Name

The foregoing instrument was acknowledged before me this 22 day of February, 2008 by Ronald D. Knutsen & Joanne H. Knutsen, who is personally known to me or who has produced driver's license for identification.



[Signature]
 Notary Public
 My Commission Expires:

File No. 07-0419/Knutsen

Exhibit A

Legal Description

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26793

Mark Disosway, P.E.
POB 868, Lake City, FL 32056, Ph 386-754-5419, Fax 386-269-4871

27 February 2008

Building and Zoning, Columbia County, Florida

Re: Site Evaluation, Knutsen, Ron & Joanne Residence, 339 SW Tamarac Lp, Lake City, FL 32024
Tax ID: 16-4S-16-03036-001, Columbia County, FL

Dear Building Inspector:

The elevation of the finished floor, approx 6" above natural grade at the SE corner of the house, as stated by builder, is less than one foot above the elevation of the county road, Tamarac Lane at a point immediately in front of the house.

Based on topo maps, FEMA Flood Insurance Rate Map, and visual inspection the proposed finished floor elevation is at an adequate elevation to avoid flooding.

Flood Zone of Home Site: Zone X; Based on the FEMA rate map, attached.

Home Site Natural Grade, Elevation: about 105 - 110 ft; Based on topo map, attached.

Zone A flood zone: none near home site.

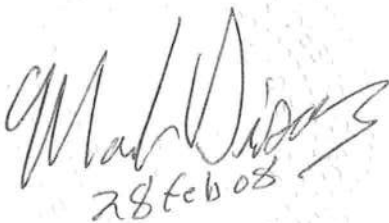
Proposed Finished Floor Elevation: 6" above existing grade.

Observations: This house is higher, about 5 - 10 ft, than nearby houses to the south east. It is also about 3' higher than a recently permitted house nearby which is over one foot above the county road. If this house floods most of the neighborhood will also be flooded.

The finished floor elevation must be minimum 6" above finished grade per FBC2004. The finished grade should slope down from that elevation for another 6" within 12 feet away from the house in all directions so that all runoff drains away from the house. The owner must maintain the swales, slopes, and ditch to provide free drainage to the ditch and prevent any possibility of storm water backing up into the house.

The owner should be aware that if free drainage is not maintained thru fields and across roads and thru culverts to the river, or if future development in the area causes increased storm water run off, or if rainfall occurs with greater flooding effect than the design storm, the level of the nearby Zone A could rise higher than anticipated and his house would be more susceptible to flooding.

Sincerely,



Mark Disosway, PE

R403.1 General.

All exterior walls shall be supported on continuous solid or fully grouted masonry or concrete footings, wood foundations, or other approved structural systems which shall be of sufficient design to accommodate all loads according to Section R301 and to transmit the resulting loads to the soil within the limitations as determined from the character of the soil. Footings shall be supported on undisturbed natural soils or engineered fill.

R403.1.1 Minimum size.

Minimum sizes for concrete and masonry footings shall be as set forth in Table R403.1 and Figure R403.1(1). The footing width, W, shall be based on the load-bearing value of the soil in accordance with Table R401.4.1. Spread footings shall be at least 6 inches (152 mm) in thickness. Footing projections, P, shall be at least 2 inches (51 mm) and shall not exceed the thickness of the footing. The size of footings supporting piers and columns shall be based on the tributary load and allowable soil pressure in accordance with Table R401.4.1. Footings for wood foundations shall be in accordance with the details set forth in Section R403.2, and Figures R403.1(2) and R403.1(3).

R403.1.4 Minimum depth.

All exterior footings shall be placed at least 12 inches (305 mm) below the undisturbed ground surface.

R403.1.5 Slope.

The top surface of footings shall be level. The bottom surface of footings shall not have a slope exceeding one unit vertical in 10 units horizontal (10-percent slope). Footings shall be stepped where it is necessary to change the elevation of the top surface of the footings or where the slope of the bottom surface of the footings will exceed one unit vertical in ten units horizontal (10-percent slope).

R403.1.6 Foundation anchorage.

When braced wall panels are supported directly on continuous foundations, the wall wood sill plate or cold-formed steel bottom track shall be anchored to the foundation in accordance with this section.

The wood sole plate at exterior walls on monolithic slabs and wood sill plate shall be anchored to the foundation with anchor bolts spaced a maximum of 6 feet (1829 mm) on center. There shall be a minimum of two bolts per plate section with one bolt located not more than 12 inches (305 mm) or less than seven bolt diameters from each end of the plate section. Bolts shall be at least ½ inch (12.7 mm) in diameter and shall extend a minimum of 7 inches (178 mm) into masonry or concrete. Interior bearing wall sole plates on monolithic slab foundations shall be positively anchored with approved fasteners. A nut and washer shall be tightened on each bolt to the plate. Sills and sole plates shall be protected against decay and termites where required by Sections R319 and R320. Cold-formed steel framing systems shall be fastened to the wood sill plates or anchored directly to the foundation as required in Section R505.3.1 or R603.1.1.

Exception: Foundation anchor straps, spaced as required to provide equivalent anchorage to ½-inch-diameter (12.7 mm) anchor bolts.

R403.1.6.1 Reserved.

R403.1.7 Footings on or adjacent to slopes.

The placement of buildings and structures on or adjacent to slopes steeper than 1 unit vertical in 3 units horizontal (33.3-percent slope) shall conform to Sections R403.1.7.1 through R403.1.7.4.

R403.1.7.1 Building clearances from ascending slopes.

In general, buildings below slopes shall be set a sufficient distance from the slope to provide protection from slope drainage, erosion and shallow failures. Except as provided in Section R403.1.7.4 and Figure R403.1.7.1, the following criteria will be assumed to provide this protection. Where the existing slope is steeper than one unit vertical in one unit horizontal (100-percent slope), the toe of the slope shall be assumed to be at the intersection of a horizontal plane drawn from the top of the foundation and a plane drawn tangent to the slope at an angle of 45 degrees (0.79 rad) to the horizontal. Where a retaining wall is constructed at the toe of the slope, the height of the slope shall be measured from the top of the wall to the top of the slope.

R403.1.7.2 Footing setback from descending slope surfaces.

Footings on or adjacent to slope surfaces shall be founded in material with an embedment and setback from the slope surface sufficient to provide vertical and lateral support for the footing without detrimental settlement. Except as provided for in Section R403.1.7.4 and Figure R403.1.7.1, the following setback is deemed adequate to meet the criteria. Where the slope is steeper than one unit vertical in one unit horizontal (100-percent slope), the required setback shall be measured from an imaginary plane 45 degrees (0.79 rad) to the horizontal, projected upward from the toe of the slope.

R403.1.7.3 Foundation elevation.

On graded sites, the top of any exterior foundation shall extend above the elevation of the street gutter at point of discharge or the inlet of an approved drainage device a minimum of 12 inches (305 mm) plus 2 percent. Alternate elevations are permitted subject to the approval of the building official, provided it can be demonstrated that required drainage to the point of discharge and away from the structure is provided at all locations on the site.

R403.1.7.4 Alternate setback and clearances.

Alternate setbacks and clearances are permitted, subject to the approval of the building official. The building official is permitted to require an investigation and recommendation of a qualified engineer to demonstrate that the intent of this section has been satisfied. Such an investigation shall include consideration of material, height of slope, slope gradient, load intensity and erosion characteristics of slope material.

R403.1.8 Foundations on expansive soils.

Foundation and floor slabs for buildings located on expansive soils shall be designed in accordance with Section 1805.8 of the Florida Building Code, Building.

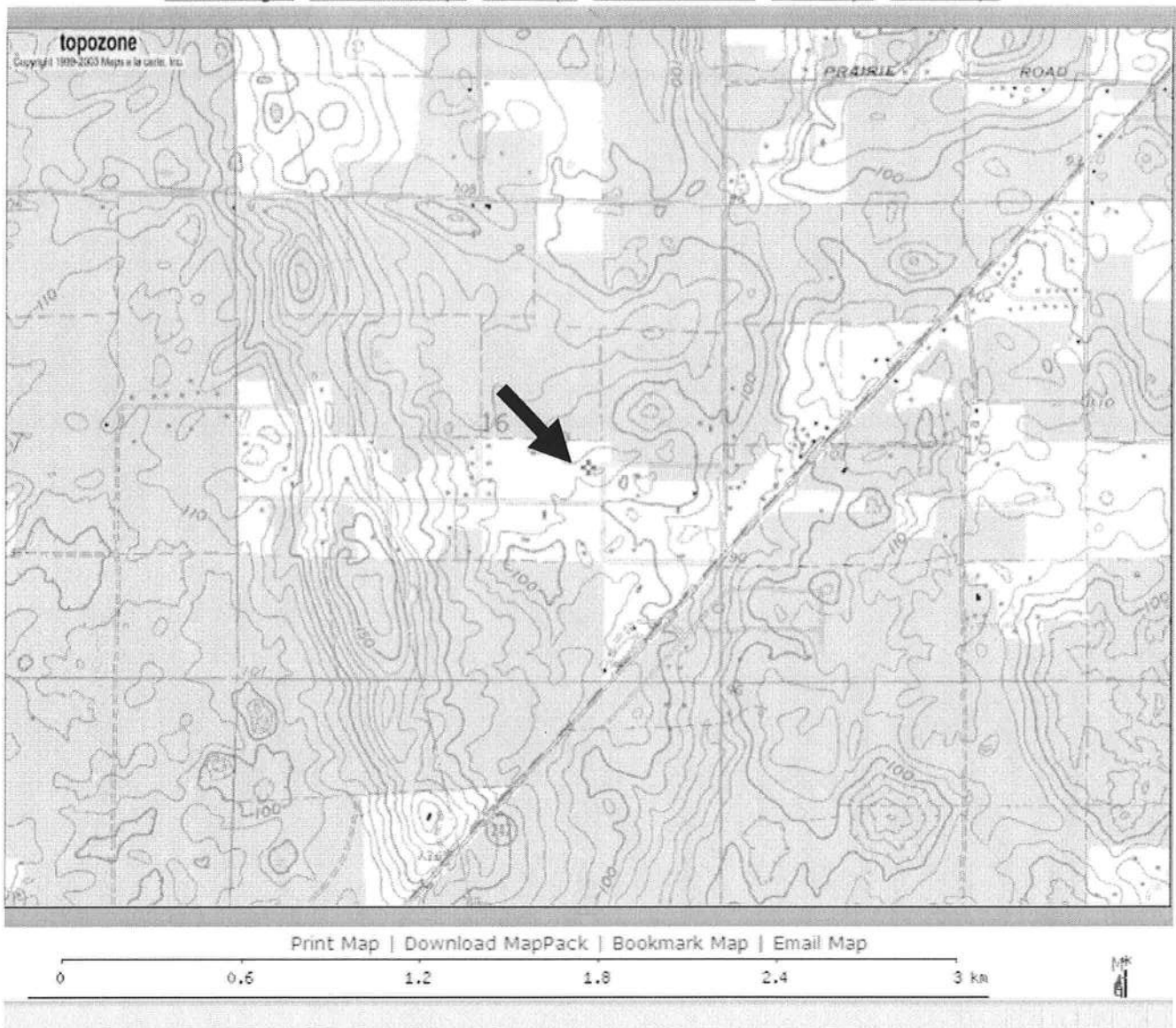
Exception: Slab-on-ground and other foundation systems which have performed adequately in soil conditions similar to those encountered at the building site are permitted subject to the approval of the building official.

R403.1.8.1 Expansive soils classifications.

Soils meeting all four of the following provisions shall be considered expansive, except that tests to show compliance with Items 1, 2 and 3 shall not be required if the test prescribed in Item 4 is conducted:

1. Plasticity Index (PI) of 15 or greater, determined in accordance with ASTM D 4318.
2. More than 10 percent of the soil particles pass a No. 200 sieve (75 mm), determined in accordance with ASTM D 422.
3. More than 10 percent of the soil particles are less than 5 micrometers in size, determined in accordance with ASTM D 422.
4. Expansion Index greater than 20, determined in accordance with ASTM D 4829.

[Aerial Images](#) [Free Aerial Maps](#) [GPS Maps](#) [Satellite Pictures](#) [Land Maps](#) [Aerial Maps](#)



New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

26793

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 321 N.W. Cole Terrace, Suite 107 City Lake City State FL Zip 32055
Company Business License No. JB100476 Company Phone No. 386-755-3611 • 352-494-5751
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: LOFSTROM Builders / For Knutsen Ron & Joann Company Phone No. 386-623-0289

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 339. S.W. Tamarack Pl. Lake City Fla. 32024
Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other _____
Approximate Depth of Footing: Outside _____ Inside 20" Type of Fill _____

Section 4: Treatment Information

Date(s) of Treatment(s) 3/14/08
Brand Name of Product(s) Used Bifen
EPA Registration No. 53883-189
Approximate Final Mix Solution % .06
Approximate Size of Treatment Area: Sq. ft. 2,280 Linear ft. _____ Linear ft. of Masonry Voids _____
Approximate Total Gallons of Solution Applied 230 gals
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No upon completion
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments _____

Name of Applicator(s) Wes Certification No. (if required by State law) JF 104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature [Signature] Date 3/14/08

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

Form NPCA-99-B may still be used

form HUD-NPCA-99-B (04/2003)

COLUMBIA COUNTY, FLORIDA

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 16-4S-16-03036-001

Building permit No. 000026793

Use Classification SFD, UTILITY

Fire: 0.00

Permit Holder JOEL PHINNEY

Waste:

Owner of Building RONALD & JOANNE KUNTSEN

Total: 0.00

Location: 339 SW TAMARACK LOOP, LAKE CITY, FL

Date: 06/30/2008

Wayne A. Run

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



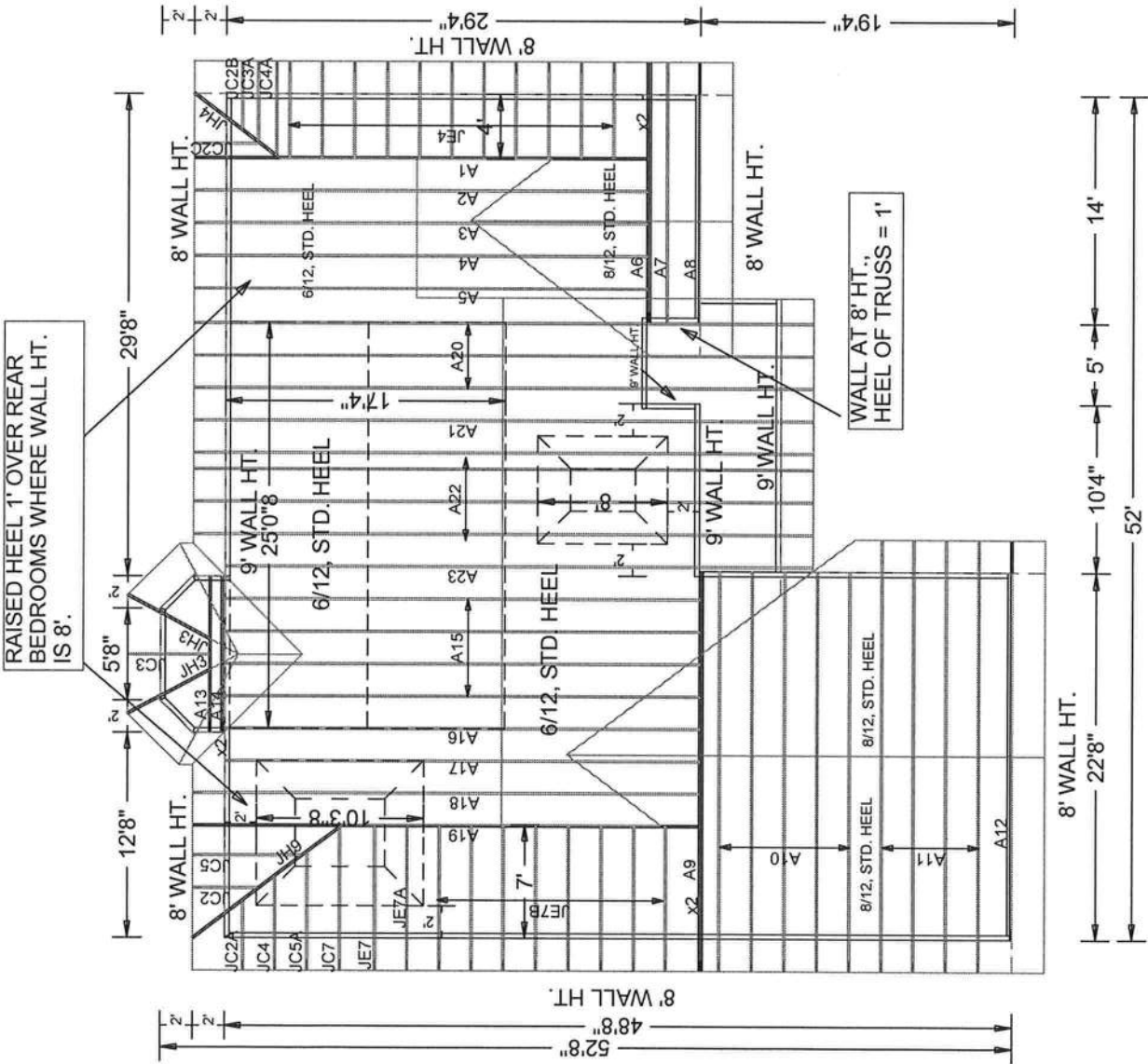
W.B. Howland Truss Co.
P.O. Box 700
Live Oak, FL 32064
(386) 362-1235
(386) 362-7124 (fax)

ROOF PITCH: 8/12
CLG PITCH: (1) 3/12 VAULT
(2) TRAY AREAS, HT. AT
CENTER ON EACH IS' ABOVE
BRG. HT.
OVERHANG: 2' (NOT SPECIFIED
ON PLAN, ADVISE PRE-FAB IF
THIS IS NOT SATISFACTORY)
LOADING: 40/SHGL
WIND LOAD: 110
EXT WALLS:
DATE:

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

FALSE DORMER ASSUMED,
NOTIFY PRE-FAB IF THIS
IS NOT THE CASE.

REVIEW PITCHES & WALL HTS.,
AND ROOF LINES CAREFULLY
ON LAYOUTS & 3D DWGS.
PROVIDED. ..PLAN PROVIDED
CONTAINED ONLY A FRONT
ELEVATION!!



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: ITBY215-Z0707163201

Truss Fabricator: W.B. Howland
Job Identification: 5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln
Truss Count: 41
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Versions 7.38, 7.37.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed



Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Seal Date: 01/07/2008

-Truss Design Engineer-
James F. Collins Jr.

Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

Details: A11015EE-GBLLETIN-CNBRGBLK-BRCLBSUB-

#	Ref	Description	Drawing#	Date
1	64371--A1		08007070	01/07/08
2	64372--A2		08007041	01/07/08
3	64373--A3		08007042	01/07/08
4	64374--A4		08007043	01/07/08
5	64375--A5		08007044	01/07/08
6	64376--A6		08007071	01/07/08
7	64377--A7		08007045	01/07/08
8	64378--A8		08007072	01/07/08
9	64379--A9		08007073	01/07/08
10	64380--A10		08007046	01/07/08
11	64381--A11		08007047	01/07/08
12	64382--A12		08007074	01/07/08
13	64383--A13		08007076	01/07/08
14	64384--A14		08007075	01/07/08
15	64385--A15		08007048	01/07/08
16	64386--A16		08007049	01/07/08
17	64387--A17		08007050	01/07/08
18	64388--A18		08007081	01/07/08
19	64389--A19		08007080	01/07/08
20	64390--A20		08007051	01/07/08
21	64391--A21		08007052	01/07/08
22	64392--A22		08007053	01/07/08
23	64393--A23		08007054	01/07/08
24	64394--JC2		08007055	01/07/08
25	64395--JC2A		08007056	01/07/08
26	64396--JC2B		08007057	01/07/08
27	64397--JC2C		08007058	01/07/08
28	64398--JC3		08007059	01/07/08
29	64399--JC3A		08007060	01/07/08
30	64400--JC4		08007061	01/07/08
31	64401--JC4A		08007062	01/07/08
32	64402--JC5		08007063	01/07/08
33	64403--JC5A		08007064	01/07/08
34	64404--JC7		08007065	01/07/08
35	64405--JE4		08007066	01/07/08
36	64406--JE7		08007067	01/07/08

#	Ref	Description	Drawing#	Date
37	64407--JE7A		08007068	01/07/08
38	64408--JE7B		08007069	01/07/08
39	64409--JH3		08007077	01/07/08
40	64410--JH4		08007078	01/07/08
41	64411--JH9		08007079	01/07/08



ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Page 1 of 1 Document ID: ITDY215-Z0707163201

Truss Fabricator: W.B. Howland
Job Identification: 5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln (, **)
Truss Count: 1
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Versions 7.38, 7.37.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Seal Date: 01/07/2008

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

Revised Trusses

#	Ref	Description	Drawing#	Date
1	64388--A18		08007081	01/07/08

ALPINE



	Top	chord	2x4	SP	#2	Dense	:T1	2x4	SP	#2	N:
Bot	chord	2x4	SP	#2	N	:B2	2x4	SP	SS:		
	webs	2x4	SP	#2	N						

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.

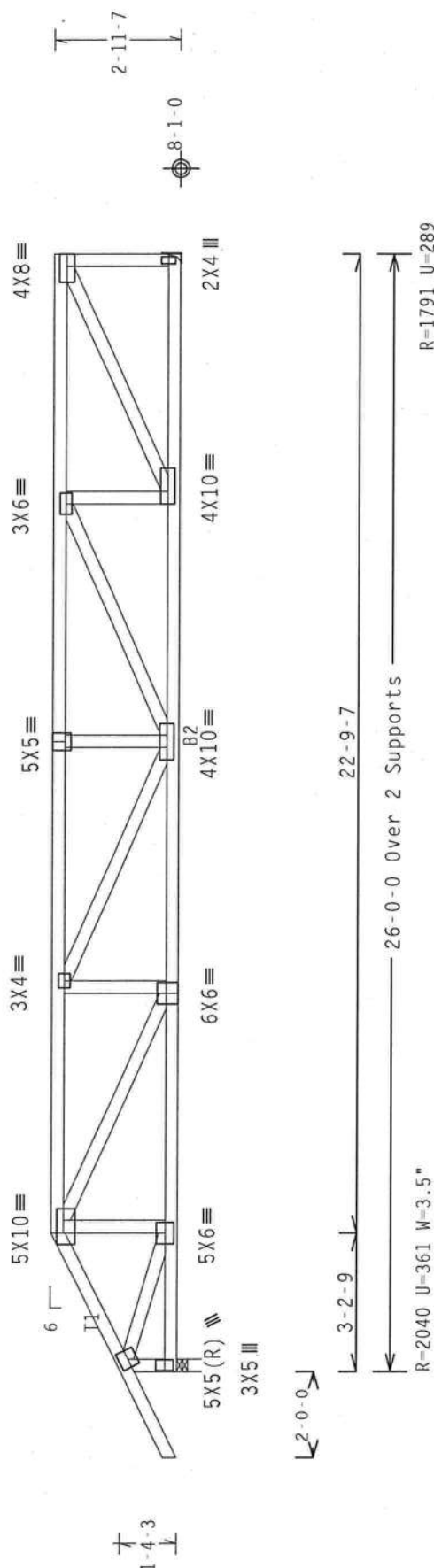
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 2-11-7.

SPECIAL LOADS

	(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	
TC - From	62 PLF at -2.00 to	62 PLF at 3.21
TC - From	62 PLF at 3.21 to	62 PLF at 26.00
BC - From	20 PLF at 0.00 to	20 PLF at 26.00
TC -	168 LB Conc. Load at	3.21
TC -	86 LB Conc. Load at	3.94, 5.94, 7.94, 9.94, 11.94
TC -	13.94, 15.94, 17.94, 19.94, 21.94, 23.94	
BC -	108 LB Conc. Load at	3.21
BC -	31 LB Conc. Load at	3.94, 5.94, 7.94, 9.94, 11.94
BC -	13.94, 15.94, 17.94, 19.94, 21.94, 23.94	

Right end vertical not exposed to wind pressure.



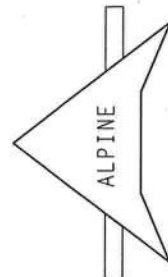
Design Crit: TPI-2002(STD)/FBC

*WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. CONSULTING CONTRACTOR'S SAFETY PRACTICES, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 2130 NORTH LEE STREET, SUITE 4000, CHICAGO, ILLINOIS 60614) MUST BE FOLLOWED. THE CODES OF AMERICA, 1100 NORTH 17TH STREET, SUITE 1000, WASHINGTON, DC 20036, MUST BE FOLLOWED. THE FOLLOWING INSTRUCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID GUSSETING.

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 ITPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & DRAGING OF TRUSSES.

DESIGNER COORDINATES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION) AND TPI. TYPICAL PLATE SIZES: TOP CHORD TRUSS: 20X7/8X16 (A-75) ASH 4653 GRADE 40/60 (# 6, K/H-S5) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS. BOTTOM CHORD TRUSS: 20X6X16 (A-75) ASH 4653 GRADE 40/60 (# 6, K/H-S5) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS. PERCENTAGE OF TRUSS LENGTH TO BE DRAGGED: 20% TO 30%. 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/PD-1 SEC. 2.

PLT TYP. Wave



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

38 0810 03

OTY.1 FI / - / 5 / - / - / R / -

$$\text{Scale} = 25"/\text{ft}$$

TC LL	20.0	PSF	REF	R215--	64371
TC DL	10.0	PSF	DATE	01/07/08	
BC DL	10.0	PSF	DRW	HCUSTR215	08007070
BC LL	0.0	PSF	HC-ENG	WHK/WHK	
TOT.LD.	40.0	PSF	SEQN-	206896	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1TDY215	Z07



la

REF- 1TDY215 Z07

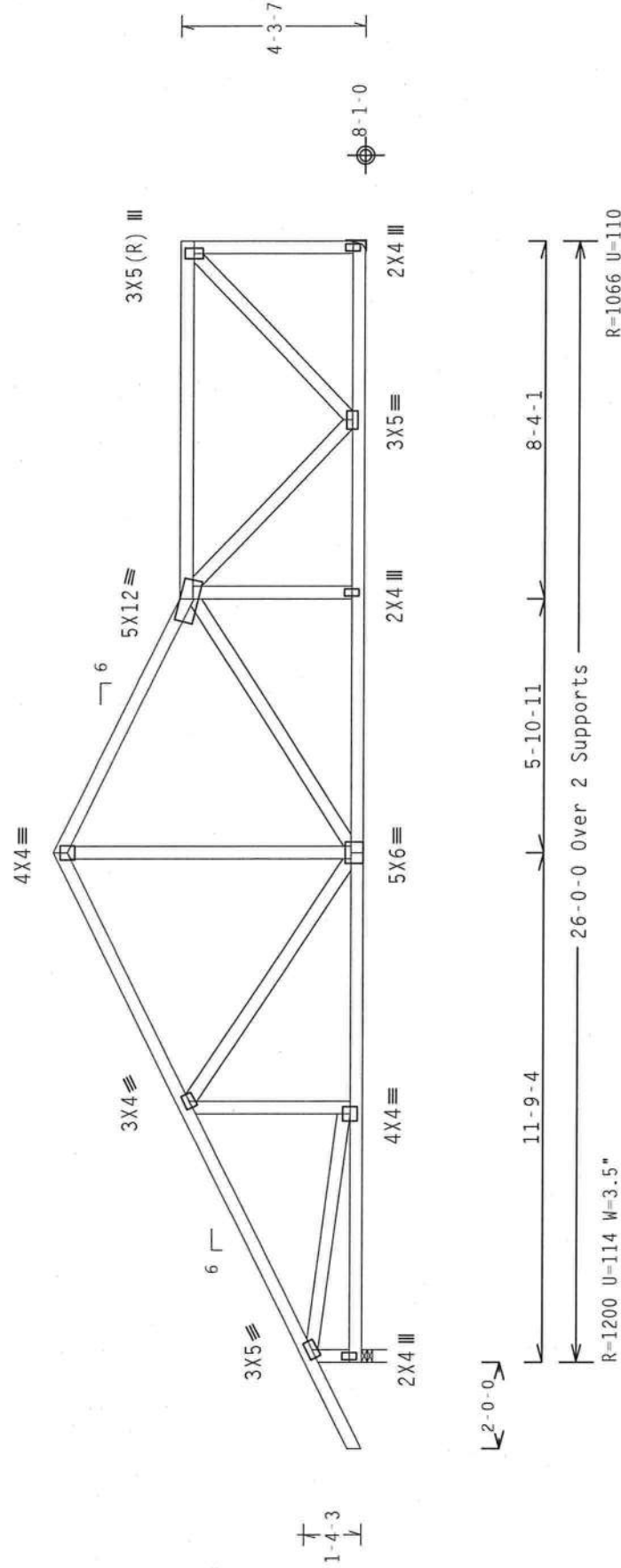
	Top chord	2x4	SP	#2	N
	Bot chord	2x4	SP	#2	N
	Web	2x4	SP	#2	N

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. lw=1.00 GCpi (+/-)=0.18

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

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 7-2-13.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

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

QTY:1 FL/-/5/-/-/R/-/

Scale = 25"/Ft.



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

****WARNING**** THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING TO PREVENT SAFETY HAZARDS. PUBLISHED BY FPI (CRUSS PAPER INSTITUTE, 630 NORTH LEE STREET, SUITE 200, WILMINGTON, DE 19801) FOR THE AMERICAN FIRE ALARM & SIGNAL MANUFACTURERS ASSOCIATION, INC., 1700 N. LINCOLN ST., MILWAUKEE, WI 53212. IF ANY OTHER TYPE OF MATERIALS OR METHODS ARE USED WITHOUT THE APPROVAL OF THE ABOVE LISTED ORGANIZATION, THE USER ASSUMES ALL LIABILITY FOR ANY DAMAGE OR INJURY THAT MAY OCCUR. 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 BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH IPT-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, CONNECTING PLATES, OR APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ITW BCG SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE CONNECTIONS TO THE BRACING SYSTEM. THE TRUSS SHALL BE FABRICATED FROM PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE SPECIFIED, THE TRUSS SHALL BE DESIGNED TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. 2002 SPEC. SECTION 5.10.1.1. 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 AISC/TPI 1 SEC. 2.



