DATE 02/28/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000025574

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER JOSH SPARKS PHONE 623-0573

ADDRESS 165 SW MORNING GLORY DR LAKE CITY FL 32024

CONTRACTOR SPARKS CONTRACTORS PHONE 623-0575

LOCATION OF PROPERTY 90W, TL ON 341, TR ON HOPE HENRY, TR ON MORNING GLORY DR
3RD LOT ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 114750.00

HEATED FLOOR AREA 2295.00 TOTAL AREA 3073.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 26

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

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

PARCEL ID 15-4S-16-03023-503 SUBDIVISION ROLLING MEADOWS

LOT 3 BLOCK PHASE UNIT TOTAL ACRES

000001338			
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
CULVERT	07-0066-N	BK	JH	Y
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: PLAT REQUIRES 1ST FLOOR TO BE AT 102.0 FT, ELEVATION CONFIRMATION
LETTER REQUIRED BEFORE POWER, NOC ON FILE

Check # or Cash 3440

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 $ 575.00 CERTIFICATION FEE $ 15.37 SURCHARGE FEE $ 15.37

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 705.74

INSPECTORS OFFICE CLERKS OFFICE CH

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0702-65 Date Received 2/23 By JW Permit # 13748/25574

Application Approved by - Zoning Official BLK Date 27.02.07 Plans Examiner OK JTH Date 2-27-07

Flood Zone X per plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res. Low Den

Comments Plat Requires 1st Floor to be at 102.0ft Elevation Confirmation Letter Required

Applicants Name Linda Roder Phone 752-2281

Address 387 SW Kemp Ct Lake City FL 32024

Owners Name Sparks Contractors Inc. Phone 623-0575

911 Address 165 SW Morning Glory Dr. Lake City FL 32024

Contractors Name Josh Sparks of Sparks Contractors Phone 623-0575

Address P.O. Box 1479 Lake City FL 32056

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Will Myers/ Mark Disosway

Mortgage Lenders Name & Address CCB

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

Property ID Number 15-4S-16-03023-503 Estimated Cost of Construction 160 K

Subdivision Name Rolling Meadows Lot 3 Block ____ Unit ____ Phase ____

Driving Directions 90 W. L at 341, Ron Hope Henry, Ron SW Morning Glory Dr, 3rd Lot down on L

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage ____ Lot Size .51ac Do you need a - (Culvert Permit) or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 48'-4" Side 22'-9" Side 24'-4" Rear 83'-2"

Total Building Height 26'-0" Number of Stories 1 Heated Floor Area 2295 (23'17") Roof Pitch 8-12

TOTAL 3073

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

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

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

Owner Builder or Agent (Including Contractor)

X Josh Sparks
Contractor Signature

Contractors License Number CBC 1252260

Competency Card Number ____

STATE OF FLORIDA
COUNTY OF COLUMBIA

Linda R. Roder
Commission #DD303225
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this ____ day of ____ 20____.

Personally known ____ or Produced Identification ____

Linda R. Roder
Notary Signature

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

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

SPECIAL WARRANTY DEED

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

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

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

PARCEL NO. Part of 15-4S-16-03023-005

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

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

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

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

Signed, sealed and delivered
in the presence of:

Print Name: William J. Harley

Print Name: Debbie G. Moore

Jerry Cook

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

Notary Public, State of Florida

Debbie G. Moore
Commission # DD400475
Expires March 16, 2009
Bonded Troy Fain - Insurance, Inc. 800-385-7019

@PFDesktop\::ODMA/WORLDOX/F:/WPDOCS/22032/00014/00151663.WPD

FORM 600A-2004 Tested sealed ducts must be certified in this house. EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Sparks Construction - Lot 3 Rolling Meadows**	Builder:	**Sparks Construction**
Address:	**Lot: 3, Sub: Rolling Meadows, Plat:**	Permitting Office:	Columbia
City, State:	**Lake City, FL 32025-**	Permit Number:	25574
Owner:	**Spec House**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New		
2. Single family or multi-family	Single family		
3. Number of units, if multi-family	1		
4. Number of Bedrooms	4		
5. Is this a worst case?	No		
6. Conditioned floor area (ft²)	2295 ft²		
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor: (or Single or Double DEFAULT)	7a. Description Area (Sngle Default) 379.8 ft²		
b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 379.8 ft²		
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 248.0(p) ft		
b. N/A			
c. N/A			
9. Wall types			
a. Frame, Wood, Exterior	R=13.0, 1496.2 ft²		
b. Frame, Wood, Adjacent	R=13.0, 190.0 ft²		
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic	R=30.0, 2400.0 ft²		
b. N/A			
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft		
b. N/A			
12. Cooling systems			
a. Central Unit	Cap: 56.0 kBtu/hr SEER: 12.00		
b. N/A			
c. N/A			
13. Heating systems			
a. Electric Heat Pump	Cap: 56.0 kBtu/hr HSPF: 6.80		
b. N/A			
c. N/A			
14. Hot water systems			
a. Electric Resistance	Cap: 50.0 gallons EF: 0.90		
b. N/A			
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)			
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT,		

Glass/Floor Area: 0.17

Total as-built points: 33303
Total base points: 33923

PASS

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

PREPARED BY: _____

DATE: 2-2-07

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

OWNER/AGENT: _____

DATE: 2-23-07

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: 3, Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	2295.0	20.04	8278.5	Single, Clear	W	1.5	8.0	75.0	43.84	0.96	3150.1
				Single, Clear	W	1.5	8.0	2.7	43.84	0.96	113.4
				Single, Clear	N	5.5	10.0	17.8	21.73	0.81	314.7
				Single, Clear	W	10.5	10.0	30.0	43.84	0.52	681.8
				Single, Clear	W	10.5	10.0	40.0	43.84	0.52	909.0
				Single, Clear	S	5.5	10.0	30.0	40.81	0.64	777.5
				Single, Clear	SW	1.5	8.0	10.0	45.75	0.95	432.6
				Single, Clear	NW	1.5	8.0	10.0	29.42	0.96	283.4
				Single, Clear	N	1.5	8.0	20.0	21.73	0.97	420.3
				Single, Clear	N	1.5	8.0	16.0	21.73	0.97	336.3
				Single, Clear	N	1.5	8.0	9.0	21.73	0.97	189.2
				Single, Clear	E	7.5	10.0	30.0	47.92	0.59	852.5
				Single, Clear	E	11.2	10.0	13.3	47.92	0.49	311.5
				Single, Clear	E	1.5	8.0	30.0	47.92	0.96	1376.6
				Single, Clear	S	1.5	8.0	10.0	40.81	0.92	376.8
				Single, Clear	E	1.5	8.0	6.0	47.92	0.96	275.3
				Single, Clear	S	1.5	8.0	30.0	40.81	0.92	1130.4
				As-Built Total:				**379.8**			**11931.1**

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	190.0	0.70	133.0	Frame, Wood, Exterior	13.0	1496.2	1.50	2244.3
Exterior	1496.2	1.70	2543.5	Frame, Wood, Adjacent	13.0	190.0	0.60	114.0
Base Total:	**1686.2**		**2676.5**	**As-Built Total:**		**1686.2**		**2358.3**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	18.0	1.60	28.8	Adjacent Insulated	18.0	1.60	28.8
Exterior	20.0	4.10	82.0	Exterior Insulated	20.0	4.10	82.0
Base Total:	**38.0**		**110.8**	**As-Built Total:**	**38.0**		**110.8**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	2295.0	1.73	3970.4	Under Attic	30.0	2400.0	1.73 X 1.00	4152.0
Base Total:	**2295.0**		**3970.4**	**As-Built Total:**		**2400.0**		**4152.0**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE					AS-BUILT					
FLOOR TYPES	Area X	BSPM	= Points		Type	R-Value	Area X	SPM	=	Points
Slab	248.0(p)	-37.0	-9176.0		Slab-On-Grade Edge Insulation	0.0	248.0(p	-41.20		-10217.6
Raised	0.0	0.00	0.0							
Base Total:			**-9176.0**		**As-Built Total:**		**248.0**			**-10217.6**
INFILTRATION	Area X	BSPM	= Points				Area X	SPM	=	Points
	2295.0	10.21	23431.9				2295.0	10.21		23431.9
Summer Base Points: 29292.2					**Summer As-Built Points:**					**31766.6**
Total Summer Points	X System Multiplier	=	Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
					(sys 1: Central Unit 56000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)					
					31767	1.00	(1.09 x 1.000 x 1.00)	0.284	0.950	9355.7
29292.2	**0.4266**		**12496.0**		**31766.6**	**1.00**	**1.090**	**0.284**	**0.950**	**9355.7**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	2295.0	12.74	5262.9	Single, Clear	W	1.5	8.0	75.0	28.84	1.01	2187.0	
				Single, Clear	W	1.5	8.0	2.7	28.84	1.01	78.7	
				Single, Clear	N	5.5	10.0	17.8	33.22	1.01	597.5	
				Single, Clear	W	10.5	10.0	30.0	28.84	1.17	1014.2	
				Single, Clear	W	10.5	10.0	40.0	28.84	1.17	1352.3	
				Single, Clear	S	5.5	10.0	30.0	20.24	1.77	1073.5	
				Single, Clear	SW	1.5	8.0	10.0	24.09	1.03	247.8	
				Single, Clear	NW	1.5	8.0	10.0	32.93	1.00	329.5	
				Single, Clear	N	1.5	8.0	20.0	33.22	1.00	665.0	
				Single, Clear	N	1.5	8.0	16.0	33.22	1.00	532.0	
				Single, Clear	N	1.5	8.0	9.0	33.22	1.00	299.2	
				Single, Clear	E	7.5	10.0	30.0	26.41	1.21	959.7	
				Single, Clear	E	11.2	10.0	13.3	26.41	1.32	462.8	
				Single, Clear	E	1.5	8.0	30.0	26.41	1.02	808.0	
				Single, Clear	S	1.5	8.0	10.0	20.24	1.04	210.7	
				Single, Clear	E	1.5	8.0	6.0	26.41	1.02	161.6	
				Single, Clear	S	1.5	8.0	30.0	20.24	1.04	632.1	
				As-Built Total:				**379.8**			**11611.7**	

WALL TYPES	Area X	BWPM =	Points	Type	R-Value	Area X	WPM =	Points
Adjacent	190.0	3.60	684.0	Frame, Wood, Exterior	13.0	1496.2	3.40	5087.1
Exterior	1496.2	3.70	5535.9	Frame, Wood, Adjacent	13.0	190.0	3.30	627.0
Base Total:	**1686.2**		**6219.9**	**As-Built Total:**		**1686.2**		**5714.1**

DOOR TYPES	Area X	BWPM =	Points	Type	Area X	WPM =	Points
Adjacent	18.0	8.00	144.0	Adjacent Insulated	18.0	8.00	144.0
Exterior	20.0	8.40	168.0	Exterior Insulated	20.0	8.40	168.0
Base Total:	**38.0**		**312.0**	**As-Built Total:**	**38.0**		**312.0**

CEILING TYPES	Area X	BWPM =	Points	Type	R-Value	Area X	WPM X WCM =	Points
Under Attic	2295.0	2.05	4704.8	Under Attic	30.0	2400.0	2.05 X 1.00	4920.0
Base Total:	**2295.0**		**4704.8**	**As-Built Total:**		**2400.0**		**4920.0**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE					AS-BUILT					
FLOOR TYPES	Area X	BWPM	=	Points	Type	R-Value	Area X	WPM	=	Points
Slab	248.0(p)	8.9		2207.2	Slab-On-Grade Edge Insulation	0.0	248.0(p	18.80		4662.4
Raised	0.0	0.00		0.0						
Base Total:				2207.2	**As-Built Total:**		248.0			4662.4
INFILTRATION	Area X	BWPM	=	Points			Area X	WPM	=	Points
	2295.0	-0.59		-1354.0			2295.0	-0.59		-1354.0
Winter Base Points:				17352.7	**Winter As-Built Points:**					25866.1
Total Winter Points	X System Multiplier		=	Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
					(sys 1: Electric Heat Pump 56000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
					25866.1	1.000	(1.069 x 1.000 x 1.00)	0.501	0.950	13172.8
17352.7	**0.6274**			**10887.1**	**25866.1**	**1.00**	**1.069**	**0.501**	**0.950**	**13172.8**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4	2635.00	10540.0		50.0	0.90	4	1.00	2693.56	1.00	10774.2	
				As-Built Total:						**10774.2**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
12496	**10887**	**10540**	**33923**	**9356**	**13173**	**10774**	**33303**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

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

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.7

The higher the score, the more efficient the home.

Spec House, Lot: 3, Sub: Rolling Meadows, 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: 56.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 12.00
4.	Number of Bedrooms	4			b. N/A	
5.	Is this a worst case?	No				
6.	Conditioned floor area (ft²)	2295 ft²			c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)					
	a. U-factor:	Description Area		13.	Heating systems	
	(or Single or Double DEFAULT)	7a (Sngle Default) 379.8 ft²			a. Electric Heat Pump	Cap: 56.0 kBtu/hr
	b. SHGC:					HSPF: 6.80
	(or Clear or Tint DEFAULT)	7b. (Clear) 379.8 ft²			b. N/A	
8.	Floor types					
	a. Slab-On-Grade Edge Insulation	R=0.0, 248.0(p) ft			c. N/A	
	b. N/A					
	c. N/A			14.	Hot water systems	
9.	Wall types				a. Electric Resistance	Cap: 50.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 1496.2 ft²				EF: 0.90
	b. Frame, Wood, Adjacent	R=13.0, 190.0 ft²			b. N/A	
	c. N/A					
	d. N/A				c. Conservation credits	
	e. N/A				(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 2400.0 ft²		15.	HVAC credits	PT,
	b. N/A				(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A				HF-Whole house fan,	
11.	Ducts(Leak Free)				PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft			MZ-C-Multizone cooling,	
	b. N/A				MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

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

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

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

Energy Code Compliance

Duct System Performance Report

Project Name:	Sparks Construction - Lot 3 Rolling Meadows	Builder:	Sparks Construction
Address:		Permitting Office:	
City, State:	Lake City, FL 32025-	Permit Number:	
Owner:	Spec House	Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values

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

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

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

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

BUILDING OFFICIAL: _____

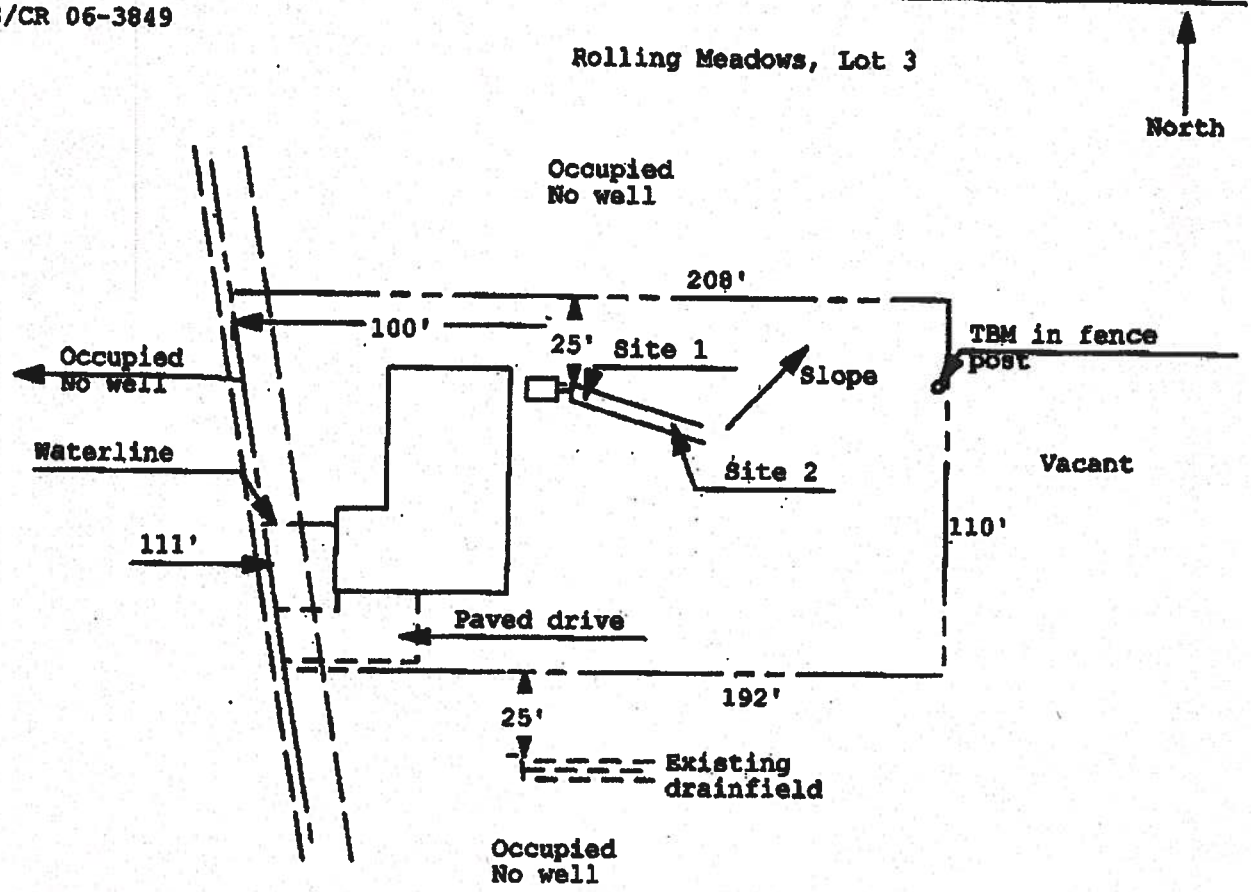
DATE: _____

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

Permit Application Number: 07-00066N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SPARKS/CR 06-3849



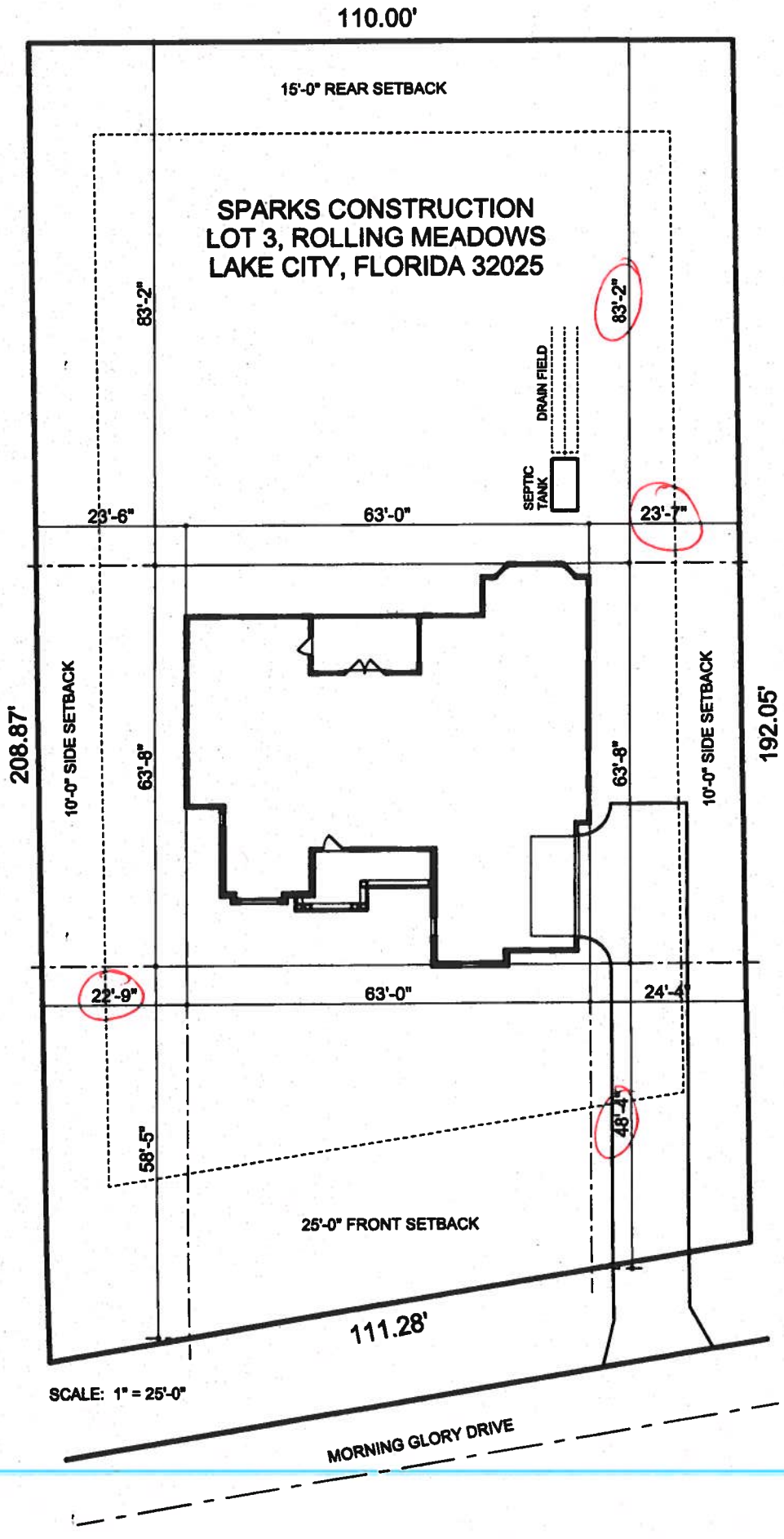
1 inch = 50 feet

Site Plan Submitted By Paul Date 11/9/07

Plan Approved ___ Not Approved ___ Date 11/23/07

By [signature] Columbia CPHU

Notes: ___


110.00'
15'-0" REAR SETBACK
SPARKS CONSTRUCTION
LOT 3, ROLLING MEADOWS
LAKE CITY, FLORIDA 32025
83'-2"
83'-2"
DRAIN FIELD
SEPTIC TANK
23'-6"
63'-0"
23'-7"
208.87'
10'-0" SIDE SETBACK
63'-8"
63'-8"
10'-0" SIDE SETBACK
192.05'
22'-9"
63'-0"
24'-4"
48'-4"
58'-5"
25'-0" FRONT SETBACK
111.28'
SCALE: 1" = 25'-0"
MORNING GLORY DRIVE

Residential System Sizing Calculation

Summary

Spec House

Lake City, FL 32025-

Project Title:
Sparks Construction - Lot 3 Rolling Meadows

Code Only
Professional Version
Climate: North

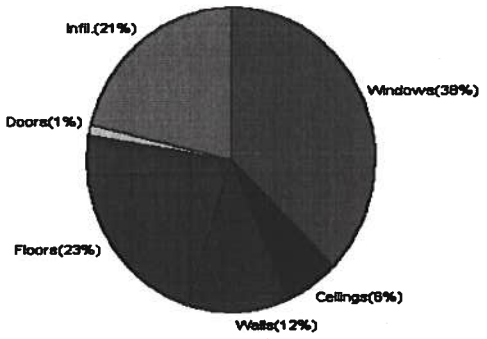
2/2/2007

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	**47448**	**Btuh**	**Total cooling load calculation**	**53340**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	118.0	56000	Sensible (SHR = 0.75)	94.8	42000
Heat Pump + Auxiliary(0.0kW)	118.0	56000	Latent	155.1	14000
			Total (Electric Heat Pump)	105.0	56000

WINTER CALCULATIONS

Winter Heating Load (for 2295 sqft)

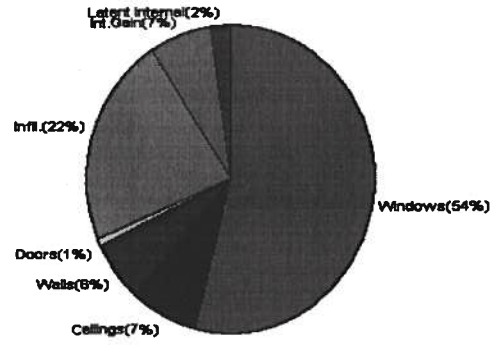
Load component			Load	
Window total	380	sqft	17847	Btuh
Wall total	1686	sqft	5538	Btuh
Door total	38	sqft	492	Btuh
Ceiling total	2400	sqft	2828	Btuh
Floor total	248	sqft	10828	Btuh
Infiltration	245	cfm	9916	Btuh
Duct loss			0	Btuh
Subtotal			**47448**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**47448**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2295 sqft)

Load component			Load	
Window total	380	sqft	28791	Btuh
Wall total	1686	sqft	3407	Btuh
Door total	38	sqft	372	Btuh
Ceiling total	2400	sqft	3975	Btuh
Floor total			0	Btuh
Infiltration	214	cfm	3986	Btuh
Internal gain			3780	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**44312**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			7828	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**9028**	**Btuh**
TOTAL HEAT GAIN			**53340**	**Btuh**



EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 2-2-07

*For Florida residences only

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Lake City, FL 32025-

Project Title:
Sparks Construction - Lot 3 Rolling Meadows

Code Only
Professional Version
Climate: North

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

2/2/2007

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	2.7	47.0	127 Btuh
3	1, Clear, Metal, 1.27	N	17.8	47.0	836 Btuh
4	1, Clear, Metal, 1.27	W	30.0	47.0	1410 Btuh
5	1, Clear, Metal, 1.27	W	40.0	47.0	1880 Btuh
6	1, Clear, Metal, 1.27	S	30.0	47.0	1410 Btuh
7	1, Clear, Metal, 1.27	SW	10.0	47.0	470 Btuh
8	1, Clear, Metal, 1.27	NW	10.0	47.0	470 Btuh
9	1, Clear, Metal, 1.27	N	20.0	47.0	940 Btuh
10	1, Clear, Metal, 1.27	N	16.0	47.0	752 Btuh
11	1, Clear, Metal, 1.27	N	9.0	47.0	423 Btuh
12	1, Clear, Metal, 1.27	E	30.0	47.0	1410 Btuh
13	1, Clear, Metal, 1.27	E	13.3	47.0	625 Btuh
14	1, Clear, Metal, 1.27	E	30.0	47.0	1410 Btuh
15	1, Clear, Metal, 1.27	S	10.0	47.0	470 Btuh
16	1, Clear, Metal, 1.27	E	6.0	47.0	282 Btuh
17	1, Clear, Metal, 1.27	S	30.0	47.0	1410 Btuh
	Window Total		380(sqft)		17847 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1496	3.3	4914 Btuh
2	Frame - Wood - Adj(0.09)	13.0	190	3.3	624 Btuh
	Wall Total		1686		5538 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		18	12.9	233 Btuh
	Door Total		38		492Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2400	1.2	2828 Btuh
	Ceiling Total		2400		2828Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	248.0 ft(p)	43.7	10828 Btuh
	Floor Total		248		10828 Btuh
			Zone Envelope Subtotal:		37532 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	18360	244.8	9916 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**47448 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Sparks Construction - Lot 3 Rolling Meadows

Code Only
Professional Version
Climate: North

2/2/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	47448 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	47448 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Spec House
Lake City, FL 32025-

Project Title:
Sparks Construction - Lot 3 Rolling Meadows

Code Only
Professional Version
Climate: North

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

2/2/2007

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	2.7	47.0	127 Btuh
3	1, Clear, Metal, 1.27	N	17.8	47.0	836 Btuh
4	1, Clear, Metal, 1.27	W	30.0	47.0	1410 Btuh
5	1, Clear, Metal, 1.27	W	40.0	47.0	1880 Btuh
6	1, Clear, Metal, 1.27	S	30.0	47.0	1410 Btuh
7	1, Clear, Metal, 1.27	SW	10.0	47.0	470 Btuh
8	1, Clear, Metal, 1.27	NW	10.0	47.0	470 Btuh
9	1, Clear, Metal, 1.27	N	20.0	47.0	940 Btuh
10	1, Clear, Metal, 1.27	N	16.0	47.0	752 Btuh
11	1, Clear, Metal, 1.27	N	9.0	47.0	423 Btuh
12	1, Clear, Metal, 1.27	E	30.0	47.0	1410 Btuh
13	1, Clear, Metal, 1.27	E	13.3	47.0	625 Btuh
14	1, Clear, Metal, 1.27	E	30.0	47.0	1410 Btuh
15	1, Clear, Metal, 1.27	S	10.0	47.0	470 Btuh
16	1, Clear, Metal, 1.27	E	6.0	47.0	282 Btuh
17	1, Clear, Metal, 1.27	S	30.0	47.0	1410 Btuh
	Window Total		380(sqft)		17847 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1496	3.3	4914 Btuh
2	Frame - Wood - Adj(0.09)	13.0	190	3.3	624 Btuh
	Wall Total		1686		5538 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		18	12.9	233 Btuh
	Door Total		38		492Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2400	1.2	2828 Btuh
	Ceiling Total		2400		2828Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	248.0 ft(p)	43.7	10828 Btuh
	Floor Total		248		10828 Btuh
			Zone Envelope Subtotal:		37532 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	18360	244.8	9916 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**47448 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Sparks Construction - Lot 3 Rolling Meadows

Code Only
Professional Version
Climate: North

2/2/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	47448 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	47448 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House

Lake City, FL 32025-

Project Title:
Sparks Construction - Lot 3 Rolling Meadows

Code Only
Professional Version
Climate: North

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

2/2/2007

Component Loads for Whole House

	Type*		Overhang		Window Area(sqft)			HTM		Load	
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, None,N,N	W	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.	2.7	0.0	2.7	37	94	254	Btuh
3	1, Clear, 1.27, None,N,N	N	5.5ft	10ft.	17.8	0.0	17.8	37	37	667	Btuh
4	1, Clear, 1.27, None,N,N	W	10.5f	10ft.	30.0	22.3	7.7	37	94	1560	Btuh
5	1, Clear, 1.27, None,N,N	W	10.5f	10ft.	40.0	32.3	7.7	37	94	1934	Btuh
6	1, Clear, 1.27, None,N,N	S	5.5ft	10ft.	30.0	30.0	0.0	37	43	1124	Btuh
7	1, Clear, 1.27, None,N,N	SW	1.5ft	8ft.	10.0	0.0	10.0	37	75	750	Btuh
8	1, Clear, 1.27, None,N,N	NW	1.5ft	8ft.	10.0	0.0	10.0	37	72	722	Btuh
9	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	37	37	749	Btuh
10	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	16.0	0.0	16.0	37	37	599	Btuh
11	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	9.0	0.0	9.0	37	37	337	Btuh
12	1, Clear, 1.27, None,N,N	E	7.5ft	10ft.	30.0	7.3	22.7	37	94	2405	Btuh
13	1, Clear, 1.27, None,N,N	E	11.1	10ft.	13.3	11.8	1.5	37	94	581	Btuh
14	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	30.0	0.0	30.0	37	94	2821	Btuh
15	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	10.0	10.0	0.0	37	43	375	Btuh
16	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	6.0	0.0	6.0	37	94	564	Btuh
17	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	30.0	30.0	0.0	37	43	1124	Btuh
	Excursion									5171	Btuh
	Window Total				380 (sqft)					28791	Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load	
1	Frame - Wood - Ext	13.0/0.09	1496.2	2.1	3121	Btuh
2	Frame - Wood - Adj	13.0/0.09	190.0	1.5	287	Btuh
	Wall Total		1686 (sqft)		3407	Btuh

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

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load	
1	Vented Attic/DarkShingle	30.0	2400.0	1.7	3975	Btuh
	Ceiling Total		2400 (sqft)		3975	Btuh

Floors	Type	R-Value	Size	HTM	Load	
1	Slab On Grade	0.0	248 (ft(p))	0.0	0	Btuh
	Floor Total		248.0 (sqft)		0	Btuh

			Zone Envelope Subtotal:	36546	Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load	
	SensibleNatural	0.70	18360	214.2	3986	Btuh

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

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

	Sensible Zone Load	**44312**	**Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Sparks Construction - Lot 3 Rolling Meadows

Code Only
Professional Version
Climate: North

2/2/2007

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**44312 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**44312 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**44312 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	7828 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**9028 Btuh**
	TOTAL GAIN	**53340 Btuh**

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House
Lake City, FL 32025-

Project Title:
Sparks Construction - Lot 3 Rolling Meadows

Code Only
Professional Version
Climate: North

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

2/2/2007

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	1, Clear, 1.27, None,N,N	W	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.	2.7	0.0	2.7	37	94	254 Btuh
3	1, Clear, 1.27, None,N,N	N	5.5ft	10ft.	17.8	0.0	17.8	37	37	667 Btuh
4	1, Clear, 1.27, None,N,N	W	10.5f	10ft.	30.0	22.3	7.7	37	94	1560 Btuh
5	1, Clear, 1.27, None,N,N	W	10.5f	10ft.	40.0	32.3	7.7	37	94	1934 Btuh
6	1, Clear, 1.27, None,N,N	S	5.5ft	10ft.	30.0	30.0	0.0	37	43	1124 Btuh
7	1, Clear, 1.27, None,N,N	SW	1.5ft	8ft.	10.0	0.0	10.0	37	75	750 Btuh
8	1, Clear, 1.27, None,N,N	NW	1.5ft	8ft.	10.0	0.0	10.0	37	72	722 Btuh
9	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	37	37	749 Btuh
10	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	16.0	0.0	16.0	37	37	599 Btuh
11	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	9.0	0.0	9.0	37	37	337 Btuh
12	1, Clear, 1.27, None,N,N	E	7.5ft	10ft.	30.0	7.3	22.7	37	94	2405 Btuh
13	1, Clear, 1.27, None,N,N	E	11.1	10ft.	13.3	11.8	1.5	37	94	581 Btuh
14	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	30.0	0.0	30.0	37	94	2821 Btuh
15	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	10.0	10.0	0.0	37	43	375 Btuh
16	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	6.0	0.0	6.0	37	94	564 Btuh
17	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	30.0	30.0	0.0	37	43	1124 Btuh
	Excursion									5171 Btuh
	Window Total				380 (sqft)					28791 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1496.2	2.1	3121 Btuh
2	Frame - Wood - Adj	13.0/0.09	190.0	1.5	287 Btuh
	Wall Total		1686 (sqft)		3407 Btuh

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

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2400.0	1.7	3975 Btuh
	Ceiling Total		2400 (sqft)		3975 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	248 (ft(p))	0.0	0 Btuh
	Floor Total		248.0 (sqft)		0 Btuh

				Zone Envelope Subtotal:	36546 Btuh

Infiltration	Type	ACH		Volume(cuft)		CFM=	Load	
	SensibleNatural	0.70		18360		214.2	3986	Btuh
Internal gain		Occupants		Btuh/occupant		Appliance	Load	
		6	X	230	+	2400	3780	Btuh
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)					DGM = 0.00	0.0	Btuh
						Sensible Zone Load	**44312**	**Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Sparks Construction - Lot 3 Rolling Meadows

Code Only
Professional Version
Climate: North

2/2/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**44312**	**Btuh**
	Sensible Duct Load	0	Btuh
	Total Sensible Zone Loads	**44312**	**Btuh**
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
	Total sensible gain	**44312**	**Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	7828	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	0	Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	**9028**	**Btuh**
	TOTAL GAIN	**53340**	**Btuh**

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

For Florida residences only

Residential Window Diversity

MidSummer

Spec House

Lake City, FL 32025-

Project Title:
Sparks Construction - Lot 3 Rolling Meadows

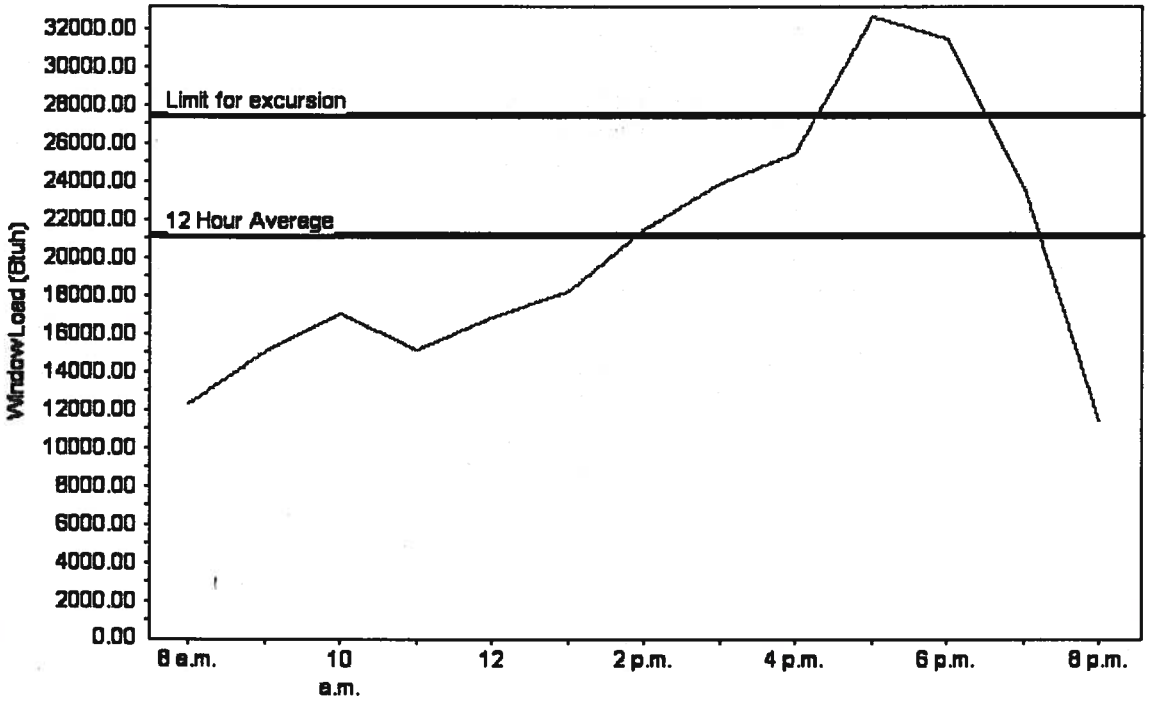
Code Only
Professional Version
Climate: North

2/2/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	21069 Btu
Summer setpoint	75 F	Peak window load for July	32561 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	27390 Btu
Latitude	29 North	Window excursion (July)	5171 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-[illegible]
FAX (904) 755-7[illegible]
[illegible]X
LAKE CITY, FLORIDA [illegible]
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,

Donald D. Hall
DDH/jk

ASPEN
PEST CONTROL, INC.

Lake City (386) 755-3611
Gainesville (352) 494-5751
Fax (386) 755-3885
Toll Free 1-800-616-4707

Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.
(386) 755-3611
State License # - JB109476
State Certification # - JF104376

165 SW Morning Glory Drive, Lake City Fl 32024
Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate
Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood
Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8.

Celia Drayton
Authorized Signature

1-16-07
Date

Inst:2007004759 Date:02/28/2007 Time:11:36
D.C.,P.DeWitt Cason,Columbia County B:1112 P:179

Prepare by & Return to:
North Florida Permit
387 SW Kemp Ct
Lake City FL 32024

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: (legal description of property, and street address if available) 15-45-16-03023-503
Lot 3 Rolling Meadows
2. General description of improvement: Single family dwelling
3. Owner information:
a. Name and address: Sparks Contractors Inc.
162 SW Country Court Lake City FL 32024 b. Interest in property: spec house
c. Name and address of fee simple titleholder (if other than owner): NA
4. Contractor: (name and address) Josh Sparks 162 SW Country Court Lake City FL 32024
a. Phone number: 623-0575
5. Surety: a. Name and address: NA
b. Phone number: c. Amount of bond $
6. Lender: (name and address): Columbia Bank Lake City FL
a. Phone number: 752-5646
7. Persons with the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7, Florida Statutes:
(name and address): NA
8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes: (name and address) NA
9. Expiration date of notice of commencement (the expiration date is one (1) year from the date of recording unless a different date is specified)

This Space for Clerk's Use Only

X _____
(signature of owner)

Sworn to and subscribed before me
this 28 day of February, 2007

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

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001338

DATE 02/28/2007 PARCEL ID # 15-4S-16-03023-503

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER JOSH SPARKS PHONE 623-0573

ADDRESS 165 SW MORNING GLORY DR LAKE CITY FL 32024

CONTRACTOR SPARKS CONTRACTORS PHONE 623-0575

LOCATION OF PROPERTY 90W, TL ON 341, TR ON HOPE HENRY, TR ON MORNING GLORY DR

3RD LOT ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT ROLLING MEADOWS 3

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other _____

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

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

Amount Paid 25.00

FLORIDA DEPARTMENT OF
Community Affairs

Community Affairs

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

Product Approval
USER: Public User

FL #	FL1956-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	TAMKO Building Products, Inc.
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 ext 2394 fred_oconnor@tamko.com
Authorized Signature	Frederick O'Connor fred_oconnor@tamko.com
Technical Representative	Frederick J. O'Connor
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 fred_oconnor@tamko.com

Quality Assurance Representative Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Certification Mark or Listing
Certification Agency	Underwriters Laboratories Inc.

Referenced Standard and Year (of Standard)	Standard	Year
	ASTM D 3462	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.	

Back Next

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

Product Approval Accepts:

4

Underwriters Laboratories Inc.

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800

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

4

TAMKO BUILDING PRODUCTS

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

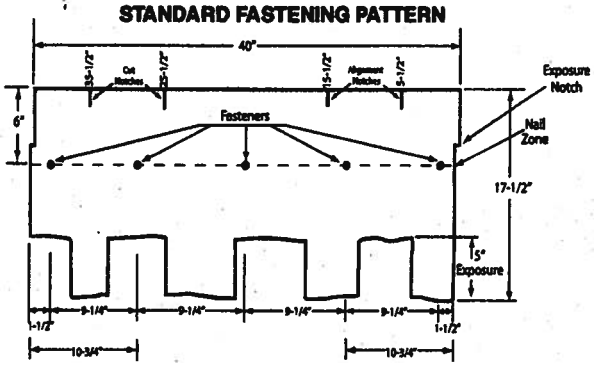
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede 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).

STANDARD FASTENING PATTERN



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)

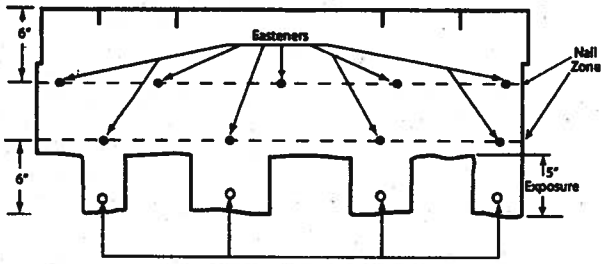
TAMKO BUILDING PRODUCTS

(CONTINUED from Pg. 1)

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

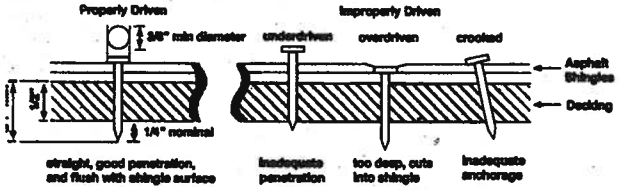
Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, use 9 fasteners per shingle.

MANSARD FASTENING PATTERN



Apply under each tab 1" diameter asphalt adhesive cement.

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.

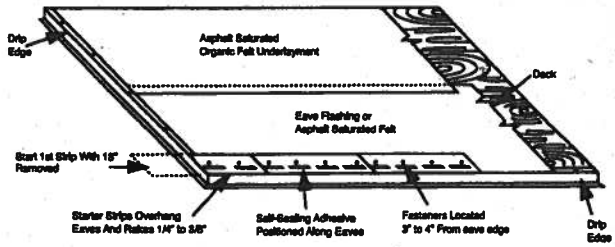
Products which are acceptable for use as underlayment are:

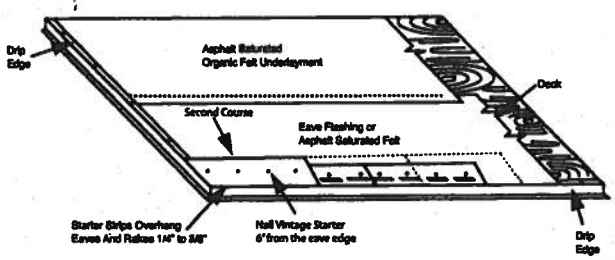
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation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

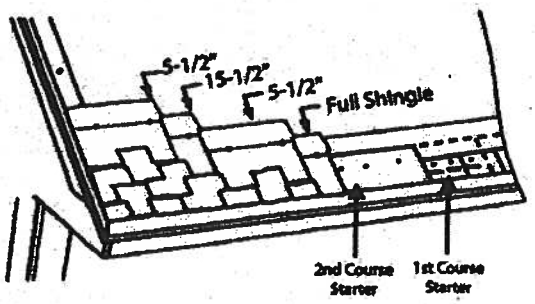
(Continued)

TAMKO BUILDING PRODUCTS

(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 a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION
TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

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

SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)

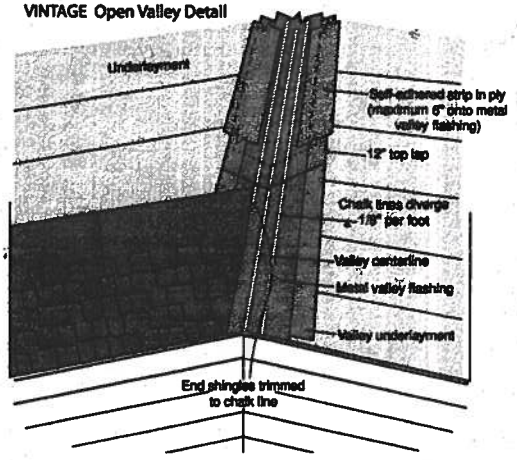
- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley centerline.
- The lower end should diverge from each other by 1/8" per foot. Thus, for an 8' long valley, the chalk lines should be 7" either side of the centerline at the eaves and for a 16' valley 8".

As shingles are applied toward the valley, trim the last shingle in each course to fit on the chalk line. Never use a shingle trimmed to less than 12" in length to finish a course running into a valley. If necessary, trim the adjacent shingle in the course to allow a longer portion to be used.

- Clip 1" from the upper corner of each shingle on a 45° angle to direct water into the valley and prevent it from penetrating between the courses.

- Form a tight seal by cementing the shingle to the valley lining with a 3" width of asphalt plastic cement (conforming to ASTM D 4586).

VINTAGE Open Valley Detail



• **CAUTION:**
Adhesive must be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

TAMKO BUILDING PRODUCTS

(CONTINUED from Pg. 3)

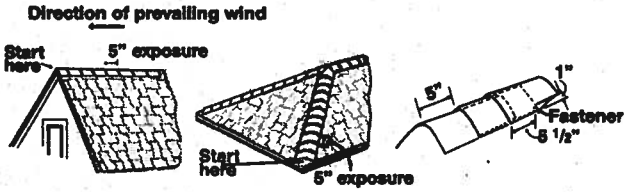
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

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.

[redacted]

FLORIDA BUILDING CODE

Overview | User Registration | Organization Registration | User Authentication | Organization Search | Organization Accreditation

Select the organization type, status, or name to find an organization

Organization Type: Product Manufacturer

Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel Search

Result List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2099	Approved
Org Code: PDM System ID: 3585			Site Link: www.gadoo.com			

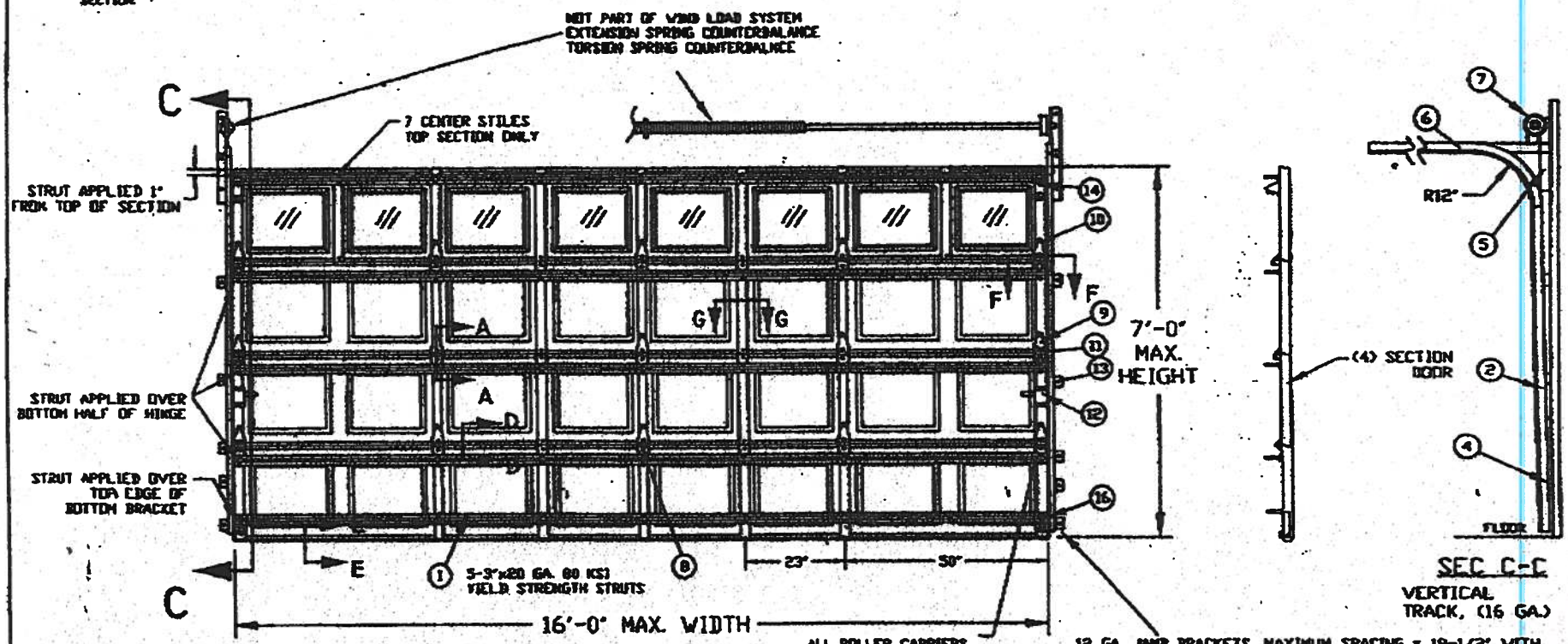
Displaying 1-1 of 1

[redacted]

REV.	DATE	BY	DESCRIPTION
A-A	11-19-99	DW	SEE ECN 891

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 21.00" AND 19.50" 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" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MINIMUM LENGTH OF ROLLER STEM IS 5½" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR 2 AS TESTED.
9. DROP IN TYPE OF INSULATION IS OPTIONAL



INSIDE ELEVATION

The seal on this drawing only certifies the product(s) illustrated and described herein represent the door as tested.

NORTH CAROLINA PROFESSIONAL SEAL PE No. 024280 ENGINEER R. STEVEN VAN

LISTED

REPORT No. 2202

TEST REPORTS ON FILE: VIBCO 10/19/00 000293

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

GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN ⚠
SERIES 7524, EXTERIOR STEEL =.024" MIN ⚠
(TESTED WITH WINDOWS)

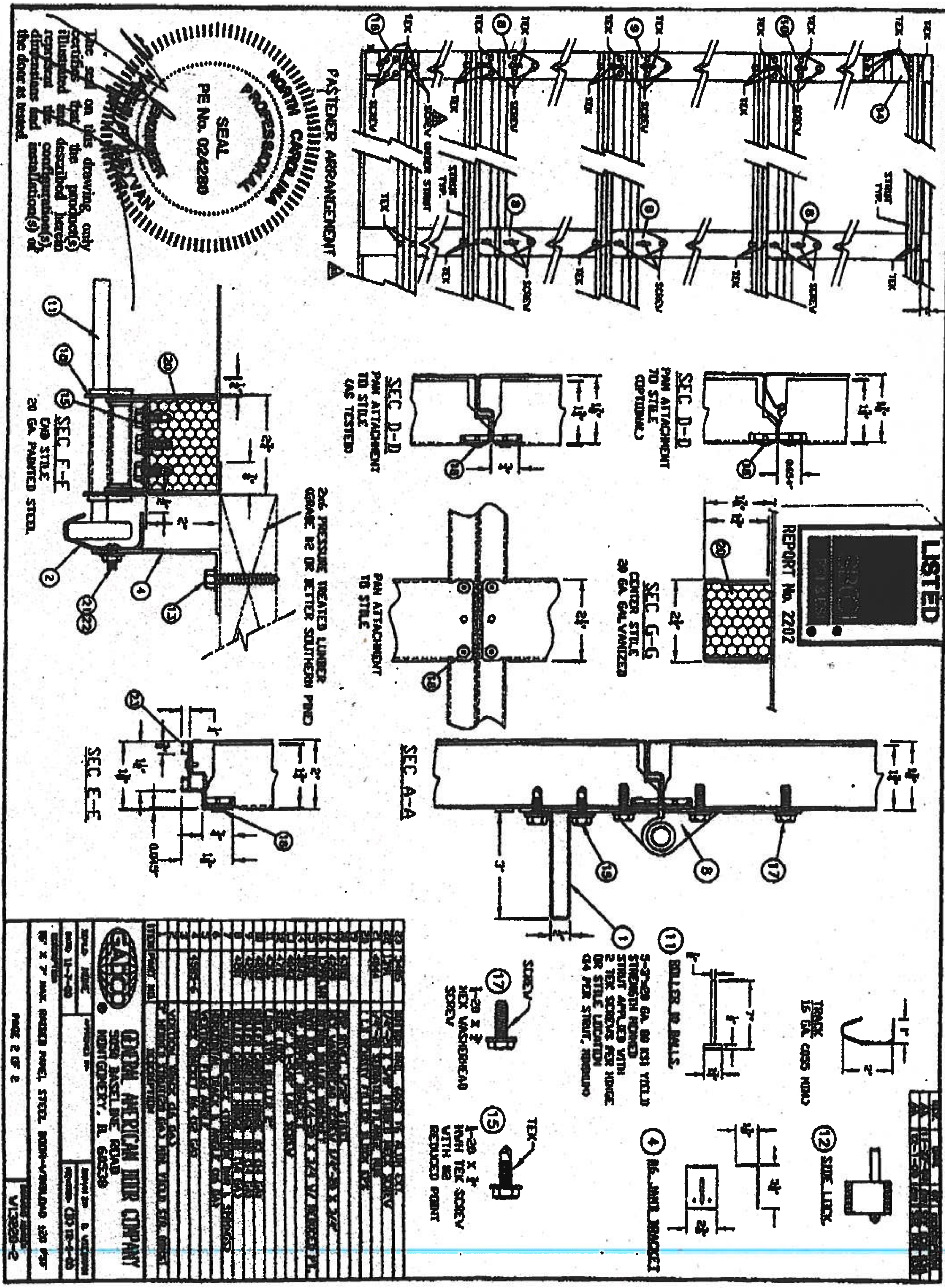
MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

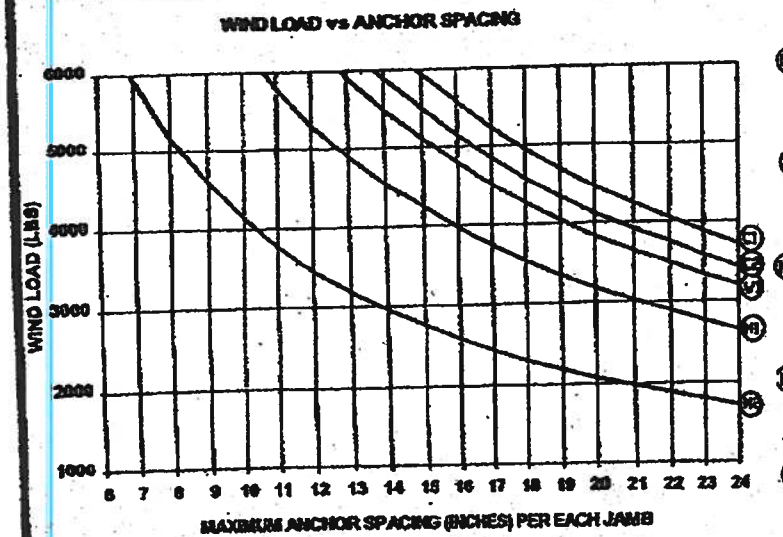
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

BOARD NO.	APPROVED BY	DRAWN BY & VERIFIED
DATE 10-20-00		REVISED (A) 11-19-00

DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF

PART NUMBER: PAGE 1 OF 2 — DRAWING NUMBER: V13220-1


FASTENER ARRANGEMENT
STRUT TYP.
SCREW UNDER STRUT
SEC D-D
PAN ATTACHMENT TO STILE (OPTIONAL)
SEC D-D
PAN ATTACHMENT TO STILE (AS TESTED)
LISTED
REPORT No. 2202
SEC G-G
CENTER STILE
20 GA. GALVANIZED
PAN ATTACHMENT TO STILE
SEC A-A
TRACK
16 GA. (.055 MIN.)
SIDE LOCK
ROLLER 10 BALLS
#6 JAMB BRACKET
3-3"x20 GA. 80 KSI YIELD STRENGTH ROMED STRUT APPLIED WITH 2 TEK SCREWS PER HINGE OR STILE LOCATION (4 PER STRUT, MINIMUM)
1/4-20 x 3/4" HEX WASHERHEAD SCREW
1/4-20 x 3/4" HWH TEK SCREW WITH #2 REDUCED POINT
2x6 PRESSURE TREATED LUMBER (GRADE #2 OR BETTER SOUTHERN PINE)
SEC F-F
END STILE
20 GA. PAINTED STEEL
SEC E-E
NORTH CAROLINA PROFESSIONAL SEAL PE No. 024280
The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s), dimensions and installation(s) of the door as tested.
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538
PAGE 2 OF 2
V13820-2



C1 CONCRETE BACKUP HILTI KWIK BOLT II EXPANSION ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

C2 CONCRETE BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

M1 MASONRY/WOOD BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

M2 MASONRY/WOOD BACKUP ITW BULLDEX TAPCON MASONRY ANCHOR 1/4" DIA. 1-3/4" EMBEDMENT

V WOOD STUD BACKUP LAG SCREWS 5/16" DIA. 1-1/2" EMBEDMENT

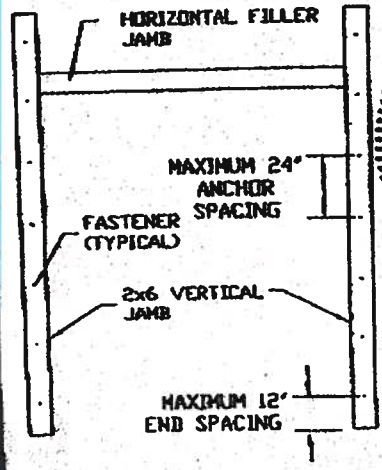
DESIGN LOAD (LBS/FT²) X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

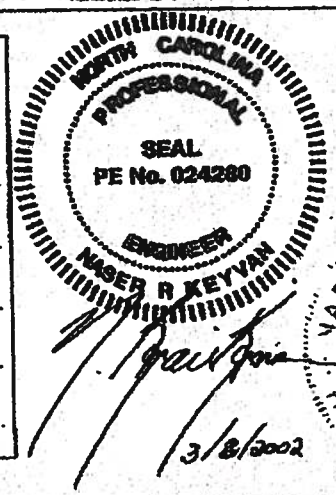
EXAMPLE

30 LBS/FT² X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

- C1 USE 22" SPACING
- C2 USE 21" SPACING
- V USE 19" SPACING
- M1 USE 16" SPACING
- M2 USE 10" 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 SBCCI "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 16' 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.

GADCO

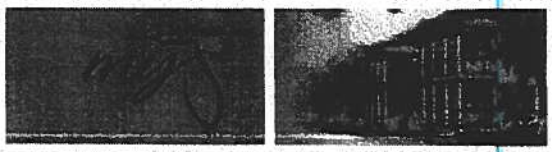
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE	APPROVED BY:	DRAWN BY: BV
DATE: 8-30-99		REVISED:

DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

DRAWING SERVICE NUMBER: A10560 DRAWING NUMBER:

FLORIDA DEPARTMENT OF
Community Affairs



Product Approval
USER: Public User

FL #	FL5108
Application Type	New
Code Version	2004
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	MI Windows and Doors
Address/Phone/Email	650 W Market St Gratz, PA 17030 (717) 365-3300 ext 2101 surich@miwd.com
Authorized Signature	Steven Urich surich@miwd.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	

Windows.

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.

1. The listing below will be added to the next published AAMA Certified Products Directory.

SPECIFICATION	RECORD OF PRODUCT TESTED				LABEL ORDER NO.
AAMA/NWWDA 101/I.S. 2-97 H-R55*-38x62					
COMPANY AND PLANT LOCATION	CODE NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED		
			FRAME	SASH	
MI Windows & Doors, Inc. (Oldsmar, FL) MI Windows & Doors, Inc. (Smyrna, TN)	MTL-8 MTL-9	185/3185 SH (Fin) (AL)(OX)(OG) (ASTM)	3'0" x 5'2"	2'10" x 2'7"	By Request

2. This Certification will expire May 14, 2008 and requires validation until then by continued listing in the current AAMA Certified Products Directory.

3. 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

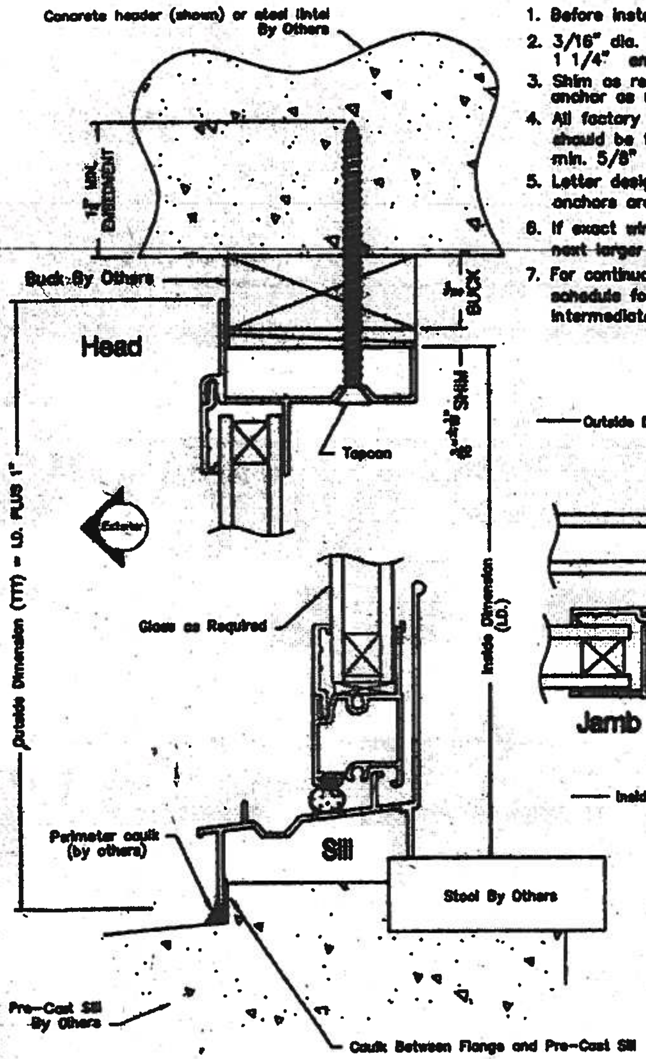
Validated for Certification:

Associated Laboratories, Inc.