TC LL	20.0	PSF	REF	R215 --	64372
TC DL	10.0	PSF	DATE	01/07/08	
BC DL	10.0	PSF	DRW	HCUSR215	08007041
BC LL	0.0	PSF	HC - ENG	WHK / WHK	*
TOT.LD.	40.0	PSF	SEGN -	206907	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF -	1TDY215	Z07

(5153- /SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - A3)

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

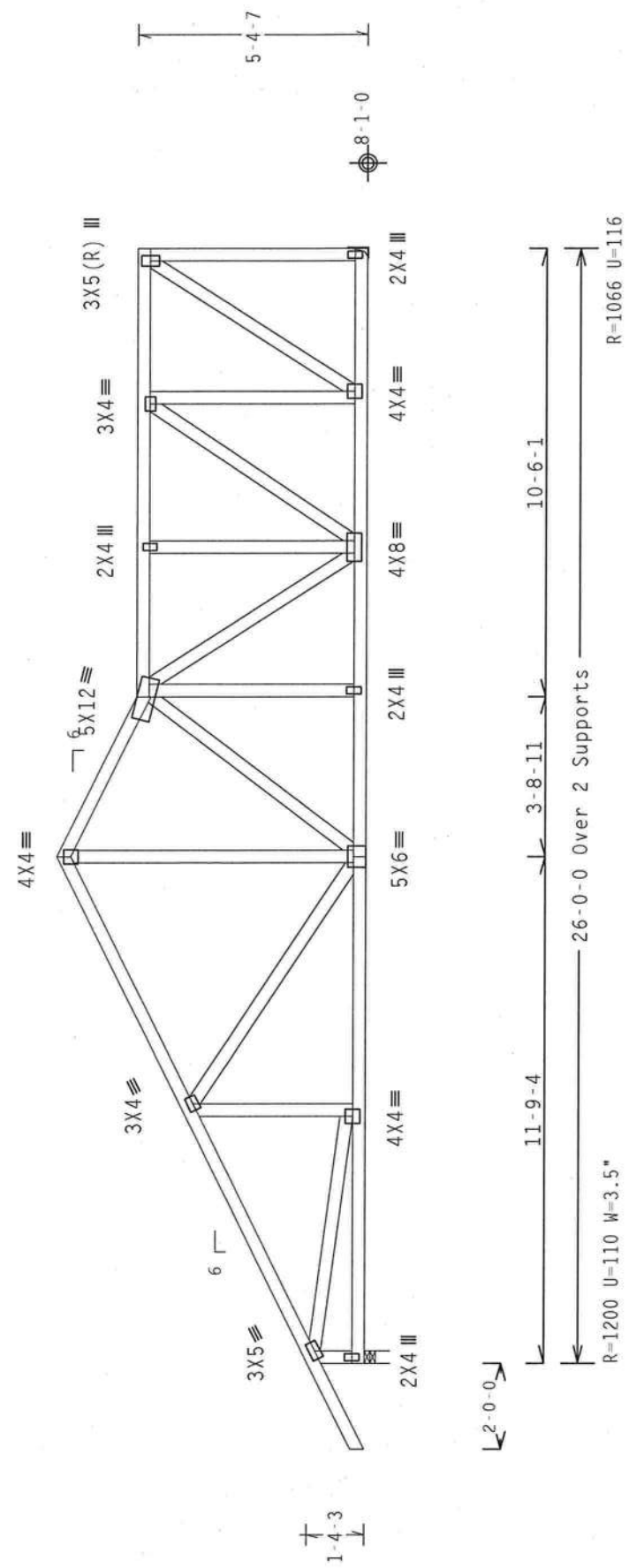
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 GCpl(+/-)=0.18

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

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 7-2-13.

Right end vertical not exposed to wind pressure.



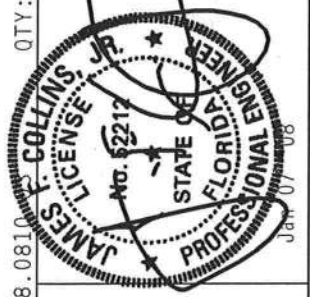
Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.38.0810

QTY:1 FL/-/5/-/-/R/-

Scale =.25"/Ft.

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DATE	01/07/08	
DRW	HCUSR215	08007042
HC-ENG	WHK/WHK	*
SEQN-	206905	
FROM	CDM	
JREF-	1TDY215_Z07	



****WARNING**** TRUSSES REQUIRE 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 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**** 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 TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ITM BCG CORRELATOR PLATES ARE MADE OF 2018/1606 (4-N/55/5X) ASTM A653 GRADE 40/60 (4, 8/21-55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWING BY THE INSTALLATION CONTRACTOR. UNLESS OTHERWISE INDICATED, THE 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 # 0278

(5153- /SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - A4)

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

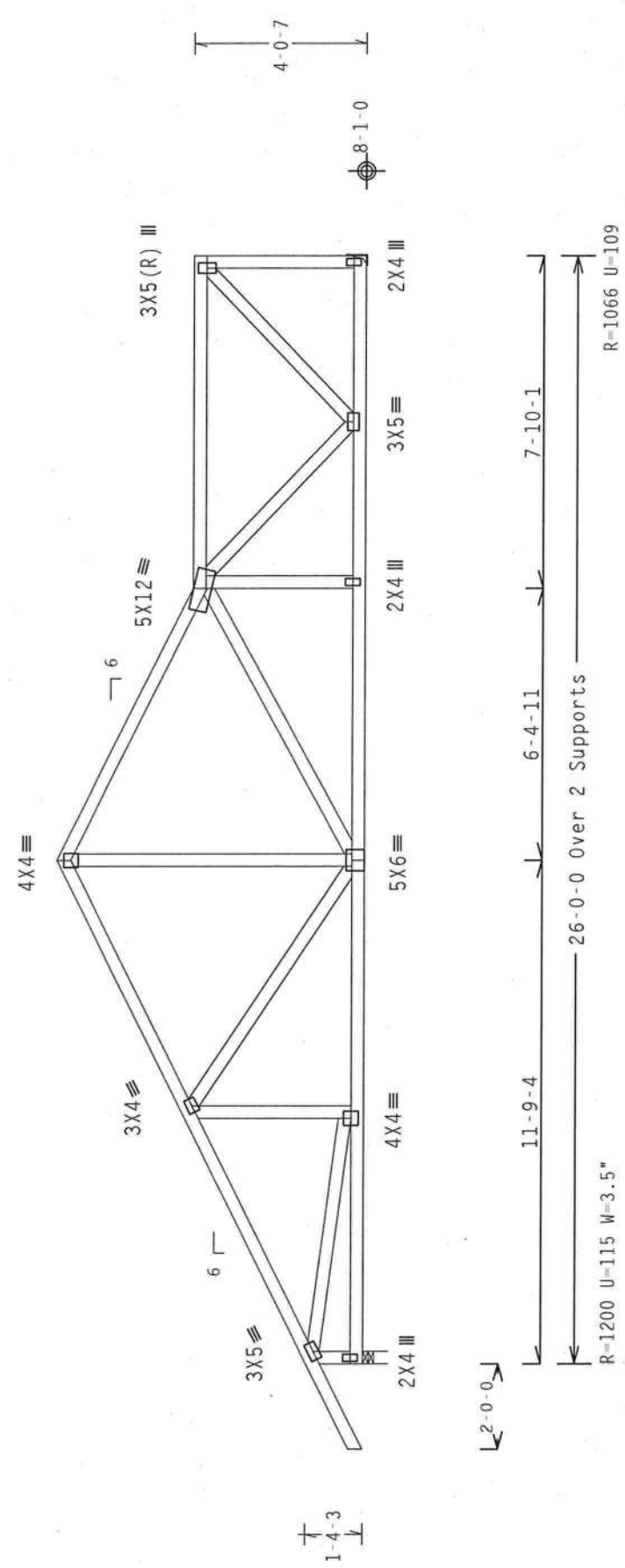
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCPI(+/-)=0.18

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

Wind reactions based on MMFRS pressures.

The overall height of this truss excluding overhang is 7-2-13.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.38.081000

PLT TYP. Wave

ALPINE

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

Scale = .25" / Ft.

REF	R215--	64374
DATE	01/07/08	
DRW	HCUSR215	08007043
HC-ENG	WHK/WHK	*
SEQN	206903	
FROM	CDM	
JREF	1TDY215_Z07	

QTY: 1 FL/-/5/-/R/-

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

James Collins, Jr.
Professional Engineer
No. 52212
State of Florida
Jan 07 '08

****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), 219 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (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 BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (6-H/55/K) ASTM A653 GRADE 40/60 (H, K/H-SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. (1) ITW BCG SHALL BE PERMITTED TO MODIFY THIS DESIGN, WITHOUT NOTICE, TO IMPROVE THE TRUSS COMPONENT DESIGN. THE ACCEPTANCE OF PRODUCTION OF THIS TRUSS COMPONENT SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

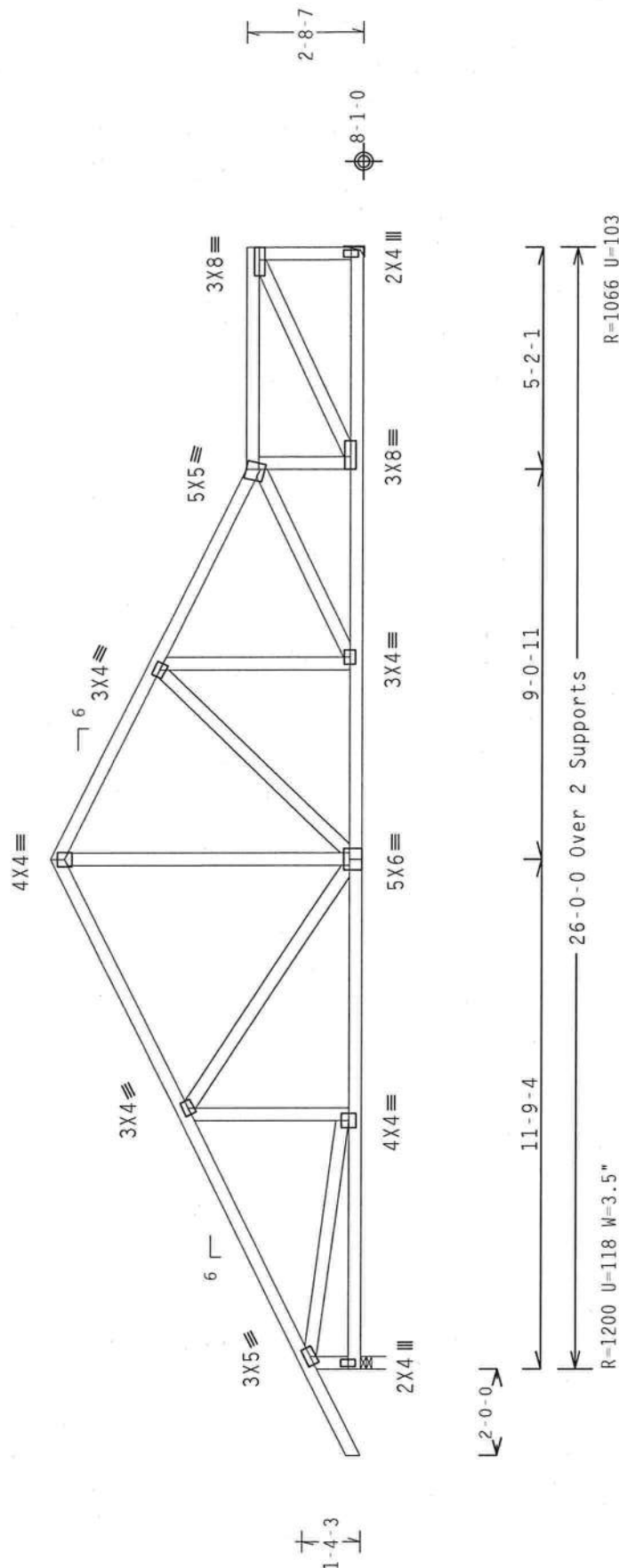
11110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

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

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 7-2-13.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

QTY:1 FL/-/5/-/-/R/-/

Scale = .25"/Ft.

WARNING THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THESE THUSSES ARE THE PROPERTY OF COMPANETEC CORPORATION, PUBLISHED BY TPI (THUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 100, ALPHARETTA, GA 30201-6798. PHONE: 404-222-1100 FAX: 404-222-1101
ENTERPRISE LINE, WADSWORTH, MI 53219. DO NOT PERFORM THESE FUNCTIONS WITHOUT PROPERLY TRAINED PERSONNEL.
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. FOLLOWING GUIDING CONSTRUCTION SAFETY INFORMATION, PUBLISHED BY ITW (CRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, WILMINGTON, AL 36201), MUST BE ADHERED TO. IF ANY OF THE FOLLOWING CONDITIONS ARE NOT MET, THE TRUSS SHALL BE REJECTED AND THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE REJECTION. 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 SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR FABRICATING, MANUFACTURING, SHIPPING, INSTALLING OR BRACING.

[illegible]

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

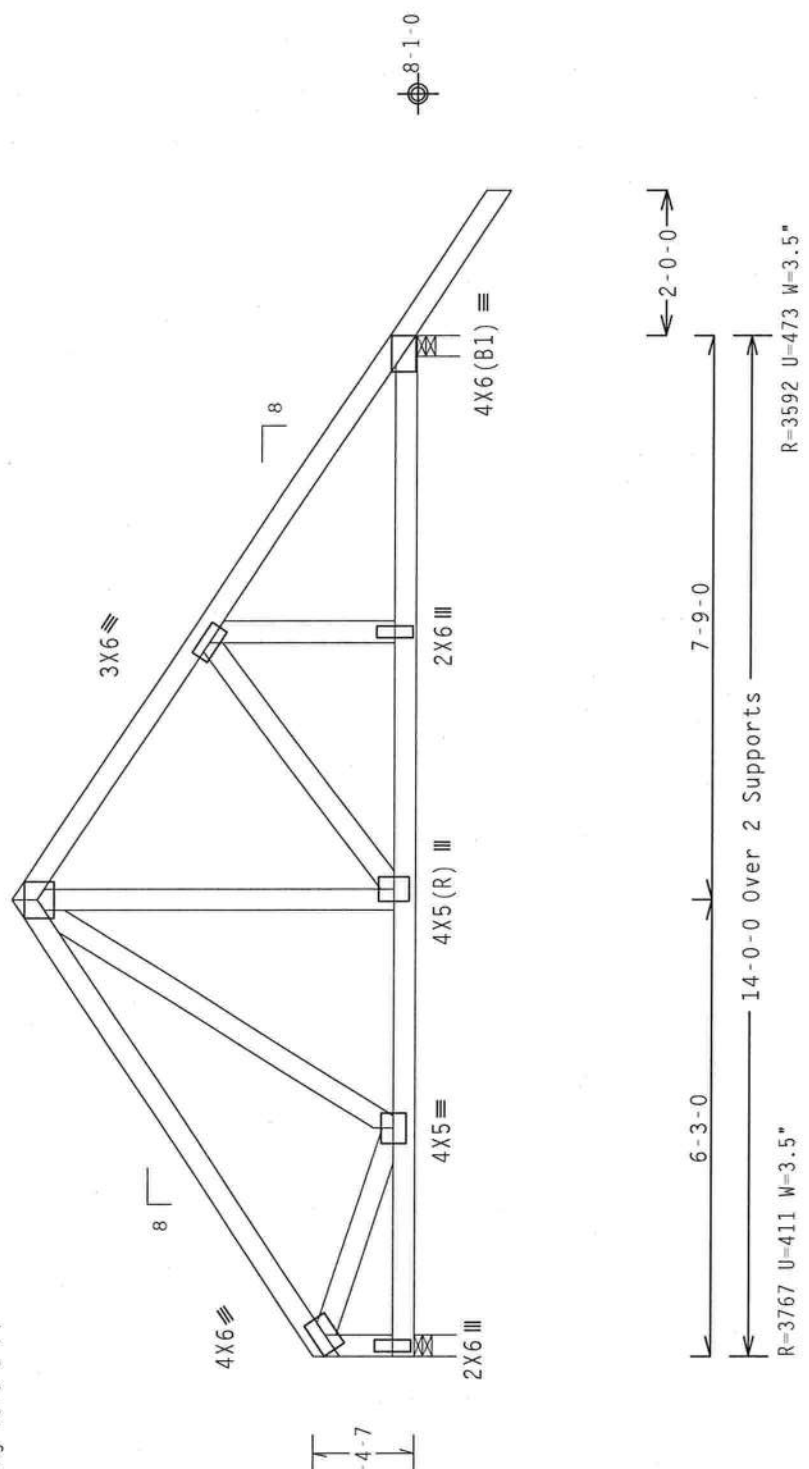
FL Certificate of Authorization #0278
Haines City, FL 33844

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

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 6.25
TC - From 64 PLF at 6.25 to 64 PLF at 16.00
BC - From 20 PLF at 0.00 to 20 PLF at 14.00
BC - 1066 LB Conc. Load at 2.06, 4.06, 6.06, 8.06
BC - 1791 LB Conc. Load at 10.06

Wind reactions based on MWFRS pressures.
The overall height of this truss excluding overhang is 5-6-7.

2 COMPLETE TRUSSES REQUIRED
Nailing Schedule: (10d Box or Gun (0.128"x3", min.) nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.50" 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. lw=1.00 GCpi(+/-)=0.18
Deflection meets L/240 live and L/180 total load.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.38.0810

Scale = .375"/Ft.

QTY:1 FL/-/5/-/-/R/-

TC LL	20.0 PSF	REF R215-- 64376
TC DL	10.0 PSF	DATE 01/07/08
BC DL	10.0 PSF	DRW HCUSR215 08007071
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	40.0 PSF	SEQN- 206909
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1TDY215_Z07

ALPINE

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

JAMES COLLINS
LICENSED PROFESSIONAL ENGINEER
No. 52212
STATE OF FLORIDA
Professional Seal
Jan 07 '08

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MTCA (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 AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/166A (4-H/55/2) ASTM A553 GRADE 40/60 (4, K/H/55) GALV. STEEL. APPLY ANASTERO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ADVISE EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY 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.

(5153- /SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - A7)

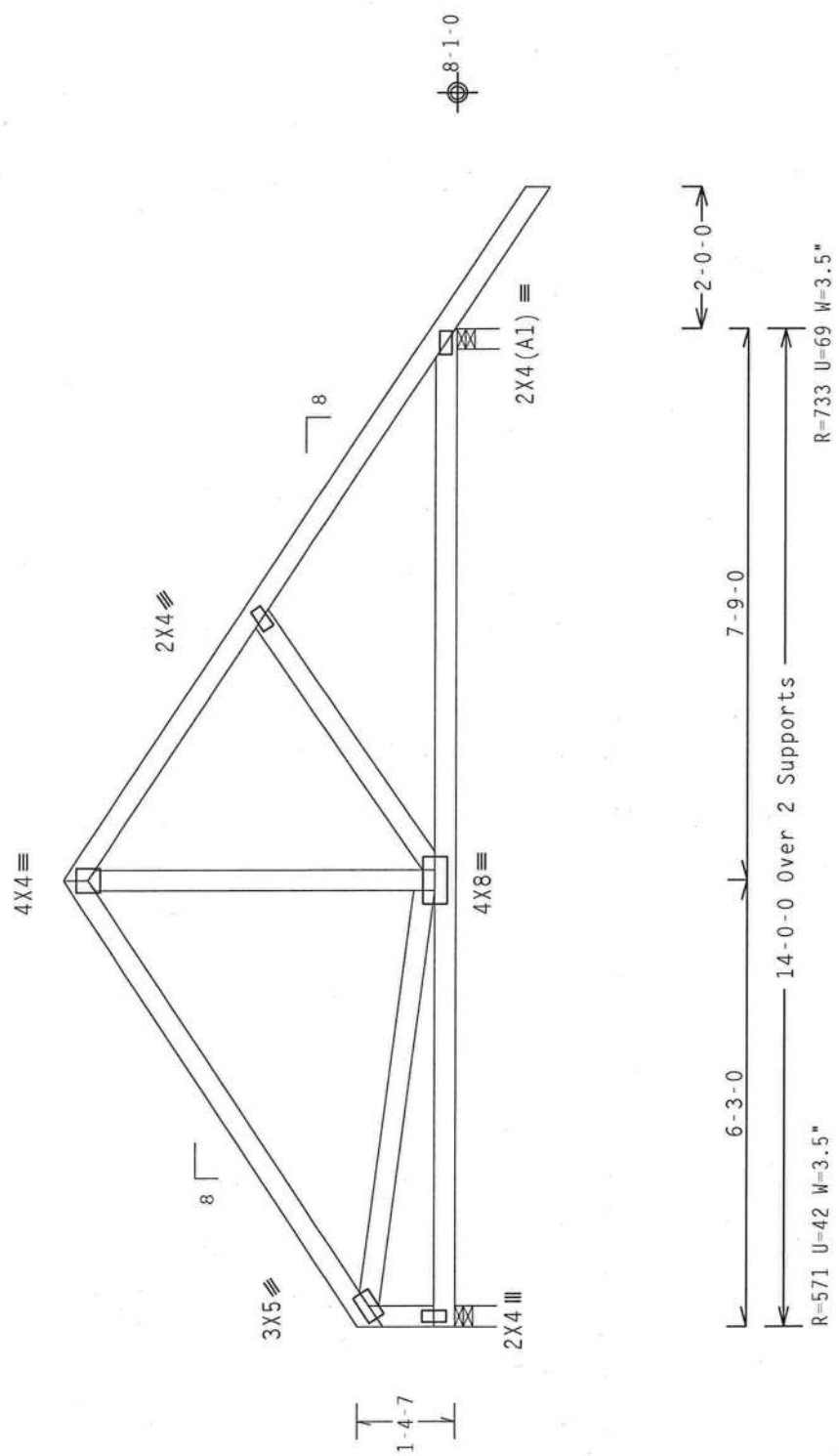
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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. $I_w=1.00$ $G_{Cp1}(+/-)=0.18$

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

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 5-6-7.



Design Crit: TPI-2002(STD)/FBC

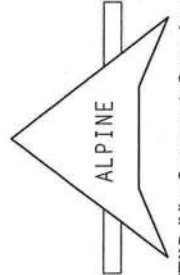
Cq/RT=1.00(1.25)/10(0)

7.38.0810

QTY:1

FL/-/5/-/-/R/-

Scale = .375"/Ft.



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

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI TRUSS, INC. 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WEA (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) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/186A (4-H/55/S) ASTM A563 GRADE 40/60 (4. K/21-55) 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 ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER'S USE. THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Jan 07 '08

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

REF R215-- 64377

DATE 01/07/08

DRW HCUSR215 08007045

HC-ENG WHK/WHK *

SEQN- 206890

FROM CDM

JREF- 1TDY215_Z07

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Box or Gun (0.128"x3", min.)_nails)
 Top Chord: 1 Row @12.00" o.c.
 Bot Chord: 2 Rows @ 5.50" o.c. (Each Row)
 Webs : 1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails in each row to avoid splitting.

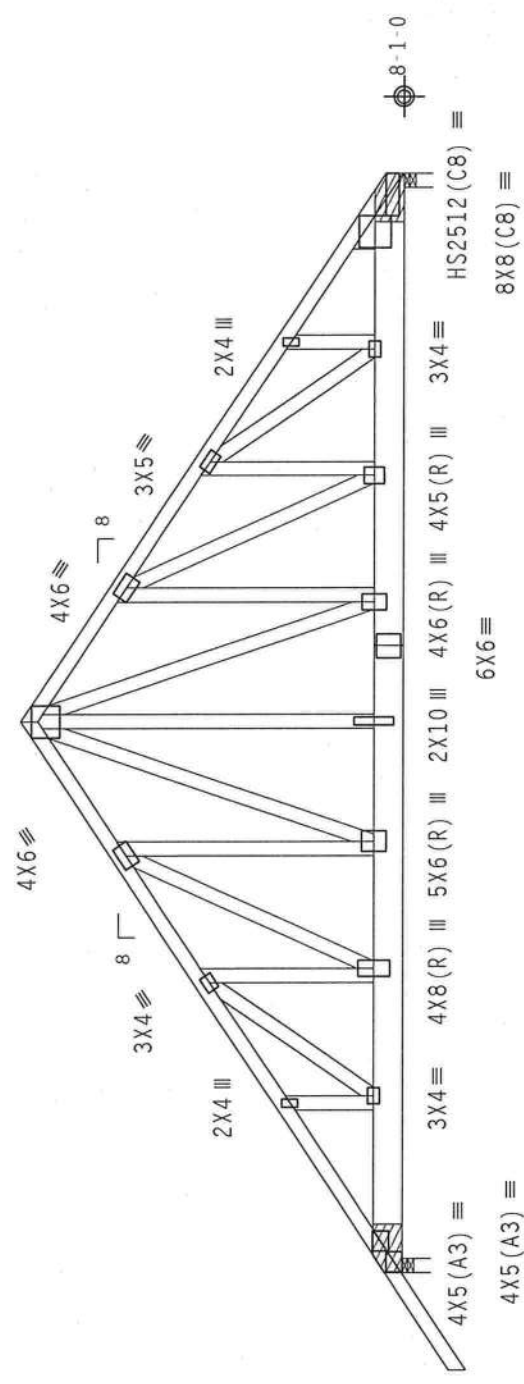
Bearing blocks: Nail type: 10d Box or Gun (0.128"x3", min.) nails

BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
1	0.000'	1	12"	4	Rigid Surface
2	22.375'	1	12"	14	Rigid Surface

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

Wind reactions based on MWFRS pressures.

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

 $7 \times 8 =$ 

✓2-0-0✓

11-4-0

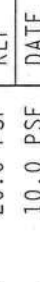
22-8-0 Over 2 Supports
R=7562 U=788 W=3.5"
R=6325 U=813 W=3.5"

PLT TYP. 20 Gauge HS, Wave

Design Crit: TPI-2002(STD)/FBC

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

Scale = .25"/Ft.



ALPINE

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

EL Certificate of Authorization # 0278

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY ITPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48213) 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 ITPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC, BY AISC) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W-10/55/K) ASTM A653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 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.



Jan 07 '08

REF	R215 - -	64379	TC LL	20.0 PSF
DATE	01/07/08		TC DL	10.0 PSF
DRW	HCUSR215	08007073	BC DL	10.0 PSF
	HC-ENG WHK/WHK		BC LL	0.0 PSF
	SEQN -	206819	TOT.LD.	40.0 PSF
	FROM	CDM	DUR.FAC.	1.25
	JREF -	1TDY215.Z07	SPACING	24.0"

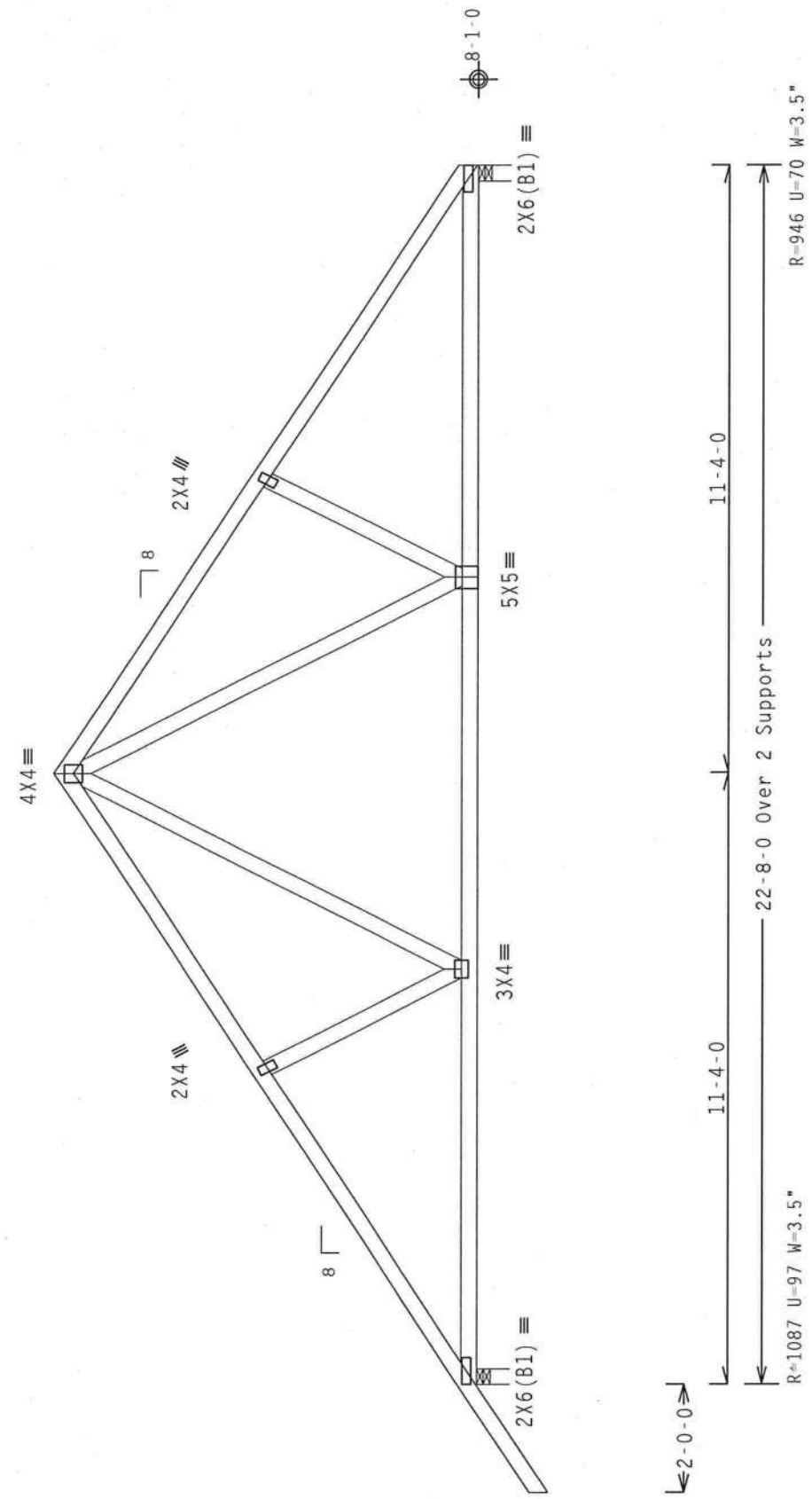
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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

Wind reactions based on MWFRS pressures.

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

The overall height of this truss excluding overhang is 7-11-2.



PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC

Scale = .3125" / Ft.

QTY:1	FL/-/5/-/-/R/-	TC LL	20.0 PSF	REF	R215-- 64380
		TC DL	10.0 PSF	DATE	01/07/08
		BC DL	10.0 PSF	DRW	HCUSR215 08007046
		BC LL	0.0 PSF	HC-ENG	WHK/WHK *
		TOT.LD.	40.0 PSF	SEQN-	206693
		DUR.FAC.	1.25	FROM	CDM
		SPACING	24.0"	JREF-	1TDY215_Z07

James F. Collins, Jr.
Professional Engineer
State of Florida
No. 57212

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

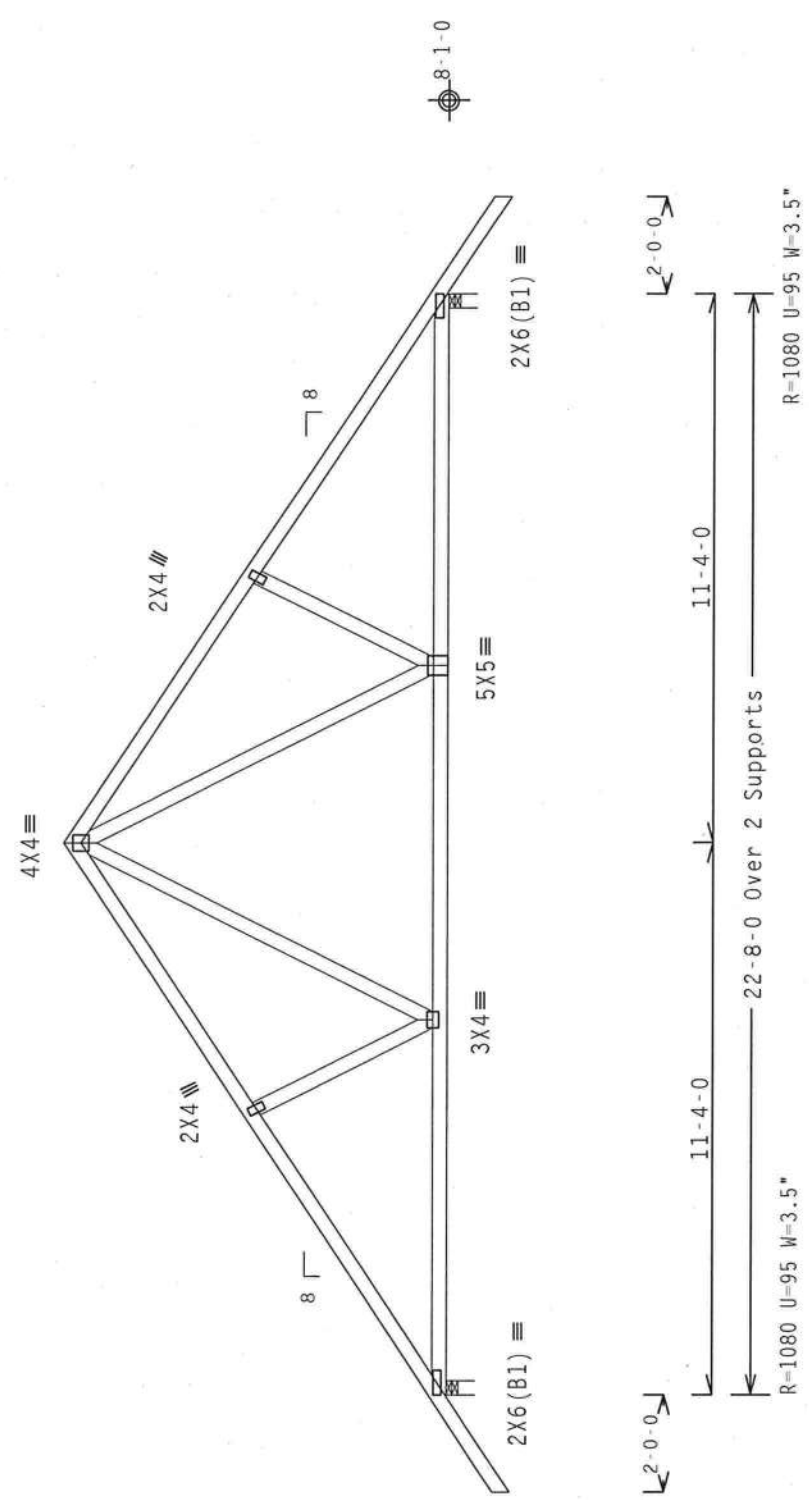
Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	webs	2x4	SP	#2	N

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

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

Wind reactions based on MWFRS pressures:

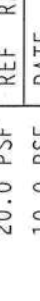
The overall height of this truss excluding overhang is 7-11-2.



Design Crit: TPI-2002(STD)/FBC

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

PLT TYP. Wave



ALPINE

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

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TP1 (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MTCA (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 BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

ALL CONNECTIONS WITH GABLES OR ROOFS (EXCEPTIAL DESIGN SPEC., BY AEP&J AND TP1. ITW BEG HAS NO LIABILITY FOR ANY DAMAGE TO THE TRUSS OR TO THE BUILDING DUE TO IMPROPERLY APPLIED CONNECTOR PLATES. MAKE SURE TO FOLLOW THE INSTRUCTIONS ON THE DESIGN. POSITION PER DRAWING. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING. APPLY ALL INSPECTION OF PLATES FOLLOWED BY (1). SHALL BE PER ANNEK A3 OF TP1-2002, SEC. 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 ANST/TP1 1 SEC. 2.



JAMES E. COLLINS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 56222

TC LL	20.0	PSF	REF	R215--	64381
TC DL	10.0	PSF	DATE	01/07/08	
BC DL	10.0	PSF	DRW	HCUSR215	08007047
BC LL	0.0	PSF	HC-ENG	WHK/WHK	*
TOT.LD.	40.0	PSF	SEQN-	206691	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1TDY215	Z07

Jan 07 '08

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

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

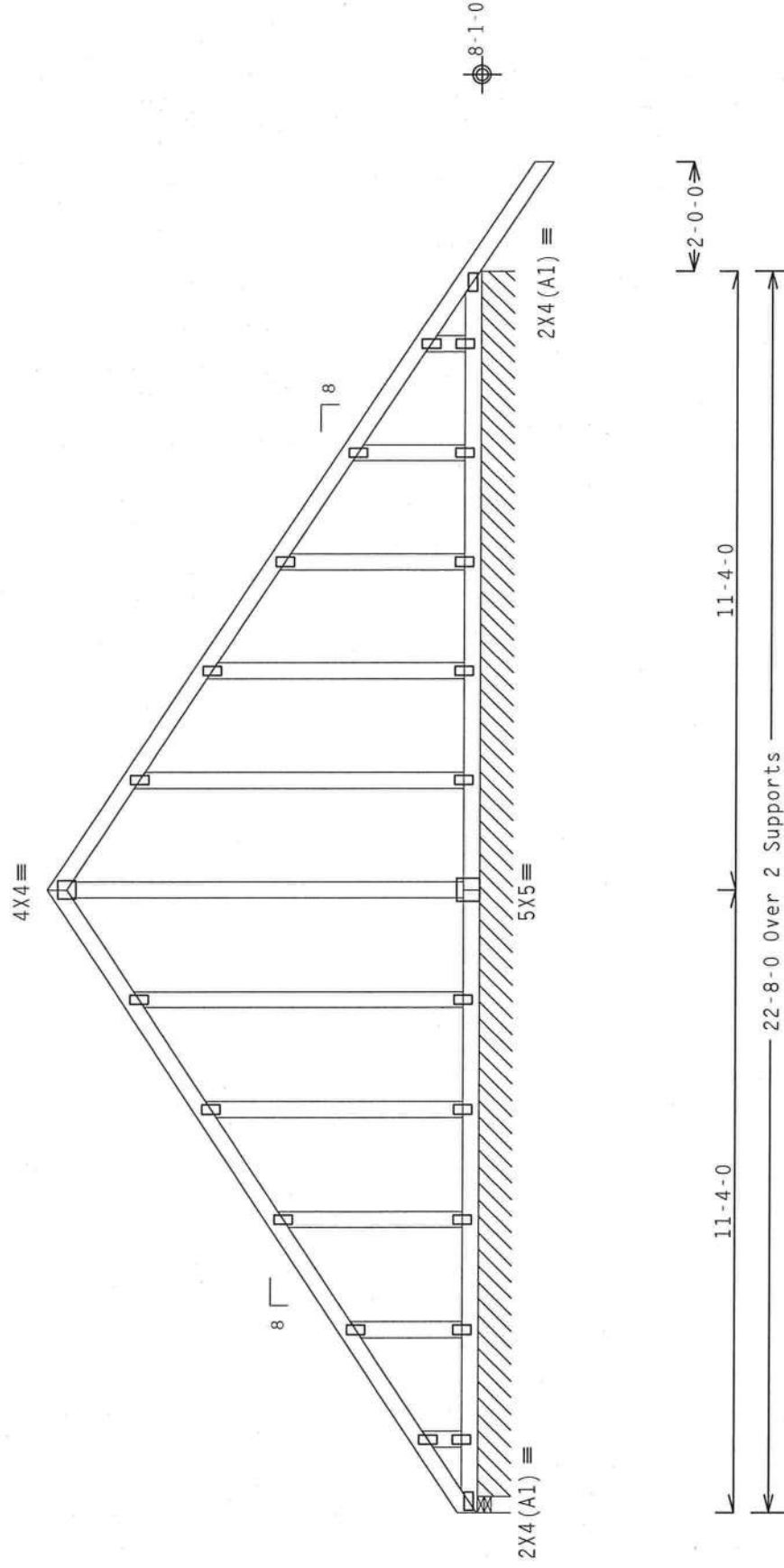
Gable end supports 8" max rake overhang.

Wind reactions based on MWFRS pressures.

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

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

The overall height of this truss excluding overhang is 7-11-2.

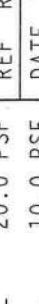


R=93 RW=187 U=115 W=3.5"
R=147 PLF U=31 PLF W=22-4-8

Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

[illegible]



ALPINE

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

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RESJ. BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY ITW BUILDING COMPONENTS, 1100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND AISC 308 TRUSS DESIGN GUIDE, 63000 ENTERPRISE LAKE, 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 THE DESIGN OF THE TRUSSES IN COMPLIANCE WITH THE REQUIREMENTS OF THE TRUSS DESIGN GUIDE, PUBLISHED BY ITW BUILDING COMPONENTS, 1100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND AISC 308 TRUSS DESIGN GUIDE, 63000 ENTERPRISE LAKE, 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.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI-1. 1TH REG. CONNECTOR PLATES ARE MADE OF 20/18/156GA (W/H/SS/24) ASTM A653 GRADE 40/60 (94 K/H/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AIAA 3.0 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 AIAA/TPI-1 SEC. 2.



REF	R215--	64382	TC LL	20.0	PSF
DATE	01/07/08		TC DL	10.0	PSF
DRW	HCUSR215	08007074	BC DL	10.0	PSF
	HC-ENG	WHK/WHK	BC LL	0.0	PSF
SEQN-	206689		TOT.LD.	40.0	PSF
FROM	CDM		DUR.FAC.	1.25	
JREF-	1TDY215_207		SPACING	SEE ABOVE	

(5153- /SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - A13)

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

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. lw=1.00 GCpi(+/-)=0.18

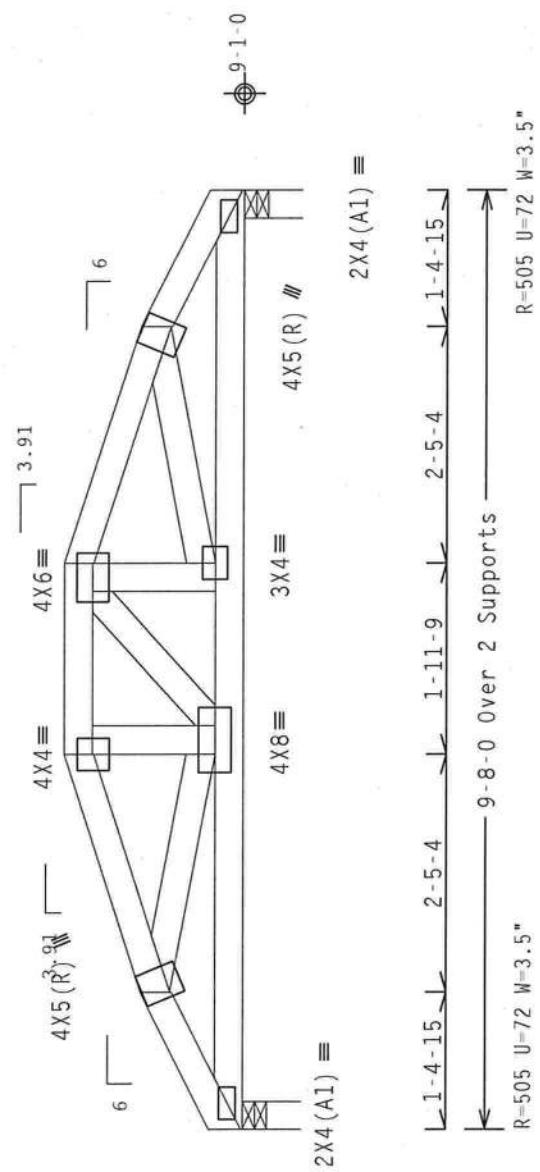
Wind reactions based on MWFRS pressures.

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

The overall height of this truss excluding overhang is 1-10-3.

SPECIAL LOADS

TC - From	DUR.FAC.=1.25 / PLATE	DUR.FAC.=1.25
62 PLF at 0.00 to	62 PLF at 1.41	
TC - From	61 PLF at 1.41 to	61 PLF at 3.85
TC - From	61 PLF at 3.85 to	61 PLF at 5.82
TC - From	61 PLF at 5.82 to	61 PLF at 8.25
TC - From	62 PLF at 8.25 to	62 PLF at 9.67
BC - From	20 PLF at 0.00 to	20 PLF at 9.67
TC - 60 LB Conc. Load at	3.85,	5.82
TC - 51 LB Conc. Load at	4.83	
BC - 18 LB Conc. Load at	3.85,	5.82
BC - 16 LB Conc. Load at	4.83	



Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.38.0810.03

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

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RECSI (PUBLISHED BY THE ROYAL INSTITUTE OF TRUSS ENGINEERS, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA - 22304) AND MCGRAW-HILL TRUSS CONSTRUCTION, 1998, FOR 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. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI-1. ITM BCG CONNECTOR PLATES ARE MADE OF 20/10/1666 (N-H/SS/K) ASTM A653 GRADE 40/60 (W, K/H-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 ANNEX A3 OF TPI-1-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER'S USE. 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

REF	R215--	64383
DATE	01/07/08	
DRW	HCUSR215	08007076
HC-ENG	WHK/WHK	
SEQN-	206765	
FROM	CDM	
JREF-	1TDY215_Z07	

(5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - A14)

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

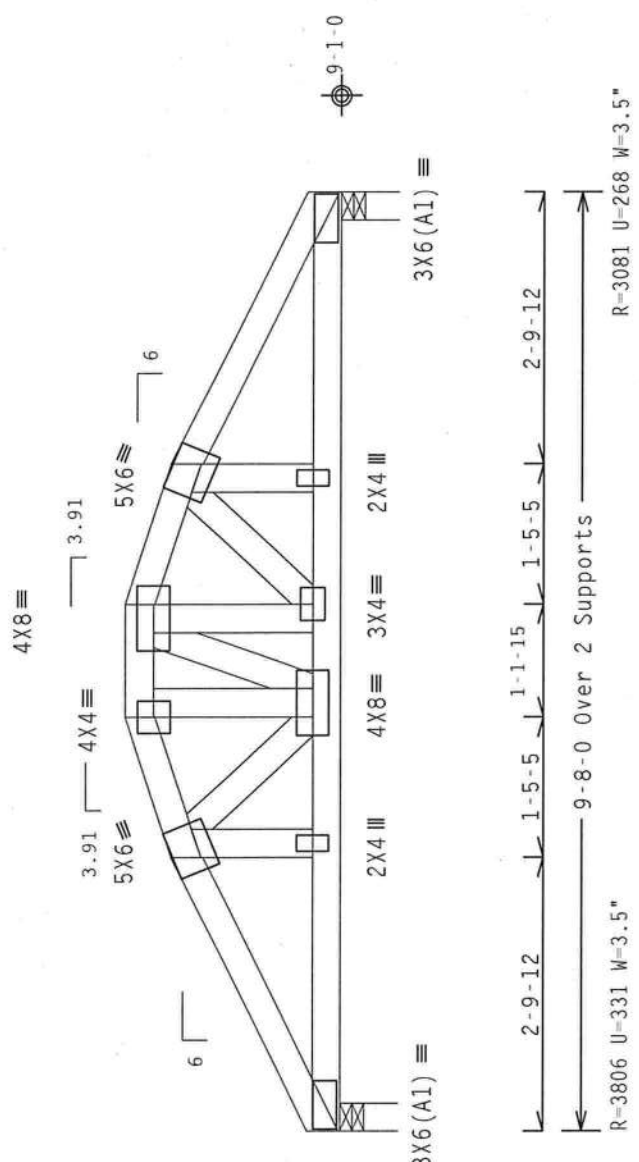
SPECIAL LOADS

- IC - From 62 PLF at 0.00 to 62 PLF at 2.81
- IC - From 61 PLF at 2.81 to 61 PLF at 4.25
- IC - From 61 PLF at 4.25 to 61 PLF at 5.41
- IC - From 61 PLF at 5.41 to 61 PLF at 6.85
- IC - From 62 PLF at 6.85 to 62 PLF at 9.67
- BC - From 20 PLF at 0.00 to 20 PLF at 9.67
- BC - 1213 LB Conc. Load at 0.27
- BC - 1221 LB Conc. Load at 2.27, 4.27, 6.27, 8.27

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

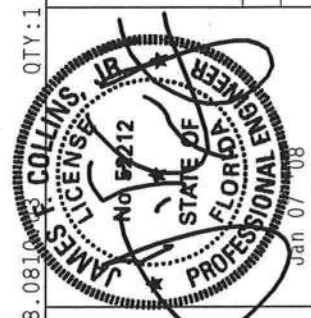
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Box or Gun (0.128"x3", min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 2.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 Gcpi(+/-)=0.18
Wind reactions based on MWFRS pressures.
The overall height of this truss excluding overhang is 2-2-11.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave	QTY:1		FL/-/5/-/-/R/-	Scale =.5"/Ft.	
	TC LL	20.0 PSF	REF	R215--	64384
	TC DL	10.0 PSF	DATE	01/07/08	
	BC DL	10.0 PSF	DRW	HCUSR215	08007075
	BC LL	0.0 PSF	HC-ENG	WHK/WHK	
TOT.LD.			40.0 PSF	SEQN-	206767
DUR.FAC.			1.25	FROM	CDM
SPACING			24.0"	JREF-	1TDY215_Z07



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 230 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND MTCA (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 AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/19/16GA (4-H/55/5) ASTM A653 GRADE 40/60 (4, 8/H/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAMING LOCATED ON PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 13TH EDITION, 2002. A SEAL OR THIS DESIGN SHALL BE LOCATED ON THE TRUSS COMPONENT FOR THE TRUSS COMPONENT DESIGNER'S SIGNATURE. 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
FL Certificate of Authorization # 0 278

(5153- /SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - A15)

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

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

Calculated horizontal deflection is 0.13" due to live load and 0.14" due to dead load.

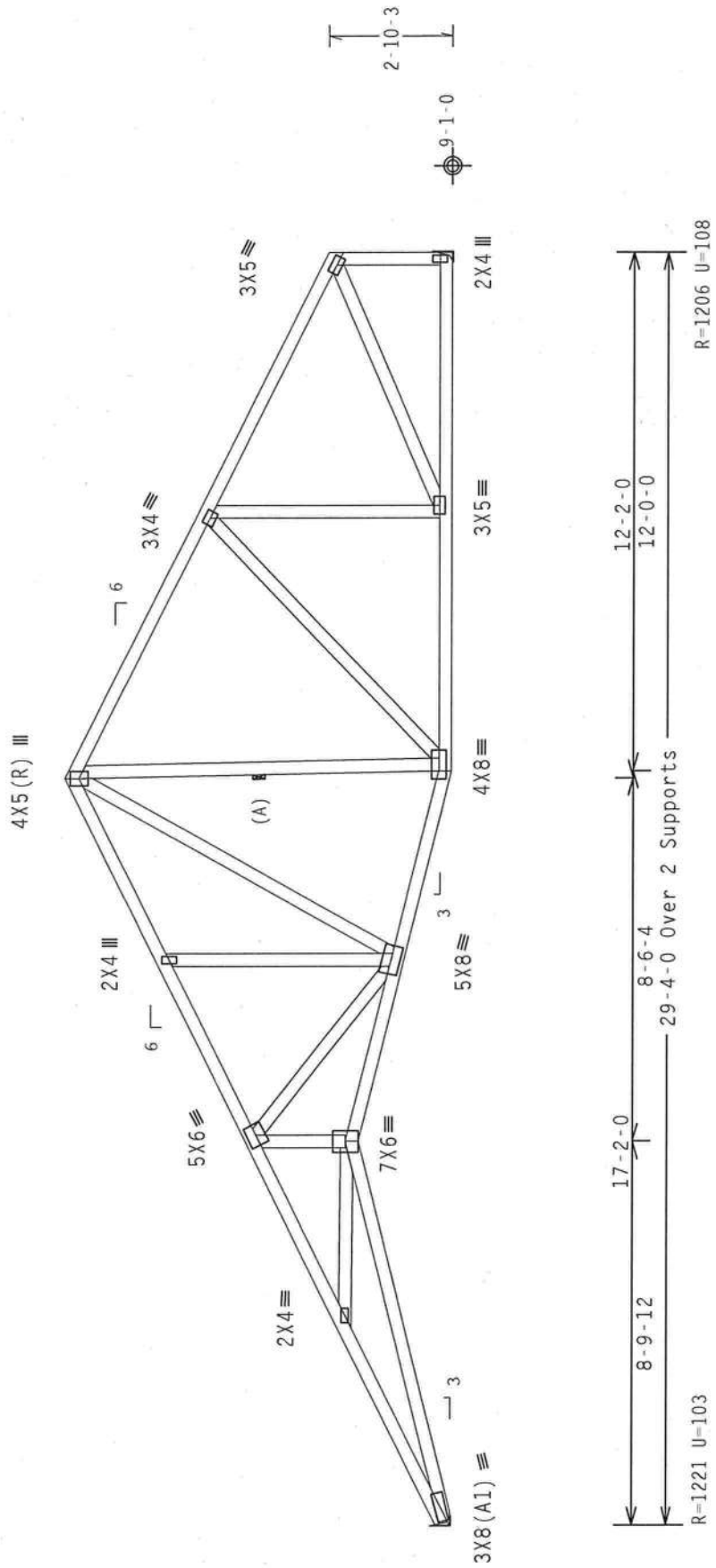
Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 8-11-3.



Design Crit: TPI-2002(STD)/FBC

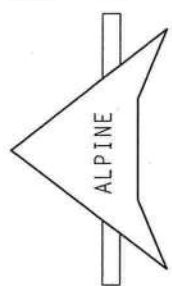
Cq/RT=1.00(1.25)/10(0) 7.38.0810

QTY:1

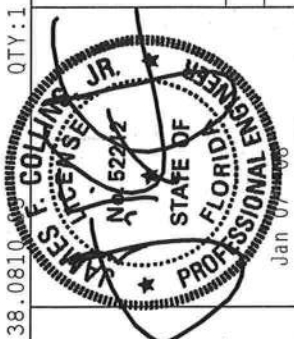
Scale = .25"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WCA WOOD TRUSS, COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48219 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/PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/10/16GA (W-H/SS/A) ASTM A653 GRADE 40/60 (W, K/H/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 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 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



TC LL	20.0 PSF	FL/- /5/- /- /R/-
TC DL	10.0 PSF	
BC DL	10.0 PSF	
BC LL	0.0 PSF	
TOT.LD.	40.0 PSF	
DUR.FAC.	1.25	
SPACING	24.0"	

REF	R215--	64385
DATE	01/07/08	
DRW	HCUSR215	08007048
HC-ENG	WHK/WHK	*
SEQN-	206716	
FROM	CDM	
JREF-	1TDY215_Z07	

(5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - A16)

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

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. 1W=1.00 GCpi(+/-)=0.18

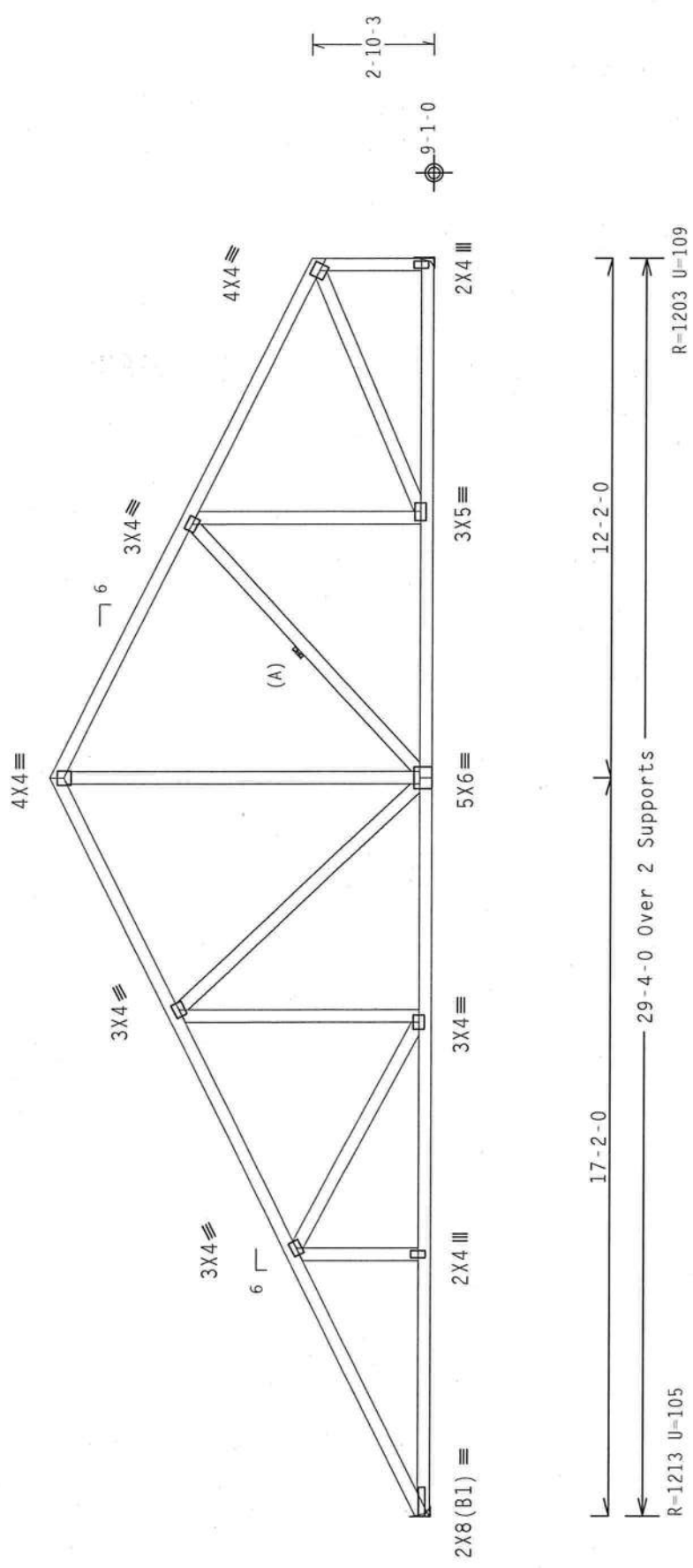
(A) Continuous lateral bracing equally spaced on member.

Wind reactions based on MWFRS pressures.

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

Right end vertical not exposed to wind pressure.

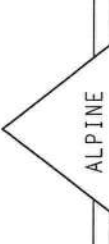
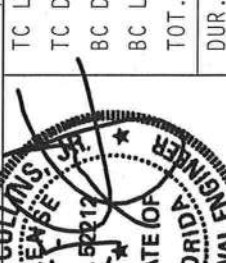
The overall height of this truss excluding overhang is 8-11-3.

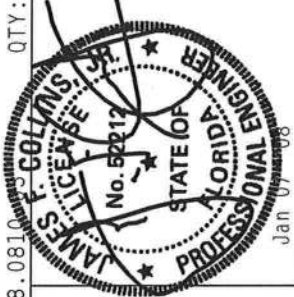


Design Crit: TPI-2002(STD)/FBC

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

Scale = .25"/Ft.

PLT TYP. Wave		Cq/RT=1.00(1.25)/10(0)		7.38.0810		QTY:1		FL/-/5/-/R/-		Scale = .25"/Ft.	
WARNING TRUSSES REQUIRE 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 WTEA (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 AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2010/166A (M-H/55/N) ASTM A653 GRADE 40/60 (W, K/H,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 ANNEX A3 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.											
 ALPINE ITW Building Components Group, Inc. Haines City, FL 33844 FL Certificate of Authorization # 0278											
				TC LL		20.0 PSF		REF		R215 -- 64386	
				TC DL		10.0 PSF		DATE		01/07/08	
				BC DL		10.0 PSF		DRW		HCUSR215 08007049	
				BC LL		0.0 PSF		HC-ENG		WHK/WHK	
				TOT.LD.		40.0 PSF		SEQN-		206719	
				DUR.FAC.		1.25		FROM		CDM	
				SPACING		24.0"		JREF-		1TDY215_Z07	
Jan 07 2008											



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI TRUSS INSTITUTE, 4300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WEA (WOOD TRUSS COUNCIL OF AMERICA), 4300 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 AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2010/160A (4-H/55/A) ASTM A563 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ALL WORK SHALL BE FOLLOWED BY (1) SHALL BE PER ANNE AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

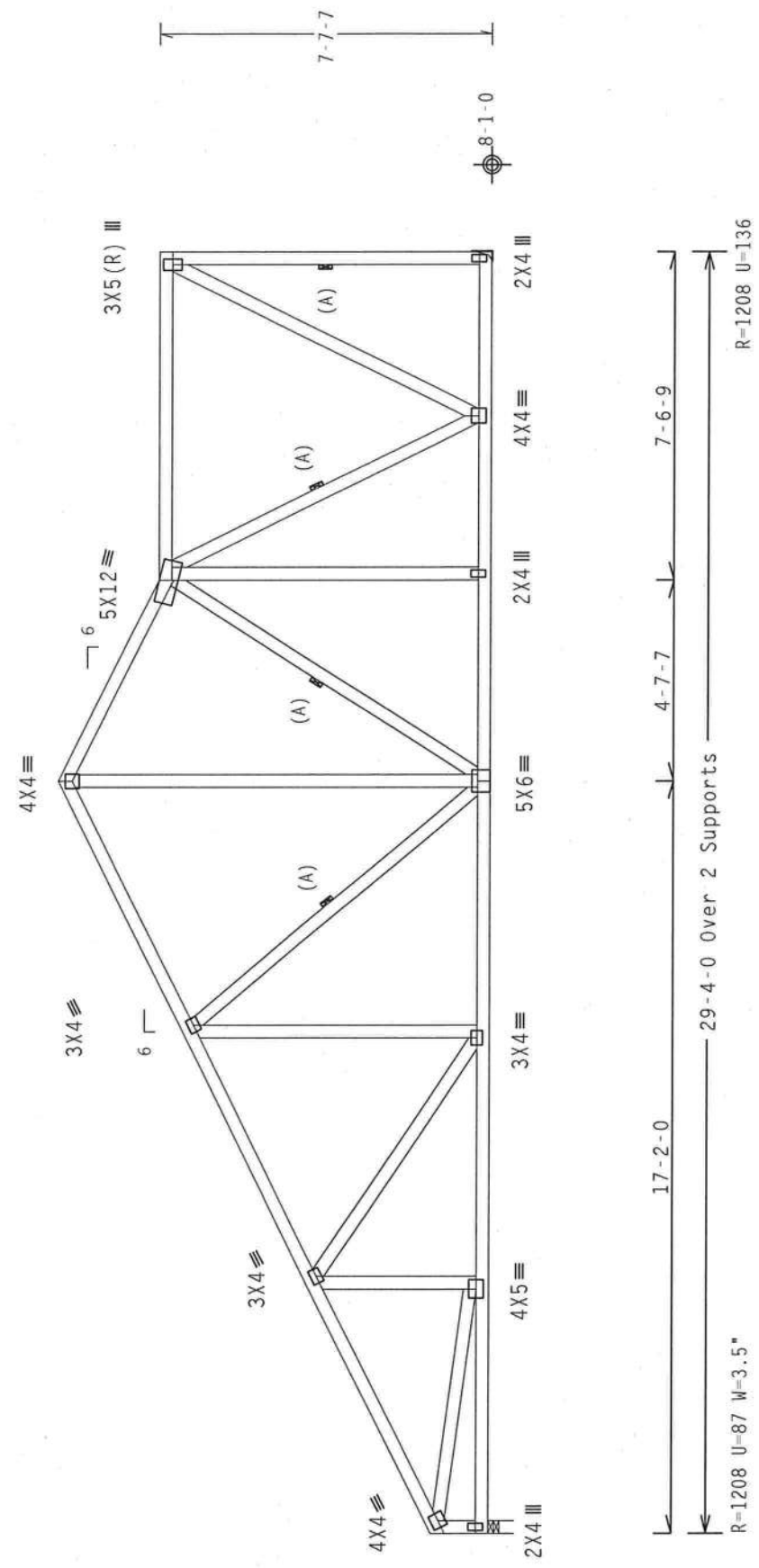
Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	Webs	2x4	SP	#2	N

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. lw=1.00 SCpi (+/-)=0.18

(A) Continuous lateral bracing equally spaced on member.