Authorized for Certification:

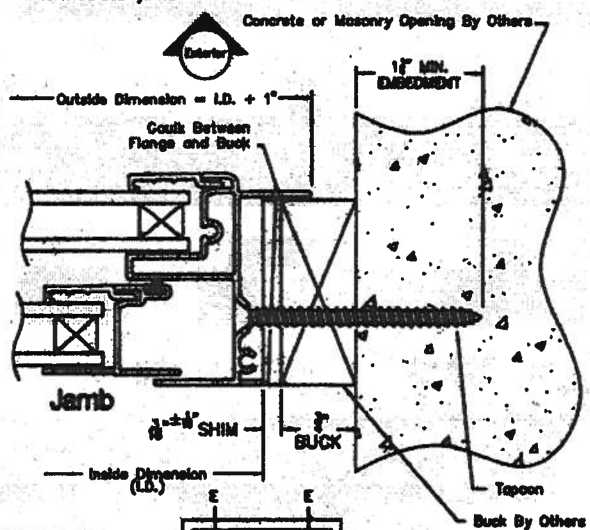
American Architectural Manufacturers Association

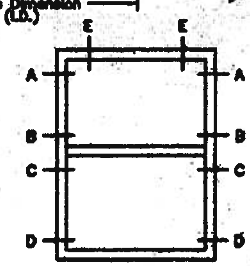
cc: AAMA
JGS/df
ACP-04 (Rev. 5/03)



"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.

MI HOME PRODUCTS BetterBilt / Capitol

* 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, C, 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, C, D & E
27	36 x 83	A, D & E	A, C, D & E	A, C, 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, C, D & E	A, C, D & E
36	52 1/8 x 71	A, D & E	A, C, D & E	A, B, C, D & E
37	52 1/8 x 83	A, D & E	A, C, D & E	A, B, C, 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, C, D & E
3070	35 3/8 x 83 5/8	A, D & E	A, C, D & E	A, C, 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, C, D & E
4060	47 3/8 x 71 5/8	A, D & E	A, C, D & E	A, C, D & E
4070	47 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4450	51 3/8 x 59 5/8	A, D & E	A, D & E	A, C, D & E
4460	51 3/8 x 71 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4470	51 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E

*"TAPCON" TYPE HARDENED MASONRY SCREWS INCLUDE TAPCON, RAWL, & SIMPSON

SYM	REVISION	DATE	BY
A	REMOVED SILL INSTALLATION ANCHOR SCREWS	7/16/04	[illegible]

MI HOME PRODUCTS
GRATZ, PA

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

PTC Product Technology Corporation

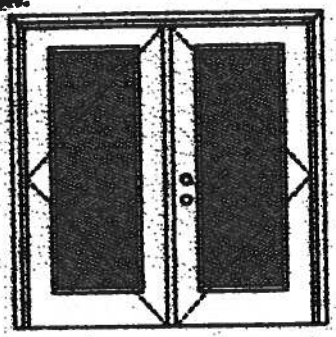
DRL | 06/15/04 | N.T.S. | MIHP0059 | A | 1 OF 1

XX
Glazed Outswing Unit

[redacted]

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:

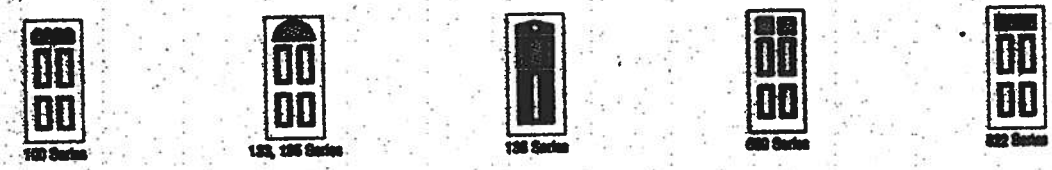
Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPROVED DOOR STYLES:

1/4 GLASS:



1/2 GLASS:

*This glass kit may also be used in the following door styles: 6-panel; 6-panel with ovolt; Eyebrow 6-panel; Eyebrow 5-panel with ovolt.

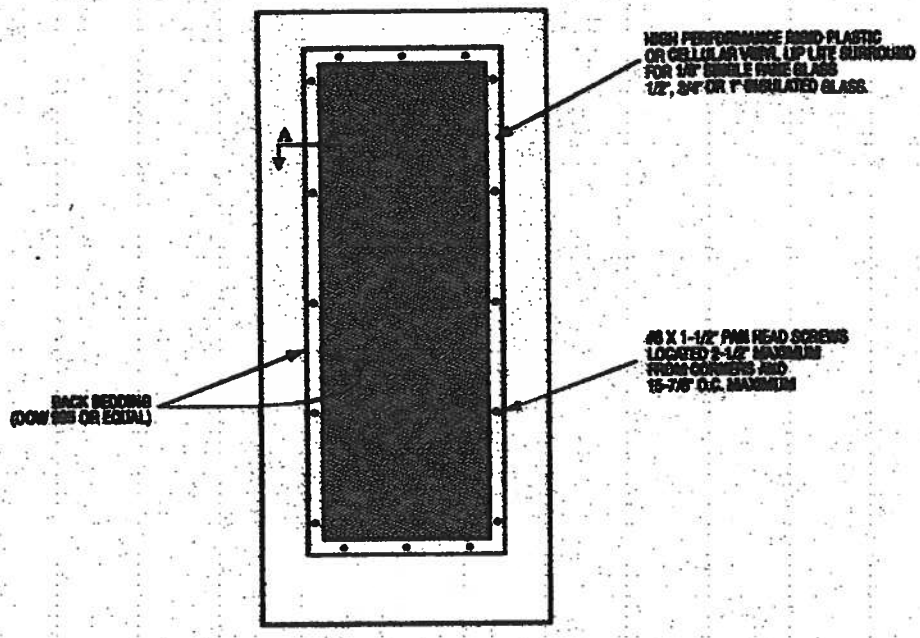
Johnson Entry Systems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

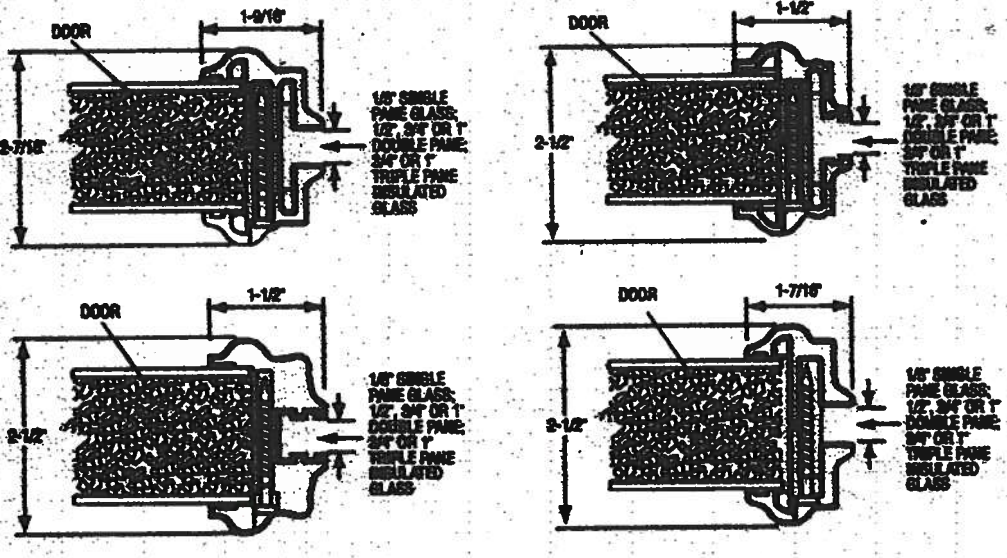
Exclusively from Masonite
Masonite International Corporation

[redacted]

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



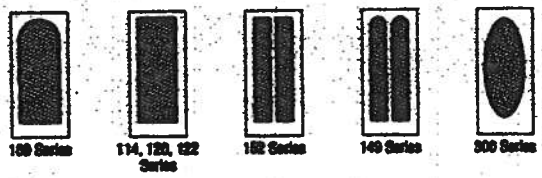
XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:
3/4 GLASS:

FULL GLASS:



CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1884-5, 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 and rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56633

Johnson Entry Systems

March 29, 2002

Our continuing program of product improvement makes specifications, design and product details subject to change without notice.

PREMDOR Premium Quality Doors

Exclusively from Masonite

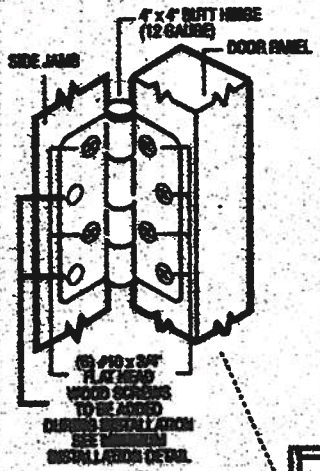
Masonite International Corporation

XX
Unit

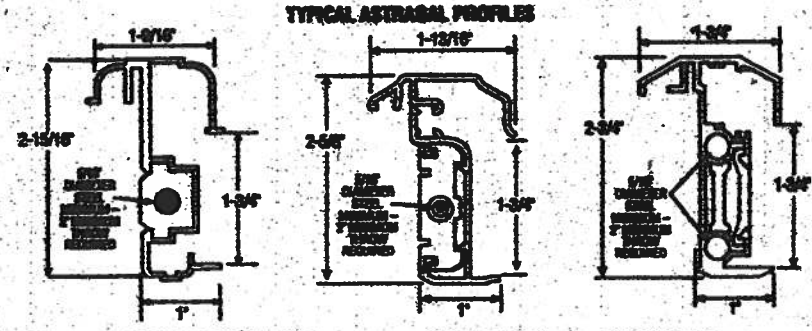
[redacted]

OUTSWING UNITS WITH DOUBLE DOOR

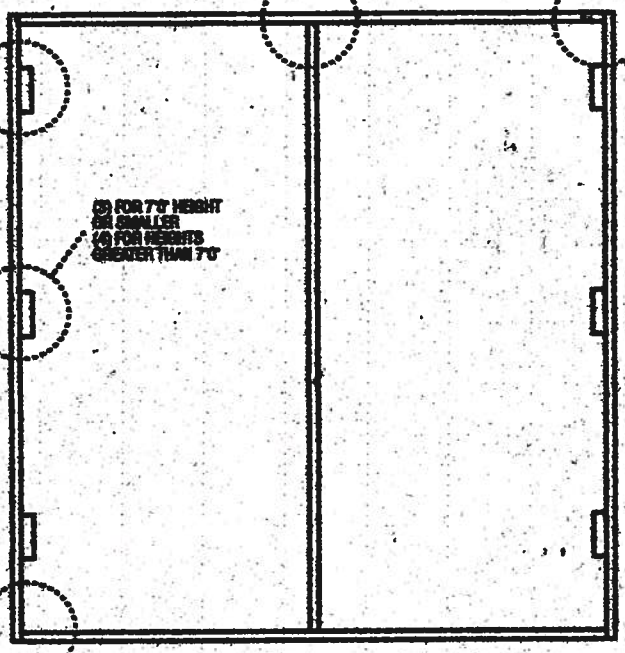
TYPICAL HINGE ATTACHMENT



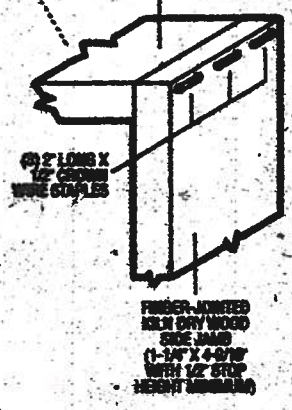
TYPICAL ASTRAGAL PROFILES



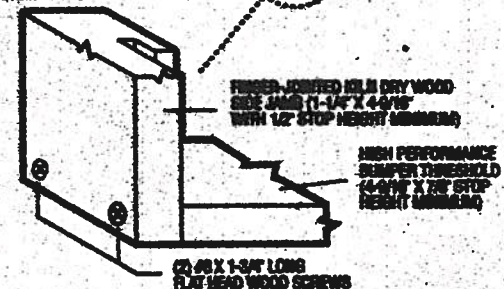
ALUMINUM EXTRUDED ASTRAGAL (0.05" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDER/ASTRAGAL LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS – LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



TYPICAL HEADER & SIDE JAMB ATTACHMENT



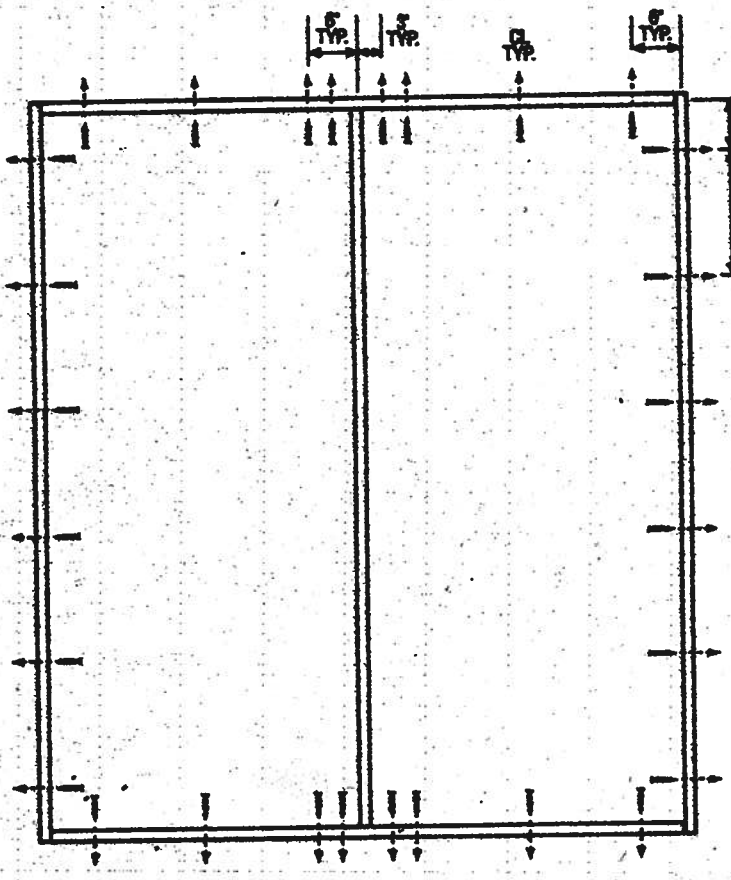
TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



XX
Unit

[redacted]

DOUBLE DOOR



[redacted]

- 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:

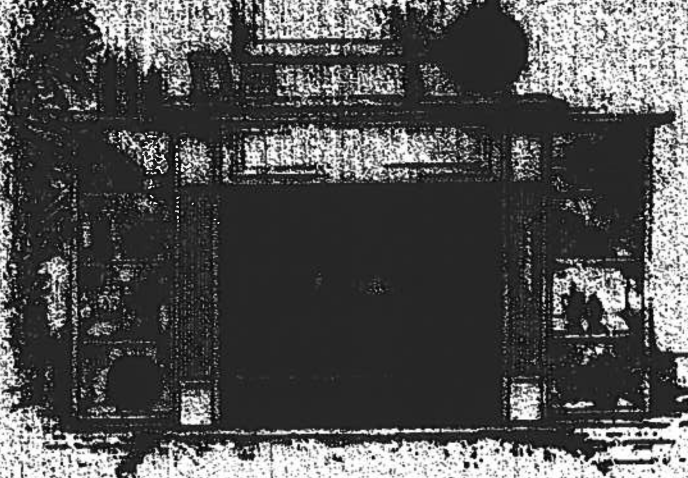
- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.

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 Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

[redacted]

This unit is A.G.A. certified as a heater with 99% heat efficiency
No chimney or flue system required
Wide selection of factory installed options offered



VF-4000

- 14,000 – 25,000 Btu/hr with manual control valve
- 19,500 – 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening

VF-5000

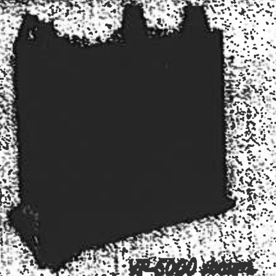
- 25,000 Btu/hr millivolt variable heat output
- 15" X 30" glass or screen viewing area
- Clean burning, safe and easy to install
- Realistic charred oak logs with glowing embers

VF-6000

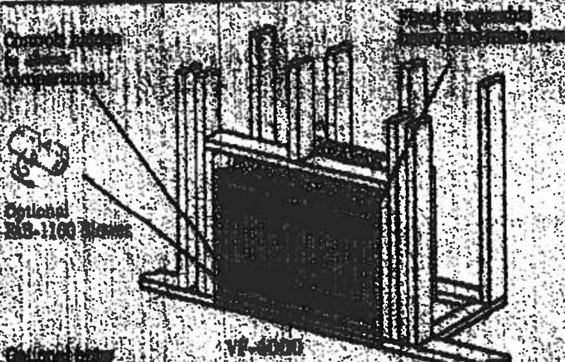
- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms

FROM :LAKE CITY INDUSTRIES FAX NO. :+386 758 4735 May. 01 2003 07:50AM P1

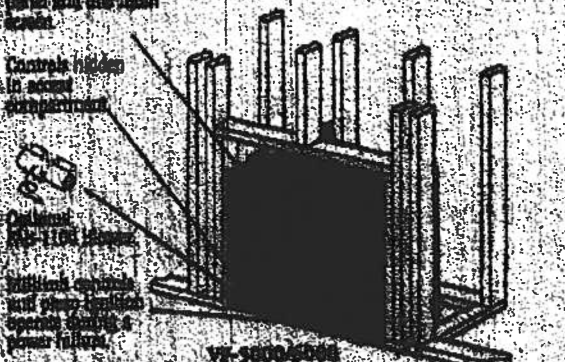
[illegible]



VF-5000 shown



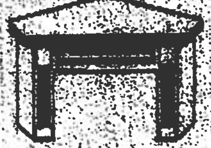
VF-4000



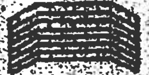
VF-5000/6000

SURROUNDS

The Charleston Poplar Surround is hand crafted using a combination of solid Poplar and Poplar veneer. Using the unique wood type of Poplar allows you the option to paint or stain this elegantly detailed surround. The surround is constructed using easy to assemble cam locks, and available in corner and wall units.



Distributed by:



Refractory [illegible]

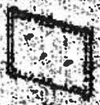
Gas flue liner kit

[illegible]

Brass Louver kit (For VF-4 only)

Screen panel kit (For VF-5 & VF6 only)

Arch kit (For VF-5 & VF6 only)



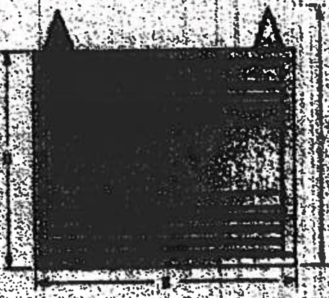
Glass door kit (For VF-5 & VF6 only)

Hearth hood (For VF-5 & VF6 only)

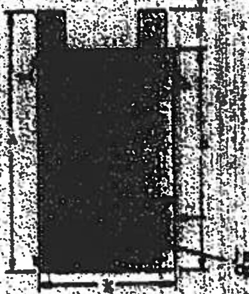
Wall switch or optional wireless remote available. (For VF-4000, VF-5 & VF-6)

Wall thermostat (For VF-4000, VF-5 & VF-6)

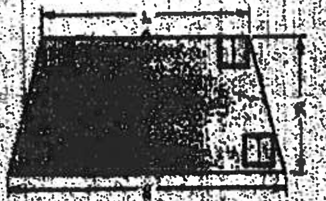
Front View



Left Side View



Top View



Vent-Free Product Dimensions

	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	37"	[illegible]

Btu Chart

Model	Natural	Propane
VF-4000 [illegible]	14,000 – 25,000	14,000 – [illegible]
VF-5000/5000 [illegible]	19,500 – 25,000	[illegible]
VF-6000	25,000 – 32,000	25,000 – [illegible]

Framing Dimensions

Model	Width	Height	Depth
VF-5000/5000	37"	37 1/4"	15 1/2"
VF-6000	41"	42 3/8"	15 1/2"

NOTE: Diagrams and illustrations are not to scale. [illegible] change or discontinuation without notice. [illegible] approved by A.G.A. (report # [illegible]).

Consult your distributor for local fireplace code information.

SUPERIOR

www.LennoxHearthProducts.com

Printed in U.S.A. ©2001 Lennox Hearth Products • 1110 West Taft Ave., Orange, CA 92865-4150

Project Information for:	L228028		
Builder:	SPARKS	Date:	2/20/2007
Lot:	LOT 3 ROLLING MEADOWS	Start Number:	**1066**
Subdivision:	N/A	SEI Ref:	L228028
County or City:	COLUMBIA COUNTY		
Truss Page Count:	56		

Truss Design Load Information (UNO) Design Program: MiTek

Gravity		**Wind**		**Building Code:**	**FBC2004**
Roof (psf):	**42**	Wind Standard:	**ASCE 7-02**		
Floor (psf):	55	Wind Speed (mph):	**110**		

Note: See individual truss drawings for special loading conditions

Building Designer, responsible for Structural Engineering: (See attached)

SPARKS, JOSHUA D. CBC 1252260
Address: 130 S W COUNTRY CT
LAKE CITY,FLORIDA 32056 Designer: **174**

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987
Company: Structural Engineering and Inspections, Inc. EB 9196
Address 16105 N. Florida Ave, Ste B, Lutz, FL 33549 Phone: 813-849-5769

Notes:

1. Truss Design Engineer is responsible for the individual trusses as components only.
2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
4. Trusses designed for veritcal loads only, unless noted otherwise.
5. Where hangers are shown, Carried Member hanger capacity per Simpson C-2006 (SYP/Full Nailing Value) as an individual component. Building Designer shall verify the suitablity and use of Carrying Member hanger capacity.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0220071066	2/20/2007	41	T18	0220071106	2/20/2007
2	CJ3	0220071067	2/20/2007	42	T19	0220071107	2/20/2007
3	CJ5	0220071068	2/20/2007	43	T20	0220071108	2/20/2007
4	EJ1	0220071069	2/20/2007	44	T21G	0220071109	2/20/2007
5	EJ1A	0220071070	2/20/2007	45	T22	0220071110	2/20/2007
6	EJ4	0220071071	2/20/2007	46	T22G	0220071111	2/20/2007
7	EJ5	0220071072	2/20/2007	47	T23	0220071112	2/20/2007
8	EJ5A	0220071073	2/20/2007	48	T24	0220071113	2/20/2007
9	EJ7	0220071074	2/20/2007	49	T26	0220071114	2/20/2007
10	HJ2	0220071075	2/20/2007	50	T27	0220071115	2/20/2007
11	HJ4	0220071076	2/20/2007	51	T28G	0220071116	2/20/2007
12	HJ7	0220071077	2/20/2007	52	T29	0220071117	2/20/2007
13	HJ9	0220071078	2/20/2007	53	T30	0220071118	2/20/2007
14	PB01	0220071079	2/20/2007	54	T31	0220071119	2/20/2007
15	PB02	0220071080	2/20/2007	55	T31G	0220071120	2/20/2007
16	PB03	0220071081	2/20/2007	56	T32	0220071121	2/20/2007
17	PB04	0220071082	2/20/2007				
18	PB05	0220071083	2/20/2007				
19	PB06	0220071084	2/20/2007				
20	PB07	0220071085	2/20/2007				
21	PB08	0220071086	2/20/2007				
22	PB10	0220071087	2/20/2007				
23	PB11	0220071088	2/20/2007				
24	T01	0220071089	2/20/2007				
25	T02	0220071090	2/20/2007				
26	T03	0220071091	2/20/2007				
27	T04	0220071092	2/20/2007				
28	T05	0220071093	2/20/2007				
29	T06	0220071094	2/20/2007				
30	T07	0220071095	2/20/2007				
31	T08	0220071096	2/20/2007				
32	T09	0220071097	2/20/2007				
33	T10	0220071098	2/20/2007				
34	T11	0220071099	2/20/2007				
35	T12	0220071100	2/20/2007				
36	T13	0220071101	2/20/2007				
37	T14	0220071102	2/20/2007				
38	T15	0220071103	2/20/2007				
39	T16	0220071104	2/20/2007				
40	T17	0220071105	2/20/2007				

FEB 20 2007

LATERAL TOE-NAIL DETAIL

ST-TOENAIL

NOTES:
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE BOTTOM CHORD SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

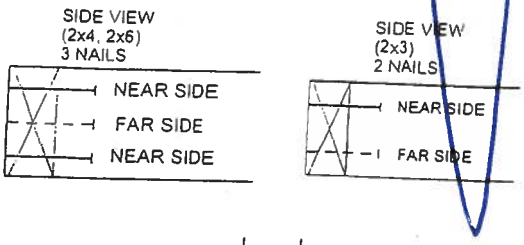
FEB 20 2007

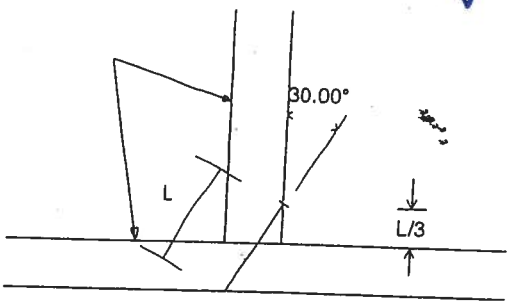
TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

	DIAM	SYP
3.5" LONG	.131	83.3
	.135	89.6
	.162	118.3
3.25" LONG	.128	80.5
	.131	83.3
	.148	102.1
3.0" LONG	.120	70.5
	.128	80.5
	.131	83.3
	.148	102.1

VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

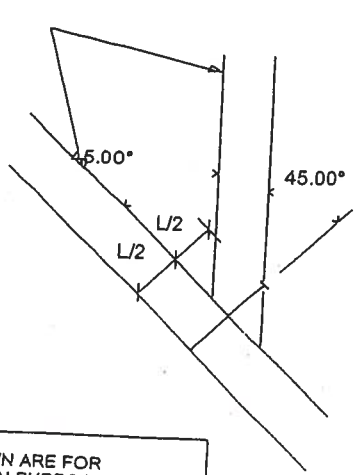
SQUARE CUT

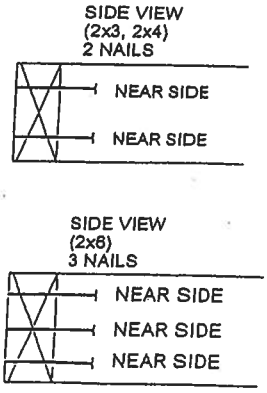




45 DEGREE ANGLE BEVEL CUT

This detail may only be applied to Pre-engineered truss drawings signed and sealed by Structural Engineering and Inspections Inc.





VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

Licensee Details

Licensee Information

Name:	**SPARKS, JOSHUA DAVID (Primary Name)**
	SPARKS CONSTRUCTION INC (DBA Name)
Main Address:	**PO BOX 2782**
	LAKE CITY Florida 32056-2782
County:	**COLUMBIA**
License Mailing:	
LicenseLocation:	**130 S W COUNTRY CT**
	LAKE CITY FL 32024
County:	**COLUMBIA**

License Information

License Type:	**Certified Building Contractor**
Rank:	**Cert Building**
License Number:	**CBC1252260**
Status:	**Current,Active**
Licensure Date:	**10/11/2004**
Expires:	**08/31/2008**

Special Qualifications	Qualification Effective
Qualified Business License Required	10/11/2004

View Related License Information

View License Complaint

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STATE OF FLORIDA ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071066

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	CJ1	JACK	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:01:09 2007 Page 1

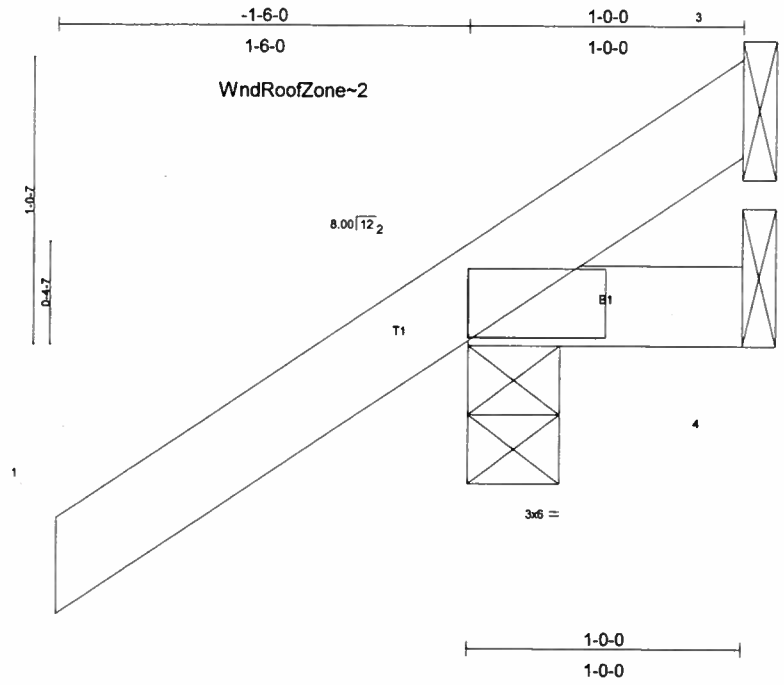


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 6 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=189/0-4-0, 4=14/Mechanical, 3=-41/Mechanical
Max Horz 2=94(load case 5)
Max Uplift2=-189(load case 5), 3=-41(load case 1)
Max Grav 2=189(load case 1), 4=14(load case 1), 3=70(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/44, 2-3=-55/48
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 2 and 41 lb uplift at joint 3.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071067

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	CJ3	JACK	4	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:01:14 2007 Page 1

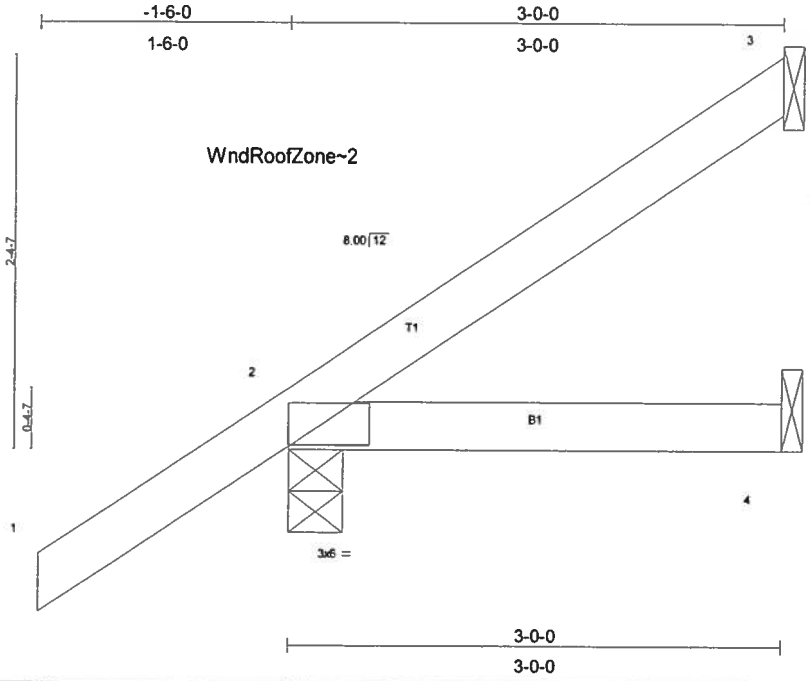


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.18	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 13 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=48/Mechanical, 2=233/0-4-0, 4=42/Mechanical
Max Horz 2=154(load case 5)
Max Uplift3=-47(load case 5), 2=-143(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-60/19
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3 and 143 lb uplift at joint 2.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071068

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	CJ5	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:01:19 2007 Page 1

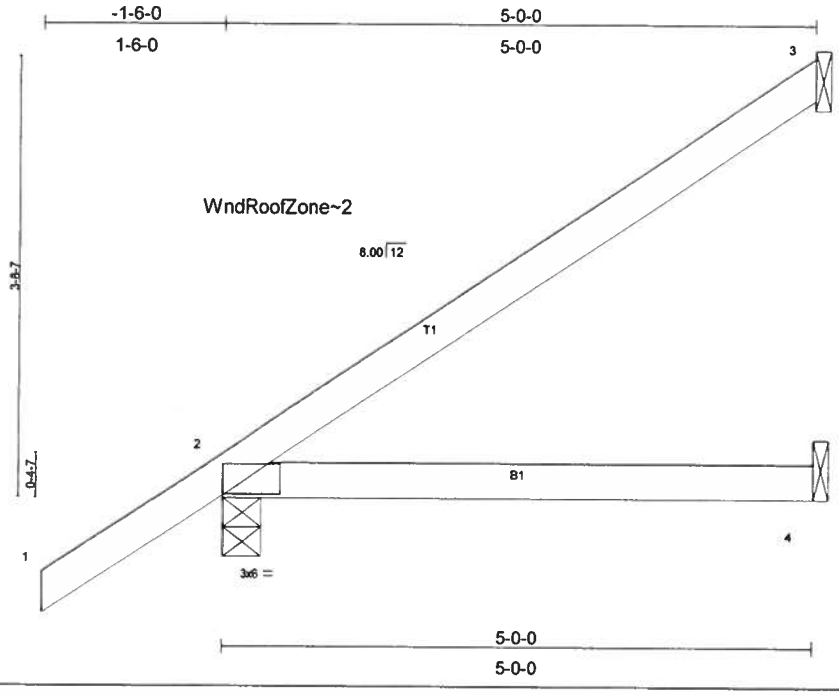


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=113/Mechanical, 2=306/0-4-0, 4=72/Mechanical
Max Horz 2=215(load case 5)
Max Uplift3=-121(load case 5), 2=-138(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-100/50
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 3 and 138 lb uplift at joint 2.

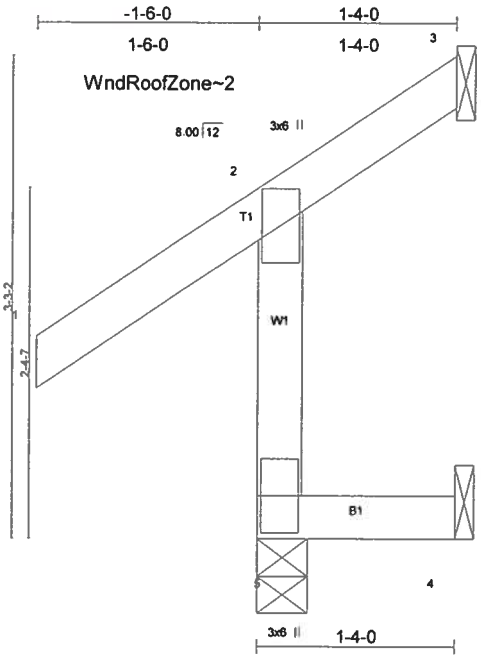
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071069

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	EJ1	JACK	4	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:01:24 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	0.00	5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.03	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 10 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=200/0-4-0, 4=9/Mechanical, 3=-22/Mechanical
Max Horz 5=107(load case 5)
Max Uplift5=-1(load case 5), 4=-84(load case 5), 3=-45(load case 5)
Max Grav 5=200(load case 1), 4=9(load case 1), 3=10(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-174/110, 1-2=0/49, 2-3=-47/5
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 5, 84 lb uplift at joint 4 and 45 lb uplift at joint 3.

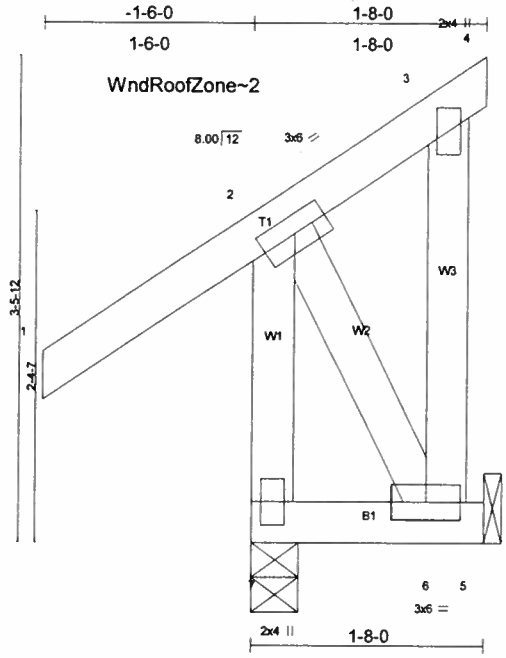
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071070

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	EJ1A	JACK	6	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:01:30 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	7	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 7=199/0-4-0, 6=7/Mechanical
Max Horz 7=116(load case 5)
Max Uplift7=-2(load case 3), 6=-153(load case 5)
Max Grav 7=199(load case 1), 6=16(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-181/15, 1-2=0/49, 2-3=-51/36, 3-4=-2/0
BOT CHORD 6-7=-123/0, 5-6=0/0
WEBS 3-6=-68/21, 2-6=-0/245

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 7 and 153 lb uplift at joint 6.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071071

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	EJ4	SPECIAL	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:01:35 2007 Page 1

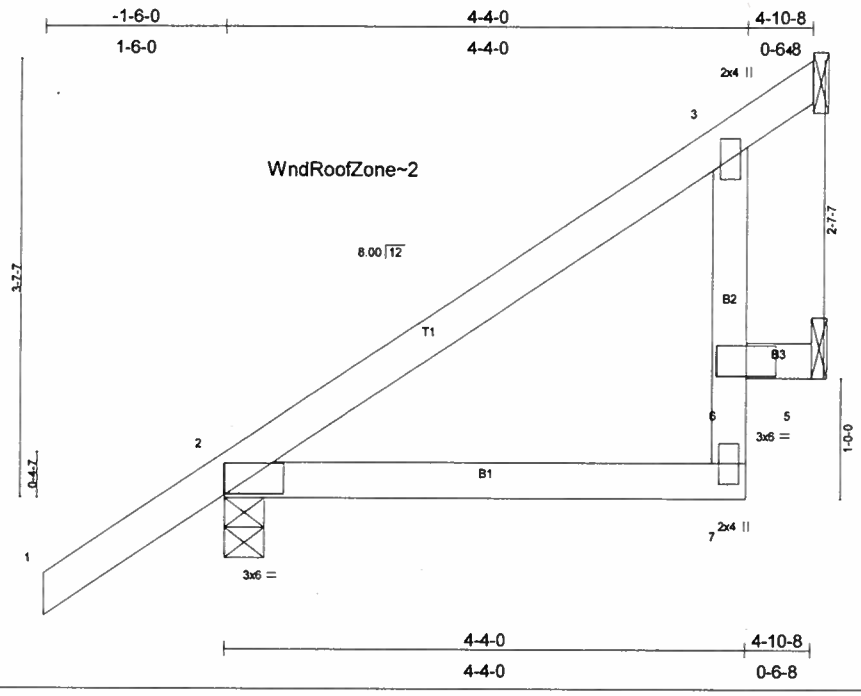


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.18	Vert(LL)	-0.01	2-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	-0.01	2-7	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 23 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=32/Mechanical, 2=301/0-4-0, 5=147/Mechanical
Max Horz 2=212(load case 5)
Max Uplift4=-1(load case 5), 2=-138(load case 5), 5=-102(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-147/0, 3-4=-4/16
BOT CHORD 2-7=-42/69, 6-7=0/66, 3-6=-63/131, 5-6=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 4, 138 lb uplift at joint 2 and 102 lb uplift at joint 5.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071072

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	EJ5	JACK	12	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:01:41 2007 Page 1

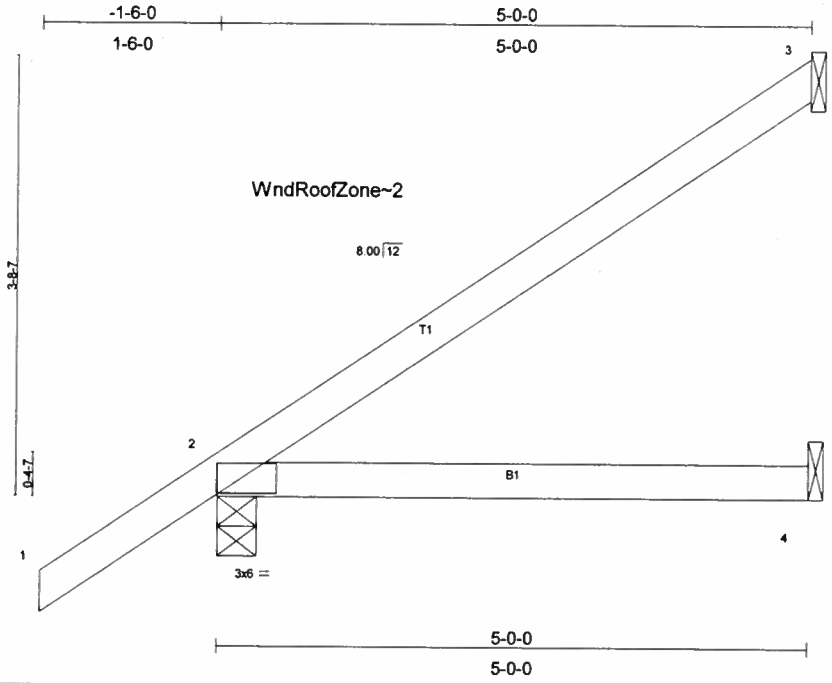


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=113/Mechanical, 2=306/0-4-0, 4=72/Mechanical
Max Horz 2=215(load case 5)
Max Uplift3=-121(load case 5), 2=-138(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-100/50
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 3 and 138 lb uplift at joint 2.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071073

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	EJ5A	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:01:45 2007 Page 1

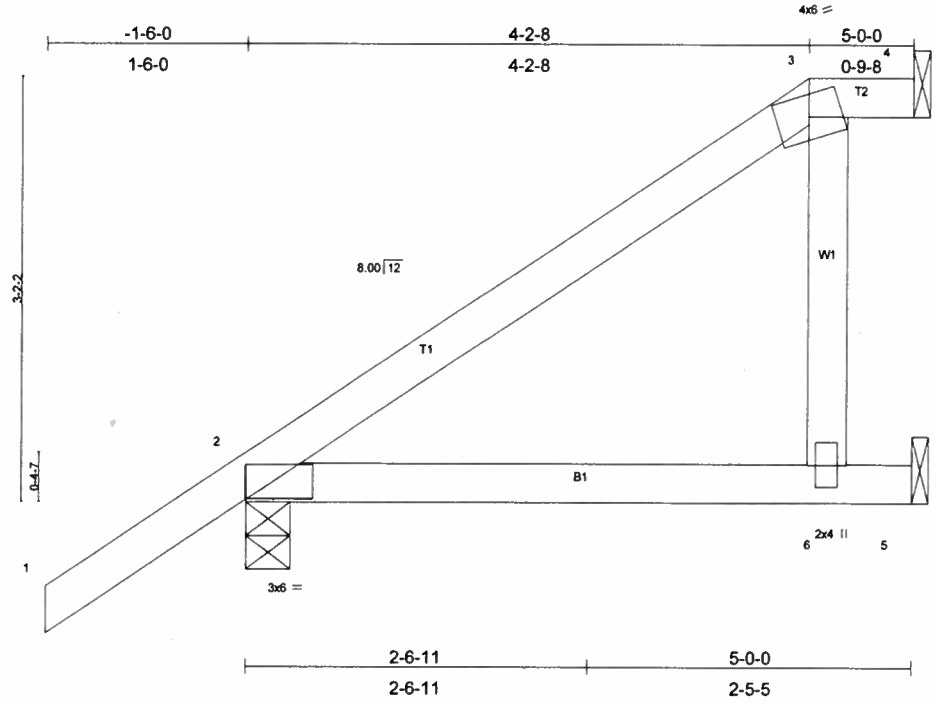


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.18	Vert(LL)	-0.04	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.23	Vert(TL)	-0.07	2-6	>849	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.02	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 23 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=20/Mechanical, 2=306/0-4-0, 5=165/Mechanical
Max Horz 2=194(load case 5)
Max Uplift4=-17(load case 3), 2=-151(load case 5), 5=-75(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-81/33, 3-4=-0/0
BOT CHORD 2-6=-5/5, 5-6=0/0
WEBS 3-6=-107/102

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 4, 151 lb uplift at joint 2 and 75 lb uplift at joint 5.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Dwg.#0220071074

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	EJ7	JACK	9	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:01:51 2007 Page 1

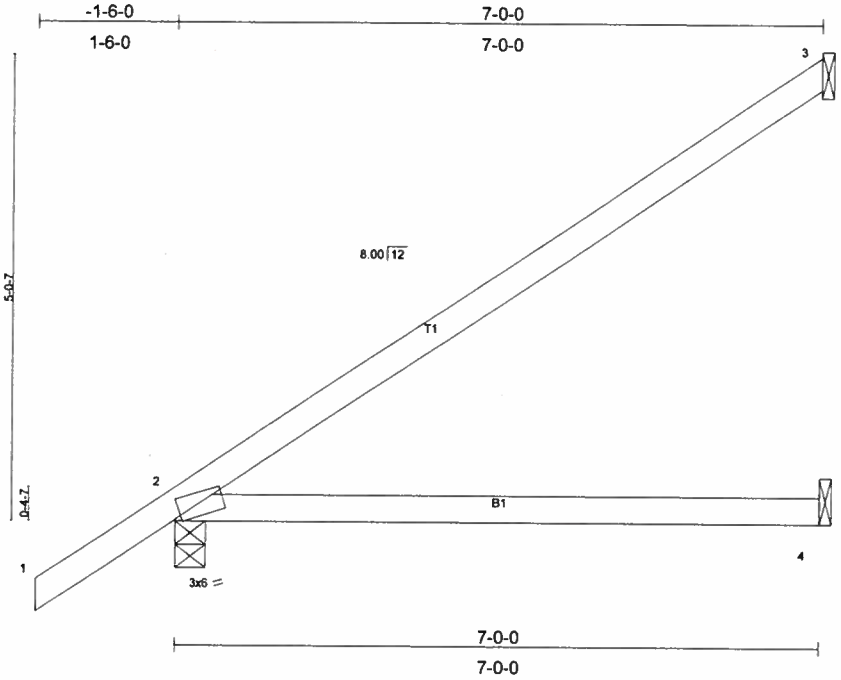


Plate Offsets (X,Y): [2:0-0-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.14	2-4	>599	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.38	Vert(TL)	-0.22	2-4	>362	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

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

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

REACTIONS (lb/size) 3=164/Mechanical, 2=385/0-4-0, 4=109/Mechanical
Max Horz 2=277(load case 5)
Max Uplift3=-165(load case 5), 2=-142(load case 5), 4=-1(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-126/73
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 3, 142 lb uplift at joint 2 and 1 lb uplift at joint 4.

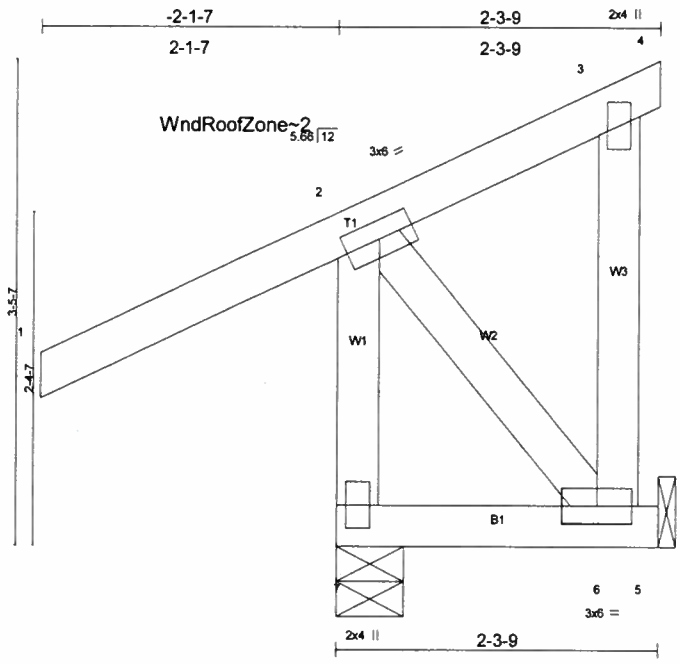
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071075

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	HJ2	MONO TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:01:55 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	7	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(TL)	-0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 21 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 7=214/0-5-11, 6=-37/Mechanical
Max Horz 7=79(load case 4)
Max Uplift7=-129(load case 4), 6=-37(load case 1)
Max Grav 7=214(load case 1), 6=49(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-37/33, 3-4=-1/1, 2-7=-209/130
BOT CHORD 6-7=-79/1, 5-6=0/0
WEBS 2-6=-2/121, 3-6=-79/55

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 7 and 37 lb uplift at joint 6.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

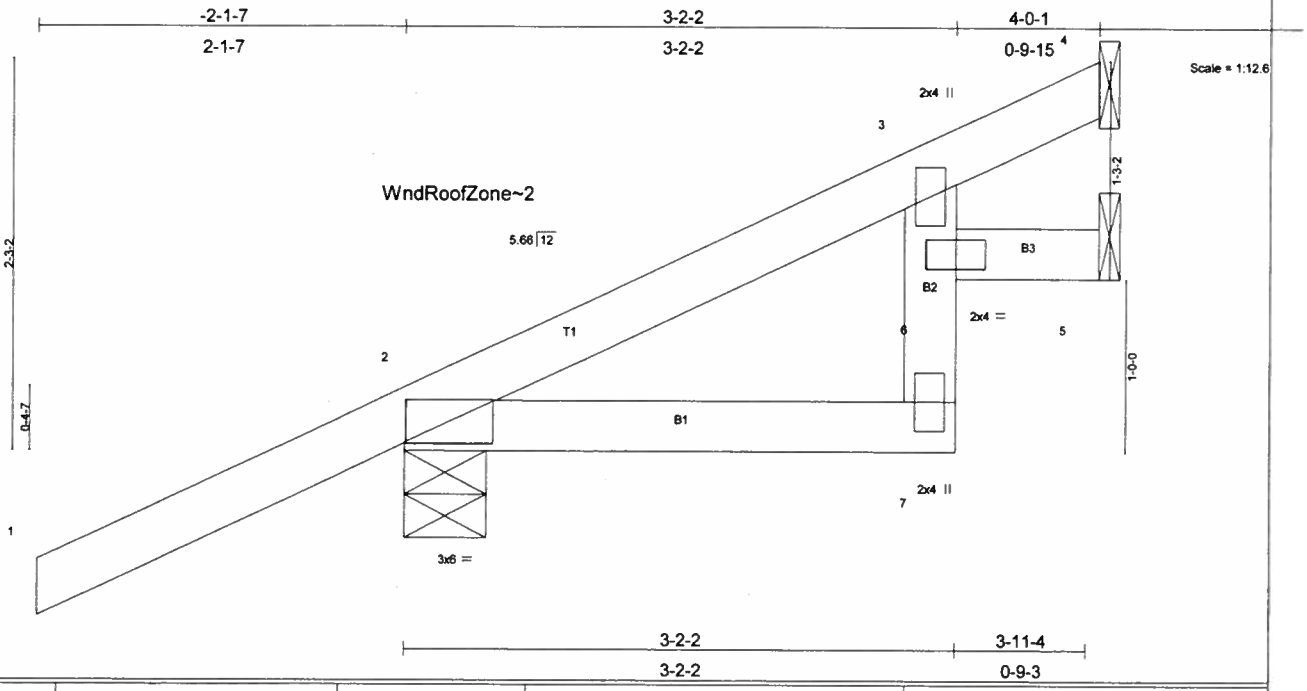
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-2(F=26, B=26)-to-3=-33(F=10, B=10), 3=7(F=10, B=10)-to-4=2(F=8, B=8), 7=0(F=15, B=15)-to-5=-21(F=4, B=4)

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS. INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071076

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	HJ4	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:00 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	-0.01	2-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.14	Vert(TL)	-0.01	2-7	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 18 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 4=39/Mechanical, 2=224/0-5-11, 5=27/Mechanical
Max Horz 2=97(load case 4)
Max Uplift4=-20(load case 4), 2=-179(load case 4)
Max Grav 4=39(load case 1), 2=224(load case 1), 5=38(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-77/4, 3-4=-11/14
BOT CHORD 2-7=-4/62, 6-7=-10/50, 3-6=-12/34, 5-6=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 4 and 179 lb uplift at joint 2.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

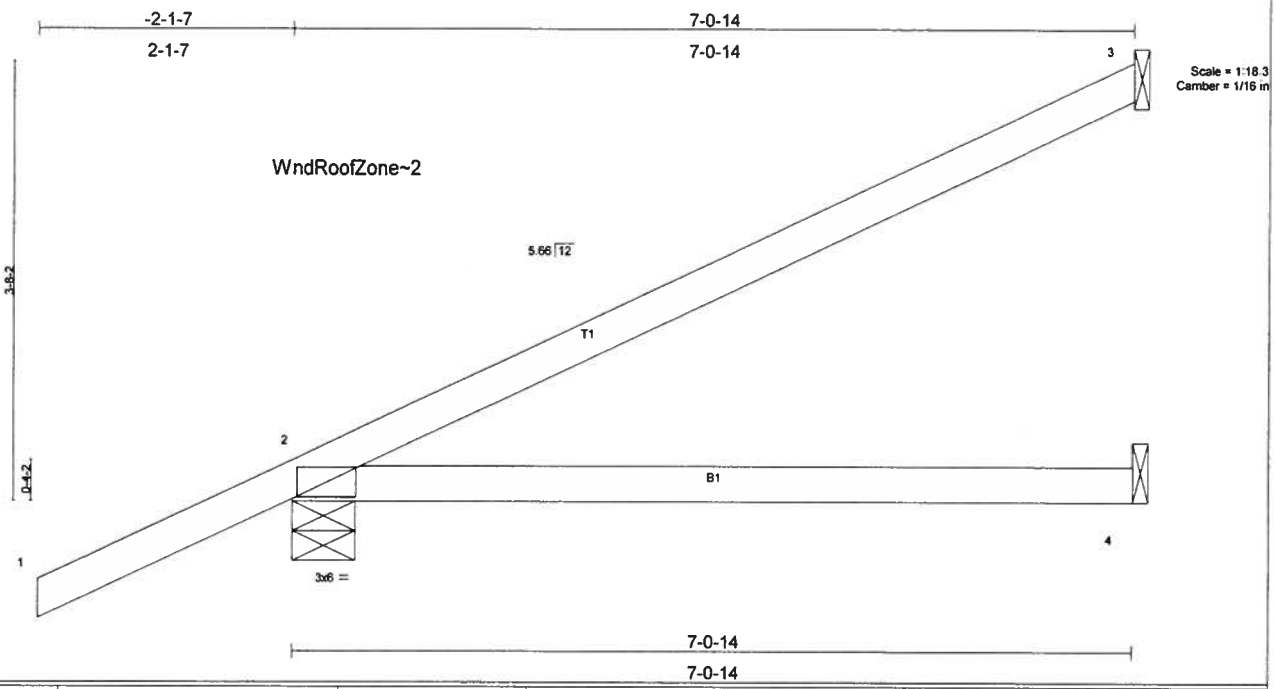
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-3(F=25, B=25)-to-4=-54(F=-0, B=-0), 2=0(F=15, B=15)-to-7=-23(F=4, B=4), 6=-23(F=4, B=4)-to-5=-30(F=-0, B=-0)

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071077

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	HJ7	MONO TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:05 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.10	2-4	>849	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0.16	2-4	>502	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=197/Mechanical, 2=327/0-6-6, 4=118/Mechanical
Max Horz 2=201(load case 4)
Max Uplift3=-174(load case 4), 2=-171(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-100/60
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 3 and 171 lb uplift at joint 2.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

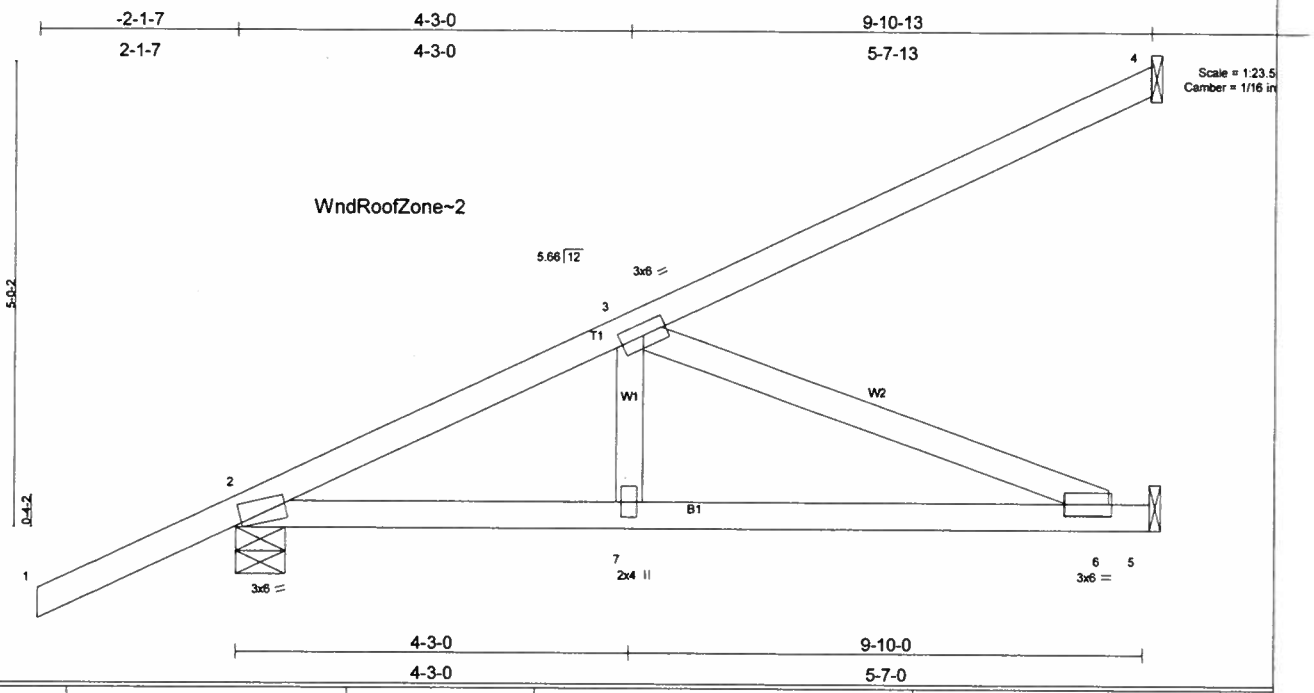
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-4(F=25, B=25)-to-3=-95(F=-21, B=-21), 2=0(F=15, B=15)-to-4=-53(F=-12, B=-12)

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071078

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	HJ9	MONO TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:10 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.10	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.17	6-7	>672	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.41	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 45 lb	

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

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

REACTIONS (lb/size) 4=266/Mechanical, 2=488/0-6-7, 5=386/Mechanical
Max Horz 2=343(load case 4)
Max Uplift4=-266(load case 4), 2=-187(load case 4), 5=-96(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-741/57, 3-4=-149/83
BOT CHORD 2-7=-330/657, 6-7=-330/657, 5-6=0/0
WEBS 3-7=0/210, 3-6=-705/355

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 4, 187 lb uplift at joint 2 and 96 lb uplift at joint 5.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

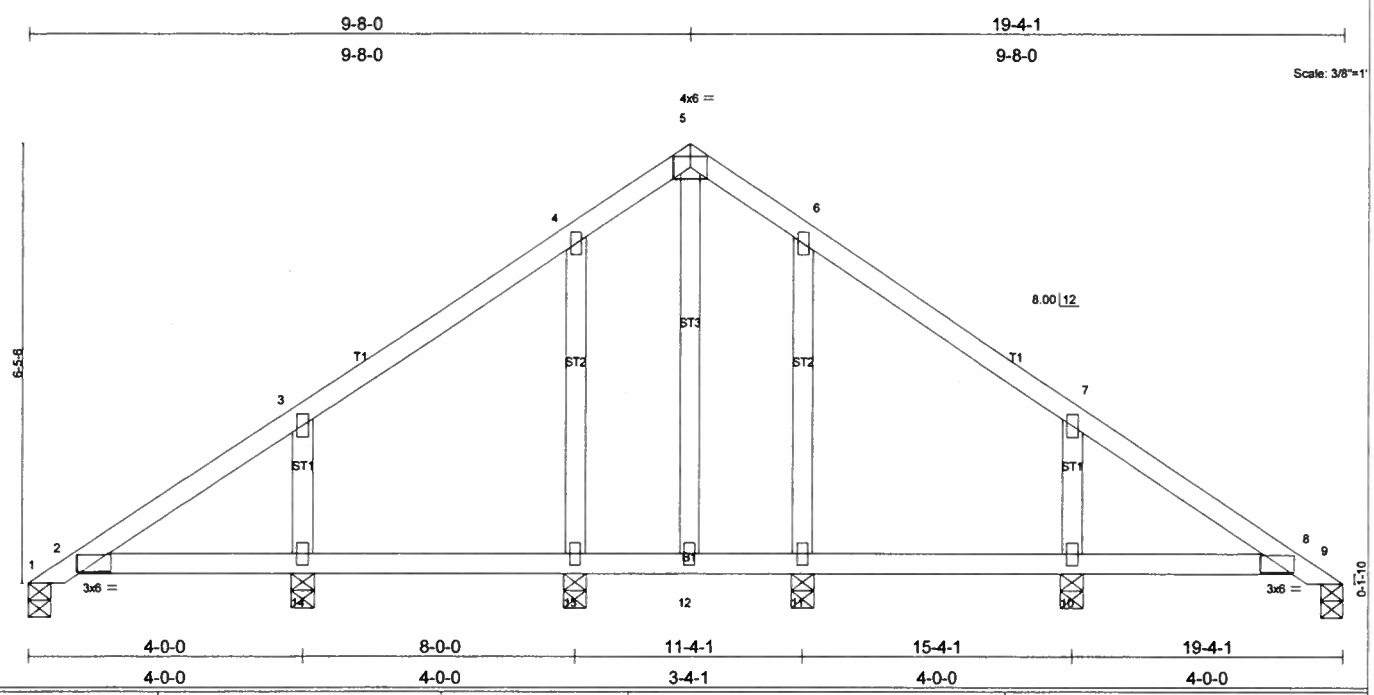
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-4(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=15, B=15)-to-5=-74(F=-22, B=-22)