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

The overall height of this truss excluding overhang is 9-11-3.



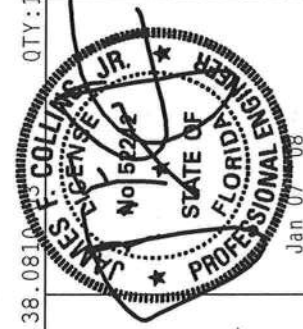
Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0) \quad 7.$

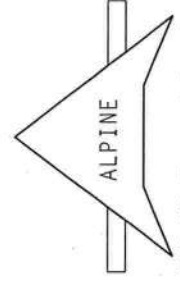
QTY:1 FL/-/5/-/-/R/-

Scale = .25"/Ft.

TC LL	20.0	PSF	REF	R215 - -	64387
TC DL	10.0	PSF	DATE	01/07/08	
BC DL	10.0	PSF	DRW	HCUSR215	08007050
BC LL	0.0	PSF	HC-ENG	WHK/WHK	*
TOT.LD.	40.0	PSF	SEQN-	206721	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1TDY215_Z07	



Jan 07 '08



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

	Top	chord	2x4	SP	#2	N	:T1	2x4	SP	SS:
Bot	chord	2x4	SP	#2	N	:B1	B2	2x4	SP	#2 Dense:
	webs	2x4	SP	#2	N					

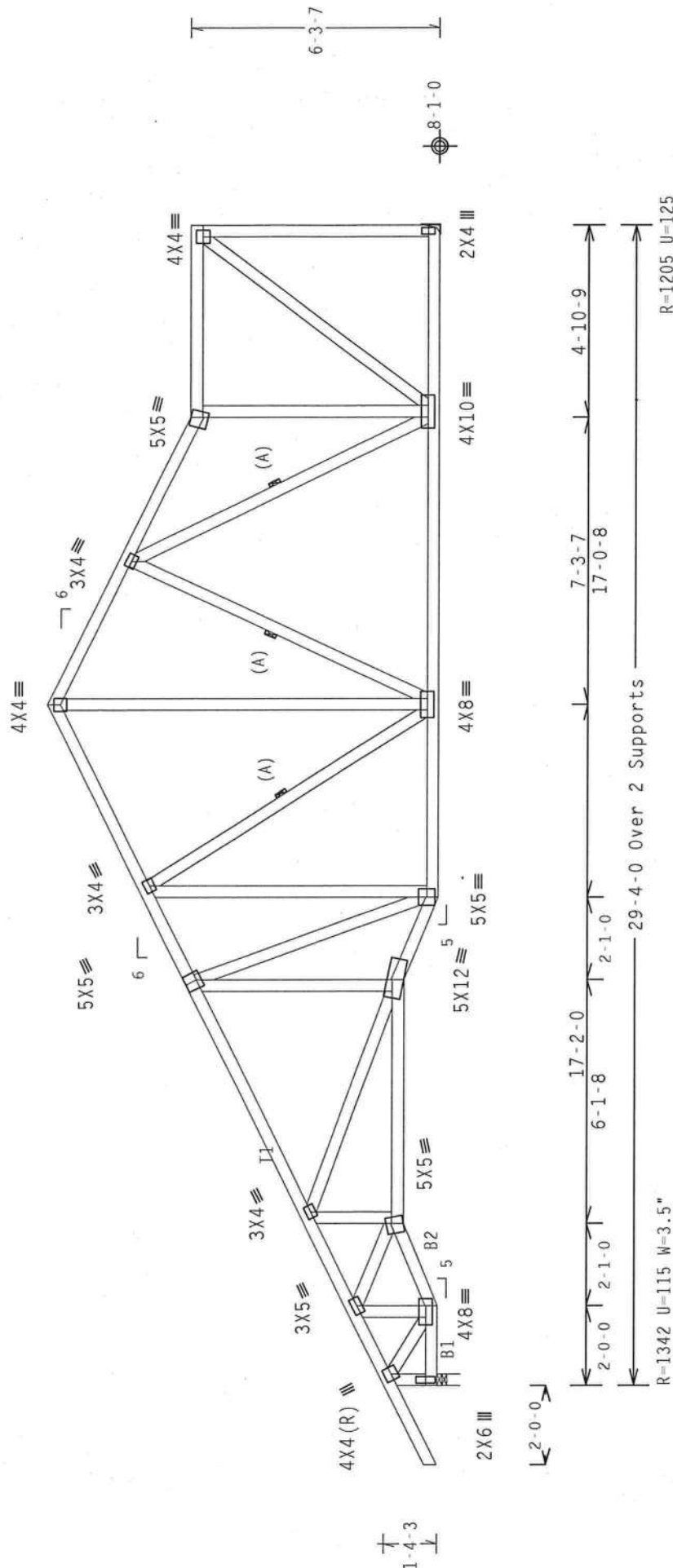
1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: TPI-2002(STD)/FBC

WARNING* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PLEASE READ ALL BUILDING COMPONENTS SETTING INSTRUCTIONS CAREFULLY. THIS PRODUCT IS PUBLISHED BY THE CROSS PANEL INSTITUTE, 2100 NORTH LEE STREET, SUITE 2, ALEXANDRIA, VA 22304. FOR MORE INFORMATION CONTACT: CROSS PANEL INSTITUTE, 2100 ENTERPRISE LANE, #4032508, WILSONVILLE, OR 97150-6250. TEL: 503/219-1100 FAX: 503/219-1101. E-MAIL: INFO@CROSSPANEL.COM. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

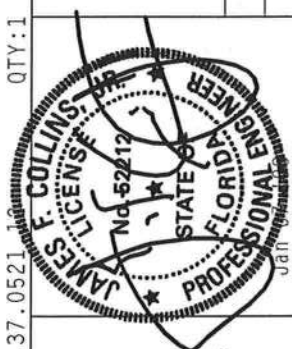
IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC.) AND TPI (17V BCG). CONNECTOR PLATES ARE MADE OF 20/18/1668 (9-4/16"X1/2"X1/4") ASTM A563 GRADE 40/60 (U. K/H/55) GALV. STEEL. APPLICABLE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 4 OF 17P1-2002 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.

PLT TYP. Wave

QTY:1 FL/-/5/-/-/R/-

Scale = .25"/Ft.

TC LL	20.0 PSF	REF	R215--	64388
TC DL	10.0 PSF	DATE	01/07/08	
BC DL	10.0 PSF	DRW	HCUSR215	08007081
BC LL	0.0 PSF	HC-ENG	WHK/WHK	
TOT.LD.	40.0 PSF	SEQN-	11287	RE
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1TDY215	Z07



Top chord 2x6 SP #2 N
Bot chord 2x6 SP SS :B1, B2 2x6 SP #2 N:
Webs 2x4 SP #2 N

Bearing blocks: Nail type: 10d Box or Gun (0.128"x3", min.) nails
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
1 0.000' 1 12" 8 Rigid Surface
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGK0207 for additional information.

(**) 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, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

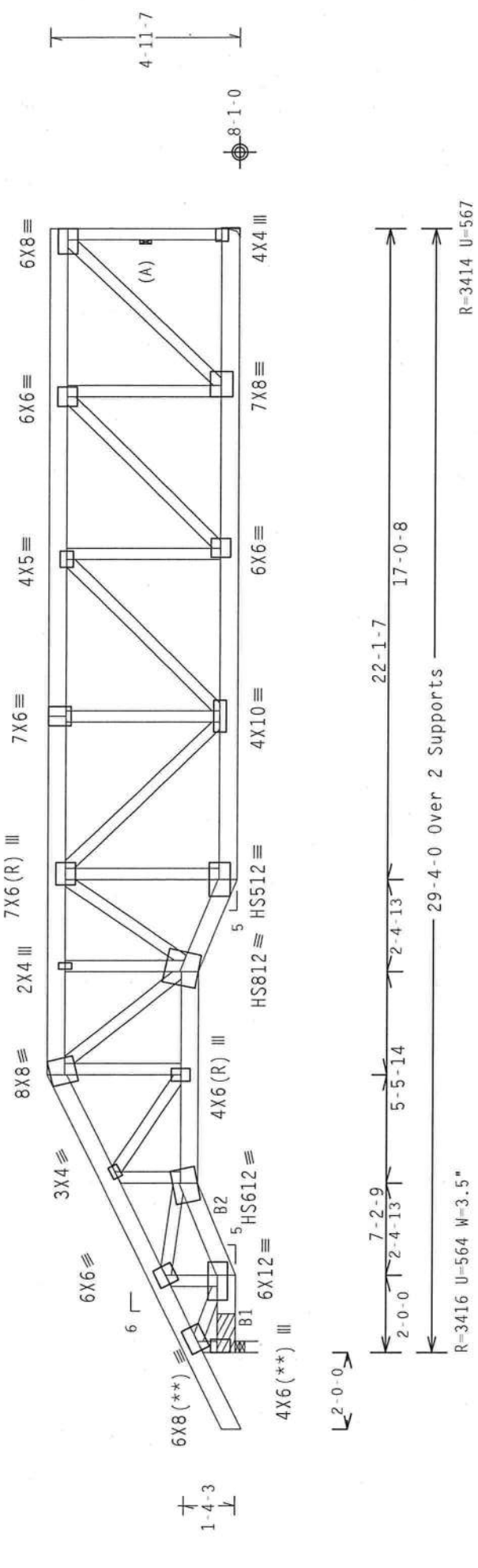
Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

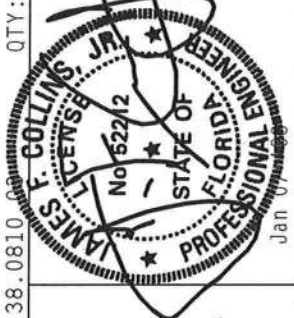
The overall height of this truss excluding overhang is 4-11-7.

Right end vertical not exposed to wind pressure.



PLT TYP. 20 Gauge HS,Wave
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.38.0810 00
Scale =.25"/Ft.

SPECIAL LOADS		QTY:1		FL/-/5/-/-/R/-		Scale =.25"/Ft.	
TC - From	DUR.FAC.=1.25 / PLATE	DUR.FAC.=1.25	TC LL	20.0	PSF	REF	R215-- 64389
TC - From	62 PLF at -2.00 to	62 PLF at 7.22	TC DL	10.0	PSF	DATE	01/07/08
TC - From	62 PLF at 7.22 to	62 PLF at 29.33	BC DL	10.0	PSF	DRW	HCUSR215 08007080
BC - From	20 PLF at 0.00 to	20 PLF at 2.00	BC LL	0.0	PSF	HC-ENG	WHK/WHK
BC - From	20 PLF at 2.00 to	20 PLF at 4.40	TOT.LD.	40.0	PSF	SEQN-	206812
BC - From	20 PLF at 4.40 to	20 PLF at 9.89	DUR.FAC.	1.25		FROM	CDM
BC - From	20 PLF at 9.89 to	20 PLF at 12.29	SPACING	24.0"		JREF-	1TDY215_Z07
BC - From	20 PLF at 12.29 to	20 PLF at 29.33					
TC -	58 LB Conc. Load at 7.28,	9.28					
TC -	96 LB Conc. Load at 11.28						
TC -	196 LB Conc. Load at 13.28,	15.28, 17.28					
TC -	381 LB Conc. Load at 19.28,	27.28					
TC -	185 LB Conc. Load at 21.28,	23.28					
BC -	1200 LB Conc. Load at 7.22						
BC -	227 LB Conc. Load at 9.28						
BC -	187 LB Conc. Load at 11.28						
BC -	86 LB Conc. Load at 13.28,	15.28, 17.28					
BC -	163 LB Conc. Load at 19.28,	27.28					
BC -	76 LB Conc. Load at 21.28,	23.28					



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

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

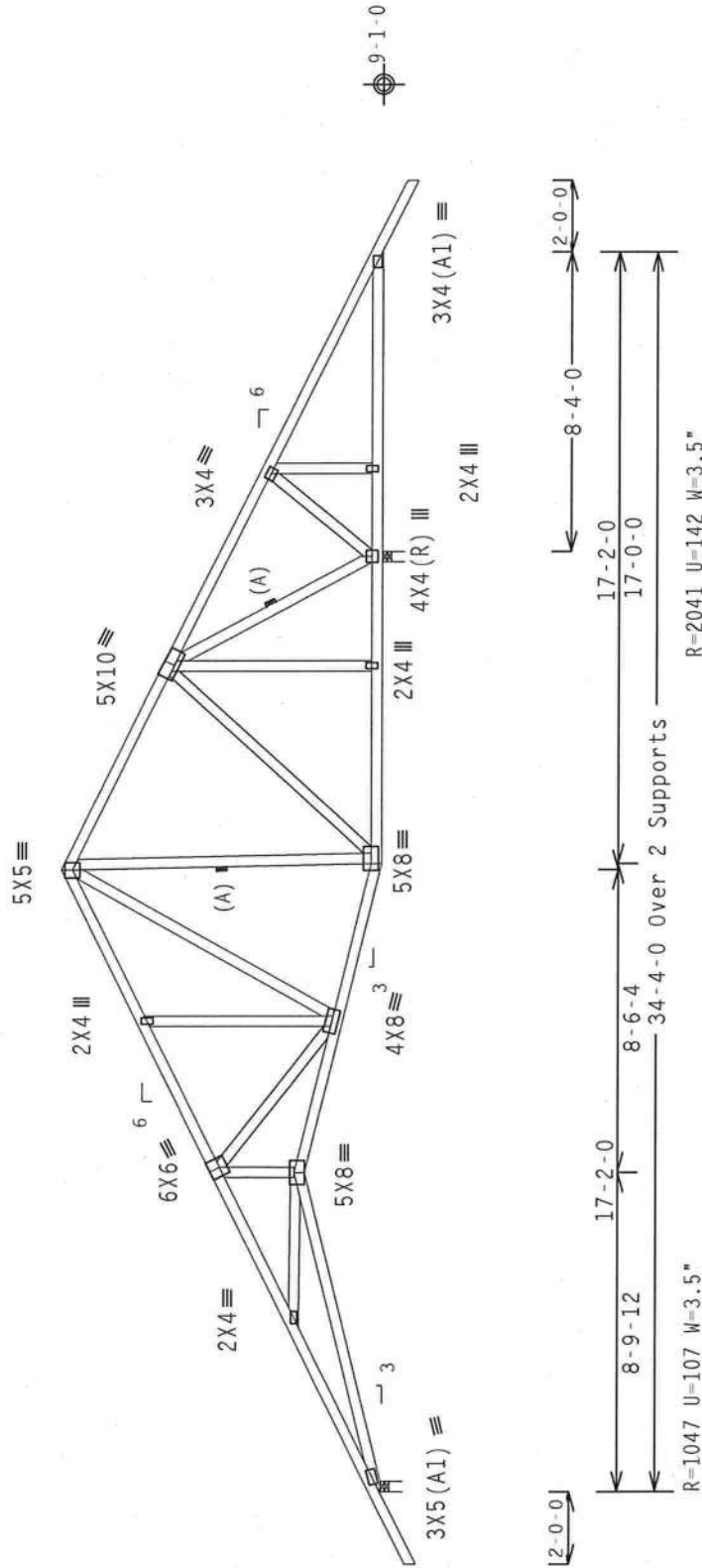
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCPI(+/-)=0.18

(A) Continuous lateral bracing equally spaced on member.

Wind reactions based on MMFRS pressures.

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

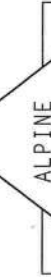
The overall height of this truss excluding overhang is 8-11-3.

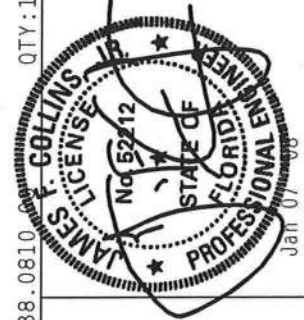


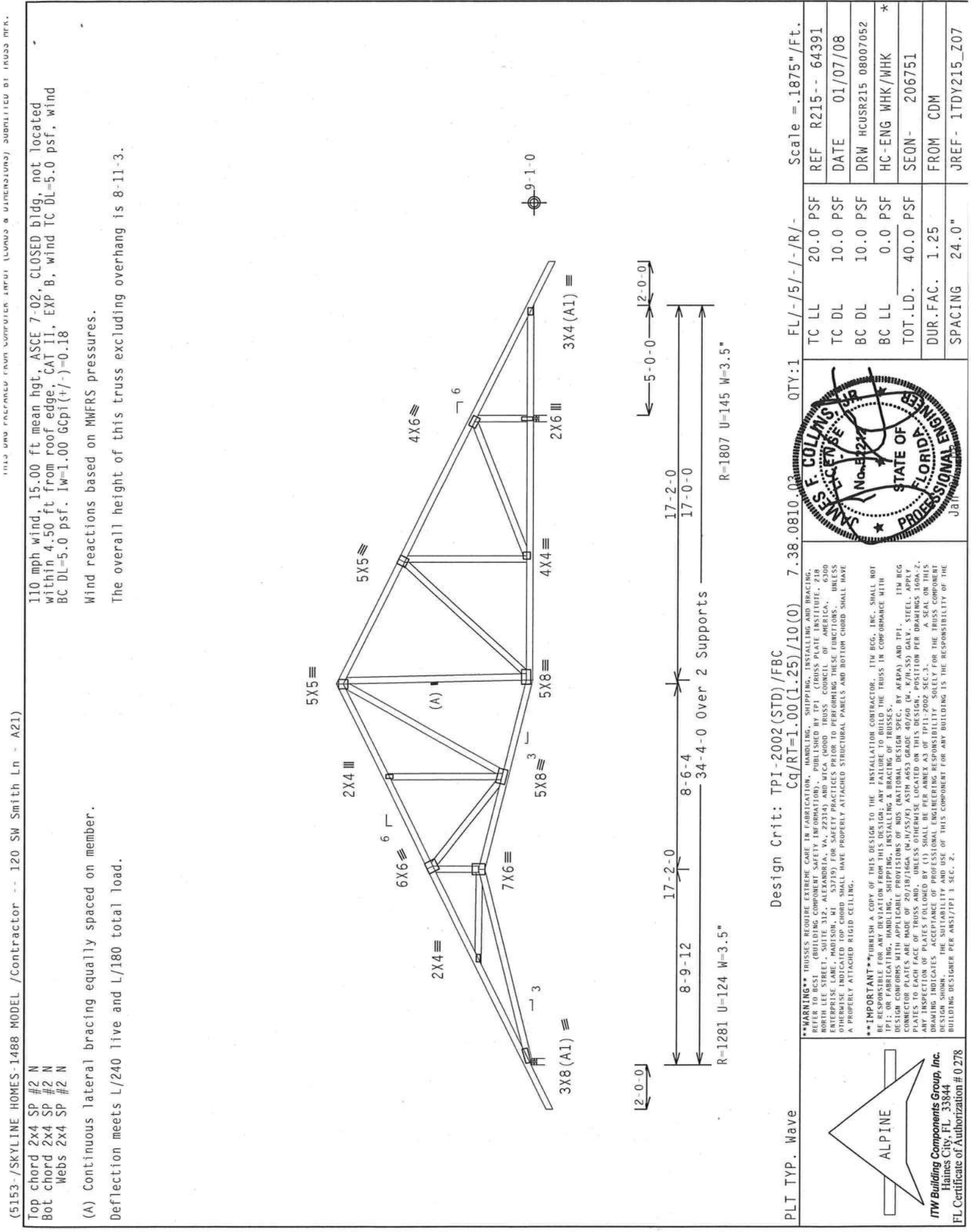
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Scale = .1875"/Ft.

 ITW Building Components Group, Inc. Haines City, FL 33844 FL Certificate of Authorization # 0 278	**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND MTCA (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.		QTY: 1		FL / - / 5 / - / - / R / -	TC LL	20.0	PSF	REF	R215 - -	64390
	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.		Cq/RT=1.00(1.25)/10(0)		7.38.0810	TC DL	10.0	PSF	DATE	01/07/08	
	DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. 1TH BCG CONNECTION PLATES ARE MADE OF 2018/106A (A1/SS/A) ASTM A563 GRADE 40/60 (W. K/H/SS) GALV. STEEL. APPLY PERMANENT IDENTIFICATION MARKS TO ALL PLATES. ALL PLATES SHALL BE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY VISUAL INSPECTION SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT DESIGNER SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.		R=2041 U=142 W=3.5"			BC DL	10.0	PSF	DRW	HCUSR215	08007051
						BC LL	0.0	PSF	HC-ENG	WHK/WHK	*
						TOT.LD.	40.0	PSF	SEQN	206729	
									DUR.FAC.	1.25	
					SPACING	24.0"		JREF	1TDY215_Z07		





(5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - A21)

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

(A) Continuous lateral bracing equally spaced on member.
Deflection meets L/240 live and L/180 total load.

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.

The overall height of this truss excluding overhang is 8-11-3.

Scale = .1875" / Ft.

QTY: 1

FL / - / 5 / - / - / R / -

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

SPACING 24.0"

REF R215-- 64391

DATE 01/07/08

DRW HCUSR215 08007052

HC-ENG WHK/WHK *

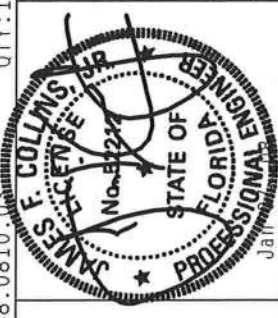
SEQN- 206751

FROM CDM

JREF- 1TDY215_Z07

PLT TYP. Wave

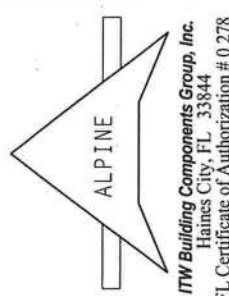
Design Crit: TPI-2002 (STD) /FBC
Cq/RT=1.00(1.25)/10(0) 7.38.0810.03

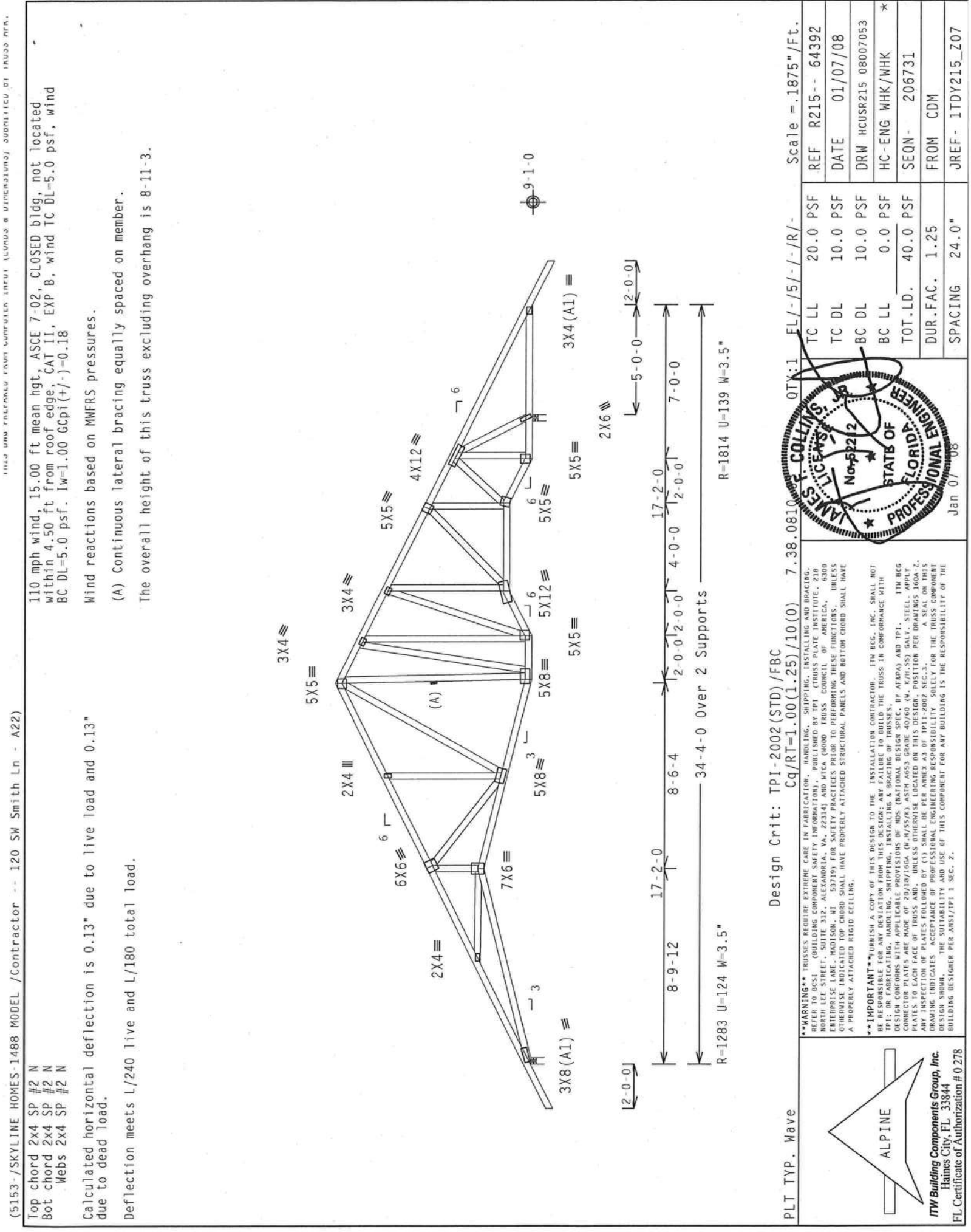


****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), BUILDING CODES, AND THE FOLLOWING: 1. 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, RI 02719) 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 AF&PA) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W. K/H-SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.





(5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - A22)

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

Calculated horizontal deflection is 0.13" due to live load and 0.13" due to dead load.

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

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 8-11-3.

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 MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 8-11-3.

Design Crit: TPI-2002 (STD) / FBC
Cq/RT=1.00(1.25)/10(0) 7.38.0810 QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft.

PLT TYP. Wave

REF R215-- 64392
DATE 01/07/08
DRW HCUSR215 08007053
HC-ENG WHK/WHK
SEQN- 206731
FROM CDM
JREF- 1TDY215_Z07

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

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 8-11-3.

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

Calculated horizontal deflection is 0.13" due to live load and 0.13" due to dead load.

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

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 8-11-3.

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 MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 8-11-3.

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

Calculated horizontal deflection is 0.13" due to live load and 0.13" due to dead load.

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

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 8-11-3.

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 MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 8-11-3.

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

Calculated horizontal deflection is 0.13" due to live load and 0.13" due to dead load.

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

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 8-11-3.

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 MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 8-11-3.

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

Calculated horizontal deflection is 0.13" due to live load and 0.13" due to dead load.

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

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 8-11-3.

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

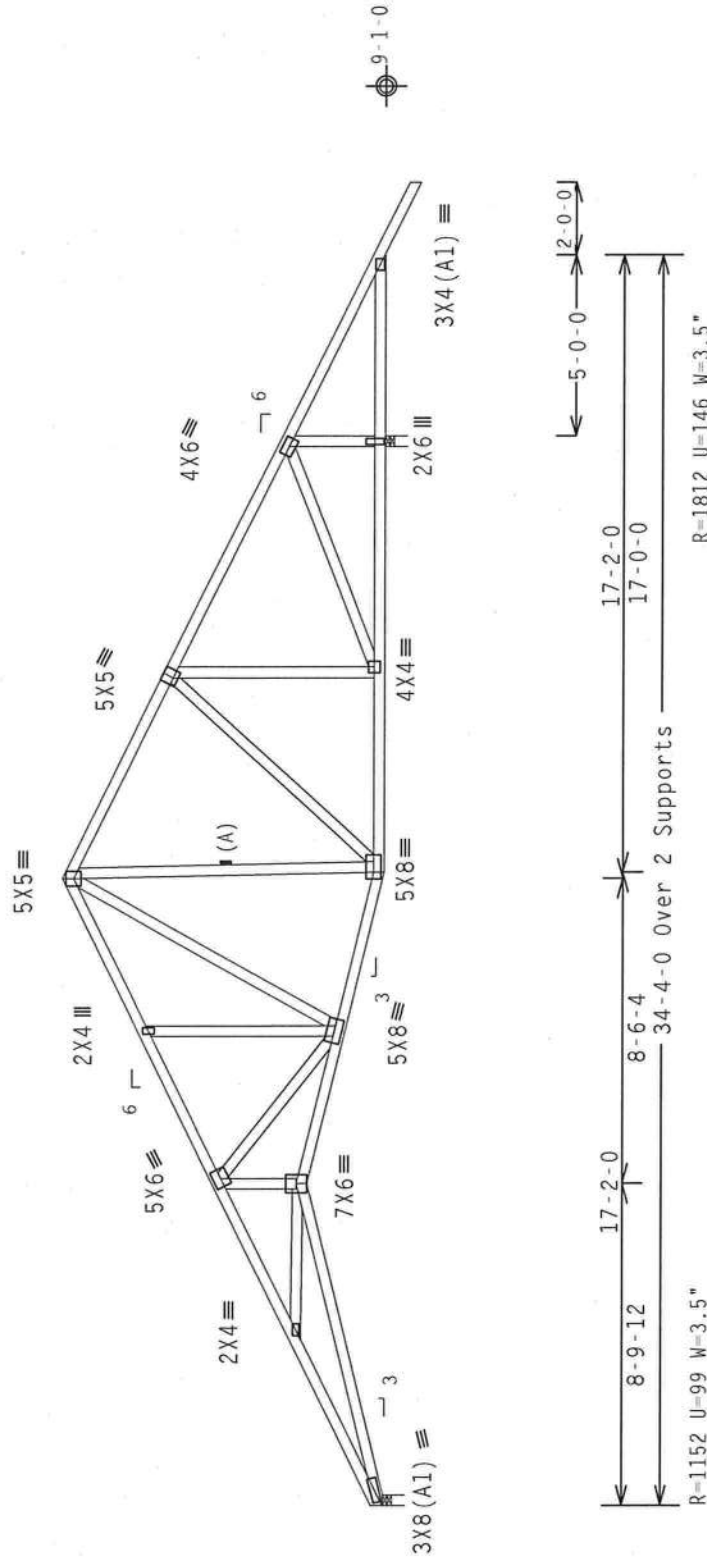
1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpi (+/-)=0.18

(A) Continuous lateral bracing equally spaced on member.

Wind reactions based on MWFRS pressures.

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

The overall height of this truss excluding overhang is 8-11-3.



Design Crit: TPI-2002(STD)/FBC

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

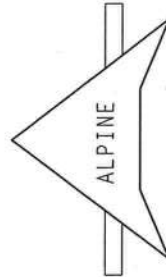
QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft.

PLT TYP. Wave

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND TRACING. REFER TO BEST BUILDING COMPONENT SAFETY MANUAL FOR TRUSS MANUFACTURER'S INSTRUCTIONS. 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WFLA (WORLD TRUSS COUNCIL OF AMERICA, 100 ENTERPRISE LANE, MADISON, MI 48219) AND WFLA (WORLD TRUSS COUNCIL OF AMERICA, 100 ENTERPRISE LANE, MADISON, MI 48219) FOR MORE INFORMATION. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****WARNING***** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING PRACTICES FOR PROPER SAFETY PROCEDURES. THE FOLLOWING INFORMATION IS NOT A SUBSTITUTE FOR AN ENGINEER'S DESIGN OR ANY OTHER TECHNICAL DOCUMENTS. ALWAYS CONSULT WITH THE TRUSS MANUFACTURER REGARDING ALL TRUSS CONSTRUCTION DETAILS.
NORTH LEE STREET, SUITE 312, ALXANORVILLE VA 22014
ENTERPRISE LLC, WAUWATONIA WI 53191
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. TIF BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE AT THE TRUSS IN COMPLIANCE WITH SECTION 101; OR FABRICATING, SHIPPING, OR INSTALLING BRACING OF TRUSSES.

[illegible]

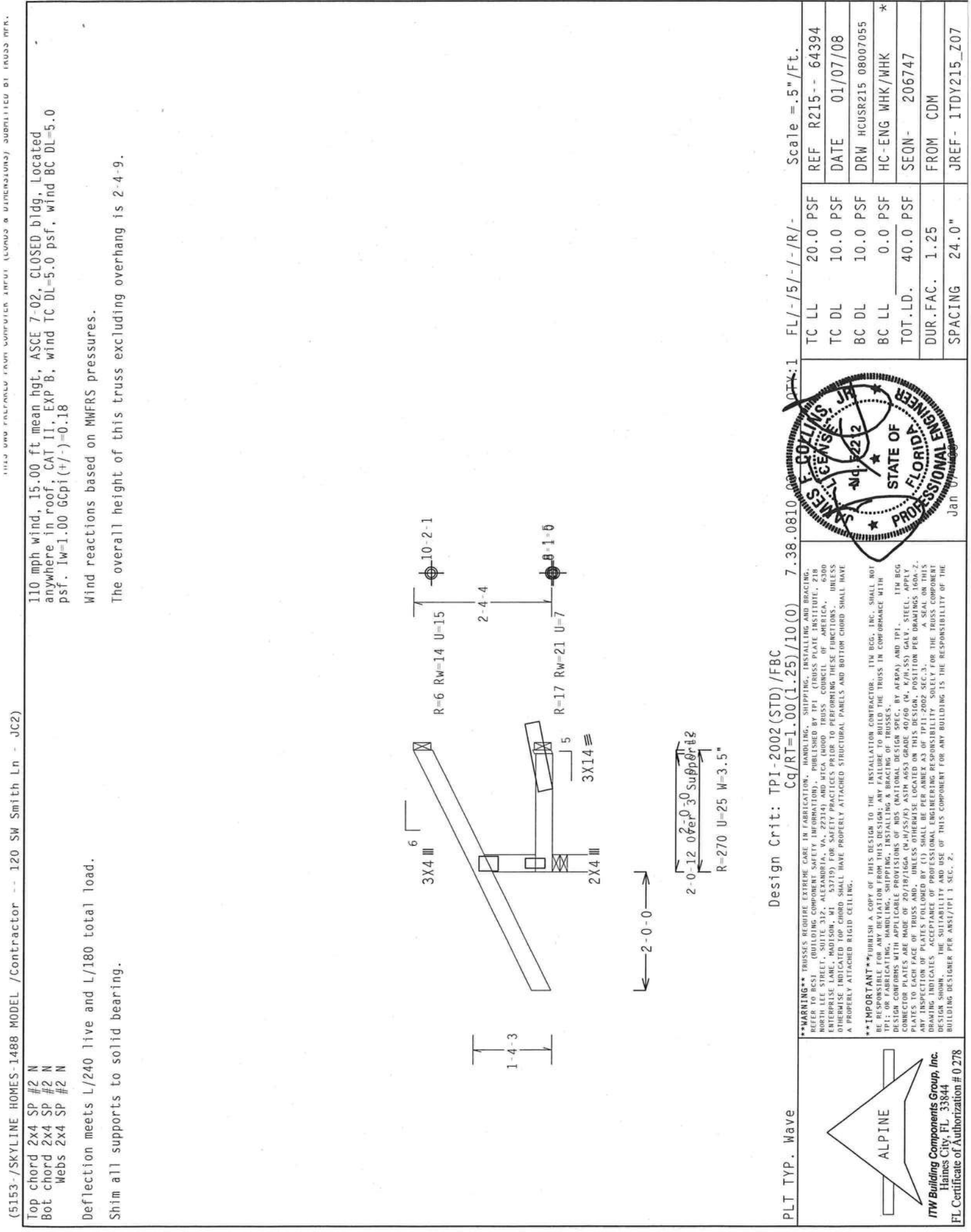
ITW Building Components Group, Inc.
Haines City, FL 33844

FL Certificate of Authorization #0 278

Jan 07, 2008



TC LL	20.0 PSF	REF	R215 -- 64393
TC DL	10.0 PSF	DATE	01/07/08
BC DL	10.0 PSF	DRW	HCUSR215 08007054
BC LL	0.0 PSF	HC-ENG	WHK/WHK *
TOT.LD.	40.0 PSF	SEQN-	206733
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1TDY215 Z07



(5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - JC2)

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

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

Shim all supports to solid bearing.

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 overall height of this truss excluding overhang is 2-4-9.

PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC

$C_q/R_T=1.00(1.25)/10(0)$ 7.38.0810

Scale = .5" / Ft.

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

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

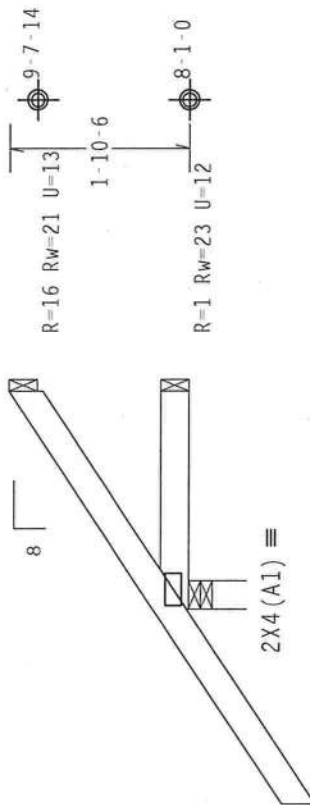
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 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 DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 2019/1066 (W/H/SS/RS) ASTM A653 GRADE 40/60 (W. K/H-SS) GALV. STEEL. APPLY ANY INSPECTION TO THE TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2, 100B-2, 100C-2, 100D-2, 100E-2, 100F-2, 100G-2, 100H-2, 100I-2, 100J-2, 100K-2, 100L-2, 100M-2, 100N-2, 100O-2, 100P-2, 100Q-2, 100R-2, 100S-2, 100T-2, 100U-2, 100V-2, 100W-2, 100X-2, 100Y-2, 100Z-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE ASSIGNED COMPONENT DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

1110 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.

The overall height of this truss excluding overhang is 1-10-6.



2-0-0

2-2-14 over 3 supports
R=299 U=36 W=3.5"

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

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

TC LL	20.0 PSF	REF	R215 - -	64395
TC DL	10.0 PSF	DATE	01/07/08	
BC DL	10.0 PSF	DRW	HCUSR215	08007056
BC LL	0.0 PSF	HC-ENG	WHK/WHK	*
TOT.LD.	40.0 PSF	SEQN-	206791	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1TDY215	Z07



****WARNING**** THUSSE'S REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST QUALITY (PROTECTIVE COMPONENT SAFETY INFORMATION), MANUFACTURED BY THUIS (TROUSSE) PAST INSTITUTE, 210 RIVER ST., NEW YORK, NY 10014, TEL: (212) 476-2231 AND (212) 476-1400. THUIS (TROUSSE) COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, WILSON, NJ 07090, TEL: (201) 329-0000. BE VERY CAREFUL TO FOLLOW THESE INSTRUCTIONS, 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 THIS DESIGN CONFORMS WITH APPLICABLE SPECIFICATIONS, INCLUDING A BRANCHING OF TRUSSES.

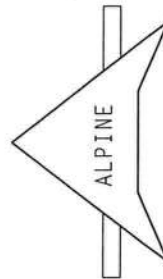
DESIGN CONFORMS WITH APPLICABLE SPECIFICATIONS, INCLUDING A BRANCHING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 2010/16GA (4/15/5K) WITH A563 GRADE 40 (G. KAWAS) BALV. STEEL.

PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS, FIG. 2.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANSI A3 OF TP1-2002 SEC. 3.3. 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/TP1 1 SEC. 2.



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

FL Certificate of Authorization # 0 278

(5133- /SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - JC28)

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

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

The overall height of this truss excluding overhang is 1-9-9.

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 GCpf(+/-)=0.18

Wind reactions based on MWFRS pressures.

8

2-1-11 over 1-3 Supports

R=298 U=37 W=3.5"

R=11 Rw=22 U=16

1-9-9

R=-1 Rw=23 U=13

8-1-0

2X4 (A1) ≡

← 2-0-0 →

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.38.0810

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

REF R215-- 64396

DATE 01/07/08

DRW HCUSR215 08007057

HC-ENG WHK/WHK *

SEQN- 206881

FROM CDM

JREF- 1TDY215_Z07

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT.LD. 40.0 PSF

DUR.FAC. 1.25

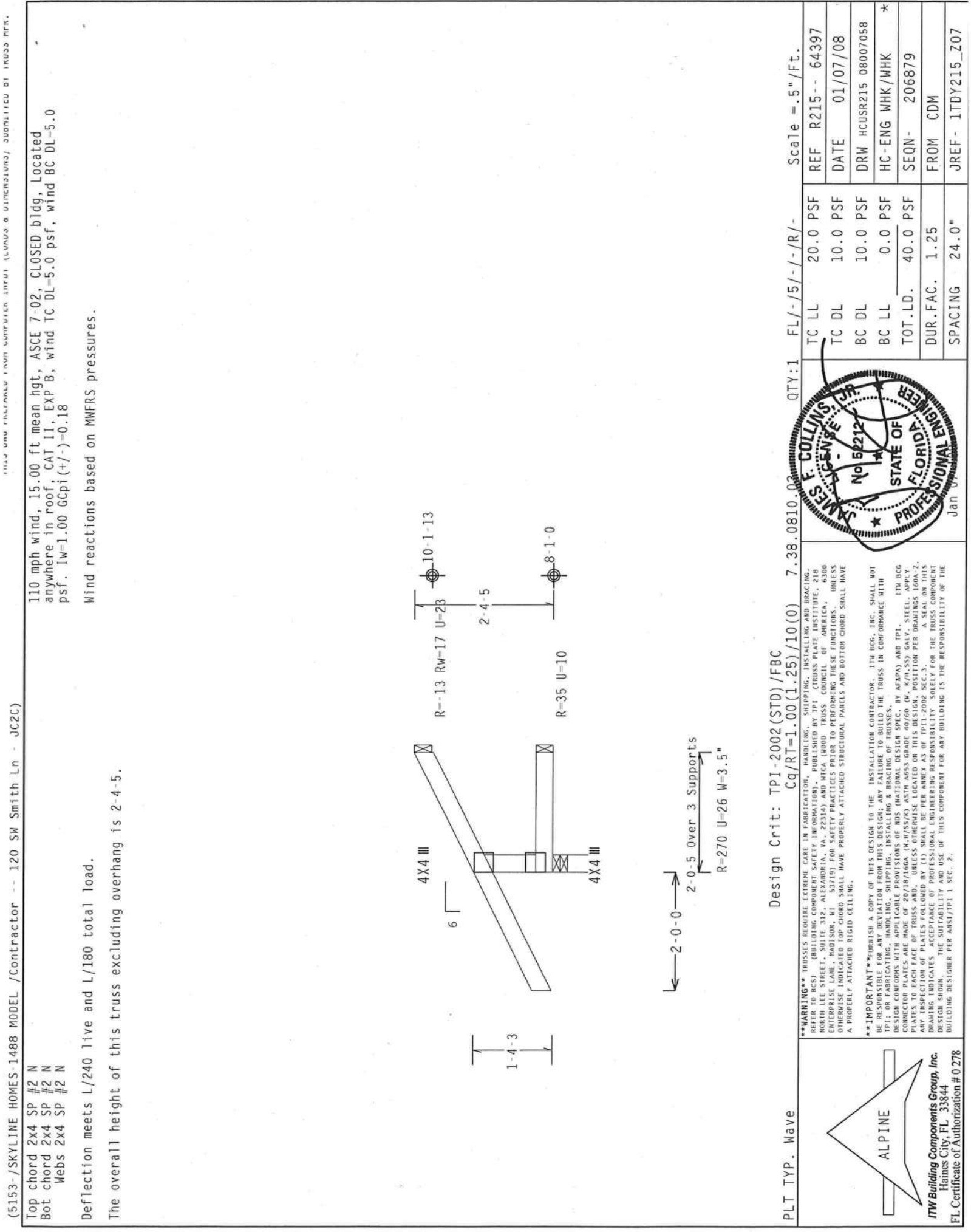
SPACING 24.0"

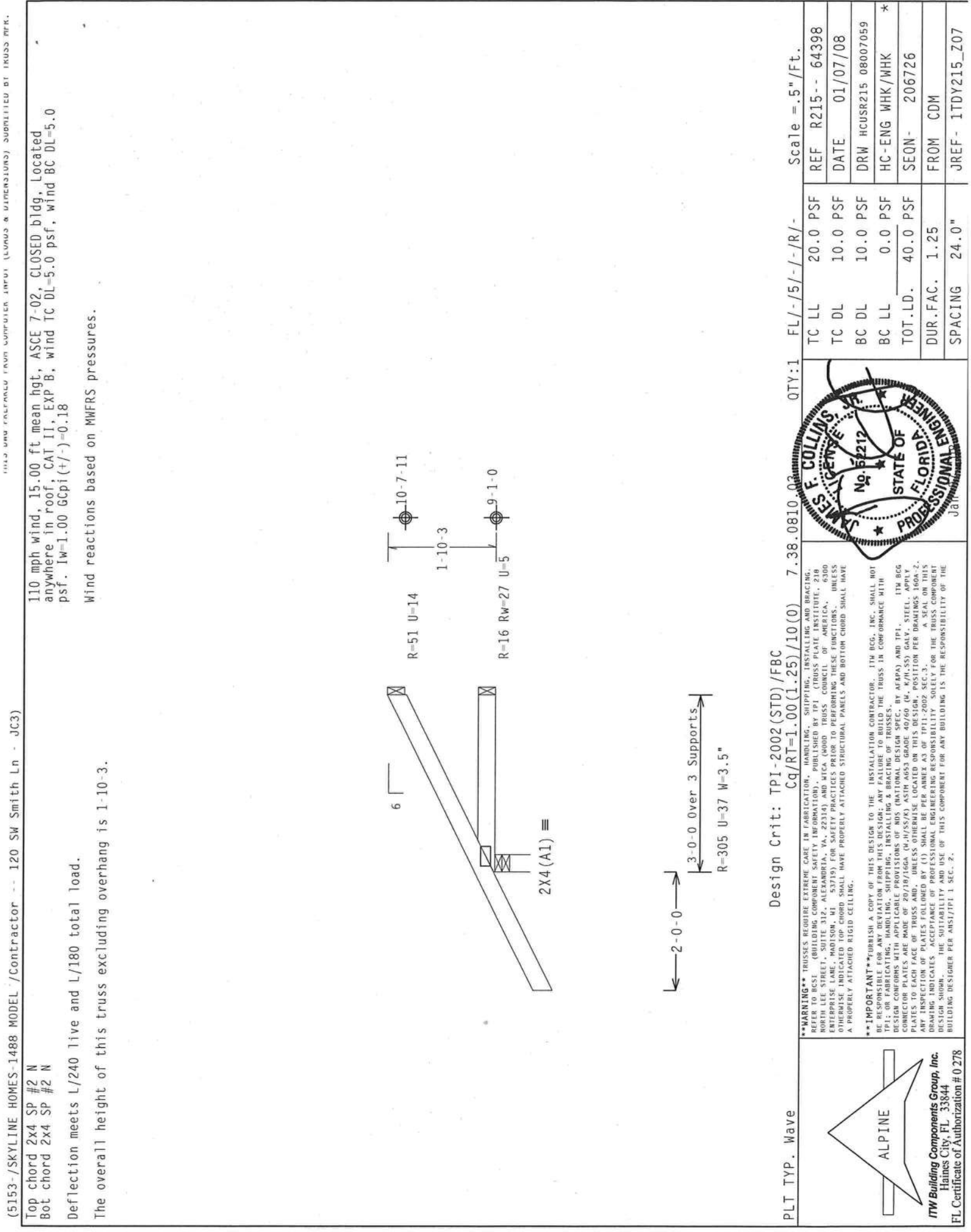
ALPINE

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

FL Certificate of Authorization # 0 278

James F. Gollins, P.E.
Professional Engineer
State of Florida
No. 42212
Jan 07, 2000





(5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - JC3)

Top chord 2x4 SP #2 N

Bot chord 2x4 SP #2 N

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

The overall height of this truss excluding overhang is 1-10-3.

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

Wind reactions based on MWFRS pressures.

Design Crit: TPI-2002 (STD) /FBC

Cq/RT=1.00(1.25)/10(0) 7.38.0810.03

Scale = .5" /Ft.

QTY: 1

FL / - / 5 / - / R / -

REF R215 -- 64398

DATE 01/07/08

DRW HCUSR215 08007059

HC-ENG WHK/WHK

SEQN - 206726

FROM CDM

JREF- 1TDY215_Z07

PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC

Cq/RT=1.00(1.25)/10(0) 7.38.0810.03

Scale = .5" /Ft.

QTY: 1

FL / - / 5 / - / R / -

REF R215 -- 64398

DATE 01/07/08

DRW HCUSR215 08007059

HC-ENG WHK/WHK

SEQN - 206726

FROM CDM

JREF- 1TDY215_Z07

PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC

Cq/RT=1.00(1.25)/10(0) 7.38.0810.03

Scale = .5" /Ft.

QTY: 1

FL / - / 5 / - / R / -

REF R215 -- 64398

DATE 01/07/08

DRW HCUSR215 08007059

HC-ENG WHK/WHK

SEQN - 206726

FROM CDM

JREF- 1TDY215_Z07

PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC

Cq/RT=1.00(1.25)/10(0) 7.38.0810.03

Scale = .5" /Ft.

QTY: 1

FL / - / 5 / - / R / -

REF R215 -- 64398

DATE 01/07/08

DRW HCUSR215 08007059

HC-ENG WHK/WHK

SEQN - 206726

FROM CDM

JREF- 1TDY215_Z07

PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC

Cq/RT=1.00(1.25)/10(0) 7.38.0810.03

Scale = .5" /Ft.

QTY: 1

FL / - / 5 / - / R / -

REF R215 -- 64398

DATE 01/07/08

DRW HCUSR215 08007059

HC-ENG WHK/WHK

SEQN - 206726

FROM CDM

JREF- 1TDY215_Z07

PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC

Cq/RT=1.00(1.25)/10(0) 7.38.0810.03

Scale = .5" /Ft.

QTY: 1

FL / - / 5 / - / R / -

REF R215 -- 64398

DATE 01/07/08

DRW HCUSR215 08007059

HC-ENG WHK/WHK

SEQN - 206726

FROM CDM

JREF- 1TDY215_Z07

PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC

Cq/RT=1.00(1.25)/10(0) 7.38.0810.03

Scale = .5" /Ft.

QTY: 1

FL / - / 5 / - / R / -

REF R215 -- 64398

DATE 01/07/08

DRW HCUSR215 08007059

HC-ENG WHK/WHK

SEQN - 206726

FROM CDM

JREF- 1TDY215_Z07

PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC

Cq/RT=1.00(1.25)/10(0) 7.38.0810.03

Scale = .5" /Ft.

QTY: 1

FL / - / 5 / - / R / -

REF R215 -- 64398

DATE 01/07/08

DRW HCUSR215 08007059

HC-ENG WHK/WHK

SEQN - 206726

FROM CDM

JREF- 1TDY215_Z07

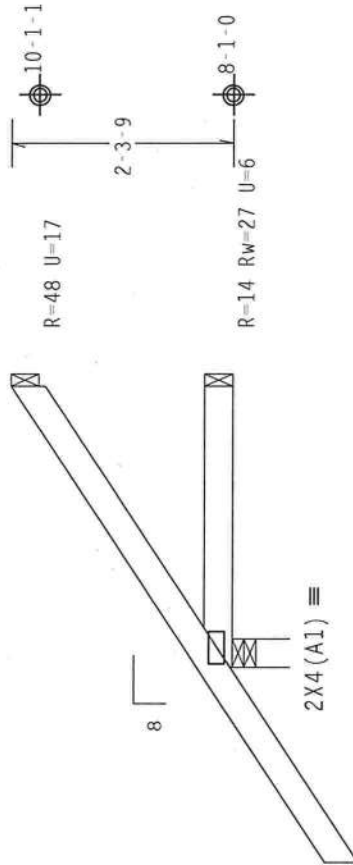
Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N

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.

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

The overall height of this truss excluding overhang is 2-3-9.



2-10-11 Over 3 Supports
R=309 U=30 W=3.5"

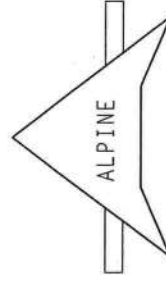
Design Crit: TPI-2002(STD)/FBC

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

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE CONSTRUCTION SAFETY INFORMATION. PUBLISHED BY (BRUSS PLATE INSTITUTE, 210 ENTERPRISE LANE, MADISON, WI 53717) OR (BRUSS PLATE INSTITUTE, 6300 UNIVERSITY AVENUE, SUITE 100, MINNEAPOLIS, MN 55412) FOR ADDITIONAL INFORMATION. UNLESS OTHERWISE INDICATED TOP CHORD SHALL BE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELL.

*****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 IPT-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTIONS MUST BE APPLICABLE PROVISIONS OF AISC (NATIONAL STEEL DESIGN SPEC., BY AISC) AND IPT-1. ITW BCG HAS PROVIDED THE FOLLOWING INFORMATION TO ASSIST WITH CONNECTIONS: STEP #683 GRADES 40760 (A, K/H-S5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE NOTED, WELDING POSITION PER DRAWINGS 160A-2 THROUGH 160B-2. DRIVING 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 AWS/P1 1 SEC. - 2.



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

James City, FL 33844
FL Certificate of Authorization # 0 278

TL / SL / KL			Scale = .5 / Ft..	
TC LL	20.0	PSF	REF R215 - -	64399
TC DL	10.0	PSF	DATE	01/07/08
BC DL	10.0	PSF	DRW HCUSR215	08007060
BC LL	0.0	PSF	HC-ENG WHK / WHK	*
TOT.LD.	40.0	PSF	SEQN -	206883
DUR.FAC.	1.25		FROM	CDM
SPACING	24.0"		JREF -	1TDY215 Z07

(5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - JC4)

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

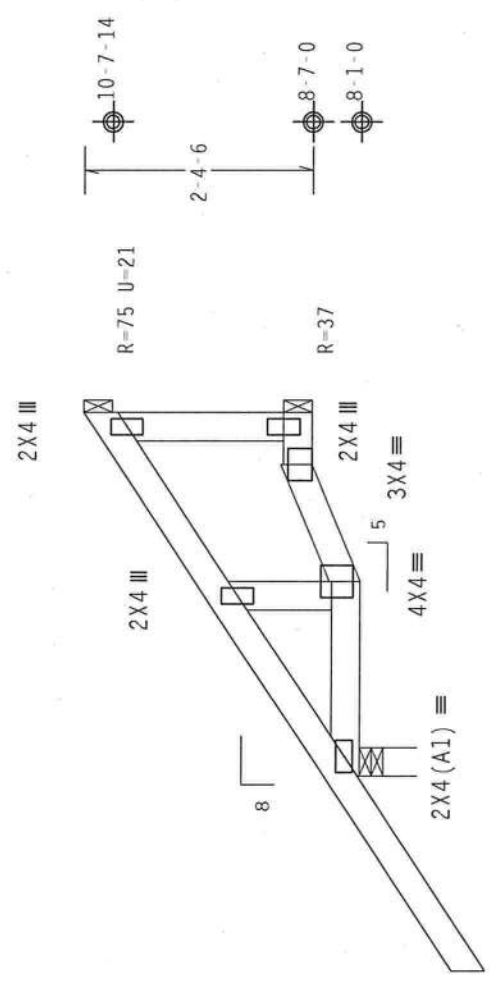
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCPI(+/-)=0.18

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

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 2-10-6.

Right end vertical not exposed to wind pressure.

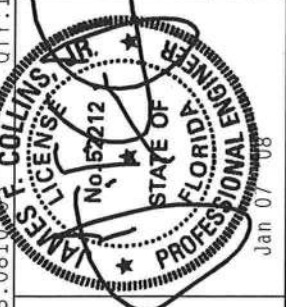


2-0-0
1-2-6
3-8-14 Over 3 Supports
R=333 U-24 W-3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.38-0810

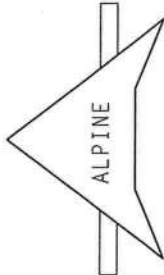
QTY: 1 FL/-/5/-/-/R/- Scale = .5"/Ft.

REF	R215--	64400
DATE	01/07/08	
DRW	HCUSR215	08007061
HC-ENG	WHK/WHK	*
SEQN	206793	
FROM	CDM	
JREF	1TDY215_Z07	

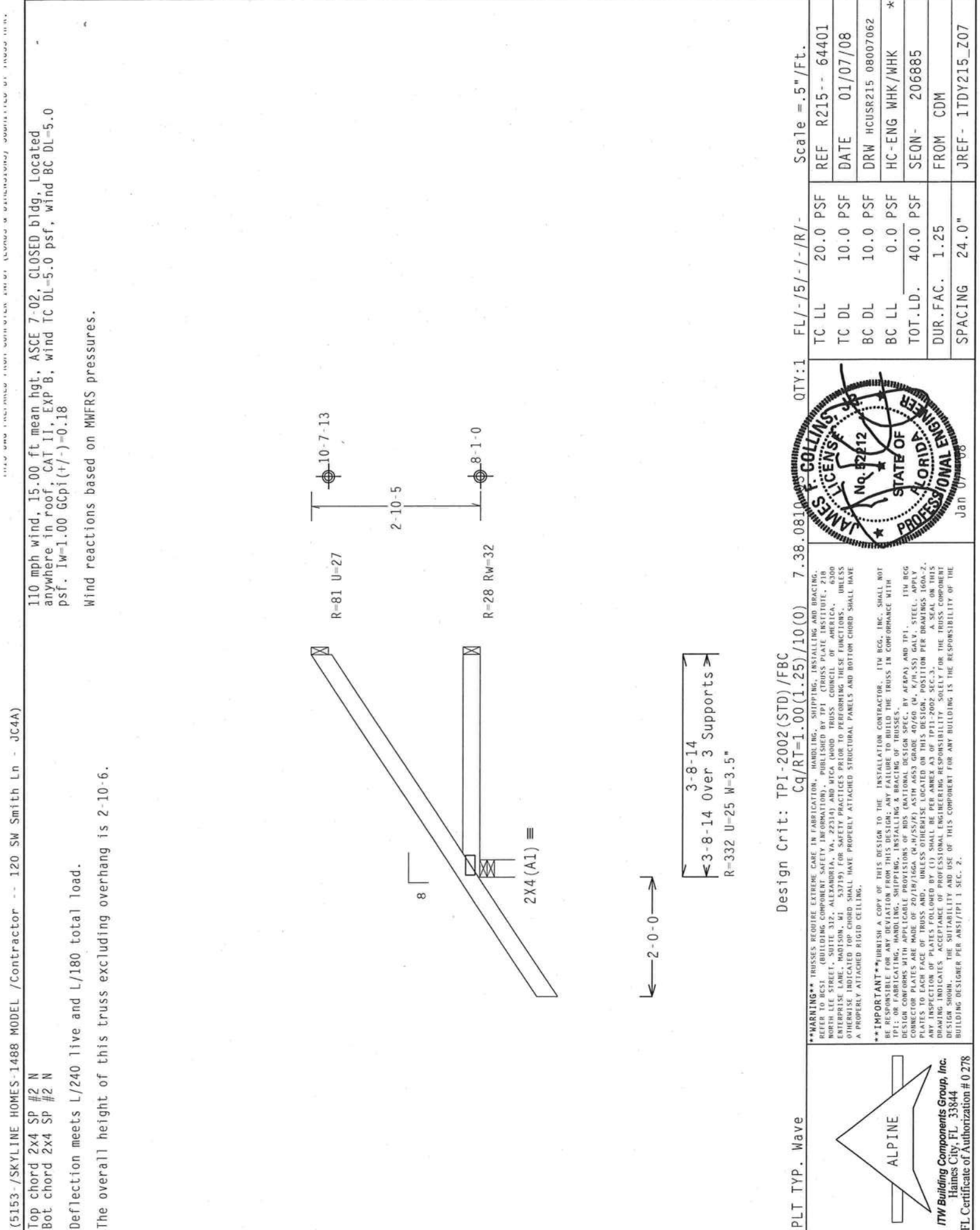


****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 500 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 AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (M/55/5X) ASTM A653 GRADE 40/60 (M. 47/1.55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY THE INSTALLATION CONTRACTOR. THE DESIGNER SHALL BE RESPONSIBLE FOR THE 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



(5153- /SKYLINE HOMES-1488 MODEL /Contractor -- 120 Sw Smith Ln - JC4A)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 2'-10"-6.