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071079

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	PB01	VALLEY	5	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:15 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	-0.01	2-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	2-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.01	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 89 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 9=95/0-4-0, 1=95/0-4-0, 14=367/0-4-0, 13=325/0-4-0, 10=367/0-4-0, 11=325/0-4-0
Max Horz 9=220(load case 4)
Max Uplift9=-41(load case 4), 14=-218(load case 5), 13=-114(load case 5), 10=-224(load case 6), 11=-130(load case 6)
Max Grav 9=99(load case 10), 1=99(load case 9), 14=371(load case 9), 13=325(load case 1), 10=371(load case 10), 11=325(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-16/96, 6-7=-93/102, 7-8=-203/113, 8-9=-233/215, 1-2=-48/0, 2-3=-173/109, 3-4=-29/102, 4-5=-16/93
BOT CHORD 2-14=-37/198, 13-14=-37/198, 12-13=-37/198, 11-12=-37/198, 10-11=-37/198, 8-10=-37/198
WEBS 5-12=-57/0, 3-14=-230/233, 4-13=-200/169, 7-10=-230/236, 6-11=-200/177

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Bearing at joint(s) 9, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 9, 218 lb uplift at joint 14, 114 lb uplift at joint 13, 224 lb uplift at joint 10 and 130 lb uplift at joint 11.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

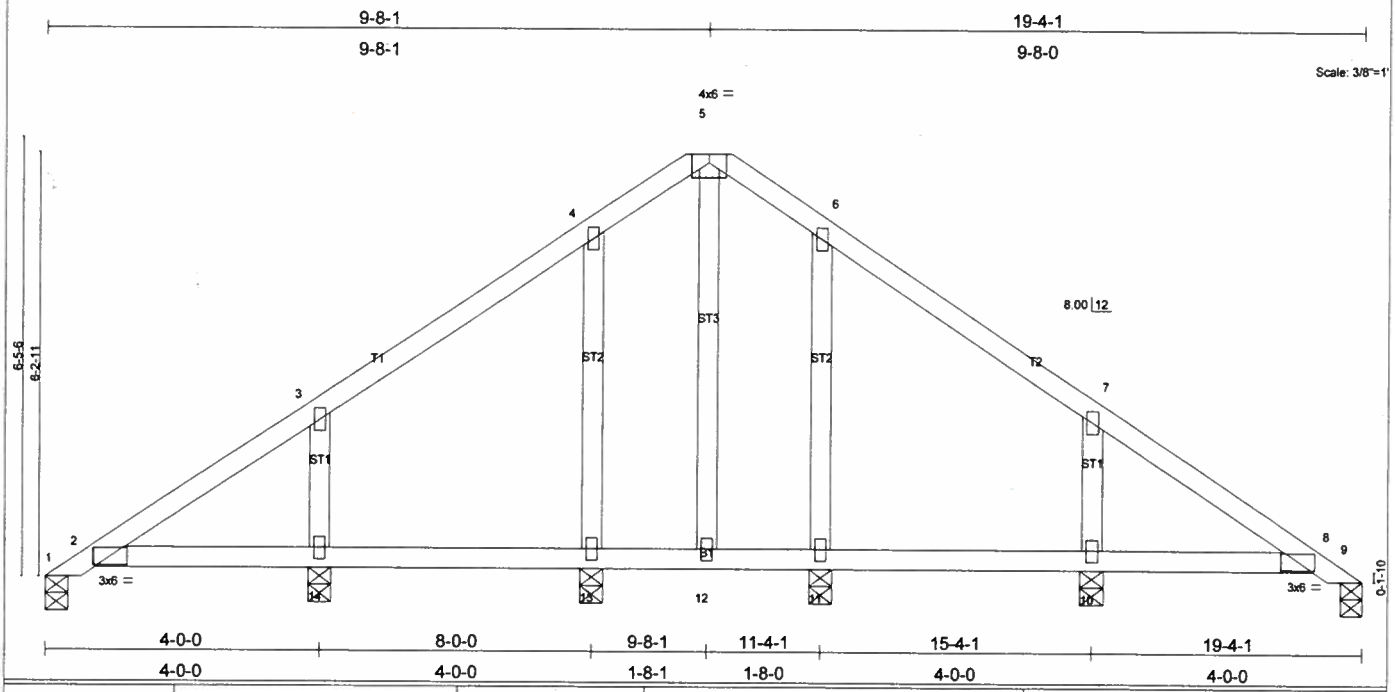
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071080

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	PB02	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:20 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	-0.01	2-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	2-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.01	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 89 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 9=95/0-4-0, 1=95/0-4-0, 14=367/0-4-0, 13=325/0-4-0, 10=367/0-4-0, 11=325/0-4-0
Max Horz 9=220(load case 4)
Max Uplift9=-41(load case 4), 14=-218(load case 5), 13=-113(load case 5), 10=-224(load case 6), 11=-130(load case 6)
Max Grav 9=99(load case 10), 1=99(load case 9), 14=371(load case 9), 13=325(load case 1), 10=371(load case 10), 11=325(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-16/96, 6-7=-93/102, 7-8=-203/113, 8-9=-233/215, 1-2=-48/0, 2-3=-173/109, 3-4=-29/102, 4-5=-16/93
BOT CHORD 2-14=-37/198, 13-14=-37/198, 12-13=-37/198, 11-12=-37/198, 10-11=-37/198, 8-10=-37/198
WEBS 5-12=-57/0, 3-14=-230/233, 4-13=-200/169, 7-10=-230/236, 6-11=-200/177

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Bearing at joint(s) 9, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 9, 218 lb uplift at joint 14, 113 lb uplift at joint 13, 224 lb uplift at joint 10 and 130 lb uplift at joint 11.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Dwg.#0220071081

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	PB03	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:26 2007 Page 1

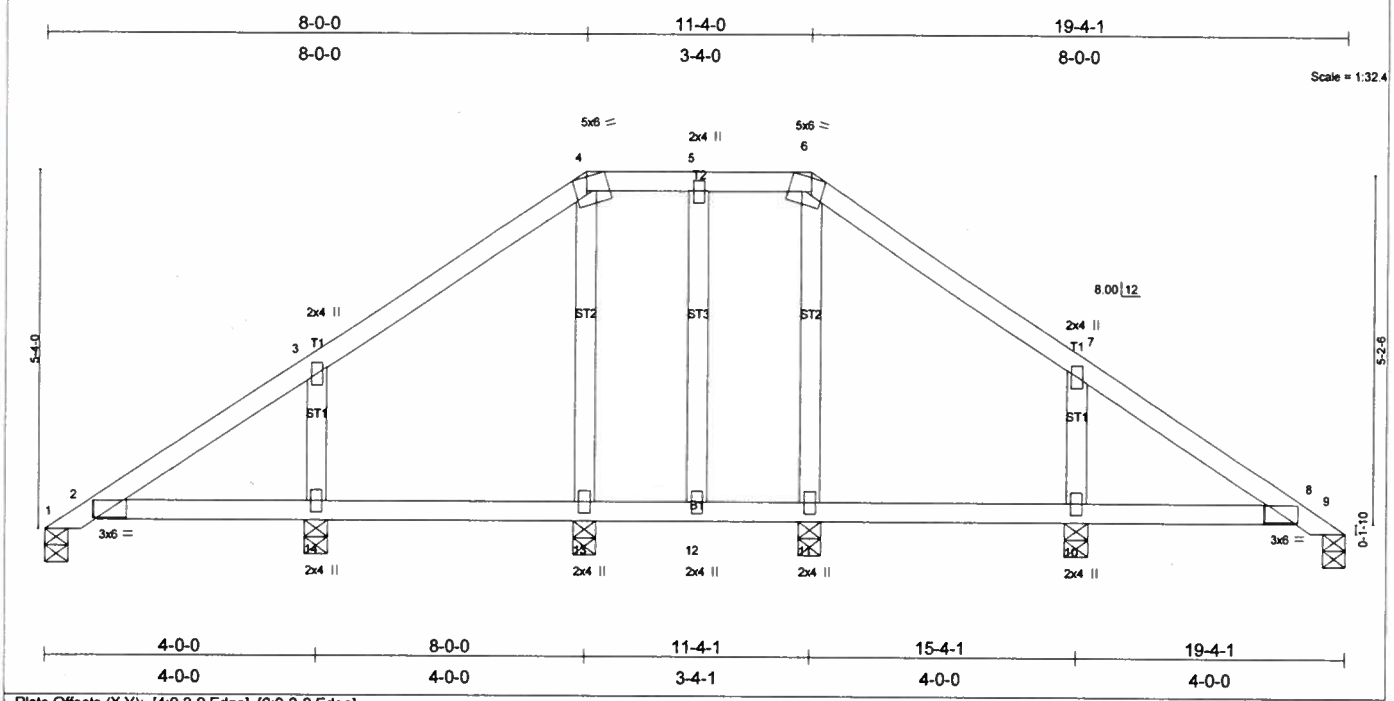


Plate Offsets (X,Y): [4:0-2-0,Edge], [6:0-2-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	-0.01	2-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	2-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(TL)	-0.01	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 87 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 9=75/0-4-0, 1=75/0-4-0, 14=366/0-4-0, 13=347/0-4-0, 10=366/0-4-0, 11=347/0-4-0
Max Horz 9=182(load case 4)
Max Uplift9=-56(load case 4), 1=-14(load case 5), 14=-225(load case 5), 13=-77(load case 4), 10=-229(load case 6), 11=-136(load case 3)
Max Grav 9=84(load case 10), 1=84(load case 9), 14=366(load case 9), 13=347(load case 1), 10=366(load case 10), 11=347(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 6-7=-52/145, 7-8=-150/152, 8-9=-188/190, 4-5=0/130, 5-6=0/130, 1-2=-40/11, 2-3=-72/152, 3-4=0/145
BOT CHORD 2-14=-73/112, 13-14=-73/112, 12-13=-73/112, 11-12=-73/112, 10-11=-73/112, 8-10=-73/112
WEBS 5-12=-27/38, 3-14=-228/234, 4-13=-236/82, 7-10=-228/237, 6-11=-236/139

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 9, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 9, 14 lb uplift at joint 1, 225 lb uplift at joint 14, 77 lb uplift at joint 13, 229 lb uplift at joint 10 and 136 lb uplift at joint 11.

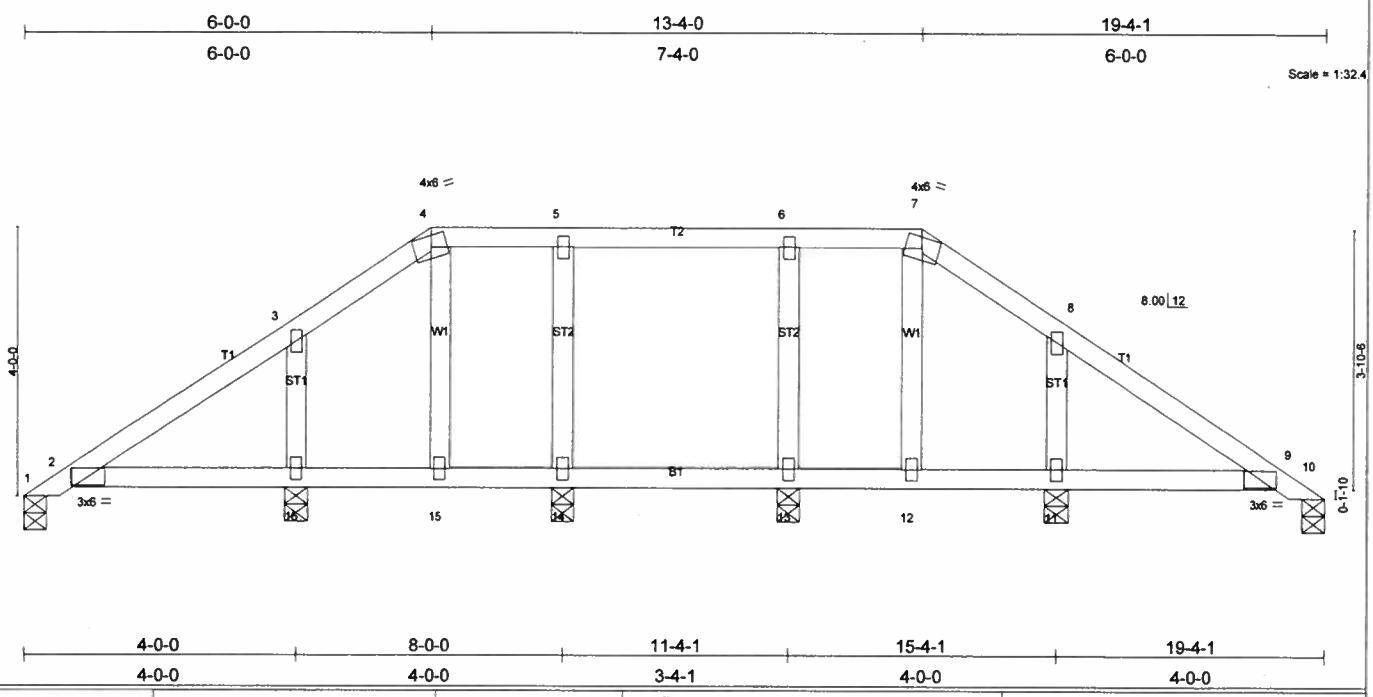
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071082

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	PB04	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:32 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.14	Vert(LL)	-0.01	2-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.01	2-16	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.01	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 84 lb	

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

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

REACTIONS (lb/size) 10=110/0-4-0, 1=110/0-4-0, 16=378/0-4-0, 14=300/0-4-0, 11=378/0-4-0, 13=300/0-4-0
Max Horz 10=-136(load case 3)
Max Uplift10=-27(load case 4), 1=-15(load case 5), 16=-181(load case 5), 14=-123(load case 4), 11=-193(load case 6), 13=-136(load case 3)
Max Grav 10=117(load case 10), 1=117(load case 9), 16=378(load case 1), 14=300(load case 1), 11=378(load case 1), 13=300(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-8=-60/72, 8-9=-99/97, 9-10=-131/135, 4-5=-2/61, 5-6=-2/61, 6-7=-2/61, 1-2=-57/12, 2-3=-76/74, 3-4=-60/60
BOT CHORD 2-16=-31/121, 15-16=-31/121, 14-15=-31/122, 13-14=-31/122, 12-13=-31/122, 11-12=-32/122, 9-11=-32/122
WEBS 3-16=-215/179, 5-14=-183/140, 8-11=-215/185, 6-13=-183/144, 4-15=-26/17, 7-12=-26/30

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 10, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 10, 15 lb uplift at joint 1, 181 lb uplift at joint 16, 123 lb uplift at joint 14, 193 lb uplift at joint 11 and 136 lb uplift at joint 13.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

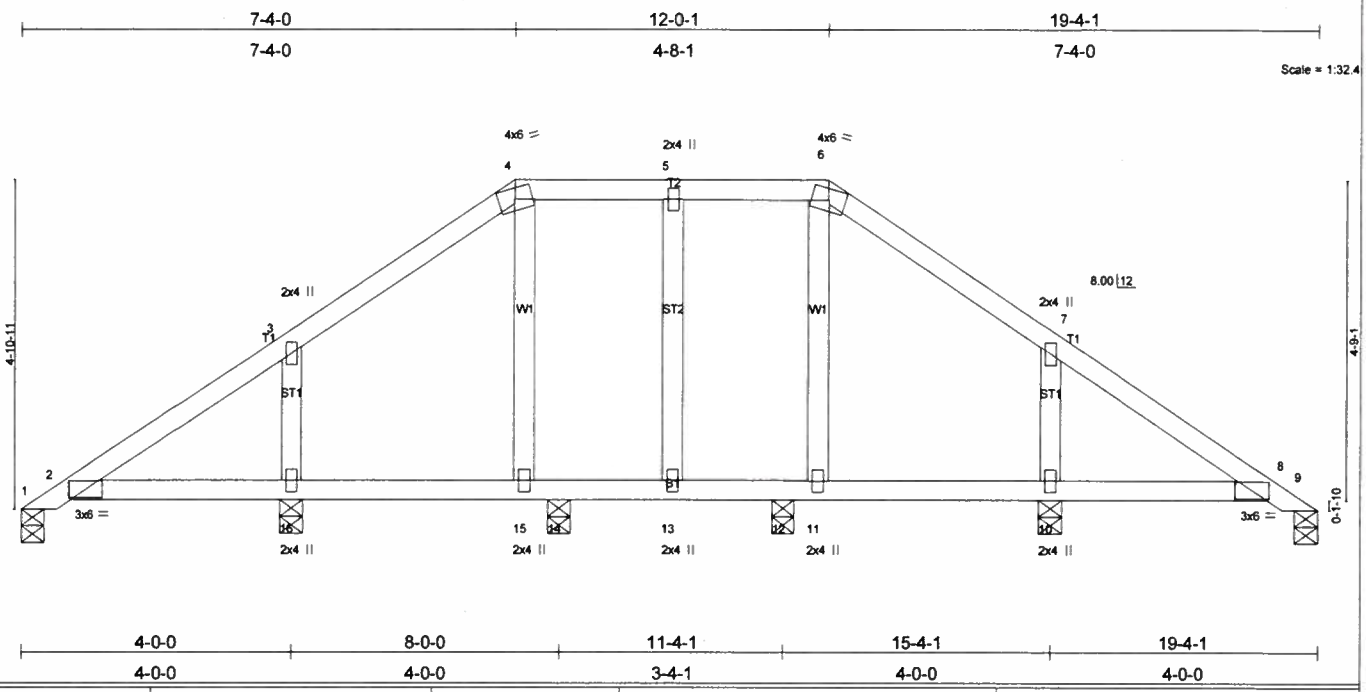
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071083

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	PB05	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:38 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.01	2-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	-0.01	2-16	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.01	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 84 lb	

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

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

REACTIONS (lb/size) 9=94/0-4-0, 1=94/0-4-0, 16=370/0-4-0, 10=370/0-4-0, 12=324/0-4-0, 14=324/0-4-0
Max Horz 9=166(load case 4)
Max Uplift9=-41(load case 4), 1=-17(load case 5), 16=-208(load case 5), 10=-216(load case 6), 12=-145(load case 3), 14=-104(load case 4)
Max Grav 9=100(load case 10), 1=100(load case 9), 16=370(load case 1), 10=370(load case 1), 12=326(load case 10), 14=326(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 6-7=-46/95, 7-8=-135/117, 8-9=-170/169, 4-5=-2/107, 5-6=-2/107, 1-2=-48/13, 2-3=-69/108, 3-4=-23/89
BOT CHORD 2-16=-38/113, 15-16=-38/113, 14-15=-44/115, 13-14=-44/115, 12-13=-44/115, 11-12=-44/115, 10-11=-38/114, 8-10=-38/114
WEBS 5-13=-119/95, 3-16=-213/212, 7-10=-213/215, 4-15=-171/82, 6-11=-171/122

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 9, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 9, 17 lb uplift at joint 1, 208 lb uplift at joint 16, 216 lb uplift at joint 10, 145 lb uplift at joint 12 and 104 lb uplift at joint 14.

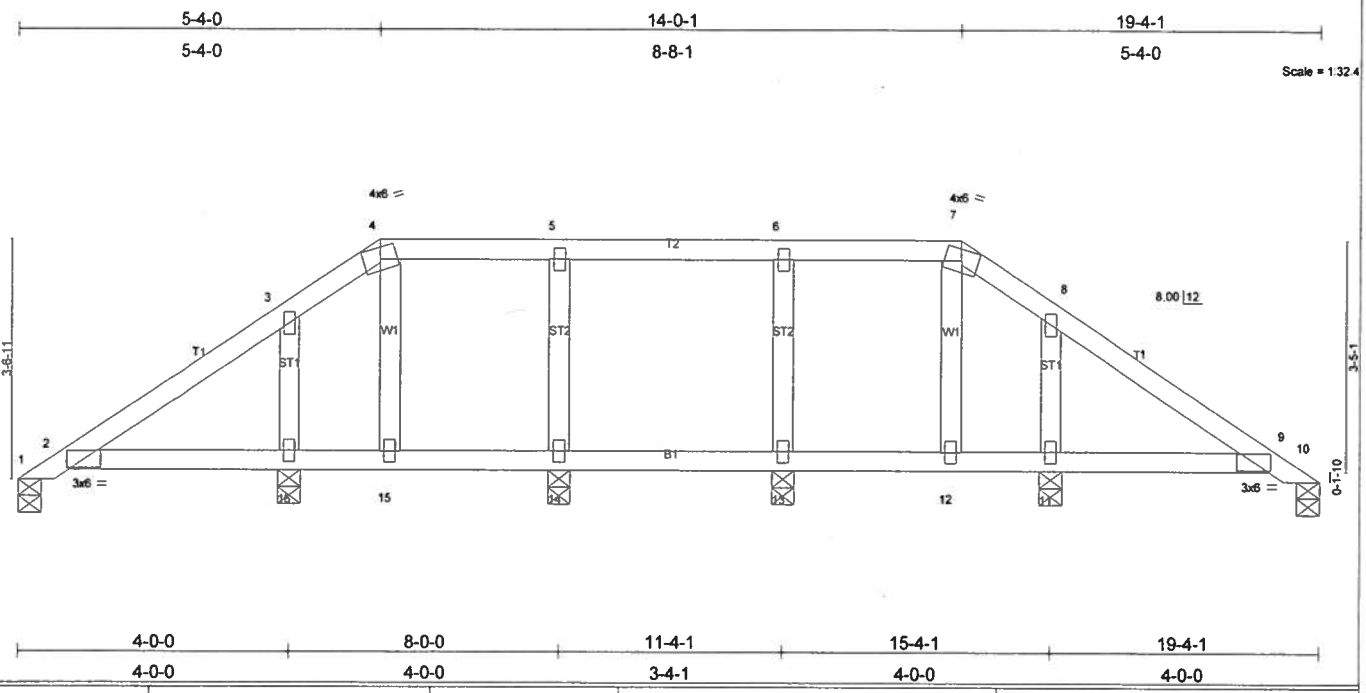
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071084

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	PB06	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:43 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.01	2-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.01	2-16	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	-0.01	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 81 lb	

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

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

REACTIONS (lb/size) 10=102/0-4-0, 1=102/0-4-0, 16=383/0-4-0, 14=302/0-4-0, 11=383/0-4-0, 13=302/0-4-0
Max Horz 10=-120(load case 3)
Max Uplift10=-27(load case 4), 1=-27(load case 4), 16=-169(load case 5), 14=-143(load case 3), 11=-182(load case 6), 13=-135(load case 4)
Max Grav 10=115(load case 10), 1=115(load case 9), 16=383(load case 1), 14=303(load case 10), 11=383(load case 1), 13=303(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-8=-55/80, 8-9=-96/106, 9-10=-109/122, 4-5=0/70, 5-6=0/71, 6-7=0/70, 1-2=-56/18, 2-3=-75/89, 3-4=-55/78
BOT CHORD 2-16=-41/121, 15-16=-41/121, 14-15=-40/122, 13-14=-40/122, 12-13=-40/122, 11-12=-42/121, 9-11=-42/121
WEBS 3-16=-214/164, 5-14=-189/154, 8-11=-214/171, 6-13=-189/150, 4-15=-29/26, 7-12=-29/31

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 10, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 10, 27 lb uplift at joint 1, 169 lb uplift at joint 16, 143 lb uplift at joint 14, 182 lb uplift at joint 11 and 135 lb uplift at joint 13.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Dwg.#0220071085

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	PB07	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:49 2007 Page 1

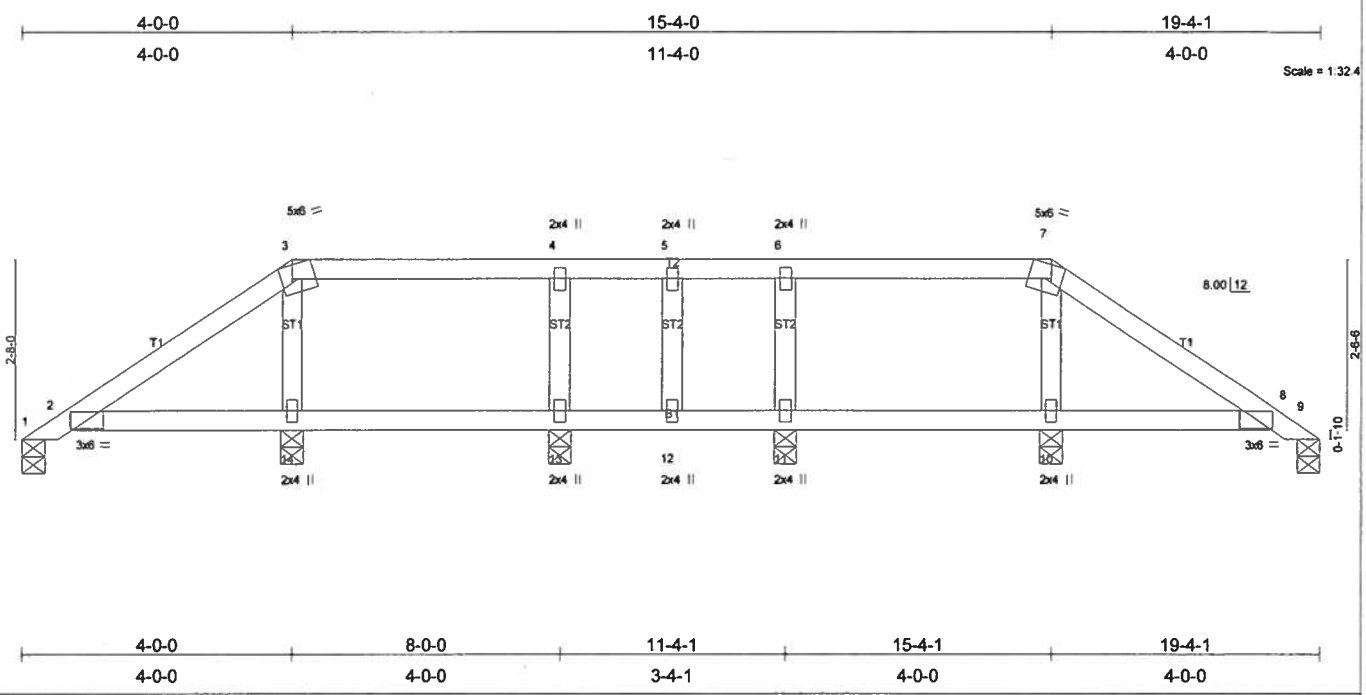


Plate Offsets (X,Y): [3:0-2-0,Edge], [7:0-2-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	-0.01	2-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	2-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.00	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 72 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 9=63/0-4-0, 1=63/0-4-0, 14=425/0-4-0, 13=299/0-4-0, 10=425/0-4-0, 11=299/0-4-0
Max Horz 9=-89(load case 3)
Max Uplift9=-20(load case 5), 1=-33(load case 4), 14=-138(load case 5), 13=-164(load case 3), 10=-154(load case 6), 11=-165(load case 4)
Max Grav 9=81(load case 10), 1=81(load case 9), 14=425(load case 1), 13=315(load case 10), 10=425(load case 1), 11=315(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-8=-73/176, 8-9=-79/87, 3-4=0/93, 4-5=0/93, 5-6=0/93, 6-7=0/93, 1-2=-39/21, 2-3=-53/176
BOT CHORD 2-14=-93/98, 13-14=-93/97, 12-13=-93/97, 11-12=-93/97, 10-11=-93/97, 8-10=-93/98
WEBS 5-12=-3/6, 3-14=-287/145, 4-13=-205/181, 7-10=-287/162, 6-11=-205/181

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 9, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 9, 33 lb uplift at joint 1, 138 lb uplift at joint 14, 164 lb uplift at joint 13, 154 lb uplift at joint 10 and 165 lb uplift at joint 11.

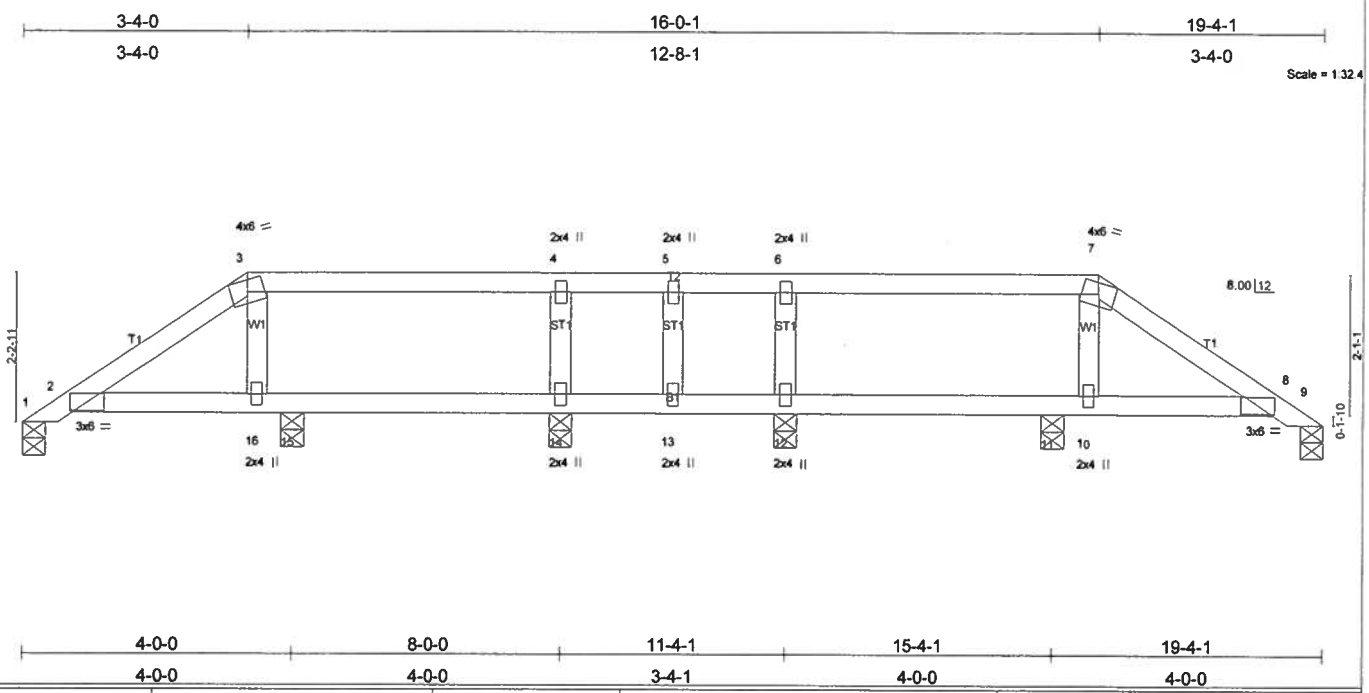
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071086

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	PB08	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:55 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	-0.01	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.02	8-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.01	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 68 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 2-16,8-10.