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 Gcpl(+/-)=0.18
Wind reactions based on MWFRS pressures.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.38-0810 QTY: 1 FL/-/5/-/-/R/- Scale = .5"/Ft.

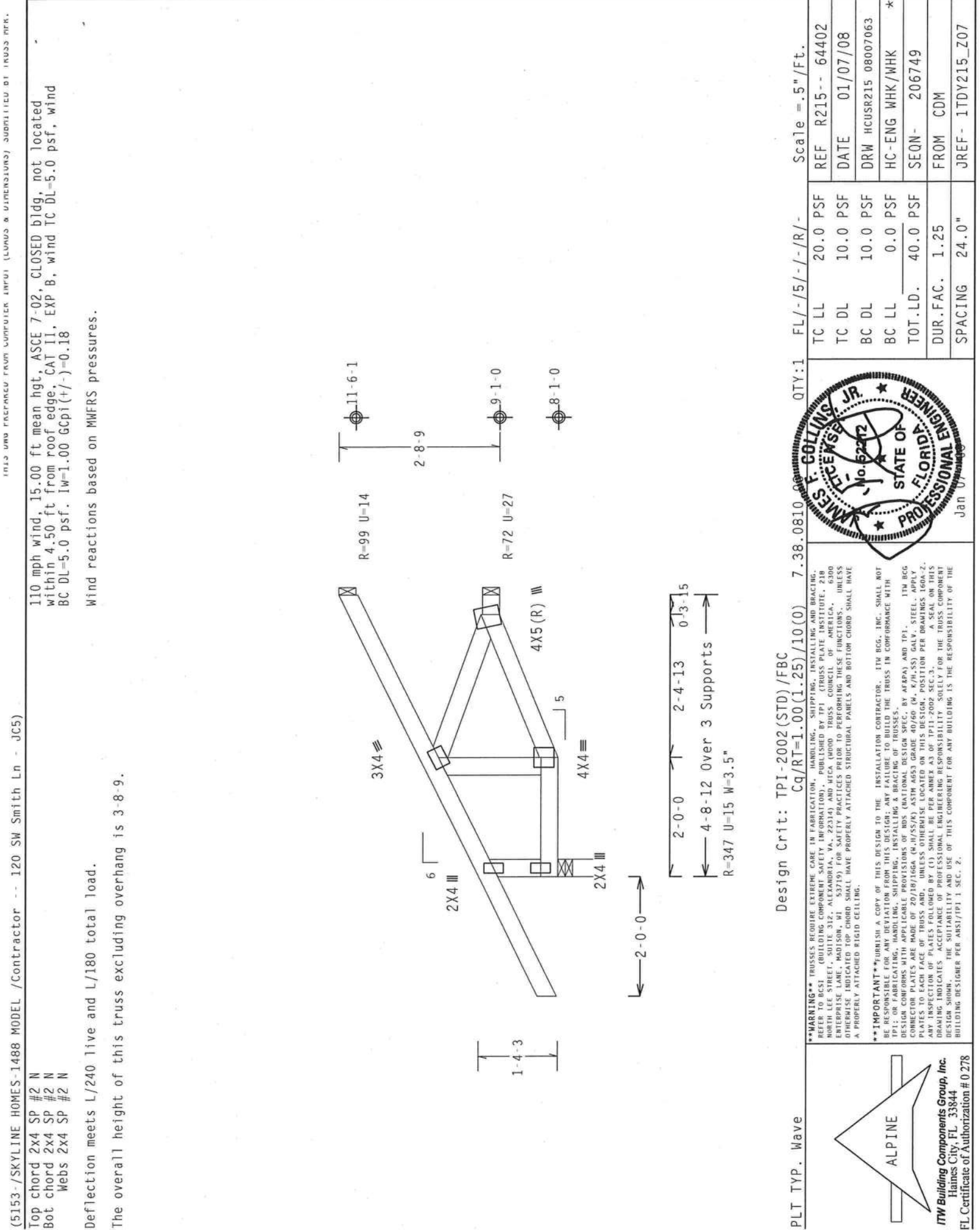
PLT TYP. Wave

ALPINE

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

James F. Collins
Professional Engineer
State of Florida
No. 82212
Jan 07/08

REF	R215--	64401
DATE	01/07/08	
DRW	HCUSR215	08007062
HC-ENG	WHK/WHK	*
SEON-	206885	
FROM	CDM	
JREF-	1TDY215_Z07	



(5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - JCSA)

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

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

The overall height of this truss excluding overhang is 3-10-6.

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

Wind reactions based on MWFRS pressures.

2-0-0

2-4-13

10-10-1

2-0-0

5-2-14 Over 3 Supports

R=385 U=17 W=3.5

Design Crit: TPI-2002(STD)/FBC

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

PLT TYP. Wave

Scale = .5"/Ft.

QTY:1

FL/-/5/-/-/R/-

TC LL

20.0 PSF

REF R215-- 64403

TC DL

10.0 PSF

DATE 01/07/08

BC DL

10.0 PSF

DRW HCUSR215 08007064

BC LL

0.0 PSF

HC-ENG WHK/WHK *

TOT.LD.

40.0 PSF

SEQN- 206802

DUR.FAC.

1.25

FROM CDM

SPACING

24.0"

JREF- 1TDY215_Z07

STATE OF FLORIDA

PROFESSIONAL ENGINEER

SEAL

NO 5122

DATE 01/07/08

Jan 07, 2008

ITW Building Components Group, Inc.

Haines City, FL 33844

FL Certificate of Authorization # 0 278

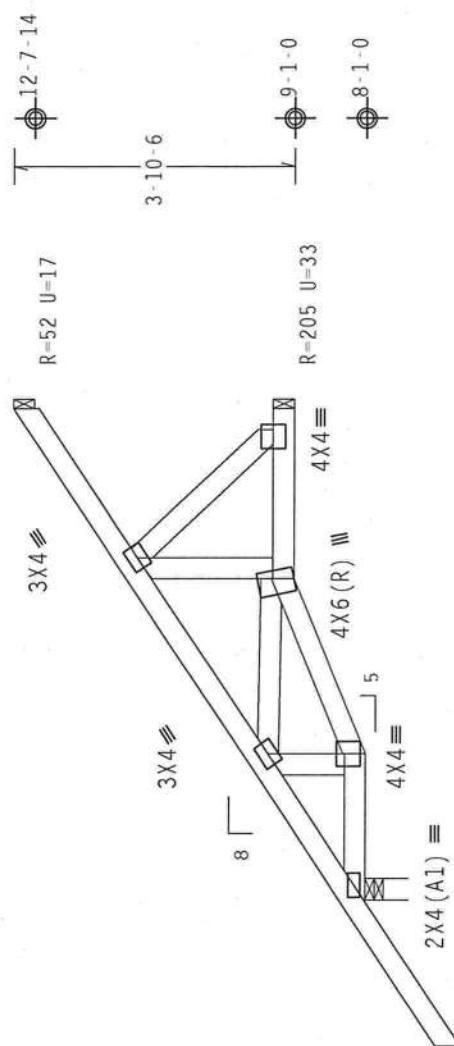
Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	Webs	2x4	SP	#2	N

111.00 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. lw=1.00 GCpi(+/-)=0.18

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

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 4-10-6.



700

2-0-0 2-4-13 2-4-1
6-8-14 Over 3 Supports
R=442 I=12 W=3.5"

Design Crit: TPI-2002(STD)/FBC

QTY:1 FL/-/5/-/-/R/-
Scale = .375"/Ft.

310.03

$$C_a/RT=1.00(1.25)/10(0)$$

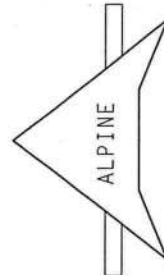
PLT TYP. Wave

[illegible]

****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 FAILURE TO FABRICATE, SHIP, OR INSTALL THE TRUSS IN CONFORMANCE WITH THE DESIGN. ITW BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO FABRICATE, SHIP, OR INSTALL THE TRUSS IN CONFORMANCE WITH THE DESIGN. ITW BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO FABRICATE, SHIP, OR INSTALL THE TRUSS IN CONFORMANCE WITH THE DESIGN.

DESIGN CONFORMING WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND THE STEEL EDITIONS OF THE BUILDING CODES OF ORDINANCES FOR THE CITY OF CHICAGO. ALL BRACING OF TRUSSES, CONNECTOR PLATES ARE MADE OF 20T/18TG/A (M/55/KS) LATH #63 GRADE 40/60 (N, K/H/SJ) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMBEX 43 OF TP11-2002 SEC. 2.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMBEX/TP1 1 SEC. 2.



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

TC LL	20.0 PSF	REF	R215--	64404
TC DL	10.0 PSF	DATE	01/07/08	
BC DL	10.0 PSF	DRW	HCUSR215	08007065
BC LL	0.0 PSF	HC-ENG	WHK/WHK	*
TOT.LD.	40.0 PSF	SEQN-	206796	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1TDY215_Z07	

(5153-)/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - JE4)

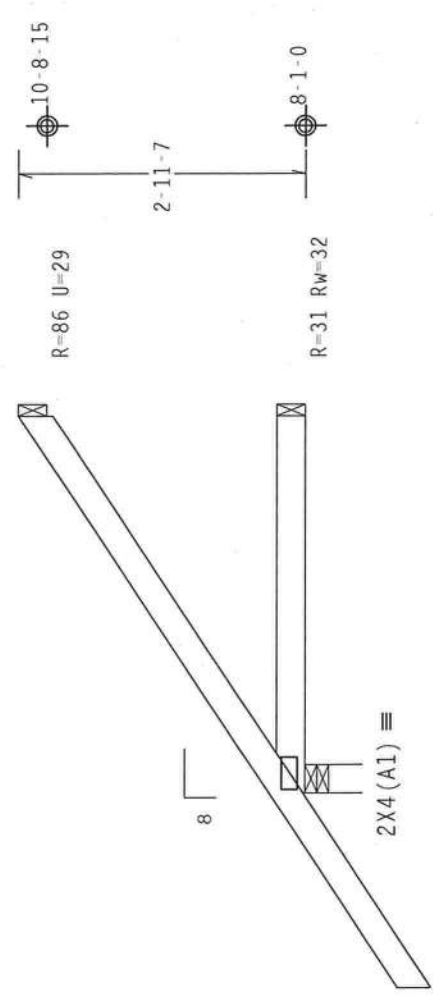
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

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

The overall height of this truss excluding overhang is 2-11-7.

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.



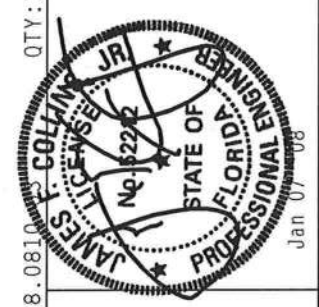
2-0-0

3-10-8
3-10-8 Over 3 Supports
R=337 U=24 W=3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.38.0810

Scale = .5" / Ft.

QTY: 1	FL / - / 5 / - / - / R / -	TC LL	20.0 PSF	REF	R215 -- 64405
		TC DL	10.0 PSF	DATE	01/07/08
		BC DL	10.0 PSF	DRW	HCUSR215 08007066
		BC LL	0.0 PSF	HC-ENG	WHK/WHK *
		TOT.LD.	40.0 PSF	SEQN-	206887
		DUR.FAC.	1.25	FROM	CDM
		SPACING	24.0"	JREF-	1TDY215_Z07



****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, 214 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (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**** 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. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (4-M/SS/K) ASTM A653 GRADE 40/60 (4, K/M,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. AND INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 13.1. A SEAL ON THIS DESIGN SHOWN INDICATES THE DESIGNER'S RESPONSIBILITY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

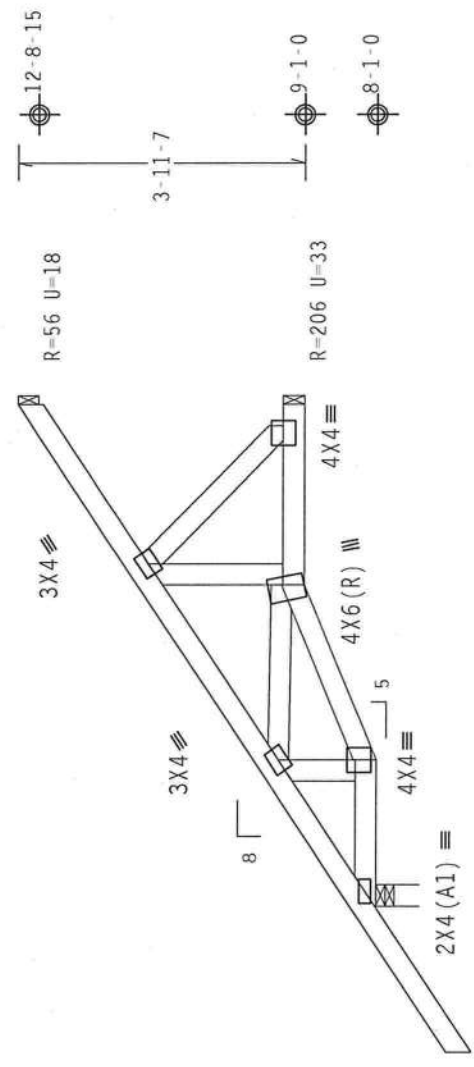
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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.

The overall height of this truss excluding overhang is 4-11-7.



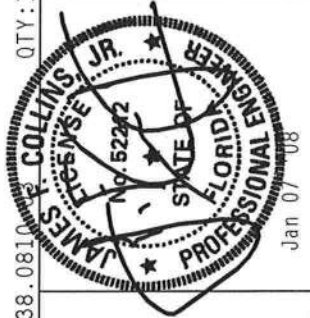
2-0-0

2-0-0 2-4-13 2-5-11
6-10-8 Over 3 Supports
R-447 U=12 W=3.5"

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

Scale = .375" / Ft.

TC LL	20.0	PSF	REF	R215--	64406
TC DL	10.0	PSF	DATE	01/07/08	
BC DL	10.0	PSF	DRW	HCUSR215	08007067
BC LL	0.0	PSF	HC-ENG	WHK/WHK	*
TOT.LD.	40.0	PSF	SEQN-	206789	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1TDY215_Z07	

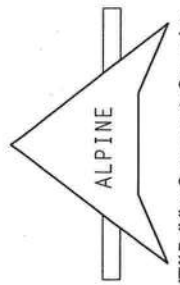


*****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT INFORMATION), PUBLISHED BY ITI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE 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**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITI BEG, 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 FOLLOWING MATERIALS AND CONNECTIONS ARE REQUIRED FOR THIS DESIGN:

DESIGN COMPONENTS WITH APPLICABLE REFERENCES OF NDS (NATIONAL DESIGN SPECIFICATIONS) AND ITI. ITI BEG CONNECTOR PLATES ARE MADE OF 2018/16GA. OR W/55FS/3 ASTH A563.3 GRADE 40/60 (W. 6/30/55) 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 ANNEX A3 OF ITI-2002 SEC. 3. A SEAL ON THE 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/ITP1 1 SEC. 2.



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

(5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - JE7A)

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

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

The overall height of this truss excluding overhang is 4-11-7.

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 GCpf(+/-)=0.18

Wind reactions based on MWFRS pressures.

Labels: 2x4 (A1), 3x4, 4x4, 4x6 (R), 8'

Dimensions: 2-0-0, 1-0-15, 3-9-9, 6-10-8 Over 3 Supports, R=446 U=12 W=3.5"

Reactions: R=96 U=32, R=166 U=20

Other: 12-8-15, 4-6-1, 8-6-6, 8-1-0

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.38.0810.08

Scale = .375"/Ft.

James F. Collins, Jr.
Professional Engineer
State of Florida
No. 52212
Exp. 12/31/2012

PLT TYP. Wave

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

REF	R215--	64407
DATE	01/07/08	
DRW	HCUSR215	08007068
HC-ENG	WHK/WHK	*
SEQN-	206798	
FROM	CDM	
JREF-	1TDY215_Z07	

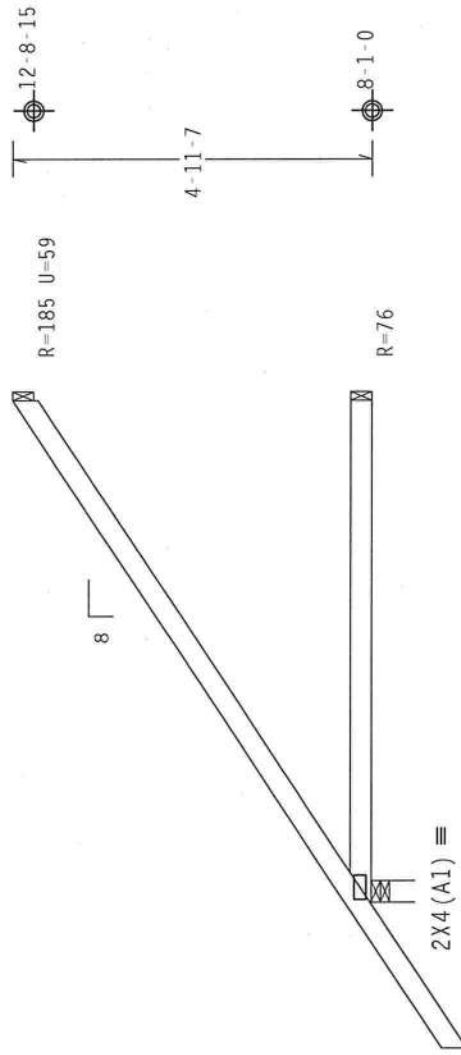
Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N

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. lw=1.00 GCpi (+/-)=0.18

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

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 4-11-7.



2-0-0

6-10-8
6-10-8 Over 3 Supports
R=445 U=13 W=3.5"

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

QTY:1 FL/-/5/-/-/R/- Scale = .375"/Ft.

810

7.

 $\Delta O(0)$

25) / 1

00(1:

 $T=1.0$ Cq/R

5.

9

100

wave

YP. V

117a

WARNING: TRUSSES ROUTINE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY THE MANUFACTURER. (SEE LISTED BELOW) FOR CONSTRUCTION DETAILS. 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND WEA (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 PROPERLY ATTACHED RIGID CEILING.

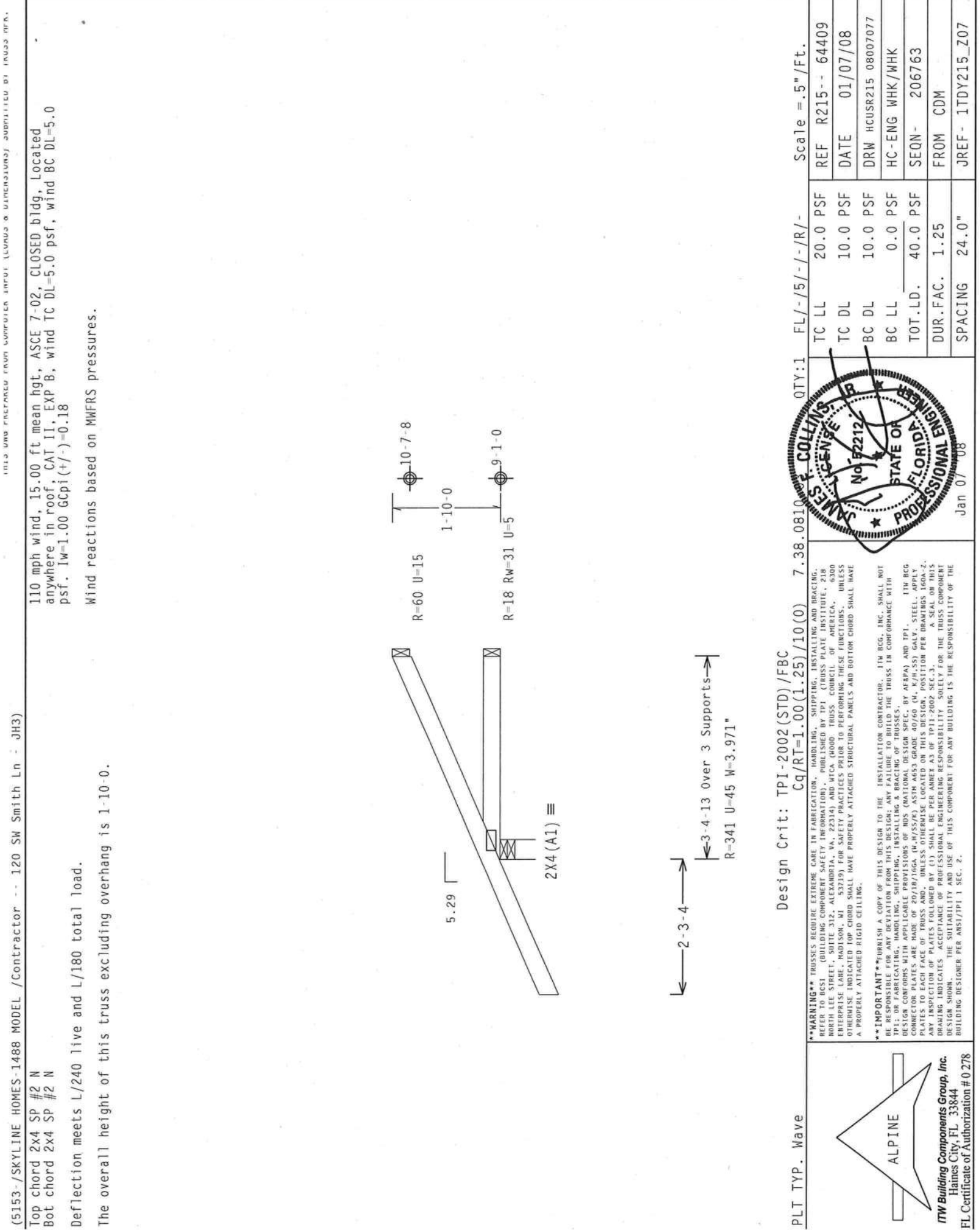
****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH THIS DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGNER'S MATERIAL SPECIFICATIONS: ALL STEEL SHALL BE ASTM A992 (C/C), BY ATSPRO AND TP1. 17W BEG CONNECTOR PLATES ARE MADE OF 7010/16GA/HX/SS/PLAST ASH A653 GRADE 40, BY KYNES GALV. STEEL. APPLICABLE TO EACH FACE OF TRUSS AND UNLESS OTHERWISE NOTED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX A.3 OF TP1-2002 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 ANEX B/TP1.1 SEC. 2.



Haines City, FL 33844
FL Certificate of Authorization # 0 278

FL Certificate of Authorization # 0218



(5153-/SKYLINE HOMES-1488 MODEL /Contractor -- 120 SW Smith Ln - JH3)
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 1-10-0.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, IW=1.00 Gcpi (+/-)=0.18
Wind reactions based on MWFRS pressures.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.38-.0810 QTY:1 FL/-/5/-/-R/- Scale =.5"/Ft.

PLT TYP. Wave

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, IW=1.00 Gcpi (+/-)=0.18
Wind reactions based on MWFRS pressures.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.38-.0810 QTY:1 FL/-/5/-/-R/- Scale =.5"/Ft.

PLT TYP. Wave

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

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.

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

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

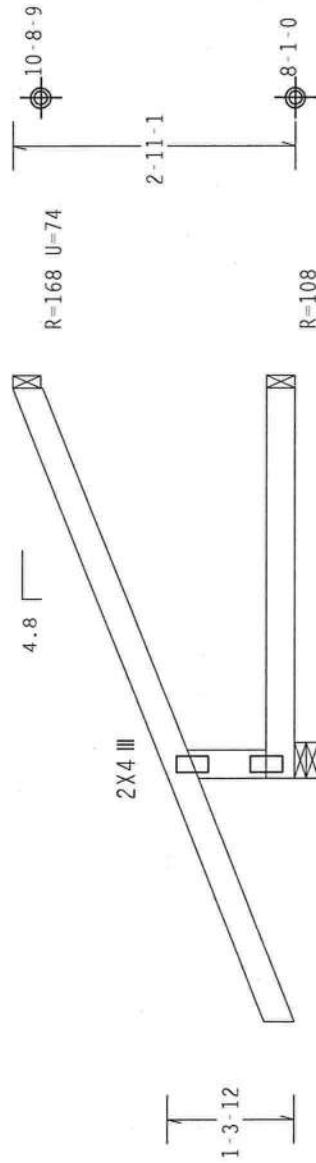
Wind reactions based on MWFRS pressures.

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

The overall height of this truss excluding overhang is 2-11-1.

SPECIAL LOADS

LUMBER		DUR.FAC.=1.25 / PLATE		DUR.FAC.=1.25	
TC - From	62 PLF at -2.50 to	TC - From	62 PLF at -2.50 to	TC - From	62 PLF at 4.02
BC - From	20 PLF at 0.00 to	BC - From	20 PLF at 0.00 to	BC - From	20 PLF at 4.02
TC -	11 LB Conc. Load at 1.21	TC -	11 LB Conc. Load at 1.21	TC -	11 LB Conc. Load at 1.21
TC -	48 LB Conc. Load at 2.46	TC -	48 LB Conc. Load at 2.46	TC -	48 LB Conc. Load at 2.46
TC -	13 LB Conc. Load at 2.58	TC -	13 LB Conc. Load at 2.58	TC -	13 LB Conc. Load at 2.58
TC -	81 LB Conc. Load at 3.87	TC -	81 LB Conc. Load at 3.87	TC -	81 LB Conc. Load at 3.87
BC -	14 LB Conc. Load at 2.46	BC -	14 LB Conc. Load at 2.46	BC -	14 LB Conc. Load at 2.46
BC -	35 LB Conc. Load at 2.58	BC -	35 LB Conc. Load at 2.58	BC -	35 LB Conc. Load at 2.58
BC -	28 LB Conc. Load at 3.87	BC -	28 LB Conc. Load at 3.87	BC -	28 LB Conc. Load at 3.87



$\overleftarrow{\hspace{1.5cm}} \quad \overrightarrow{\hspace{1.5cm}}$
 2-6-0
 $\overleftarrow{\hspace{1.5cm}} \quad \overrightarrow{\hspace{1.5cm}}$
 4-0-3 Over 3 Supports
 R=409 U=120 W=4.375"

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

PLT TYP. Wave

810 QTY:1 FL/-/5/-/-/R/-

Scale = .5"/Ft.

TC LL	20.0	PSF	REF R215-- 64410
TC DL	10.0	PSF	DATE 01/07/08
BC DL	10.0	PSF	DRW HCUR215 08007078
BC LL	0.0	PSF	HC-ENG WHK/WHK
TOT.LD.	40.0	PSF	SEON- 206894
DUR.FAC.	1.25		FROM CDM
SPACING	24.0"		JREF- 1TDY215_Z07



****WARNING**** THROSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THESE DEVICES ARE NOT TO BE USED FOR ANY PURPOSES OTHER THAN THE ONE SPECIFIED HEREIN. IF YOU DO NOT HAVE THE NECESSARY SKILLS, TRAINING OR EQUIPMENT TO SAFELY USE THIS PRODUCT, PLEASE CONTACT A PROFESSIONAL ENGINEER OR STRUCTURAL SPECIALIST. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE.

FOR MORE INFORMATION, PUBLISHED BY THE CROSS PLATE INSTITUTE, 210 NORTH LA STREET, SUITE 100, CHICAGO, ILLINOIS 60607-1898.
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WWW.CROSSPLATE.COM E-MAIL: INFO@CROSSPLATE.COM

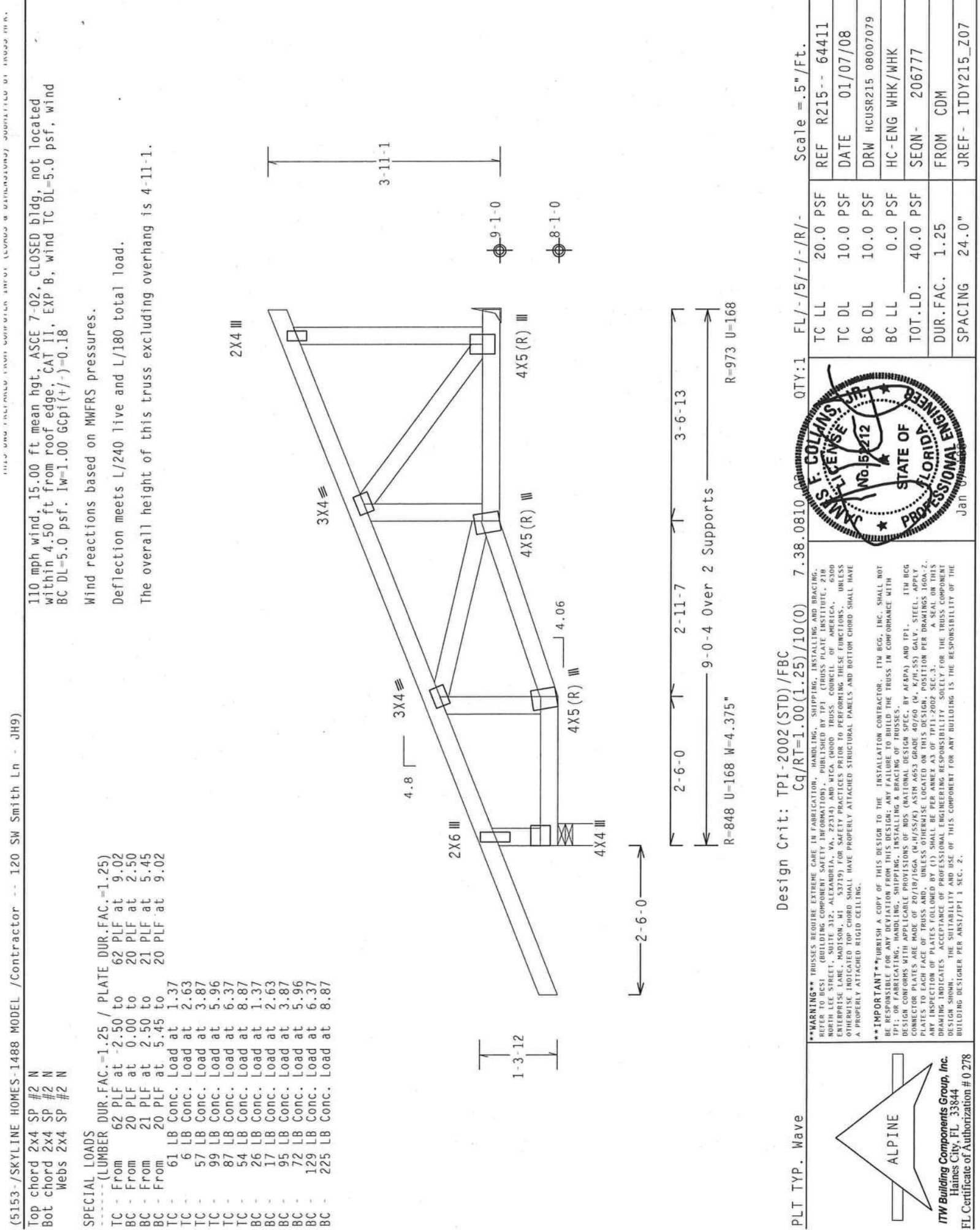
EMPHILISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID BEAMING.

*****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 TROUSS IN COMPLIANCE WITH THIS TYPE OR FABRICATING, SHIPPING, INSTALLING & BRACING OF TROUSSES. ITW BCG, INC. HAS REVIEWED THE NATIONAL DESIGN SPEC. BY AFIPRO AND TPI. ITW BCG, INC. HAS REVIEWED THE NATIONAL SPECIFICATIONS OF KANSAS STEEL. KANSAS STEEL HAS REVIEWED THE TROUSS CONNECTOR PLATES. THE MADE FOR TROUSS LOCATED AT THE POSITION PER DRAWINGS 160A-2 PLATES TO EACH FACE OF TROUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ABEX 4.3 OF TPI-2002 SEC.3. A SEAL OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TROUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ABNT/TPI 1 SEC. 2.



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

FL Certificate of Authorization # 0 278



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

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

GABLE END SUPPORTS LOAD FROM 4' 0"

OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

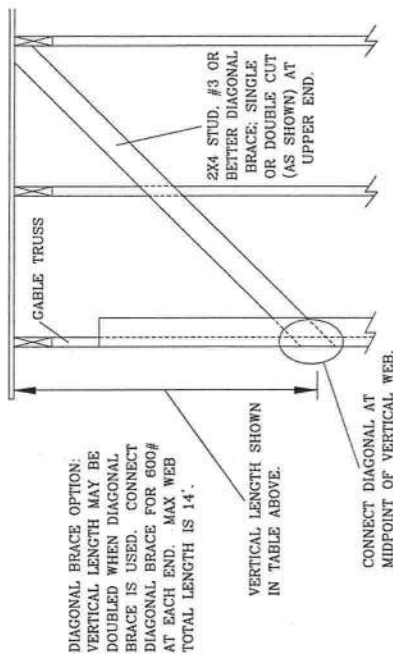
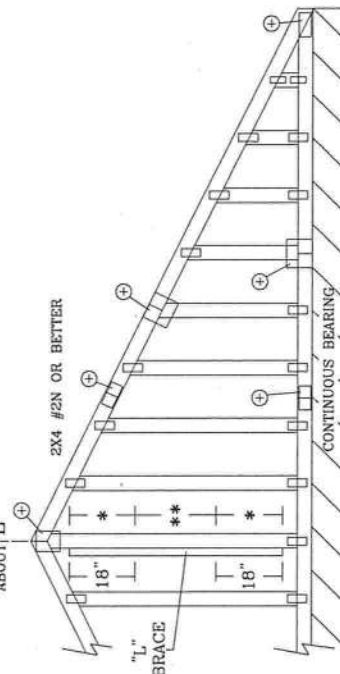
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

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

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

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

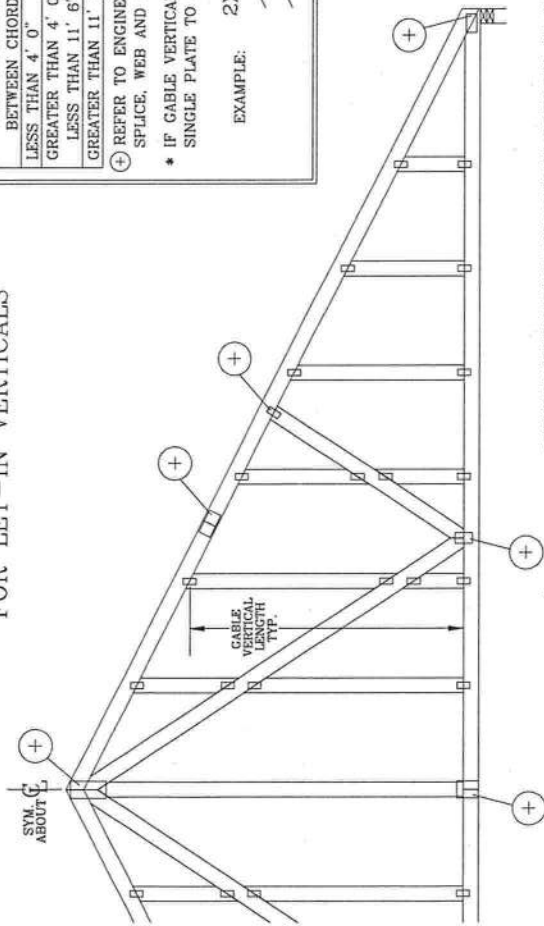
+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH

WARNING	TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY MANUALS FOR TRUSS DESIGN PRACTICES AMERICA, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, VI 53719) FOR SAFETY PRACTICES PRIOR TO BUILDING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A TOPPLY ATTACHED RIGID CEILING.
IMPORTANT	FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR ITV, BCG, INC. SMALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN OR FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPPI. ITV, BCG CONNECTION PLATES ARE MADE OF 20/18/16GA CW/H/SX/AO ASTM A653 GRADE 40/460 CW/K/P/LD/GH/D3. SHEETING PER BRASS IS USED ON ALL EXPOSED FACE OF TRUSS AND UNLESS OTHERWISE LOCATED DN THIS DESIGN, CONNECTION PER BRASS IS USED ON ALL EXPOSED FACE OF TRUSS. SEE DRAWING REVISION PAGE ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES AUTHORITY 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 BUILDING COMPONENTS GROUP, INC. POMPANOA BEACH, FLORIDA	
REF	ASCE7-02-CABI1015
DATE	2/23/07
DRWG	A11015EEE0207
-ENG	
MAX. TOT. LD. 60 PSF	
MAX. SPACING 24'-0"	

GABLE DETAIL FOR LET-IN VERTICALS

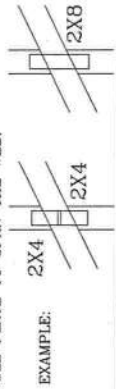


GABLE VERTICAL PLATE SIZES

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

* REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPICE, WEB AND HEEL PLATES.

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



EXAMPLE:

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH

HAND DRIVEN NAILS:

- 10d COMMON (0.148" X 3" MIN) TOENAILS AT 4" O.C. PLUS
- (4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:

- 8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS
- (4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL DRAWINGS

- A11015EN0207, A10015EN0207, A09015EN0207, A08015EN0207, A07015EN0207, A11030EN0207, A10030EN0207, A09030EN0207, A08030EN0207, A07030EN0207

ASCE 7-98 GABLE DETAIL DRAWINGS

- A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A08015EC0207, A13030EC0207, A12030EC0207, A11030EC0207, A10030EC0207, A08030EC0207

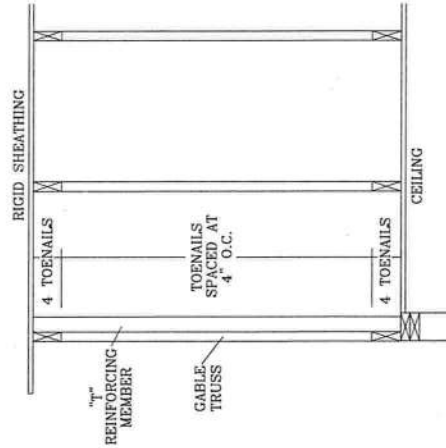
ASCE 7-02 GABLE DETAIL DRAWINGS

- A13015EE0207, A12015EE0207, A11015EE0207, A10015EE0207, A08015EE0207, A13030EE0207, A12030EE0207, A11030EE0207, A10030EE0207, A08030EE0207

ASCE 7-05 GABLE DETAIL DRAWINGS

- A13015E50207, A12015E50207, A11015E50207, A10015E50207, A08015E50207, A13030E50207, A12030E50207, A11030E50207, A10030E50207, A08030E50207

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



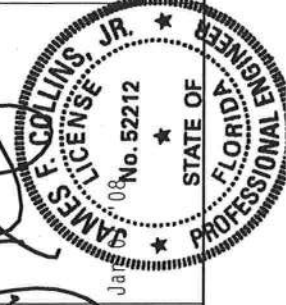
ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY) INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22304 AND WTC (WOOD TRUSS COUNCIL) IN AMERICA, 6380 ENTERPRISE LN., MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL TOP CHORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORDS SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO 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 NIS (NATIONAL DESIGN SPEC, BY AF&P) AND THE ITW, BCG CONNECTOR PLATES ARE MADE OF 2018/7664 (A) H/SX (A) ASTM A653 GRADE 40/60 (A) H/SX. STEEL APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, TOP PLATES SHALL BE FULLY WELDED TO THE TRUSS CHORDS. ALL TRUSSES SHALL BE 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.

THIS DRAWING REPLACES DRAWINGS GAB98117 876.719 & HC26294035

REF	LET-IN VERT
DATE	2/23/07
DRWG	GBLETTIN0207
-ENG	DLJ/KAR
MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"



WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2X4	10 %	10 %
15 FT	2X6	40 %	50 %
110 MPH	2X4	10 %	10 %
30 FT	2X6	50 %	50 %
100 MPH	2X4	10 %	10 %
15 FT	2X6	30 %	50 %
100 MPH	2X4	10 %	10 %
30 FT	2X6	40 %	40 %
90 MPH	2X4	20 %	10 %
15 FT	2X6	20 %	40 %
90 MPH	2X4	10 %	10 %
30 FT	2X6	30 %	50 %
80 MPH	2X4	10 %	20 %
15 FT	2X6	10 %	30 %
80 MPH	2X4	20 %	10 %
30 FT	2X6	20 %	40 %
70 MPH	2X4	0 %	20 %
15 FT	2X6	0 %	20 %
70 MPH	2X4	10 %	20 %
30 FT	2X6	10 %	30 %

EXAMPLE:

ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C. SP #3

"T" REINFORCING MEMBER SIZE = 2X4

"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10

(1) 2X4 "T" BRACE LENGTH = 6' 7"

MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"

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

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

WEB LENGTH INCREASE W/ "T" BRACE

2X6 "T" REINFORCING MEMBER

2X4 "T" REINFORCING MEMBER

TOENAIL

TOENAIL

BEARING BLOCK NAIL SPACING DETAIL

MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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

MINIMUM NAIL SPACING DISTANCES

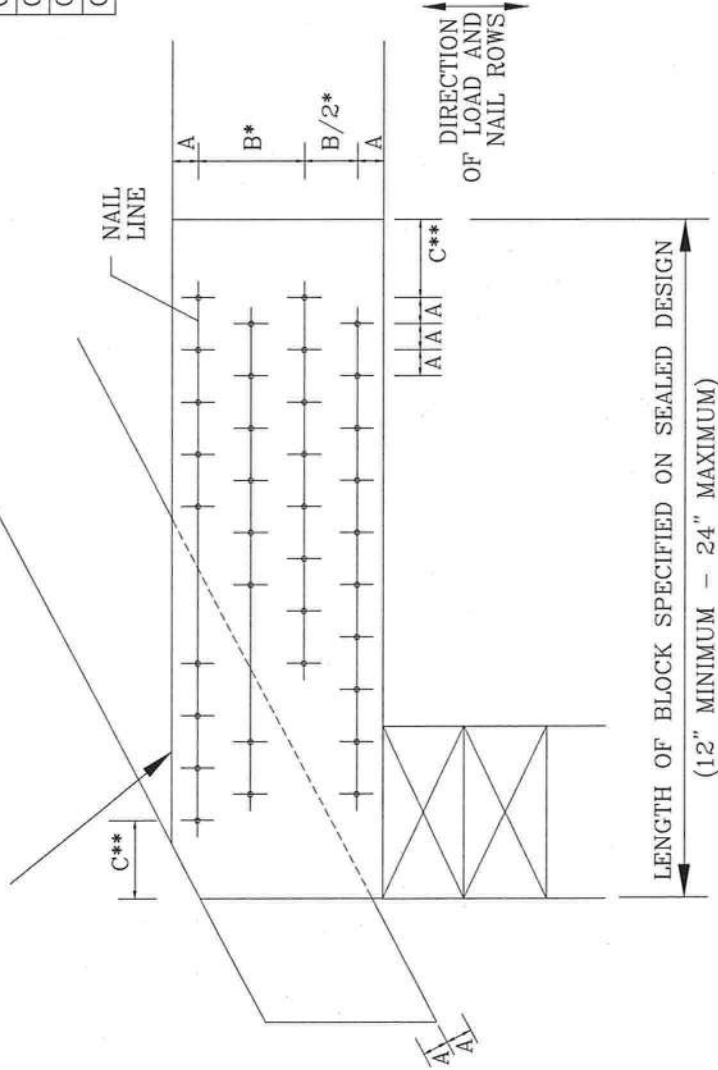
NAIL TYPE	DISTANCES		
	A	B*	C**
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"
10d BOX (0.128"X 3",MIN)	7/8"	1 5/8"	2"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"
20d BOX (0.148"X 4",MIN)	1"	1 7/8"	2 1/4"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"
10d COMMON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

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

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

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

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



THIS DRAWING REPLACES DRAWING B139 AND CNBRGLK0899



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

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

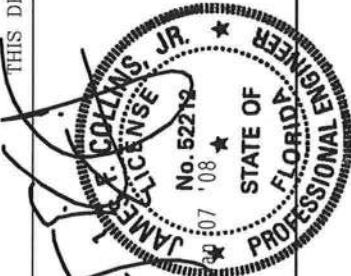
****IMPORTANT**** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW, BCG CONNECTION PLATES ARE MADE OF 2018/16GA (W/H/SS/KO ASTM A653 GRADE 40/60 C/K/H/KS) STEEL. STUD BOLTS ARE TO BE FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED IN THIS DESIGN, SHALL BE 1/2" DIA. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS ARE IN INCHES. PER ANEX 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.

REF B139 BEARING BLOCK

DATE 2/23/07

DRWG CNBRGLK0207

-ENG SJP/KAR



JAMES E. COLLINS, JR.
No. 52212
'08
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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 DESIGN 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.

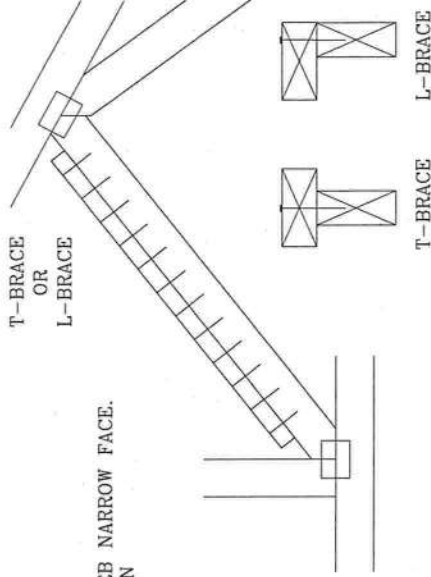
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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.

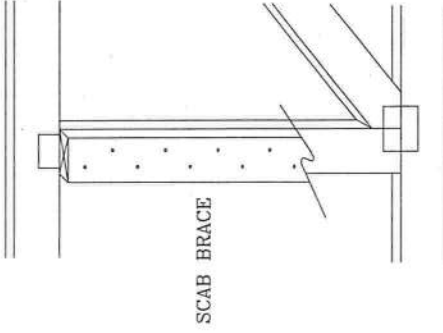
T-BRACING
OR
L-BRACING:

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

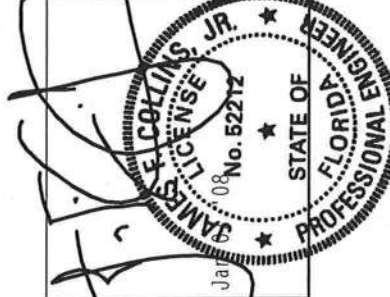
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TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	2/23/07
BC DL	PSF	DRWG	BRCLBSUB0207
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			



ITV BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA



Residential System Sizing Calculation

Summary

Spec House

Project Title:
Skyline Homes - Burley Road Spec

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

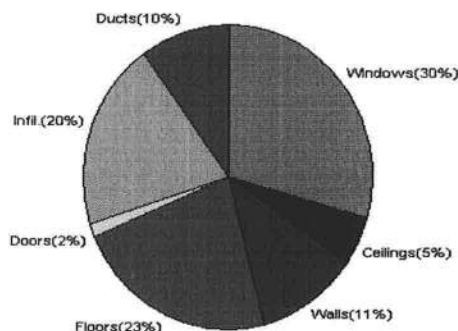
12/31/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	33883	Btuh	Total cooling load calculation	42814	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	118.1	40000	Sensible (SHR = 0.75)	83.5	30000
Heat Pump + Auxiliary(0.0kW)	118.1	40000	Latent	145.0	10000
			Total (Electric Heat Pump)	93.4	40000

WINTER CALCULATIONS

Winter Heating Load (for 1536 sqft)

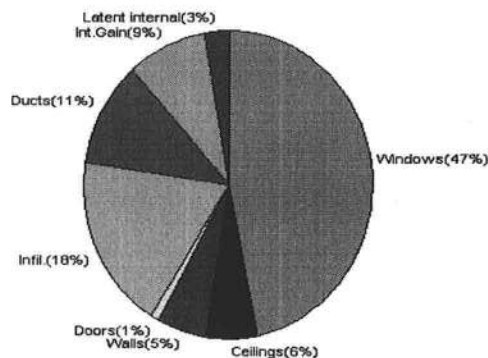
Load component		Load	
Window total	213 sqft	9999	Btuh
Wall total	1156 sqft	3797	Btuh
Door total	40 sqft	518	Btuh
Ceiling total	1536 sqft	1810	Btuh
Floor total	176 sqft	7684	Btuh
Infiltration	164 cfm	6637	Btuh
Duct loss		3438	Btuh
Subtotal		33883	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		33883	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1536 sqft)

Load component		Load	
Window total	213 sqft	19920	Btuh
Wall total	1156 sqft	2326	Btuh
Door total	40 sqft	392	Btuh
Ceiling total	1536 sqft	2544	Btuh
Floor total		0	Btuh
Infiltration	143 cfm	2668	Btuh
Internal gain		3780	Btuh
Duct gain		4288	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		35918	Btuh
Latent gain(ducts)		457	Btuh
Latent gain(infiltration)		5239	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		6896	Btuh
TOTAL HEAT GAIN		42814	Btuh



Version 8
For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

12.31.07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Project Title:
Skyline Homes - Burley Road Spec

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

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

12/31/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	1, Clear, Metal, 1.27	W	75.0		47.0	3524 Btuh
2	1, Clear, Metal, 1.27	W	40.0		47.0	1880 Btuh
3	1, Clear, Metal, 1.27	W	3.0		47.0	141 Btuh
4	1, Clear, Metal, 1.27	N	15.0		47.0	705 Btuh
5	1, Clear, Metal, 1.27	E	18.0		47.0	846 Btuh
6	1, Clear, Metal, 1.27	E	13.3		47.0	625 Btuh
7	1, Clear, Metal, 1.27	E	12.5		47.0	587 Btuh
8	1, Clear, Metal, 1.27	E	16.0		47.0	752 Btuh
9	1, Clear, Metal, 1.27	S	20.0		47.0	940 Btuh
Window Total			213(sqft)			9999 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1008		3.3	3311 Btuh
2	Frame - Wood - Adj(0.09)	13.0	148		3.3	486 Btuh
Wall Total			1156			3797 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Adjacent		20		12.9	259 Btuh
Door Total			40			518Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1536		1.2	1810 Btuh
Ceiling Total			1536			1810Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	176.0 ft(p)		43.7	7684 Btuh
Floor Total			176			7684 Btuh
Envelope Subtotal:						23809 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=	Load
	Natural	0.80	12288	1156	163.8	6637 Btuh
Ductload	(DLM of 0.113)					3438 Btuh
All Zones	Sensible Subtotal All Zones					33883 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:

Code Only

Lake City, FL 32025-

Skyline Homes - Burley Road Spec

Professional Version

Climate: North

12/31/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	33883 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	33883 Btuh

EQUIPMENT

1. Electric Heat Pump	#	40000 Btuh
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Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
 (Frame types - metal, wood or insulated metal)
 (U - Window U-Factor or 'DEF' for default)
 (HTM - ManualJ Heat Transfer Multiplier)
 Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



Version 8
For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Spec House

Project Title:

Code Only

Lake City, FL 32025-

Skyline Homes - Burley Road Spec

Professional Version

Climate: North

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

12/31/2007

Component Loads for Zone #1: Main					
Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	75.0	47.0	3524 Btuh
2	1, Clear, Metal, 1.27	W	40.0	47.0	1880 Btuh
3	1, Clear, Metal, 1.27	W	3.0	47.0	141 Btuh
4	1, Clear, Metal, 1.27	N	15.0	47.0	705 Btuh
5	1, Clear, Metal, 1.27	E	18.0	47.0	846 Btuh
6	1, Clear, Metal, 1.27	E	13.3	47.0	625 Btuh
7	1, Clear, Metal, 1.27	E	12.5	47.0	587 Btuh
8	1, Clear, Metal, 1.27	E	16.0	47.0	752 Btuh
9	1, Clear, Metal, 1.27	S	20.0	47.0	940 Btuh
	Window Total		213(sqft)		9999 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1008	3.3	3311 Btuh
2	Frame - Wood - Adj(0.09)	13.0	148	3.3	486 Btuh
	Wall Total		1156		3797 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
	Door Total		40		518 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1536	1.2	1810 Btuh
	Ceiling Total		1536		1810 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	176.0 ft(p)	43.7	7684 Btuh
	Floor Total		176		7684 Btuh
	Zone Envelope Subtotal:				23809 Btuh
Infiltration	Type	ACH X	Volume(cuft) walls(sqft)	CFM=	Load
	Natural	0.80	12288 1156	163.8	6637 Btuh
Ductload	Pro. leak free, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.113)				3438 Btuh
Zone #1	Sensible Zone Subtotal				33883 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:

Code Only

Lake City, FL 32025-

Skyline Homes - Burley Road Spec

Professional Version

Climate: North

12/31/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	33883 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	33883 Btuh

EQUIPMENT

1. Electric Heat Pump	#	40000 Btuh
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Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
 (Frame types - metal, wood or insulated metal)
 (U - Window U-Factor or 'DEF' for default)
 (HTM - ManualJ Heat Transfer Multiplier)
 Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House

Project Title:
Skyline Homes - Burley Road Spec

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

12/31/2007

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	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	75.0	0.0	75.0	37	94	7053	Btuh	
2	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	40.0	0.0	40.0	37	94	3762	Btuh	
3	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	3.0	0.0	3.0	37	94	282	Btuh	
4	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	15.0	0.0	15.0	37	37	562	Btuh	
5	1, Clear, 1.27, None,N,N	E	7.5ft	8ft.	18.0	7.3	10.7	37	94	1277	Btuh	
6	1, Clear, 1.27, None,N,N	E	7.5ft	8ft.	13.3	9.8	3.5	37	94	699	Btuh	
7	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	12.5	0.0	12.5	37	94	1176	Btuh	
8	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	16.0	0.0	16.0	37	94	1505	Btuh	
9	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	20.0	20.0	0.0	37	43	749	Btuh	
	Excursion									2856	Btuh	
	Window Total				213 (sqft)					19920 Btuh		
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext		13.0/0.09		1008.2			2.1		2103 Btuh		
2	Frame - Wood - Adj		13.0/0.09		148.0			1.5		223 Btuh		
	Wall Total				1156 (sqft)					2326 Btuh		
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Exterior				20.0			9.8		196 Btuh		
2	Insulated - Adjacent				20.0			9.8		196 Btuh		
	Door Total				40 (sqft)					392 Btuh		
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle		30.0		1536.0			1.7		2544 Btuh		
	Ceiling Total				1536 (sqft)					2544 Btuh		
Floors	Type		R-Value		Size			HTM		Load		
1	Slab On Grade		0.0		176 (ft(p))			0.0		0 Btuh		
	Floor Total				176.0 (sqft)					0 Btuh		
			Envelope Subtotal:								25182 Btuh	
Infiltration	Type		ACH		Volume(cuft)		wall area(sqft)		CFM=	Load		
	SensibleNatural		0.70		12288		1156		163.8	2668 Btuh		
Internal gain			Occupants		Btuh/occupant		Appliance			Load		
			6		X 230		+		2400	3780 Btuh		
			Sensible Envelope Load:								31630 Btuh	
Duct load			(DGM of 0.136)								4288 Btuh	
			Sensible Load All Zones								35918 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Skyline Homes - Burley Road Spec

Code Only
Professional Version
Climate: North

12/31/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	31630 Btuh
	Sensible Duct Load	4288 Btuh
	Total Sensible Zone Loads	35918 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	35918 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	5239 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	457 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6896 Btuh
	TOTAL GAIN	42814 Btuh

EQUIPMENT

1. Central Unit	#	40000 Btuh
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*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House

Project Title:

Code Only

Lake City, FL 32025-

Skyline Homes - Burley Road Spec

Professional Version

Climate: North

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

12/31/2007

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	75.0	0.0	75.0	37	94	7053	Btuh
2	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	40.0	0.0	40.0	37	94	3762	Btuh
3	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	3.0	0.0	3.0	37	94	282	Btuh
4	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	15.0	0.0	15.0	37	37	562	Btuh
5	1, Clear, 1.27, None,N,N	E	7.5ft	8ft.	18.0	7.3	10.7	37	94	1277	Btuh
6	1, Clear, 1.27, None,N,N	E	7.5ft	8ft.	13.3	9.8	3.5	37	94	699	Btuh
7	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	12.5	0.0	12.5	37	94	1176	Btuh
8	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	16.0	0.0	16.0	37	94	1505	Btuh
9	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	20.0	20.0	0.0	37	43	749	Btuh
Window Total					213 (sqft)					17064 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1008.2			2.1		2103 Btuh	
2	Frame - Wood - Adj	13.0/0.09			148.0			1.5		223 Btuh	
Wall Total					1156 (sqft)					2326 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				20.0			9.8		196 Btuh	
2	Insulated - Adjacent				20.0			9.8		196 Btuh	
Door Total					40 (sqft)					392 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1536.0			1.7		2544 Btuh	
Ceiling Total					1536 (sqft)					2544 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			176 (ft(p))			0.0		0 Btuh	
Floor Total					176.0 (sqft)					0 Btuh	
Zone Envelope Subtotal:										22326 Btuh	
Infiltration	Type	ACH			Volume(cuft) wall area(sqft)			CFM=		Load	
	SensibleNatural	0.70			12288 1156			143.4		2668 Btuh	
Internal gain		Occupants			Btuh/occupant			Appliance		Load	
		6			X 230 +			2400		3780 Btuh	
Sensible Envelope Load:										28774 Btuh	
Duct load	Prop. leak free, Supply(R6.0-Attic), Return(R6.0-Attic)							(DGM of 0.136)		3901 Btuh	
Sensible Zone Load										32675 Btuh	

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

Windows	July excursion for System 1	Excursion Subtotal:	2856 Btuh
			2856 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:

Code Only

Lake City, FL 32025-

Skyline Homes - Burley Road Spec

Professional Version
Climate: North

12/31/2007

Duct load		387 Btuh
	Sensible Excursion Load	3243 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Skyline Homes - Burley Road Spec

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

12/31/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	31630 Btuh
	Sensible Duct Load	4288 Btuh
	Total Sensible Zone Loads	35918 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	35918 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	5239 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	457 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6896 Btuh
	TOTAL GAIN	42814 Btuh

EQUIPMENT

1. Central Unit	#	40000 Btuh
-----------------	---	------------

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Spec House

Project Title:
Skyline Homes - Burley Road Spec

Lake City, FL 32025-

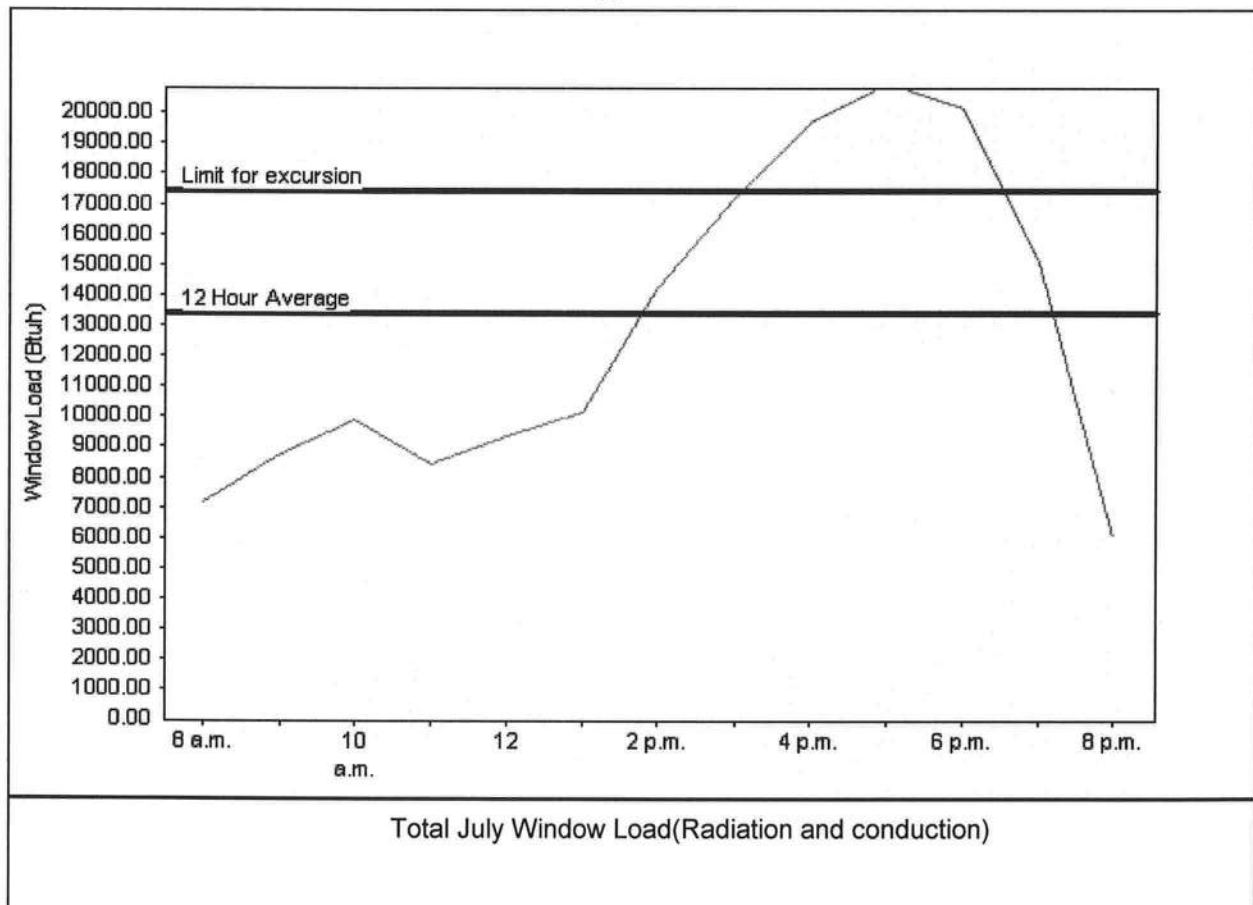
Code Only
Professional Version
Climate: North

12/31/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	13428 Btu
Summer setpoint	75 F	Peak window load for July	20965 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	17456 Btu
Latitude	29 North	Window excursion (July)	3509 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: _____

DATE: _____



FLORIDA DEPARTMENT OF Community Affairs



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[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

FL #

FL1956-R1

Application Type

Revision

Code Version

2004

Application Status

Approved

Comments

Archived

Product Manufacturer

TAMKO Building Products, Inc.