REACTIONS (lb/size) 9=120/0-4-0, 1=120/0-4-0, 14=305/0-4-0, 12=305/0-4-0, 11=362/0-4-0, 15=362/0-4-0
Max Horz 9=-74(load case 3)
Max Uplift9=-47(load case 6), 1=-57(load case 5), 14=-168(load case 3), 12=-170(load case 4), 11=-133(load case 3), 15=-105(load case 4)
Max Grav 9=126(load case 10), 1=126(load case 9), 14=319(load case 10), 12=319(load case 9), 11=362(load case 1), 15=362(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-8=-34/92, 8-9=-61/75, 3-4=-9/74, 4-5=-9/75, 5-6=-9/75, 6-7=-9/74, 1-2=-61/33, 2-3=-34/57
BOT CHORD 2-16=-53/35, 15-16=-47/44, 14-15=-47/44, 13-14=-47/44, 12-13=-47/44, 11-12=-47/44, 10-11=-47/44, 8-10=-59/37
WEBS 5-13=-27/41, 4-14=-240/204, 6-12=-240/203, 3-16=-237/129, 7-10=-237/155

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 9, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 9, 57 lb uplift at joint 1, 168 lb uplift at joint 14, 170 lb uplift at joint 12, 133 lb uplift at joint 11 and 105 lb uplift at joint 15.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Dwg.#0220071087

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	PB10	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:02:59 2007 Page 1

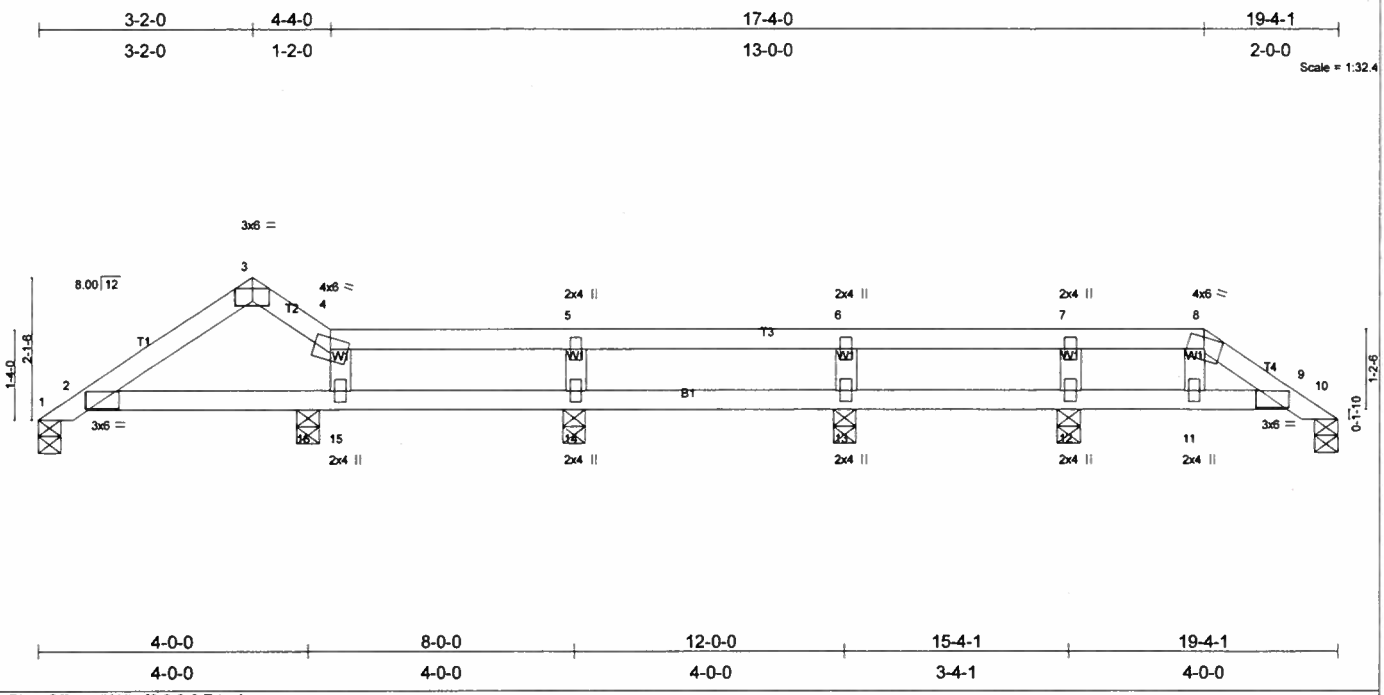


Plate Offsets (X,Y): [3:0-3-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.13	Vert(LL)	-0.01	11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.02	11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 62 lb	

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

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

REACTIONS (lb/size) 1=142/0-4-0, 10=133/0-4-0, 12=325/0-4-0, 13=289/0-4-0, 14=361/0-4-0, 16=325/0-4-0
Max Horz 1=70(load case 4)
Max Uplift1=-53(load case 5), 10=-47(load case 6), 12=-131(load case 6), 13=-147(load case 4), 14=-171(load case 4), 16=-92(load case 6)
Max Grav 1=143(load case 9), 10=133(load case 1), 12=336(load case 10), 13=289(load case 1), 14=367(load case 10), 16=325(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-70/55, 2-3=-114/51, 3-4=-117/76, 4-5=-55/35, 5-6=-54/35, 6-7=-54/35, 7-8=-54/35, 8-9=-76/29, 9-10=-65/28
BOT CHORD 2-16=-21/78, 15-16=-21/78, 14-15=-5/62, 13-14=-5/62, 12-13=-5/62, 11-12=-5/62, 9-11=-8/57
WEBS 8-11=-19/34, 7-12=-195/131, 6-13=-193/173, 5-14=-228/188, 4-15=-185/111

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 1, 47 lb uplift at joint 10, 131 lb uplift at joint 12, 147 lb uplift at joint 13, 171 lb uplift at joint 14 and 92 lb uplift at joint 16.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

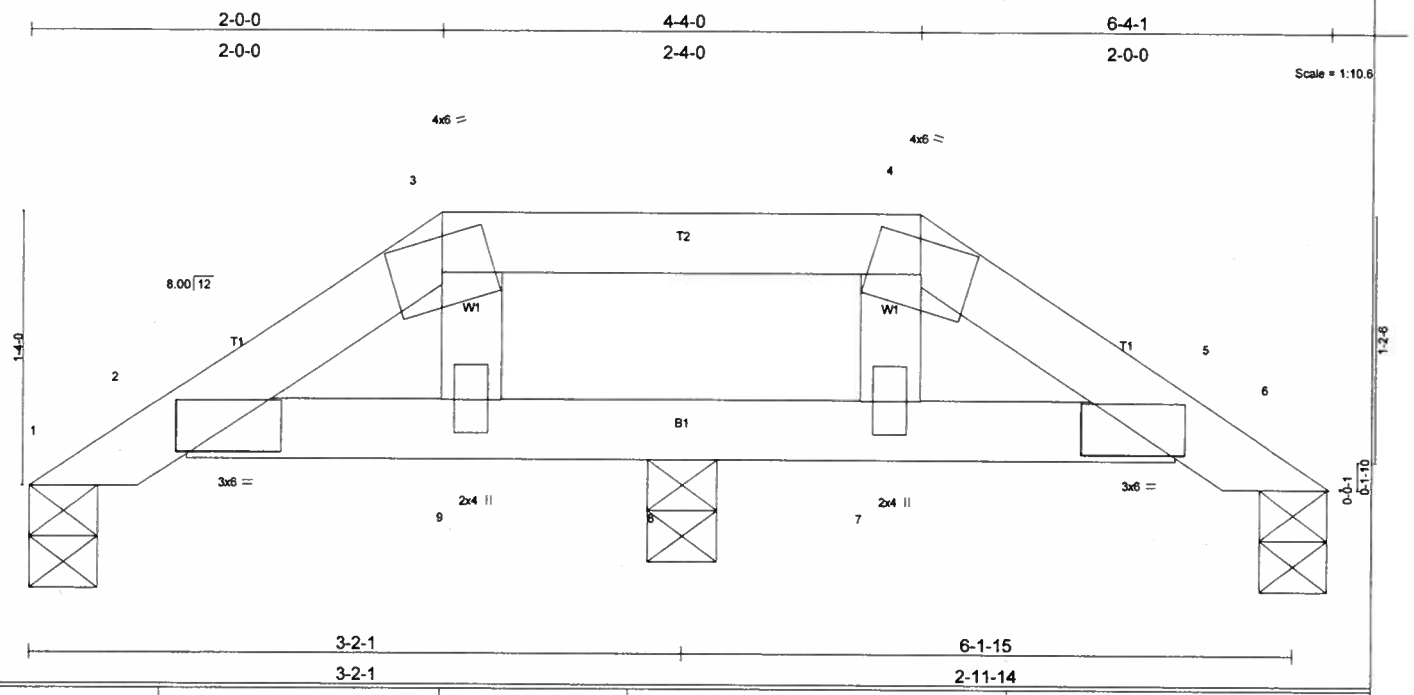
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071088

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	PB11	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:03:06 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.10	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	-0.01	2-9	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 lb	

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

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

REACTIONS (lb/size) 1=107/0-4-0, 8=269/0-4-0, 6=107/0-4-0
Max Horz 1=-43(load case 3)
Max Uplift1=-40(load case 5), 8=-68(load case 4), 6=-45(load case 6)
Max Grav 1=112(load case 9), 8=269(load case 1), 6=111(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-54/44, 2-3=-74/58, 3-4=-51/47, 4-5=-74/44, 5-6=-54/27
BOT CHORD 2-9=-47/66, 8-9=-37/51, 7-8=-37/51, 5-7=-44/66
WEBS 3-9=-100/65, 4-7=-101/58

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 1, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1, 68 lb uplift at joint 8 and 45 lb uplift at joint 6.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071089

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T01	HIP	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:03:11 2007 Page 1

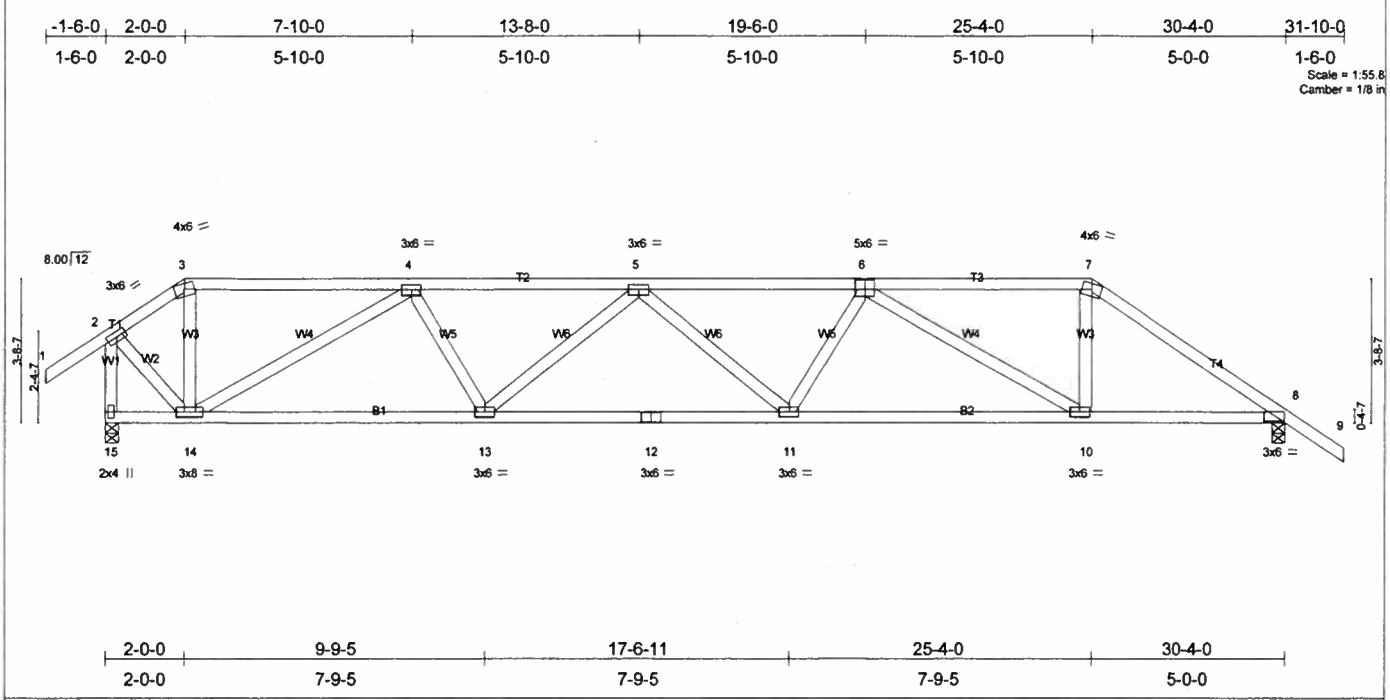


Plate Offsets (X,Y): [6:0-3-0,0-3-0], [8:0-6-3,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.20	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.61	Vert(TL)	-0.32	11-13	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.49	Horz(TL)	0.09	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 318 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 15=2209/0-4-0, 8=2145/0-4-0
Max Horz 15=187(load case 3)
Max Uplift15=-1198(load case 3), 8=-1121(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-1468/852, 3-4=-1250/805, 4-5=-4095/2367, 5-6=-4615/2666, 6-7=-2771/1617, 7-8=-3368/1867, 8-9=0/45, 2-15=-2262/1185
BOT CHORD 14-15=-148/80, 13-14=-2198/3596, 12-13=-2781/4652, 11-12=-2781/4652, 10-11=-2553/4371, 8-10=-1458/2706
WEBS 3-14=-75/403, 4-14=-2737/1690, 4-13=-365/1010, 5-13=-741/603, 5-11=-65/241, 6-11=-94/508, 6-10=-1913/1275, 7-10=-764/1507, 2-14=-1003/1857

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1198 lb uplift at joint 15 and 1121 lb uplift at joint 8.
7) Girder carries hip end with 5-0-0 right side setback, 0-0-0 left side setback, and 5-0-0 end setback.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 245 lb down and 187 lb up at 25-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-90(F=-36), 3-7=-90(F=-36), 7-9=-54, 10-15=-50(F=-20), 8-10=-30
Concentrated Loads (lb)
Vert: 10=-245(F)

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

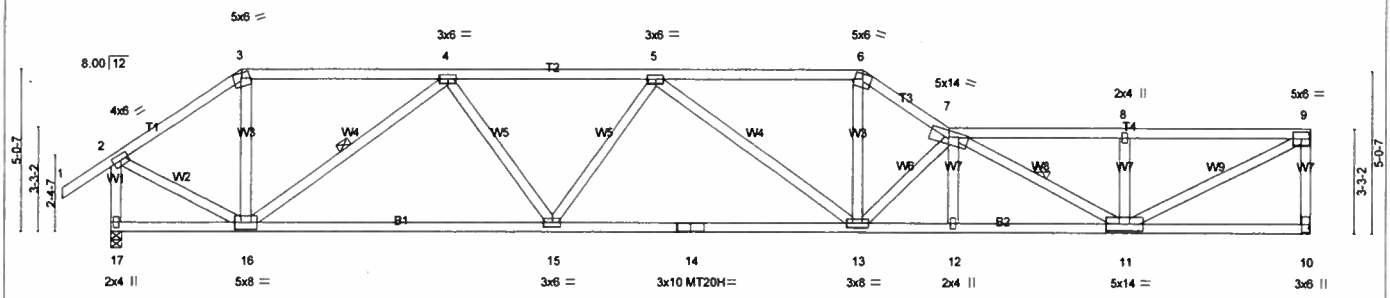
Dwg.#0220071090

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T02	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:03:16 2007 Page 1

-1-6-0	4-0-0	10-5-5	16-10-11	23-4-0	26-0-0	31-6-4	37-4-0
1-6-0	4-0-0	6-5-5	6-5-5	6-5-5	2-8-0	5-6-4	5-9-12

Scale = 1:67.7
Camber = 1/4 in



4-0-0	13-8-0	23-4-0	26-0-0	31-6-4	37-4-0
4-0-0	9-8-0	9-8-0	2-8-0	5-6-4	5-9-12

Plate Offsets (X,Y): [2:0-2-14,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	-0.42	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	-0.68	13-15	>654	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(TL)	0.13	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 212 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-13 oc bracing.
WEBS 1 Row at midpt 4-16, 7-11

REACTIONS (lb/size) 10=1488/Mechanical, 17=1635/0-4-0
Max Horz 17=183(load case 4)
Max Uplift10=-591(load case 3), 17=-605(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-1482/608, 3-4=-1209/552, 4-5=-2801/1156, 5-6=-2861/1080, 6-7=-3392/1269, 7-8=-2491/972, 8-9=-2491/972, 9-10=-1404/597, 2-17=-1617/608
BOT CHORD 16-17=-144/96, 15-16=-1094/2420, 14-15=-1274/2977, 13-14=-1274/2977, 12-13=-1504/3999, 11-12=-1503/4001, 10-11=-31/70
WEBS 3-16=-135/539, 4-16=-1534/707, 4-15=-140/684, 5-15=-320/215, 5-13=-320/233, 6-13=-555/1577, 7-13=-1720/629, 7-12=0/38, 7-11=-1713/644, 8-11=-298/251, 9-11=-1062/2732, 2-16=-514/1368

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 591 lb uplift at joint 10 and 605 lb uplift at joint 17.
7) Girder carries hip end with 0-0-0 right side setback, 26-0-0 left side setback, and 2-0-0 end setback.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 3-6=-54, 6-7=-54, 7-9=-50(F=5), 12-17=-30, 10-12=-27(F=2)

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

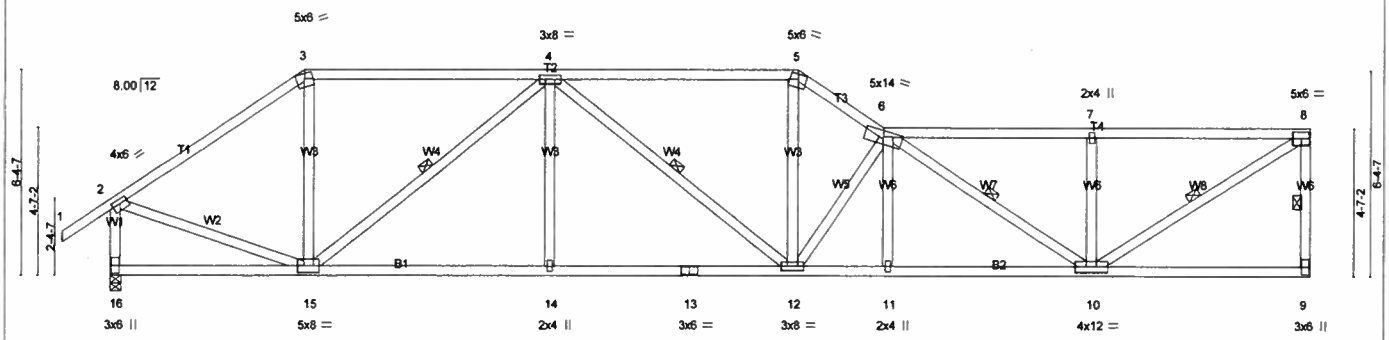
Dwg.#0220071091

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T03	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:03:22 2007 Page 1

1-6-0	6-0-0	13-8-0	21-4-0	24-0-0	30-6-4	37-4-0
1-6-0	6-0-0	7-8-0	7-8-0	2-8-0	6-6-4	6-9-12

Scale = 1:67.7
Camber = 3/16 in



6-0-0	13-8-0	21-4-0	24-0-0	30-6-4	37-4-0
6-0-0	7-8-0	7-8-0	2-8-0	6-6-4	6-9-12

Plate Offsets (X,Y): [2:0-3-0,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.27	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.70	Vert(TL)	-0.44	12-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.10	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 229 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-5 oc bracing.
WEBS 1 Row at midpt 8-9, 4-15, 4-12, 6-10, 8-10

REACTIONS (lb/size) 9=1554/Mechanical, 16=1647/0-4-0
Max Horz 16=245(load case 5)
Max Uplift9=-650(load case 4), 16=-558(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-1664/644, 3-4=-1329/595, 4-5=-2369/920, 5-6=-2824/1086, 6-7=-2053/839, 7-8=-2052/840, 8-9=-1454/661, 2-16=-1563/573
BOT CHORD 15-16=-240/127, 14-15=-967/2260, 13-14=-967/2260, 12-13=-967/2260, 11-12=-1199/3098, 10-11=-1198/3101, 9-10=-27/58
WEBS 3-15=-123/559, 4-15=-1239/526, 4-14=0/237, 4-12=-77/163, 5-12=-431/1240, 6-12=-1381/513, 6-11=0/106, 6-10=-1255/432, 7-10=-390/340, 8-10=-967/2374, 2-15=-497/1333

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 650 lb uplift at joint 9 and 558 lb uplift at joint 16.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

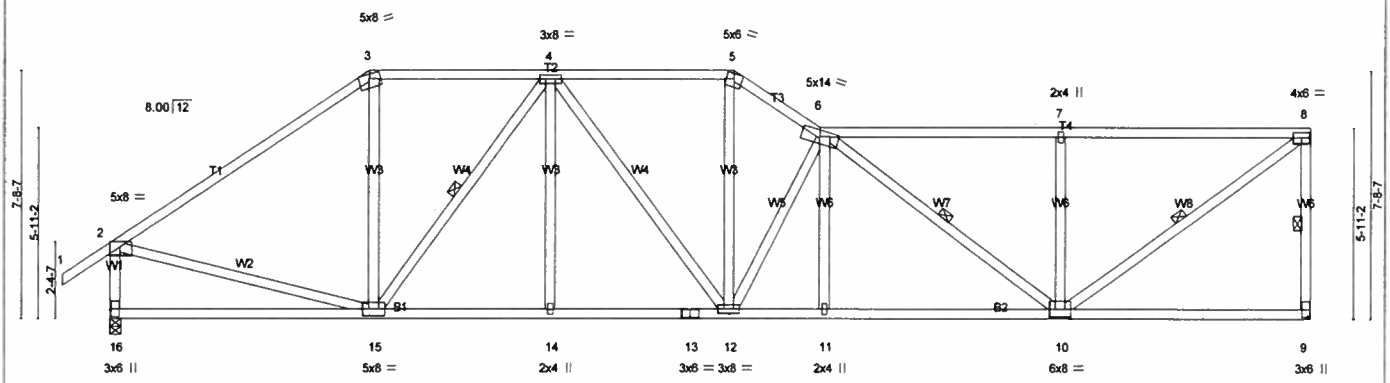
Dwg.#0220071092

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T04	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:03:28 2007 Page 1

-1-6-0	8-0-0	13-8-0	19-4-0	22-0-0	29-6-4	37-4-0
1-6-0	8-0-0	5-8-0	5-8-0	2-8-0	7-6-4	7-9-12

Scale = 1:67.7
Camber = 1/8 in



8-0-0	13-8-0	19-4-0	22-0-0	29-6-4	37-4-0
8-0-0	5-8-0	5-8-0	2-8-0	7-6-4	7-9-12

Plate Offsets (X,Y): [2:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	-0.22	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.63	Vert(TL)	-0.35	10-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.88	Horz(TL)	0.08	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 250 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-9 oc bracing.
WEBS 1 Row at midpt 8-9, 4-15, 6-10, 8-10

REACTIONS (lb/size) 9=1554/Mechanical, 16=1647/0-4-0
Max Horz 16=306(load case 5)
Max Uplift9=-657(load case 4), 16=-504(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-1739/615, 3-4=-1355/580, 4-5=-1960/755, 5-6=-2374/917, 6-7=-1757/725, 7-8=-1756/725, 8-9=-1442/671, 2-16=-1520/542
BOT CHORD 15-16=-361/176, 14-15=-760/1820, 13-14=-760/1820, 12-13=-760/1820, 11-12=-974/2510, 10-11=-974/2514, 9-10=-25/53
WEBS 3-15=-154/600, 4-15=-855/379, 4-14=0/158, 4-12=-49/262, 5-12=-415/1073, 6-12=-1277/491, 6-11=0/152, 6-10=-946/310, 7-10=-447/387, 8-10=-870/2114, 2-15=-417/1210

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 657 lb uplift at joint 9 and 504 lb uplift at joint 16.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071093

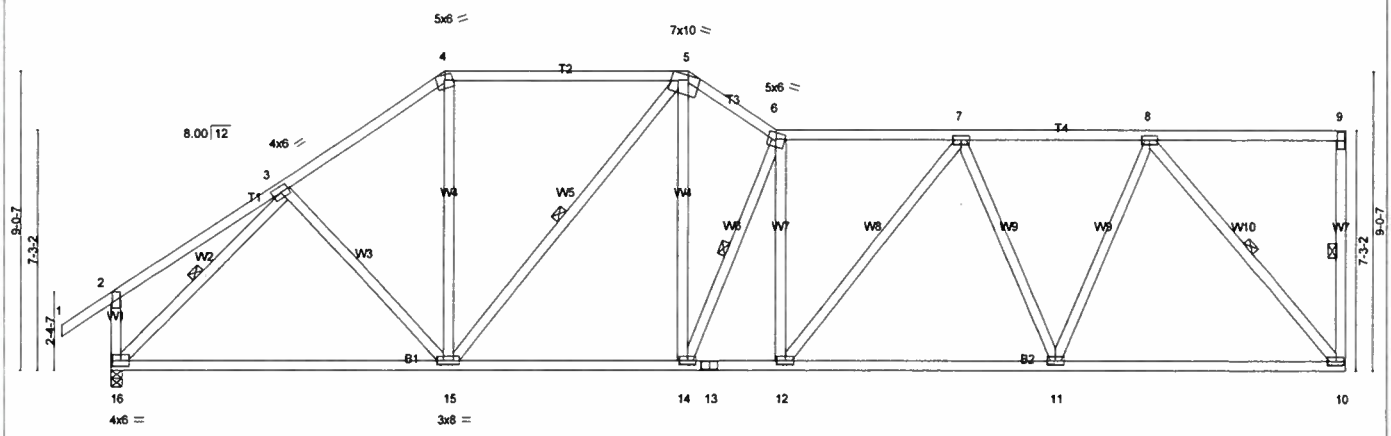
Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T05	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:03:33 2007 Page 1

-1-6-0 | 5-1-12 | 10-0-0 | 17-4-0 | 20-0-0 | 25-8-3 | 31-4-5 | 37-4-0

1-6-0 | 5-1-12 | 4-10-4 | 7-4-0 | 2-8-0 | 5-8-3 | 5-8-3 | 5-11-11

Scale = 1:65.9
Camber = 1/8 in



10-0-0 | 17-4-0 | 20-0-0 | 28-6-4 | 37-4-0

10-0-0 | 7-4-0 | 2-8-0 | 8-6-4 | 8-9-12

Plate Offsets (X,Y): [5:0-4-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.87	Vert(LL)	-0.20	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.34	15-16	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(TL)	0.09	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 261 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-2 oc bracing.
WEBS 1 Row at midpt 9-10, 5-15, 6-14, 8-10, 3-16

REACTIONS (lb/size) 10=1554/Mechanical, 16=1647/0-4-0
Max Horz 16=368(load case 5)
Max Uplift10=-664(load case 4), 16=-505(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-271/194, 3-4=-1660/587, 4-5=-1340/542, 5-6=-1985/750, 6-7=-2072/792, 7-8=-1501/597, 8-9=-33/8, 9-10=-149/119, 2-16=-347/287
BOT CHORD 15-16=-560/1193, 14-15=-649/1665, 13-14=-795/2076, 12-13=-795/2076, 11-12=-738/1782, 10-11=-480/1107
WEBS 3-15=-171/300, 4-15=-104/527, 5-15=-586/234, 5-14=-354/1165, 6-14=-1145/403, 6-12=-185/152, 7-12=-148/466, 7-11=-745/374, 8-11=-309/1045, 8-10=-1674/736, 3-16=-1549/436

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 664 lb uplift at joint 10 and 505 lb uplift at joint 16.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

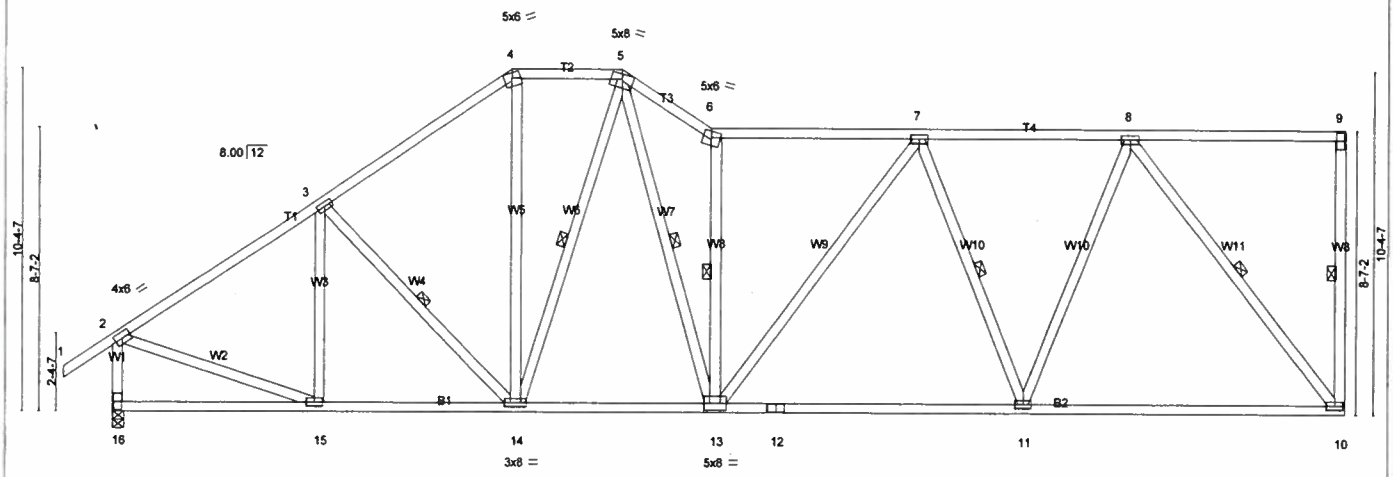
Dwg.#0220071094

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T06	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:03:38 2007 Page 1

-1-6-0	6-1-12	12-0-0	15-4-0	18-0-0	24-4-3	30-8-5	37-4-0
1-6-0	6-1-12	5-10-4	3-4-0	2-8-0	6-4-3	6-4-3	6-7-11