Address/Phone/Email

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(800) 641-4691 ext 2394
fred_oconnor@tamko.com

Authorized Signature

Frederick O'Connor
fred_oconnor@tamko.com

Technical Representative

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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

06/09/2005

Date Validated

06/20/2005

Date Pending FBC Approval

06/25/2005

Date Approved

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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[Next](#)

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(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.

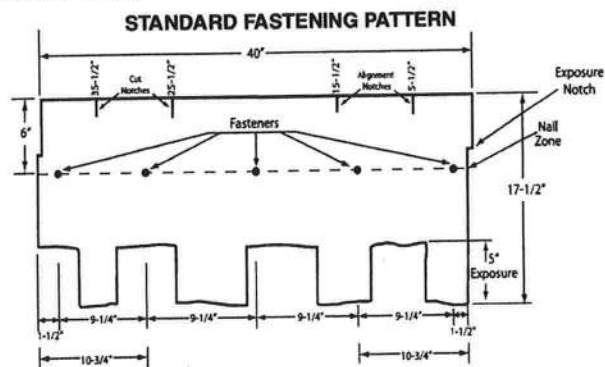
3. FASTENERS

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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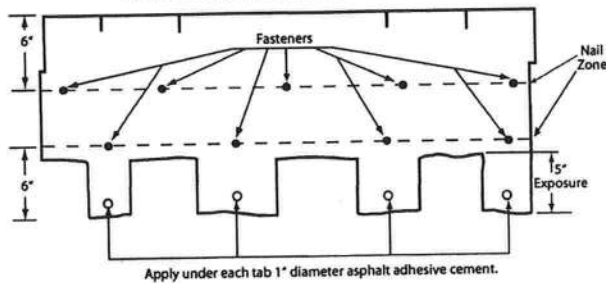


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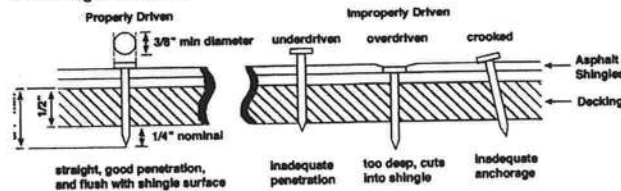
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS LAMINATED ASPHALT SHINGLES

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.

MANSARD FASTENING PATTERN



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 felt 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:

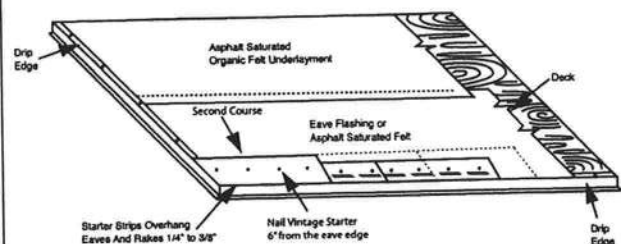
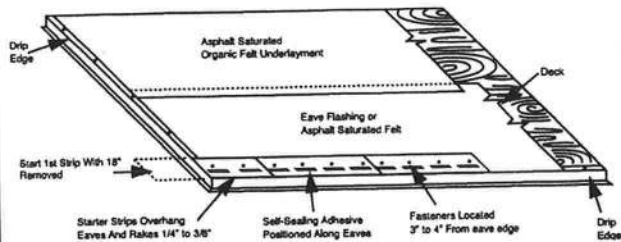
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation 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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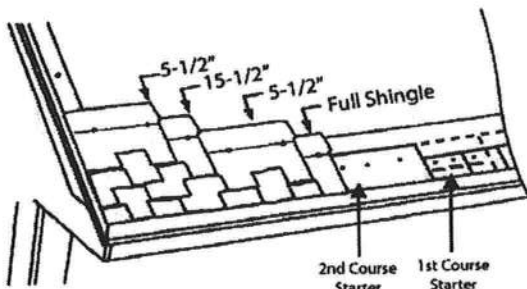
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(CONTINUED from Pg. 2)

• 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 at 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.

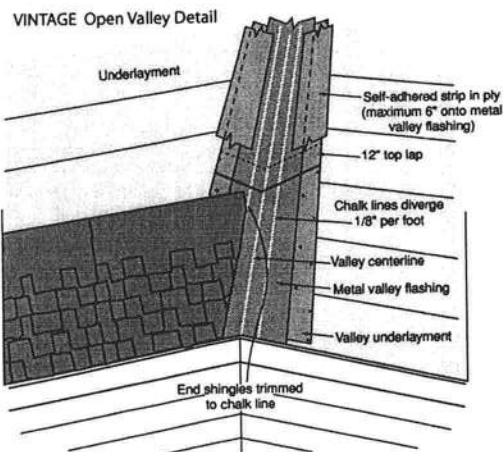
Following valley metal application; a 9" to 12" wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6" onto metal valley flashing) and on top of the valley underlayment. The valley will be completed 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).



• 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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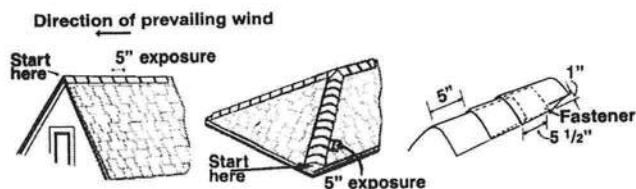
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS LAMINATED ASPHALT SHINGLES

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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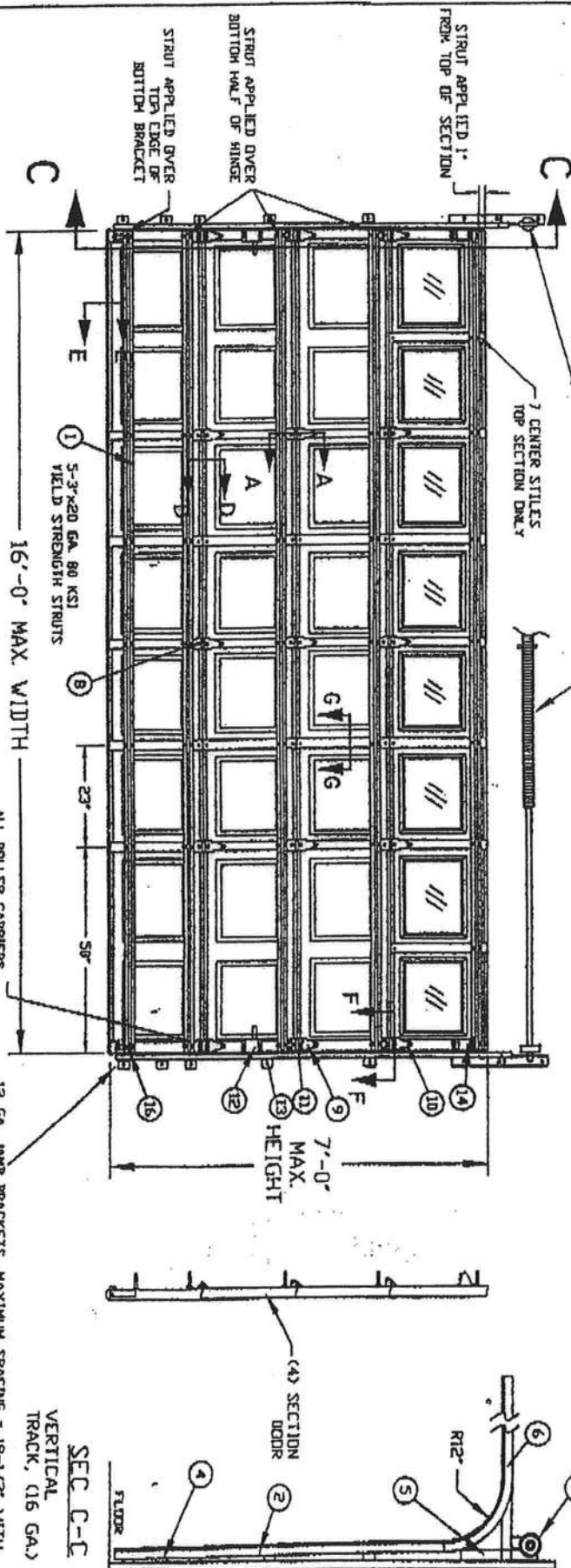
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NOTES:

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 21'0" AND 19'0" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION, AS TESTED WITH 1/8" BSF GLASS OR EQUIVALENT, OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER STEM IS 5 1/2' OR AS TESTED
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOW.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEX SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE Q.L. OR Q.S. AS TESTED.
9. DROP IN TYPE OF INSTALLATION IS OPTIONAL.

NOT PART OF WIND LOAD SYSTEM
EXTENSION SPRING COUNTERBALANCE
TORSION SPRING COUNTERBALANCE



INSIDE ELEVATION

TEST REPORTS ON FILE VIDEO 10/19/00 (0002933)

DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

The seal on this drawing only certifies that the product(s) illustrated and described herein conform to the dimensions and configurations of the door as tested.



GALVALUME 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 ICFE STYLE SPACING	STRUTS 80 KSI SIZE	VERTICAL TRACK
16'	7'	23"	3"	5
				2 IN.

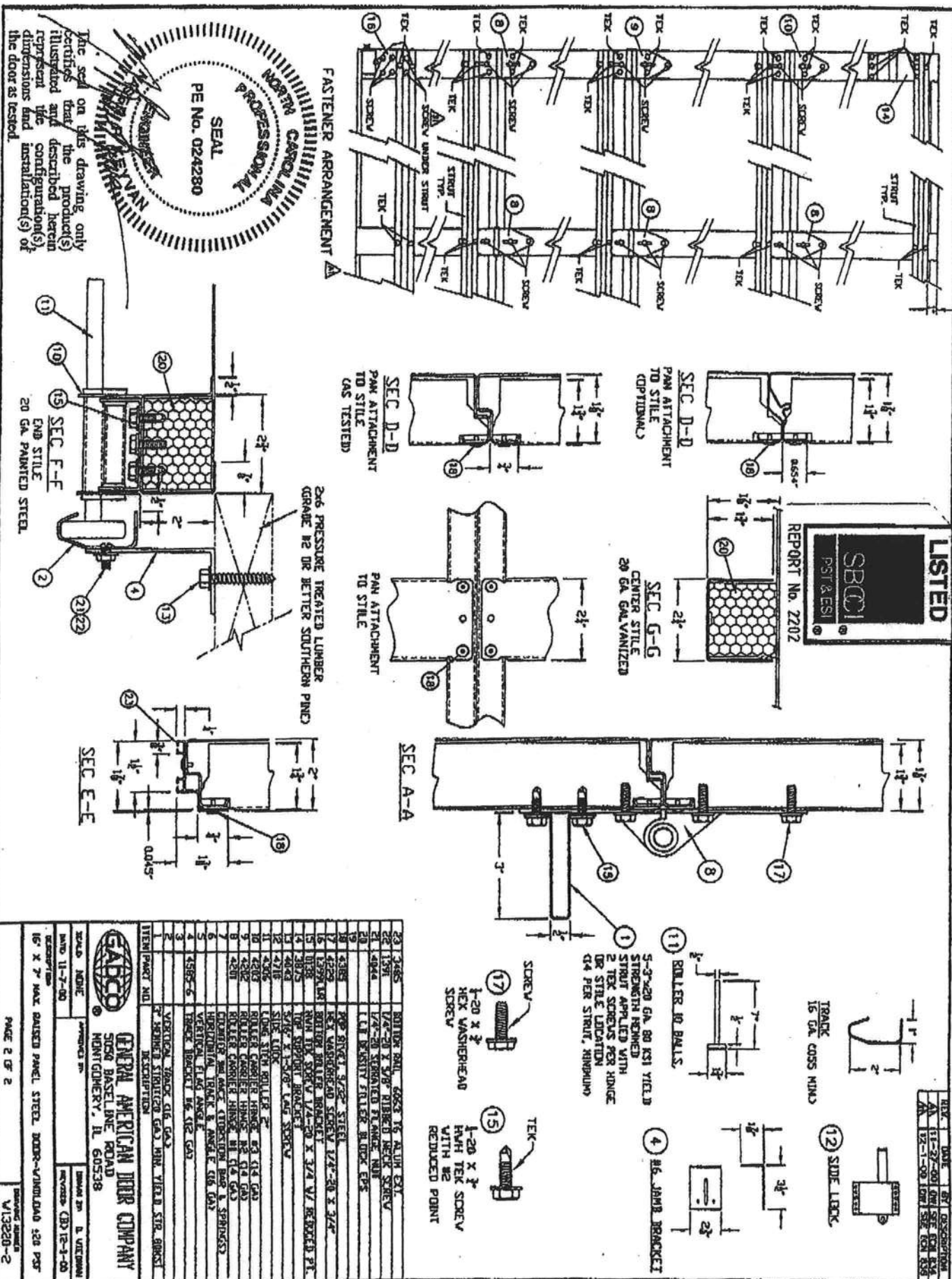


GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTICEMERY, IL 60538

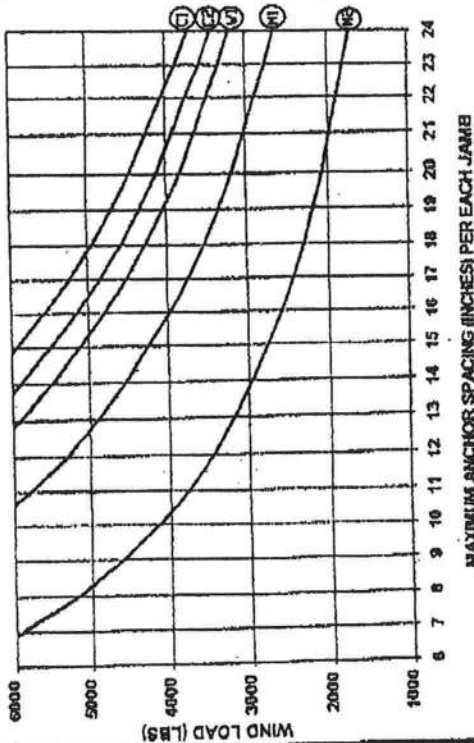
SCALE: 1/8" = 1'-0"
DATE: 10-20-00
APPROVED BY: [Signature]
REVISION: (A) 11-10-00

15' X 7' MAX. RAISED PANEL STEEL DOOR - WINDLOAD ±20 PSF
PAGE 1 OF 2
DRAWING NUMBER: W13220-1

REV.	DATE	BY	DESCRIPTION
A-1	11-10-00	DM	SEE E.C.M. 811



WIND LOAD vs ANCHOR SPACING



DESIGN (LBS) X GARAGE DOOR AREA (WIDTH-FT X HEIGHT-FT) = WIND LOAD (LBS)

EXAMPLE

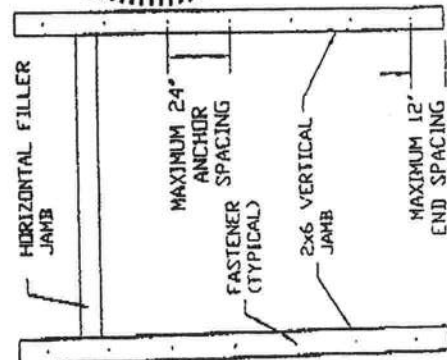
30 LBS X 0.6 FT WIDE X 8 FT HIGH = 3840 LBS

① USE 22" SPACING

② USE 21" SPACING

③ USE 19" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS



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 SPC1 "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 UNITS 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
5050 BASELINE ROAD
MONTGOMERY, IL 60538

WIND NINE	APPROVED BY:	DATE: 8-30-99	REVISIONS:
JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS		DRAWING NUMBER: A10560	



3/8/2002

FLORIDA DEPARTMENT OF Community Affairs



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

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FL #
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 Comments
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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

U)indow

A.L.I.

(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/NWMOA 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	185/318S SH (Fin) (AL)(O/P)(OG) (ASTM)	FRAME 3'0" x 5'2"	SASH 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.: 01-50360.02

Date of Report: June 14, 2004

NOTE: PLEASE REVIEW,
AND ADVISE ALI IMMEDIATELY
IF DATA, AS SHOWN, NEEDS
CORRECTION.

Date: August 1, 2005

cc: AAMA
JGS/df
ACP-04 (Rev. 5/03)

Validated for Certification:

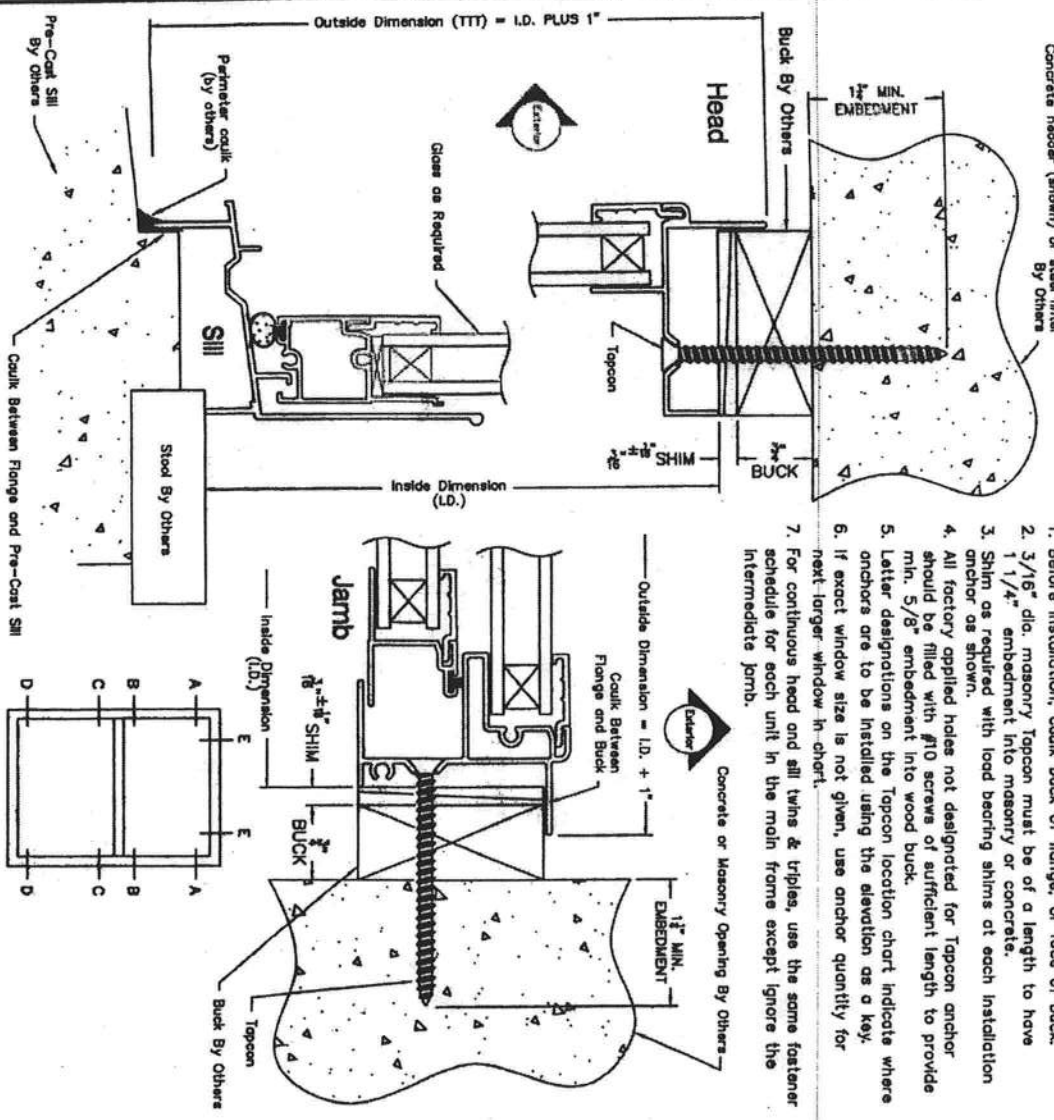
Associated Laboratories, Inc.

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 Tapcon 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 Tapcon anchor should be filled with #10 screws of sufficient length to provide min. 5/8" embedment into wood buck.
5. Letter designations on the Tapcon 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 SIZE	WINDOW ID SIZE	FASTENER LOCATIONS			
		UP TO DP35	DP35.1 TO DP55	DP55.1 TO DP69.3	
12	18 1/8 x 25	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	
14	18 1/8 x 49 5/8	A D & E	A D & E	A D & E	
15	18 1/8 x 62	A D & E	A D & E	A D & E	
16	18 1/8 x 71	A D & E	A D & E	A D & E	
17	18 1/8 x 83	A D & E	A D & E	A D & E	
1/2 32	25 1/2 x 25	A D & E	A D & E	A D & E	
1/2 33	25 1/2 x 37 3/8	A D & E	A D & E	A D & E	
1/2 34	25 1/2 x 49 5/8	A D & E	A D & E	A D & E	
1/2 35	25 1/2 x 62	A D & E	A D & E	A D & E	
1/2 36	25 1/2 x 71	A D & E	A D & E	A D & E	
1/2 37	25 1/2 x 83	A D & E	A D & E	A D & E	
22	36 x 25	A D & E	A D & E	A D & E	
23	36 x 37 3/8	A D & E	A D & E	A D & E	
24	36 x 49 5/8	A D & E	A D & E	A D & E	
25	36 x 62	A D & E	A D & E	A D & E	
26	36 x 71	A D & E	A D & E	A D & E	
27	36 x 83	A D & E	A D & E	A D & E	
32	52 1/8 x 25	A D & E	A D & E	A D & E	
33	52 1/8 x 37 3/8	A D & E	A D & E	A D & E	
34	52 1/8 x 49 5/8	A D & E	A D & E	A D & E	
35	52 1/8 x 62	A D & E	A D & E	A D & E	
36	52 1/8 x 71	A D & E	A D & E	A D & E	
37	52 1/8 x 83	A D & E	A D & E	A D & E	
2040	23 3/8 x 47 5/8	A D & E	A D & E	A D & E	
2050	23 3/8 x 59 5/8	A D & E	A D & E	A D & E	
2060	23 3/8 x 71 5/8	A D & E	A D & E	A D & E	
2070	23 3/8 x 83 5/8	A D & E	A D & E	A D & E	
3040	35 3/8 x 47 5/8	A D & E	A D & E	A D & E	
3050	35 3/8 x 59 5/8	A D & E	A D & E	A D & E	
3060	35 3/8 x 71 5/8	A D & E	A D & E	A D & E	
3070	35 3/8 x 83 5/8	A D & E	A D & E	A D & E	
4040	47 3/8 x 47 5/8	A D & E	A D & E	A D & E	
4050	47 3/8 x 59 5/8	A D & E	A D & E	A D & E	
4060	47 3/8 x 71 5/8	A D & E	A D & E	A D & E	
4070	47 3/8 x 83 5/8	A D & E	A D & E	A D & E	
4450	51 3/8 x 59 5/8	A D & E	A D & E	A D & E	
4460	51 3/8 x 71 5/8	A D & E	A D & E	A D & E	
4470	51 3/8 x 83 5/8	A D & E	A D & E	A D & E	

*TAPCON® TYPE HARDENED MASONRY SCREENS INCLUDE TAPCON, RAM, & SIMPSON

A	REMOVED SILL INSTALLATION AND/OR SCREENS	7/14/04	BY
BY	REVISION	DATE	BY

MI HOME PRODUCTS
GRATZ, PA

185/3185 SINGLE HUNG FLANGE FRAME
INSTALLATION DETAILS & FASTENER SCHEDULE

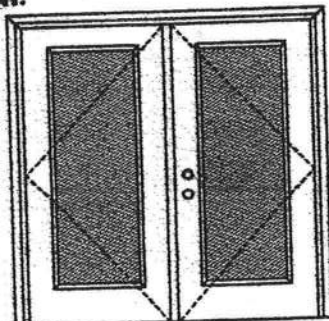
DATE: 06/15/04
BY: A.T.S.
REV: 1 OF 1

Phone: 482.232.5334 Fax: 482.232.4338

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*



129 Series*



200 Series*



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



107 Series*



108 Series



304 Series

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

Johnson
EntrySystems

March 29, 2002

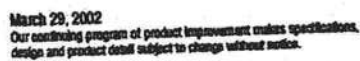
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 Premium Quality Doors


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**GLASS INSERT IN DOOR
OR SIDELITE PANEL**



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XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES: 3/4 GLASS:



404 Series

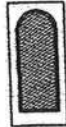


418 Series

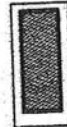


450 Series

FULL GLASS:



109 Series



114, 120, 122
Series



152 Series



149 Series



300 Series

CERTIFIED TEST REPORTS:

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

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

Kurt L Balthaz

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

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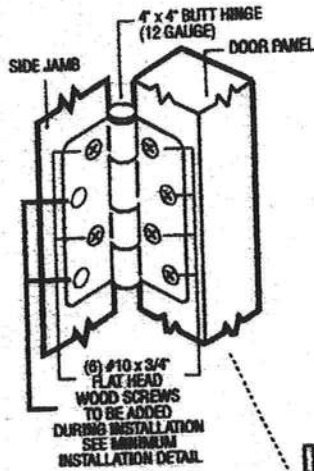
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XX
Unit

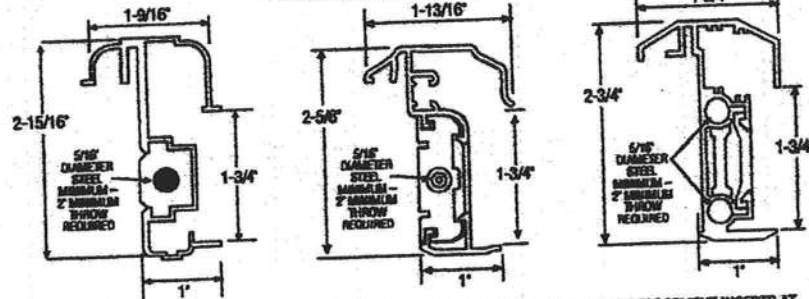
MAD-WL-MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR

TYPICAL HINGE ATTACHMENT



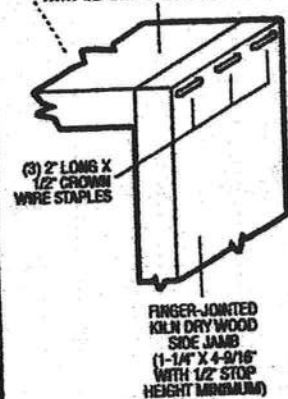
TYPICAL ASTRAGAL PROFILES



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.

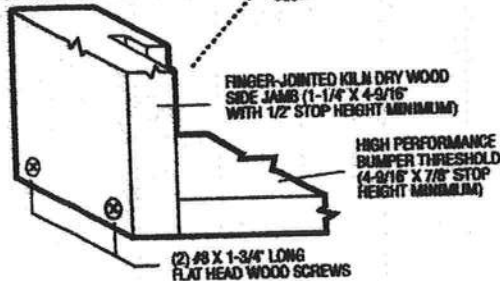
TYPICAL HEADER & SIDE JAMB ATTACHMENT

FINGER-JOINTED KILN DRY WOOD FRAME HEADER (1-1/4" X 4-9/16" WITH 1/2" STOP HEIGHT MINIMUM)



(3) FOR 7'0" HEIGHT OR SMALLER
(4) FOR HEIGHTS GREATER THAN 7'0"

TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



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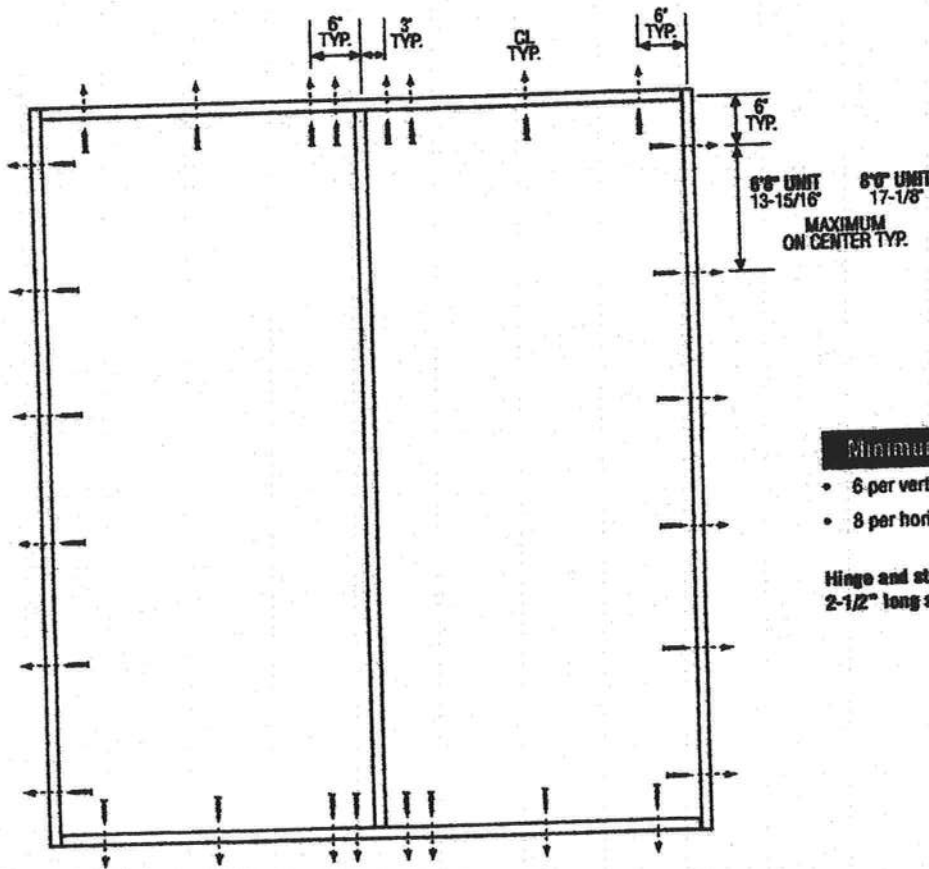
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XX
Unit

MID-WL-MA0002-02

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.

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