Scale = 1:65.9
Camber = 1/8 in



6-1-12	12-0-0	18-0-0	27-6-4	37-4-0
6-1-12	5-10-4	6-0-0	9-6-4	9-9-12

Plate Offsets (X,Y): [2:0-2-14,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.23	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.38	11-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(TL)	0.07	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 276 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-1 oc bracing.
WEBS 1 Row at midpt 9-10, 3-14, 5-14, 5-13, 6-13, 7-11, 8-10

REACTIONS (lb/size) 10=1554/Mechanical, 16=1647/0-4-0
Max Horz 16=429(load case 5)
Max Uplift10=-669(load case 4), 16=-511(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-1654/479, 3-4=-1606/540, 4-5=-1268/512, 5-6=-2189/831, 6-7=-1757/667, 7-8=-1359/540, 8-9=-32/7, 9-10=-165/131, 2-16=-1555/526
BOT CHORD 15-16=-420/118, 14-15=-605/1301, 13-14=-528/1383, 12-13=-660/1585, 11-12=-660/1585, 10-11=-446/1015
WEBS 3-15=-257/122, 3-14=-144/216, 4-14=-139/579, 5-14=-485/208, 5-13=-557/1482, 6-13=-1429/595, 7-13=-134/328, 7-11=-631/335, 8-11=-264/964, 8-10=-1595/712, 2-15=-239/1292

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 669 lb uplift at joint 10 and 511 lb uplift at joint 16.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071095

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T07	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:03:44 2007 Page 1

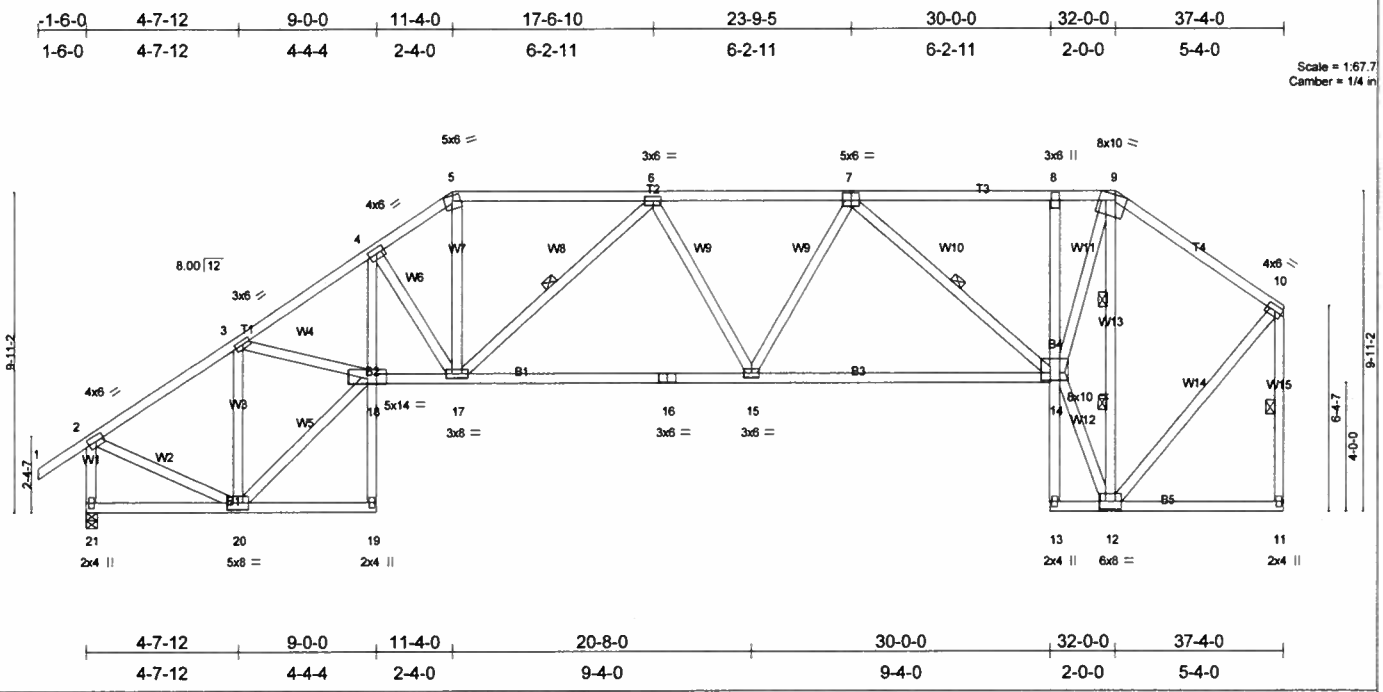


Plate Offsets (X,Y): [2:0-2-14,0-2-0], [7:0-3-0,0-3-0], [9:0-4-0,Edge], [14:0-3-6,0-2-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.36	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.60	14-15	>744	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.88	Horz(TL)	0.52	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 282 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-0 oc bracing.
WEBS 1 Row at midpt 6-17, 7-14, 10-11
2 Rows at 1/3 pts 9-12

REACTIONS (lb/size) 21=1647/0-4-0, 11=1554/Mechanical
Max Horz 21=354(load case 5)
Max Uplift21=-520(load case 5), 11=-499(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-1518/500, 3-4=-3275/1393, 4-5=-2637/1141, 5-6=-2221/1004, 6-7=-2548/1098, 7-8=-1623/643, 8-9=-1572/630, 9-10=-981/359, 2-21=-1573/532, 10-11=-1479/510
BOT CHORD 20-21=-323/157, 19-20=-8/34, 18-19=0/68, 4-18=-461/896, 17-18=-1246/2646, 16-17=-1184/2558, 15-16=-1184/2558, 14-15=-1071/2374, 13-14=-23/0, 8-14=-216/246, 12-13=-25/8, 11-12=-14/25
WEBS 3-20=-1574/759, 18-20=-834/1634, 3-18=-669/1508, 4-17=-826/504, 5-17=-431/1165, 6-17=-561/442, 6-15=-38/151, 7-15=-83/377, 7-14=-1021/554, 12-14=-603/1799, 9-14=-1216/2730, 9-12=-2337/918, 2-20=-325/1281, 10-12=-427/1108

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 520 lb uplift at joint 21 and 499 lb uplift at joint 11.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ. FL 33549

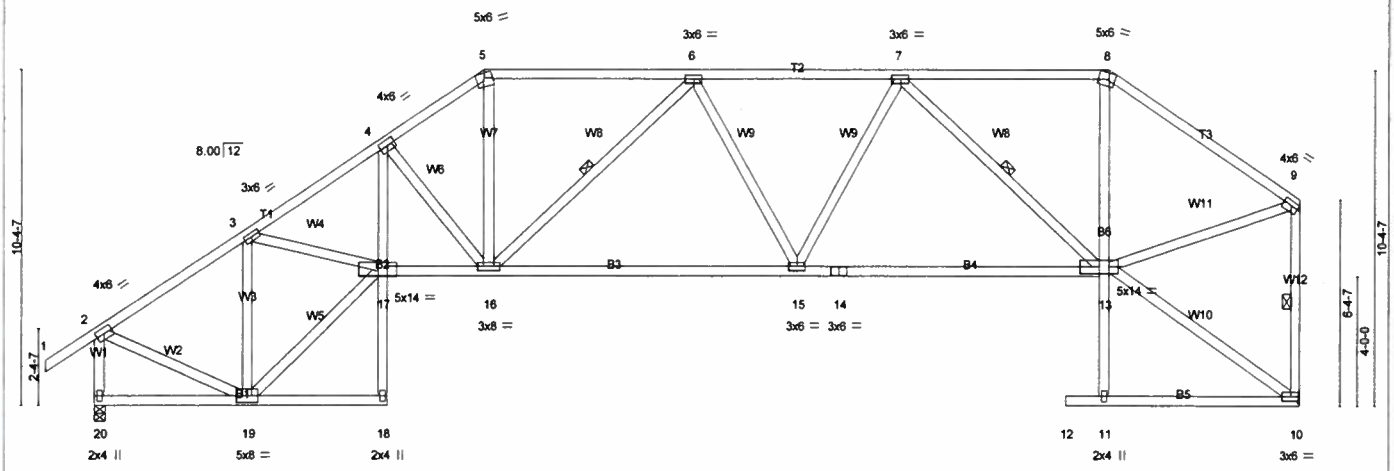
Dwg.#0220071096

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T08	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:03:49 2007 Page 1

1-6-0	4-7-12	9-0-0	12-0-0	18-5-5	24-10-11	31-4-0	37-4-0
1-6-0	4-7-12	4-4-4	3-0-0	6-5-6	6-5-6	6-5-6	6-0-0

Scale = 1:67.4
Camber = 3/16 in



4-7-12	9-0-0	12-0-0	21-8-0	30-0-0	31-4-0	37-4-0
4-7-12	4-4-4	3-0-0	9-8-0	8-4-0	1-4-0	6-0-0

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [8:0-2-0,Edge], [9:Edge,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.31	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.79	Vert(TL)	-0.51	15-16	>878	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(TL)	0.34	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 267 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3, B6 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-3 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 5-8-7 oc bracing.
WEBS 1 Row at midpt 6-16, 7-13, 9-10

REACTIONS (lb/size) 20=1653/0-4-0, 10=1583/Mechanical
Max Horz 20=360(load case 5)
Max Uplift20=-523(load case 5), 10=-463(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-1525/477, 3-4=-3296/1354, 4-5=-2550/1066, 5-6=-2137/940, 6-7=-2349/968, 7-8=-1378/507, 8-9=-1696/553, 2-20=-1580/535, 9-10=-1513/481
BOT CHORD 19-20=-330/173, 18-19=-8/33, 17-18=0/68, 4-17=-450/909, 16-17=-1232/2670, 15-16=-1078/2401, 14-15=-921/2139, 13-14=-921/2139, 11-13=0/125, 8-13=-195/601, 11-12=0/0, 10-11=-11/2
WEBS 3-19=-1583/747, 17-19=-829/1643, 3-17=-657/1521, 4-16=-876/529, 5-16=-384/1107, 6-16=-480/411, 6-15=-128/203, 7-15=-130/467, 7-13=-1097/611, 2-19=-304/1287, 9-13=-502/1396, 10-13=-22/46

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 523 lb uplift at joint 20 and 463 lb uplift at joint 10.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

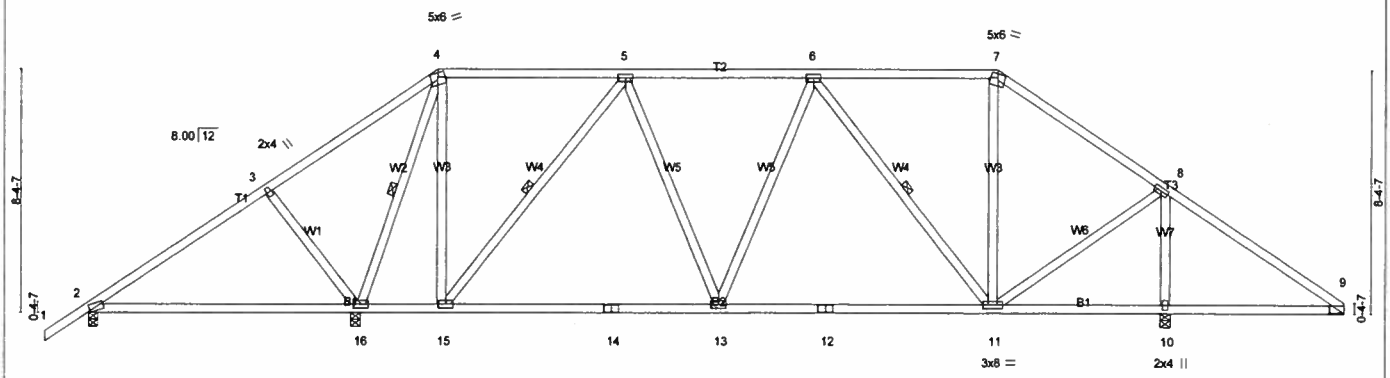
Dwg.#0220071097

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T09	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:03:55 2007 Page 1

1-6-0	6-2-7	12-0-0	18-5-5	24-10-11	31-4-0	37-2-0	43-4-0
1-6-0	6-2-7	5-9-9	6-5-6	6-5-6	6-5-6	5-10-0	6-2-0

Scale = 1:75.1
Camber = 1/8 in



9-2-0	12-0-0	21-8-0	31-4-0	37-2-0	43-4-0
9-2-0	2-10-0	9-8-0	9-8-0	5-10-0	6-2-0

Plate Offsets (X,Y): [2:0-0-12,Edge], [9:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	0.29	2-16	>377	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	0.22	2-16	>494	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.49	Horz(TL)	0.03	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 253 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-16, 5-15, 6-11

REACTIONS (lb/size) 2=367/0-4-0, 16=1640/0-4-0, 10=1709/0-4-0
Max Horz 2=302(load case 4)
Max Uplift2=-260(load case 5), 16=-814(load case 4), 10=-680(load case 6)
Max Grav 2=375(load case 9), 16=1640(load case 1), 10=1711(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-148/95, 3-4=-134/255, 4-5=-281/174, 5-6=-871/474, 6-7=-539/359, 7-8=-735/372, 8-9=-292/476
BOT CHORD 2-16=-118/232, 15-16=-145/267, 14-15=-386/763, 13-14=-386/763, 12-13=-413/855, 11-12=-413/855, 10-11=-306/296, 9-10=-306/296
WEBS 3-16=-301/325, 4-16=-1246/481, 4-15=-252/778, 5-15=-797/459, 5-13=-46/291, 6-13=0/107, 6-11=-514/326, 7-11=-14/148, 8-11=-317/1025, 8-10=-1504/601

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; cantilever right exposed ; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 2, 814 lb uplift at joint 16 and 680 lb uplift at joint 10.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

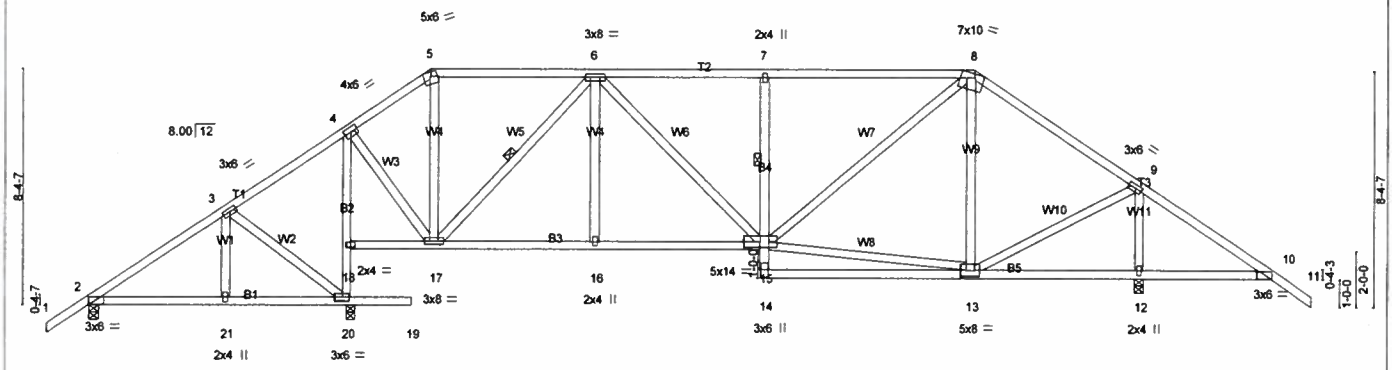
Dwg.#0220071098

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T10	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:00 2007 Page 1

1-6-0	4-9-7	9-2-0	12-0-0	17-10-0	23-8-0	31-4-0	37-2-0	43-4-0
1-6-0	4-9-7	4-4-9	2-10-0	5-10-0	5-10-0	7-8-0	5-10-0	6-2-0

Scale = 1:77.1



9-2-0	11-4-0	17-10-0	23-8-0	31-4-0	37-2-0	43-4-0
9-2-0	2-2-0	5-10-0	5-10-0	7-8-0	5-10-0	6-2-0

12-0-0

0-8-0

Plate Offsets (X,Y): [2:0-3-9,0-1-8], [8:0-4-0,Edge], [10:0-3-6,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.09	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.15	13-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(TL)	0.02	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 267 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (5-1-12 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-11-5 oc bracing: 16-17
8-10-8 oc bracing: 15-16.
1 Row at midpt 7-15
WEBS 1 Row at midpt 6-17
JOINTS 1 Brace at Jt(s): 18

REACTIONS (lb/size) 2=413/0-4-0, 20=1639/0-4-0, 12=1689/0-4-0
Max Horz 2=281(load case 4)
Max Uplift2=-358(load case 6), 20=-756(load case 4), 12=-736(load case 6)
Max Grav 2=414(load case 9), 20=1640(load case 9), 12=1689(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-326/441, 3-4=-146/321, 4-5=-606/406, 5-6=-480/349, 6-7=-1263/703, 7-8=-1267/710, 8-9=-879/441, 9-10=-413/511, 10-11=0/43
BOT CHORD 2-21=-244/212, 20-21=-244/212, 19-20=0/0, 18-20=-1301/567, 4-18=-1251/567, 17-18=-82/32, 16-17=-505/1105, 15-16=-505/1105, 14-15=0/114, 7-15=-385/336, 13-14=-1/124, 12-13=-359/447, 10-12=-359/447
WEBS 4-17=-396/915, 5-17=-89/97, 6-17=-921/421, 6-16=0/196, 6-15=-93/225, 13-15=-236/543, 8-15=-432/782, 8-13=-414/260, 3-21=-174/151, 3-20=-352/320, 9-13=-440/1158, 9-12=-1511/708

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; cantilever right exposed ; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 358 lb uplift at joint 2, 756 lb uplift at joint 20 and 736 lb uplift at joint 12.
5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

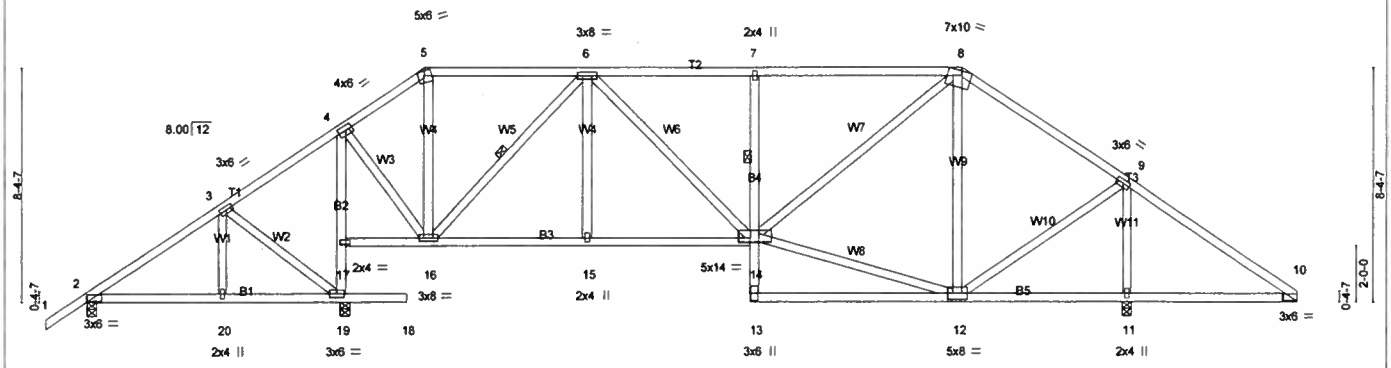
Dwg.#0220071099

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T11	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:06 2007 Page 1

1-6-0	4-9-7	9-2-0	12-0-0	17-10-0	23-8-0	31-4-0	37-2-0	43-4-0
1-6-0	4-9-7	4-4-9	2-10-0	5-10-0	5-10-0	7-8-0	5-10-0	6-2-0

Scale = 1:78.0
Camber = 1/16 in



12-0-0							
4-9-7	9-2-0	11-4-0	17-10-0	23-8-0	31-4-0	37-2-0	43-4-0
4-9-7	4-4-9	2-2-0	5-10-0	5-10-0	7-8-0	5-10-0	6-2-0
		0-8-0					

Plate Offsets (X,Y): [2:0-3-9,0-1-8], [8:0-4-0,Edge], [10:0-3-9,0-1-8], [14:0-5-1,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.10	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.17	12-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(TL)	0.03	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 275 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (5-2-4 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 7-14
WEBS 1 Row at midpt 6-16
JOINTS 1 Brace at Jt(s): 17

REACTIONS (lb/size) 2=412/0-4-0, 19=1632/0-4-0, 11=1741/0-4-0
Max Horz 2=302(load case 4)
Max Uplift2=-361(load case 5), 19=-773(load case 4), 11=-734(load case 6)
Max Grav 2=413(load case 9), 19=1633(load case 9), 11=1741(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-324/424, 3-4=-170/304, 4-5=-599/411, 5-6=-474/353, 6-7=-1241/703, 7-8=-1244/712, 8-9=-757/416, 9-10=-294/474
BOT CHORD 2-20=-246/211, 19-20=-246/211, 18-19=0/0, 17-19=-1294/584, 4-17=-1243/584, 16-17=-84/33, 15-16=-517/1092, 14-15=-517/1092, 13-14=0/112, 7-14=-386/336, 12-13=0/57, 11-12=-306/298, 10-11=-306/298
WEBS 3-20=-174/151, 3-19=-352/321, 4-16=-410/909, 5-16=-89/93, 6-16=-910/418, 6-15=0/197, 6-14=-92/212, 12-14=-231/514, 8-14=-474/890, 8-12=-540/310, 9-12=-336/1052, 9-11=-1522/653

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; cantilever right exposed ; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 361 lb uplift at joint 2, 773 lb uplift at joint 19 and 734 lb uplift at joint 11.
5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

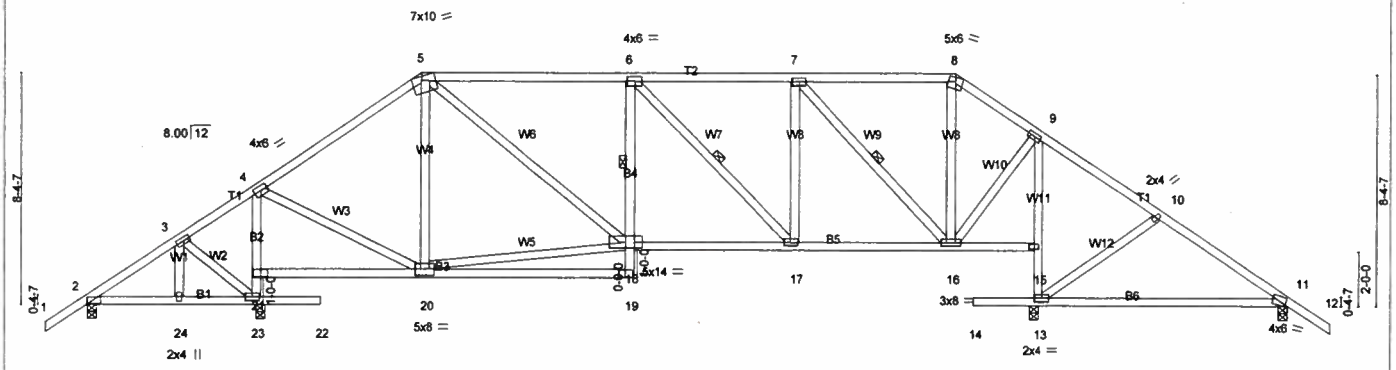
Dwg.#0220071100

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T12	SPECIAL	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:12 2007 Page 1

1-6-0	3-3-7	6-2-0	12-0-0	19-8-0	25-6-0	31-4-0	34-2-0	38-6-9	43-4-0	44-10-0
1-6-0	3-3-7	2-10-9	5-10-0	7-8-0	5-10-0	5-10-0	2-10-0	4-4-9	4-9-7	1-6-0

Scale = 1:78.6
Camber = 1/8 in



3-3-7	6-2-0	8-4-0	12-0-0	19-8-0	25-6-0	31-4-0	32-0-0	43-4-0
3-3-7	2-10-9	2-2-0	3-8-0	7-8-0	5-10-0	5-10-0	0-8-0	9-2-0

34-2-0
2-2-0

Plate Offsets (X,Y): [2:0-3-9,0-1-8], [5:0-4-0,Edge], [11:0-1-1,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	0.39	11-13	>270	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	0.32	11-13	>332	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(TL)	0.02	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 280 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-6 oc purlins, except 2-0-0 oc purlins (5-0-7 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 6-18
WEBS 1 Row at midpt 6-17, 7-16
JOINTS 1 Brace at Jt(s): 15

REACTIONS (lb/size) 2=233/0-4-0, 11=446/0-4-0, 23=1623/0-4-0, 13=1629/0-4-0
Max Horz 2=285(load case 4)
Max Uplift2=-293(load case 6), 11=-482(load case 6), 23=-670(load case 4), 13=-550(load case 3)
Max Grav 2=234(load case 9), 11=447(load case 10), 23=1623(load case 1), 13=1629(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-115/351, 3-4=-190/284, 4-5=-1015/454, 5-6=-1357/706, 6-7=-1181/654, 7-8=-538/399, 8-9=-678/433, 9-10=-61/334, 10-11=-278/403, 11-12=0/45
BOT CHORD 2-24=-142/36, 23-24=-142/36, 22-23=0/0, 21-23=-1389/557, 4-21=-1299/570, 20-21=-159/99, 19-20=-13/131, 18-19=0/114, 6-18=-227/293, 17-18=-650/1357, 16-17=-550/1181, 15-16=-22/18, 13-14=0/0, 11-13=-202/206
WEBS 3-24=-107/92, 3-23=-196/162, 4-20=-401/1007, 5-20=-337/277, 6-17=-256/142, 7-17=-68/375, 7-16=-950/467, 8-16=-113/138, 9-16=-394/914, 13-15=-1277/360, 9-15=-1248/365, 10-13=-271/264, 5-18=-429/793, 18-20=-366/645

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 2, 482 lb uplift at joint 11, 670 lb uplift at joint 23 and 550 lb uplift at joint 13.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071101

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T13	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:17 2007 Page 1

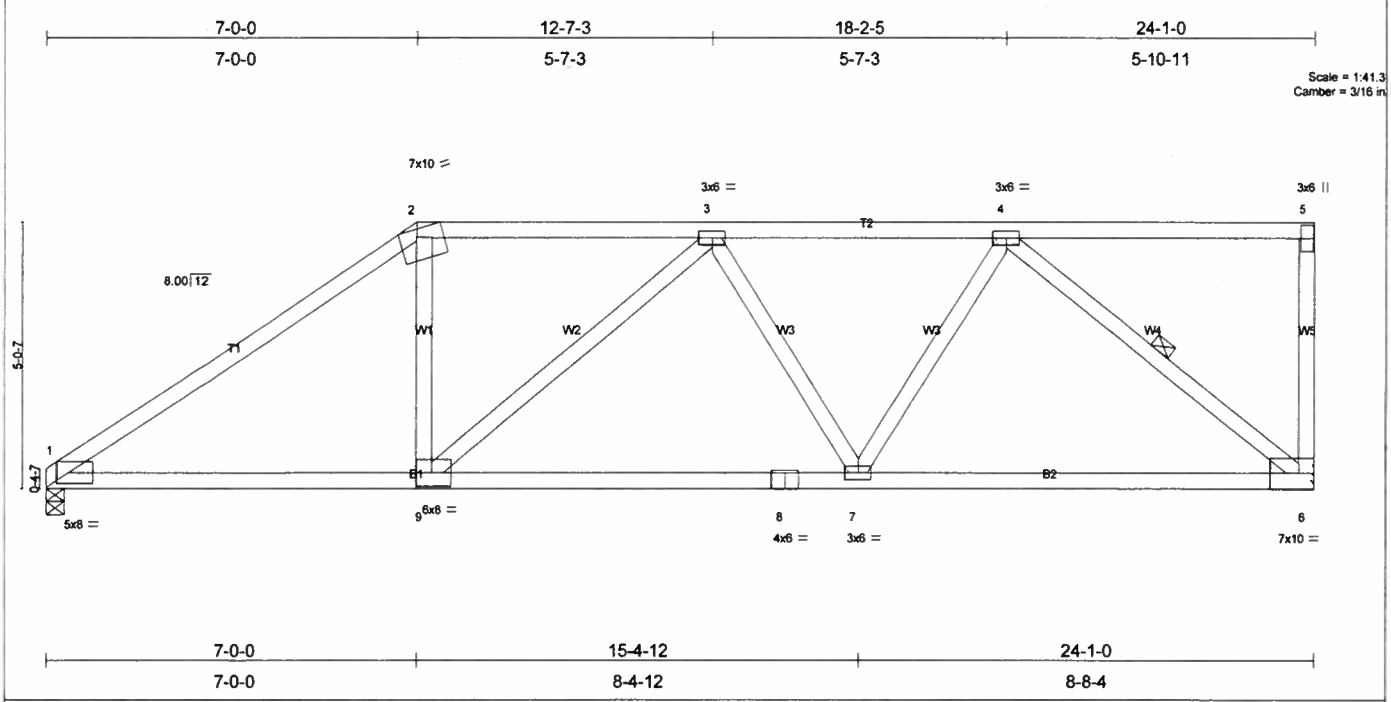


Plate Offsets (X,Y): [1:0-2-7,0-0-14], [2:0-4-0,Edge], [9:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.65	Vert(LL)	-0.24	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.86	Vert(TL)	-0.40	7-9	>722	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.75	Horz(TL)	0.09	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 124 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W5 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-11-15 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS (lb/size) 1=1967/0-4-0, 6=2224/Mechanical
Max Horz 1=220(load case 4)
Max Uplift1=-1011(load case 4), 6=-1350(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3173/1711, 2-3=-2574/1485, 3-4=-2658/1498, 4-5=-115/42, 5-6=-325/338
BOT CHORD 1-9=-1468/2536, 8-9=-1753/2880, 7-8=-1753/2880, 6-7=-1318/2094
WEBS 2-9=-649/1210, 3-9=-407/504, 3-7=-438/525, 4-7=-374/1110, 4-6=-2567/1656

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1011 lb uplift at joint 1 and 1350 lb uplift at joint 6.
5) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 410 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-5=-117(F=-63), 1-9=-30, 6-9=-65(F=-35)
Concentrated Loads (lb)
Vert: 9=-539(F)

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071102

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T14	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:22 2007 Page 1

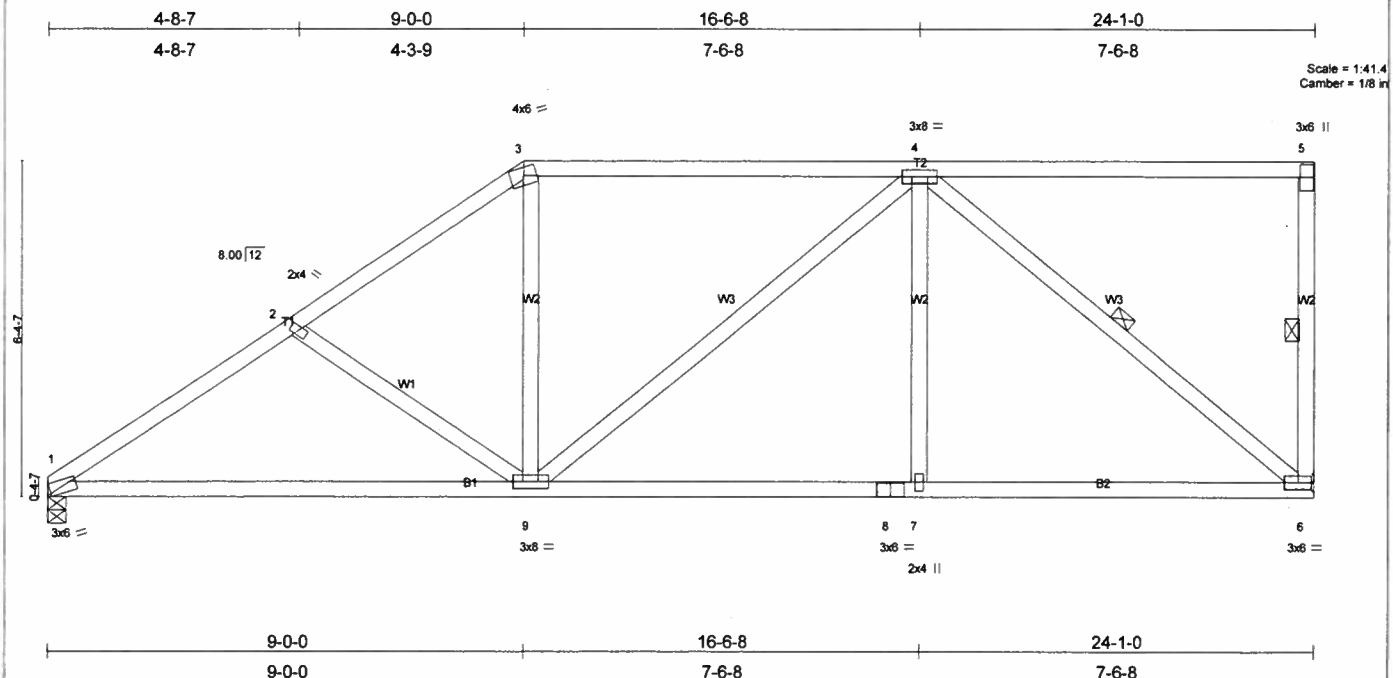


Plate Offsets (X,Y): [1:Edge,0-2-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	-0.17	1-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.29	1-9	>990	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.04	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 135 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-1 oc bracing.
WEBS 1 Row at midpt 5-6, 4-6

REACTIONS (lb/size) 1=998/0-4-0, 6=998/Mechanical
Max Horz 1=280(load case 5)
Max Uplift1=-275(load case 5), 6=-375(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1420/407, 2-3=-1223/352, 3-4=-977/347, 4-5=-43/18, 5-6=-180/147
BOT CHORD 1-9=-536/1137, 8-9=-329/904, 7-8=-329/904, 6-7=-329/904
WEBS 2-9=-204/229, 3-9=-15/323, 4-9=-110/141, 4-7=0/212, 4-6=-1115/407

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 1 and 375 lb uplift at joint 6.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071103

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T15	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:27 2007 Page 1

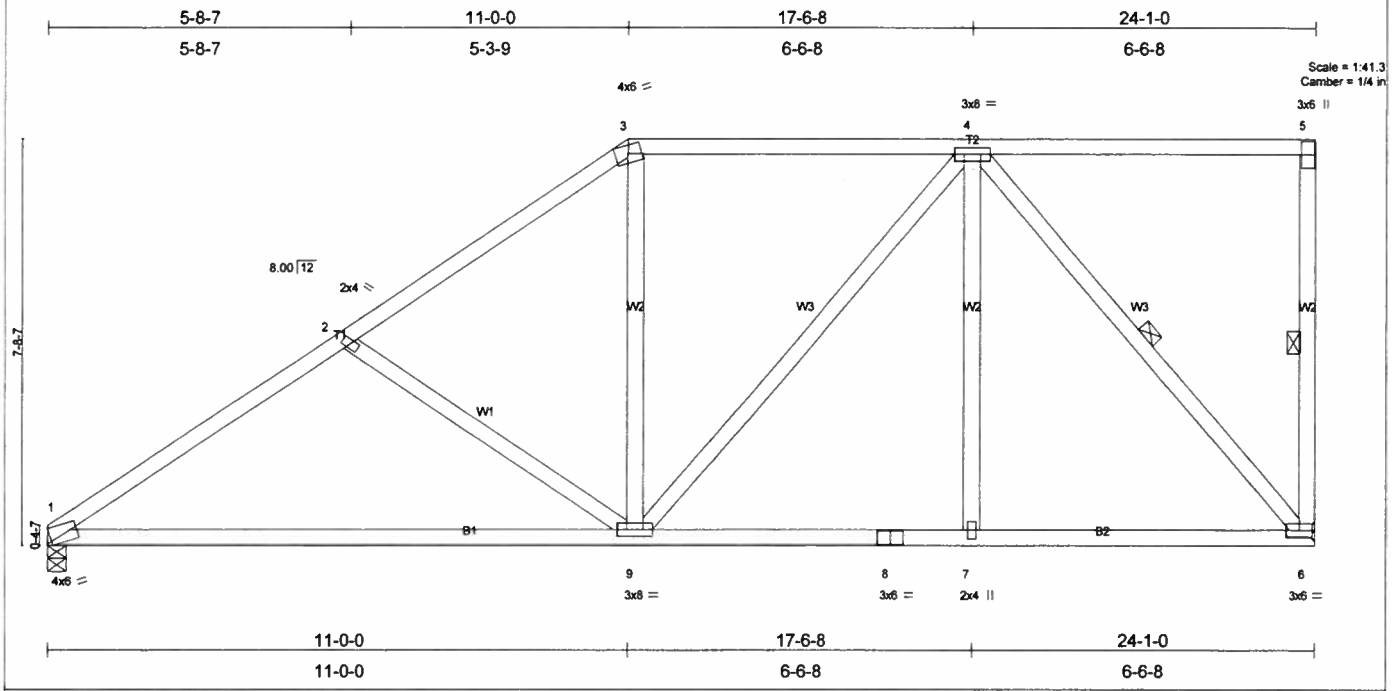


Plate Offsets (X,Y): [1:0-1-1,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.35	1-9	>810	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.60	1-9	>473	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.03	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 144 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-8 oc bracing.
WEBS 1 Row at midpt 5-6, 4-6

REACTIONS (lb/size) 1=998/0-4-0, 6=998/Mechanical
Max Horz 1=342(load case 5)
Max Uplift1=-274(load case 5), 6=-358(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1365/396, 2-3=-1104/312, 3-4=-851/328, 4-5=-25/9, 5-6=-154/124
BOT CHORD 1-9=-574/1095, 8-9=-240/667, 7-8=-240/667, 6-7=-240/667
WEBS 2-9=-302/297, 3-9=0/262, 4-9=-170/281, 4-7=0/153, 4-6=-983/354

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 1 and 358 lb uplift at joint 6.

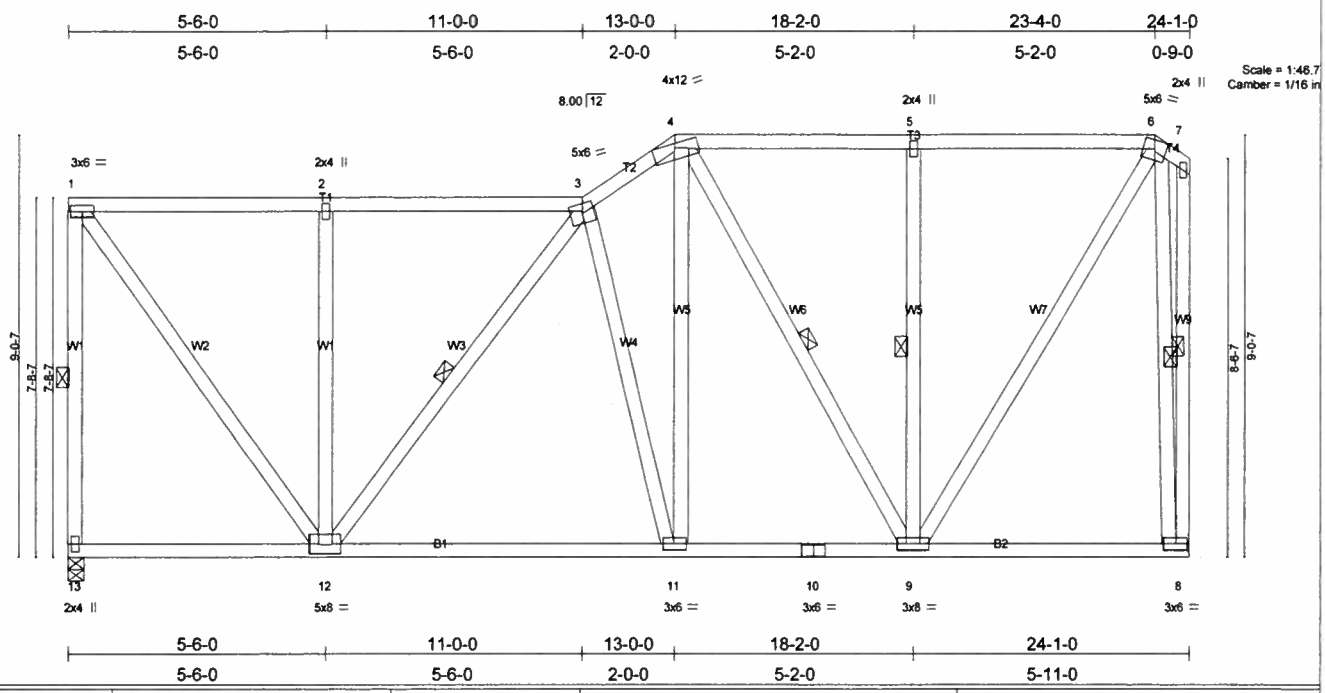
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071104

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T16	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:33 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.10	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.33	Vert(TL)	-0.16	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 210 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-13, 3-12, 4-9, 5-9, 7-8, 6-8

REACTIONS (lb/size) 13=999/0-4-0, 8=999/Mechanical
Max Horz 13=43(load case 4)
Max Uplift13=-422(load case 3), 8=-396(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-13=-933/429, 1-2=-597/242, 2-3=-597/242, 3-4=-865/315, 4-5=-523/218, 5-6=-523/218, 6-7=-35/0, 7-8=-64/0
BOT CHORD 12-13=-47/14, 11-12=-292/799, 10-11=-244/698, 9-10=-244/698, 8-9=-34/75
WEBS 1-12=-400/995, 2-12=-327/282, 3-12=-338/132, 3-11=-385/186, 4-11=-143/569, 4-9=-344/105, 5-9=-305/262, 6-9=-336/882, 6-8=-884/458

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 422 lb uplift at joint 13 and 396 lb uplift at joint 8.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071105

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T17	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:38 2007 Page 1

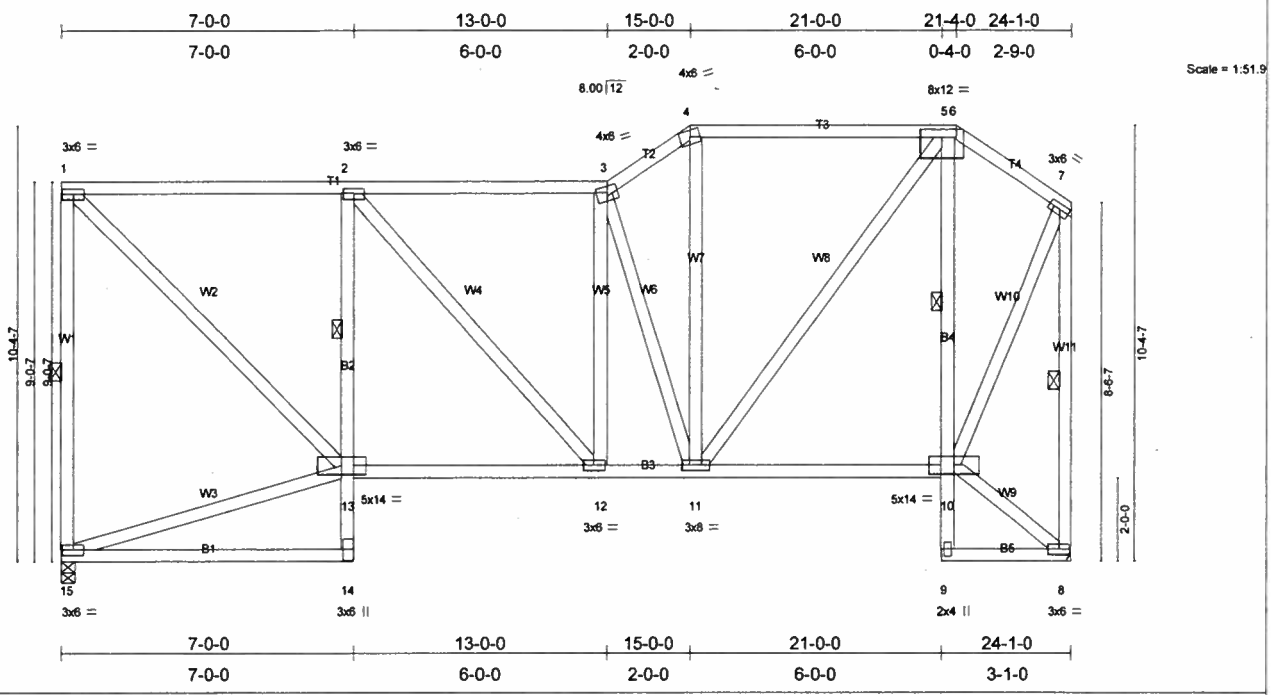


Plate Offsets (X,Y): [5:0-6-0,0-2-3]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	-0.08	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.13	12-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(TL)	0.06	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 222 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 8-9.
1 Row at midpt 2-13, 5-10
WEBS 1 Row at midpt 1-15, 7-8

REACTIONS (lb/size) 15=999/0-4-0, 8=999/Mechanical
Max Horz 15=-60(load case 3)
Max Uplift15=-445(load case 3), 8=-326(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-897/447, 1-2=-755/323, 2-3=-896/349, 3-4=-860/329, 4-5=-708/277, 5-6=-319/161, 6-7=-404/147, 7-8=-965/324
BOT CHORD 14-15=0/35, 13-14=0/106, 2-13=-540/369, 12-13=-261/762, 11-12=-291/896, 10-11=-113/332, 9-10=0/40, 5-10=-572/277, 8-9=-16/0
WEBS 13-15=-62/41, 1-13=-444/1037, 2-12=-58/202, 3-12=-32/70, 3-11=-634/226, 4-11=-42/219, 5-11=-198/640, 7-10=-264/782, 8-10=0/23

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 445 lb uplift at joint 15 and 326 lb uplift at joint 8.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Dwg.#0220071106

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T18	SPECIAL	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:43 2007 Page 1

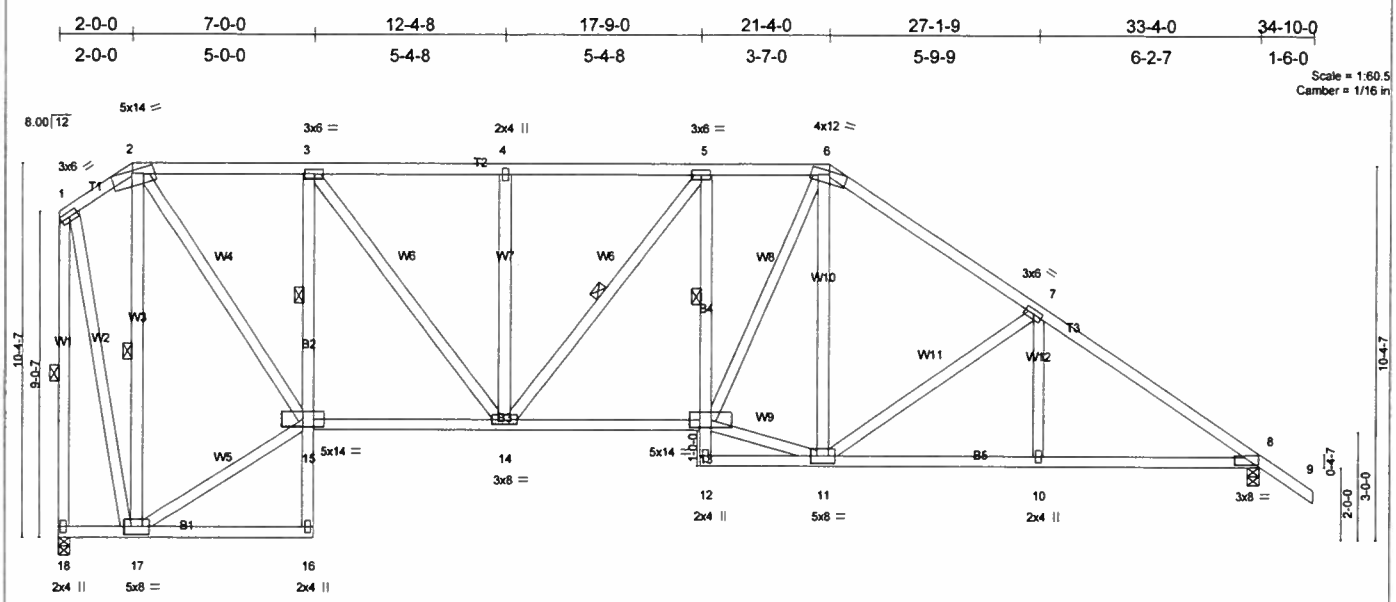


Plate Offsets (X,Y): [8:0-8-3,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.14	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.23	13-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(TL)	0.13	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 272 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-6 max.): 2-6.
BOT CHORD Rigid ceiling directly applied or 8-11-13 oc bracing. Except:
1 Row at midpt 3-15, 5-13
WEBS 1 Row at midpt 2-17, 5-14, 1-18

REACTIONS (lb/size) 18=1385/0-4-0, 8=1479/0-4-0
Max Horz 18=-393(load case 6)
Max Uplift18=-551(load case 3), 8=-465(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-344/130, 2-3=-1072/435, 3-4=-1537/596, 4-5=-1537/596, 5-6=-1618/637, 6-7=-1676/598, 7-8=-2136/613, 8-9=0/45, 1-18=-1344/537
BOT CHORD 17-18=-56/391, 16-17=-6/16, 15-16=0/76, 3-15=-881/528, 14-15=-451/1081, 13-14=-497/1631, 12-13=0/41, 5-13=-203/305, 11-12=-35/43, 10-11=-408/1686, 8-10=-408/1686
WEBS 2-17=-1183/515, 15-17=-156/386, 2-15=-548/1448, 3-14=-352/744, 4-14=-304/260, 5-14=-154/140, 11-13=-288/1334, 6-13=-415/733, 6-11=-132/194, 7-11=-454/291, 7-10=0/204, 1-17=-502/1147

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 551 lb uplift at joint 18 and 465 lb uplift at joint 8.
5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071107

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T19	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:49 2007 Page 1

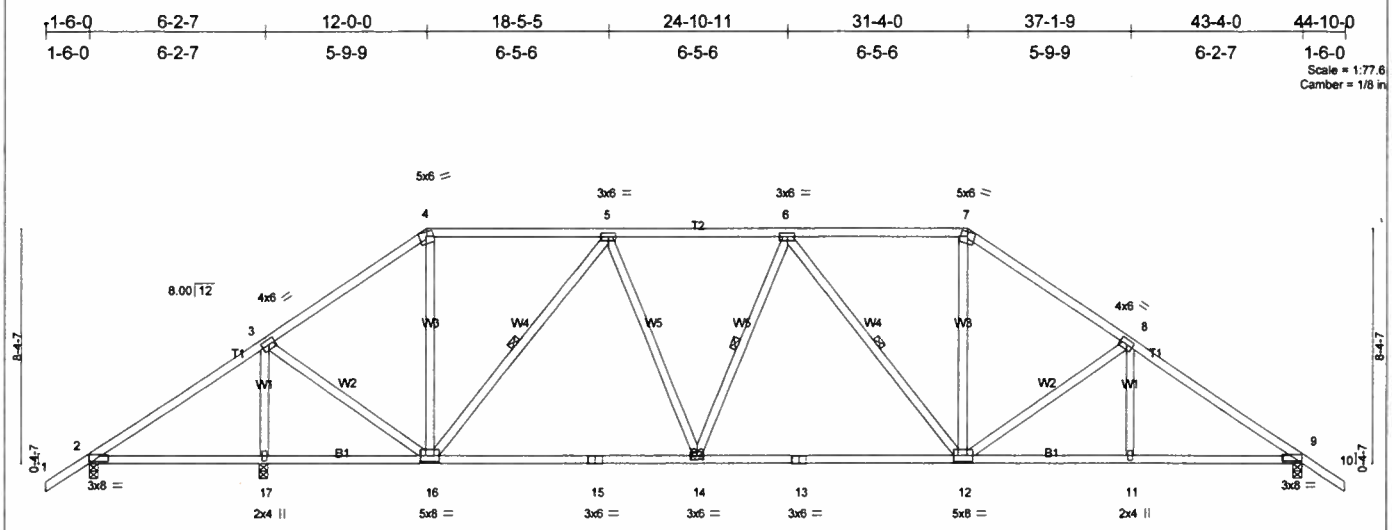


Plate Offsets (X,Y): [2:0-8-3,0-0-14], [9:0-8-3,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.23	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.38	12-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.07	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 252 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-10 oc purlins, except 2-0-0 oc purlins (4-10-2 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 6-14, 6-12

REACTIONS (lb/size) 2=-13/0-4-0, 17=2221/0-4-0, 9=1584/0-4-0
Max Horz 2=285(load case 4)
Max Uplift2=-203(load case 10), 17=-822(load case 4), 9=-543(load case 6)
Max Grav 2=35(load case 9), 17=2221(load case 1), 9=1584(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-298/663, 3-4=-1003/377, 4-5=-763/369, 5-6=-1584/678, 6-7=-1501/641, 7-8=-1878/706, 8-9=-2309/721, 9-10=0/45
BOT CHORD 2-17=-487/345, 16-17=-487/345, 15-16=-566/1399, 14-15=-566/1399, 13-14=-585/1647, 12-13=-585/1647, 11-12=-495/1827, 9-11=-495/1827
WEBS 3-17=-2027/739, 3-16=-463/1493, 4-16=-95/248, 5-16=-1069/536, 5-14=-112/515, 6-14=-186/176, 6-12=-356/333, 7-12=-172/663, 8-12=-414/289, 8-11=0/178

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 2, 822 lb uplift at joint 17 and 543 lb uplift at joint 9.
5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

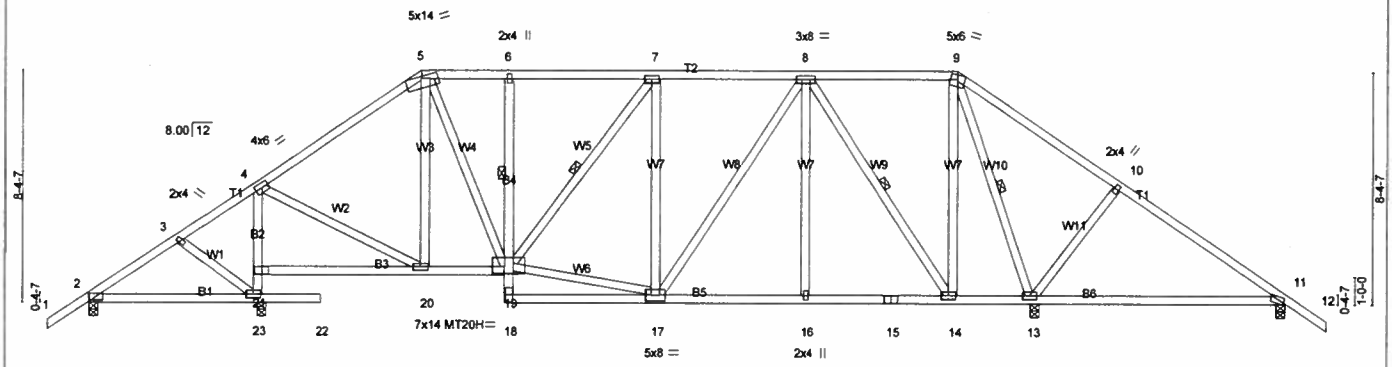
Dwg.#0220071108

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T20	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:54 2007 Page 1

1-6-0	3-3-7	6-2-0	12-0-0	15-0-0	20-5-5	25-10-11	31-4-0	37-1-9	43-4-0	44-10-0
1-6-0	3-3-7	2-10-9	5-10-0	3-0-0	5-5-5	5-5-5	5-5-5	5-9-9	6-2-7	1-6-0

Scale = 1:78.6
Camber = 1/8 in



6-2-0	8-4-0	12-0-0	15-0-0	20-5-5	25-10-11	31-4-0	34-2-0	43-4-0
6-2-0	2-2-0	3-8-0	3-0-0	5-5-5	5-5-5	5-5-5	2-10-0	9-2-0

Plate Offsets (X,Y): [2:0-6-3,0-0-10], [11:0-0-12,Edge], [19:0-5-7,0-2-15]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	0.29	11-13	>381	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	-0.26	11-13	>428	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(TL)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 300 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-23,20-21,11-13.
1 Row at midpt 6-19
WEBS 1 Row at midpt 7-19, 8-14, 9-13

REACTIONS (lb/size) 2=267/0-4-0, 13=1700/0-4-0, 23=1536/0-4-0, 11=359/0-4-0
Max Horz 2=285(load case 4)
Max Uplift2=-321(load case 6), 13=-753(load case 3), 23=-610(load case 4), 11=-313(load case 6)
Max Grav 2=268(load case 9), 13=1700(load case 1), 23=1537(load case 9), 11=365(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-94/357, 3-4=-111/365, 4-5=-987/433, 5-6=-938/474, 6-7=-941/476, 7-8=-954/519, 8-9=-261/233, 9-10=-61/265, 10-11=-105/104, 11-12=0/45
BOT CHORD 2-23=-166/31, 22-23=0/0, 21-23=-1298/493, 4-21=-1200/511, 20-21=-100/19, 19-20=-376/738, 18-19=0/83, 6-19=-227/218, 17-18=-25/136, 16-17=-369/764, 15-16=-369/764, 14-15=-369/764, 13-14=-106/246, 11-13=-54/82
WEBS 4-20=-313/874, 5-20=-217/164, 5-19=-326/553, 17-19=-448/833, 7-19=-60/71, 7-17=-287/264, 8-17=-171/346, 8-16=0/182, 8-14=-920/470, 9-14=-295/801, 9-13=-1247/421, 10-13=-306/325, 3-23=-132/114

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 321 lb uplift at joint 2, 753 lb uplift at joint 13, 610 lb uplift at joint 23 and 313 lb uplift at joint 11.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Dwg.#0220071109

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T21G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:04:59 2007 Page 1

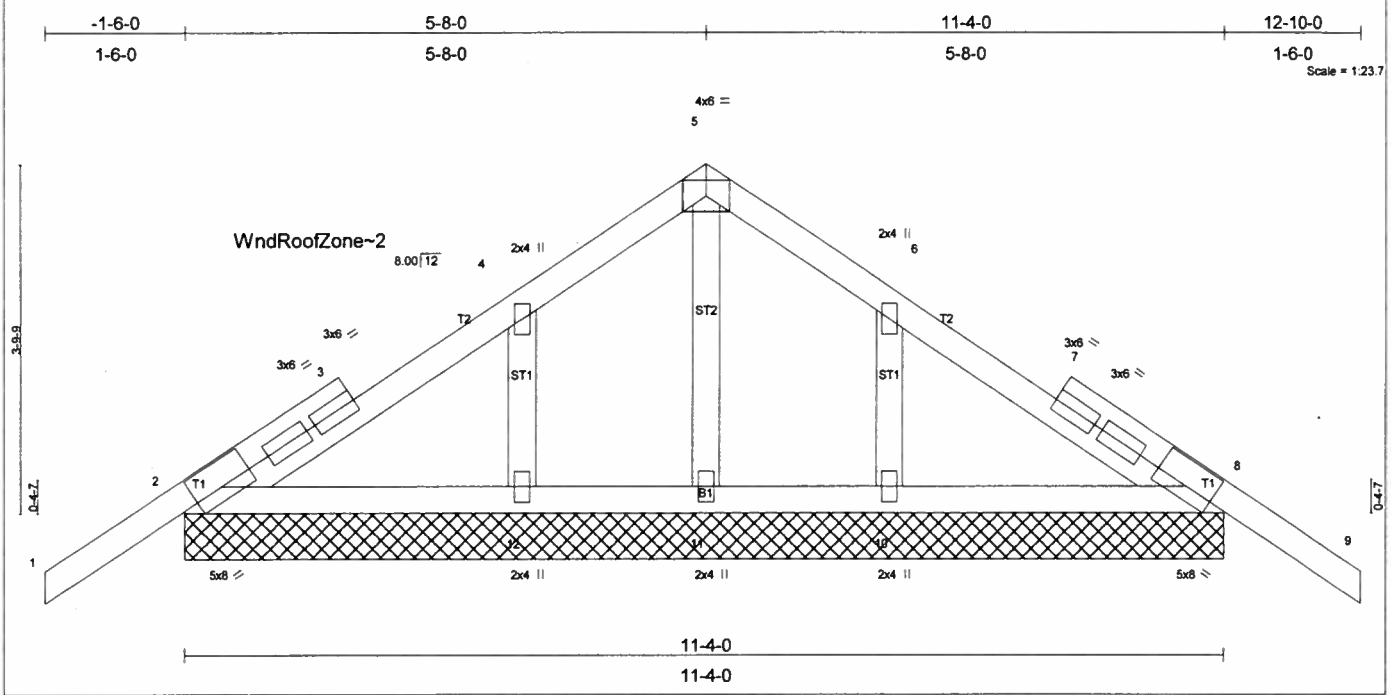


Plate Offsets (X,Y): [2:0-4-5,0-1-12], [8:0-4-5,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.01	9	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.05	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 58 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 2=316/11-4-0, 8=316/11-4-0, 11=202/11-4-0, 12=377/11-4-0, 10=377/11-4-0
Max Horz 2=-126(load case 3)
Max Uplift2=-172(load case 5), 8=-187(load case 6), 11=-11(load case 5), 12=-167(load case 5), 10=-170(load case 6)
Max Grav 2=321(load case 9), 8=321(load case 10), 11=202(load case 1), 12=379(load case 9), 10=379(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3/70, 2-3=-75/72, 3-4=-73/141, 4-5=-19/89, 5-6=-19/89, 6-7=-30/141, 7-8=-31/53, 8-9=-3/70
BOT CHORD 2-12=-48/138, 11-12=-48/138, 10-11=-48/138, 8-10=-48/138
WEBS 5-11=-178/21, 4-12=-271/184, 6-10=-271/187

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 2, 187 lb uplift at joint 8, 11 lb uplift at joint 11, 167 lb uplift at joint 12 and 170 lb uplift at joint 10.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-87(F=-33), 5-9=-87(F=-33), 2-8=-30

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071110

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T22	COMMON	10	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:05:05 2007 Page 1

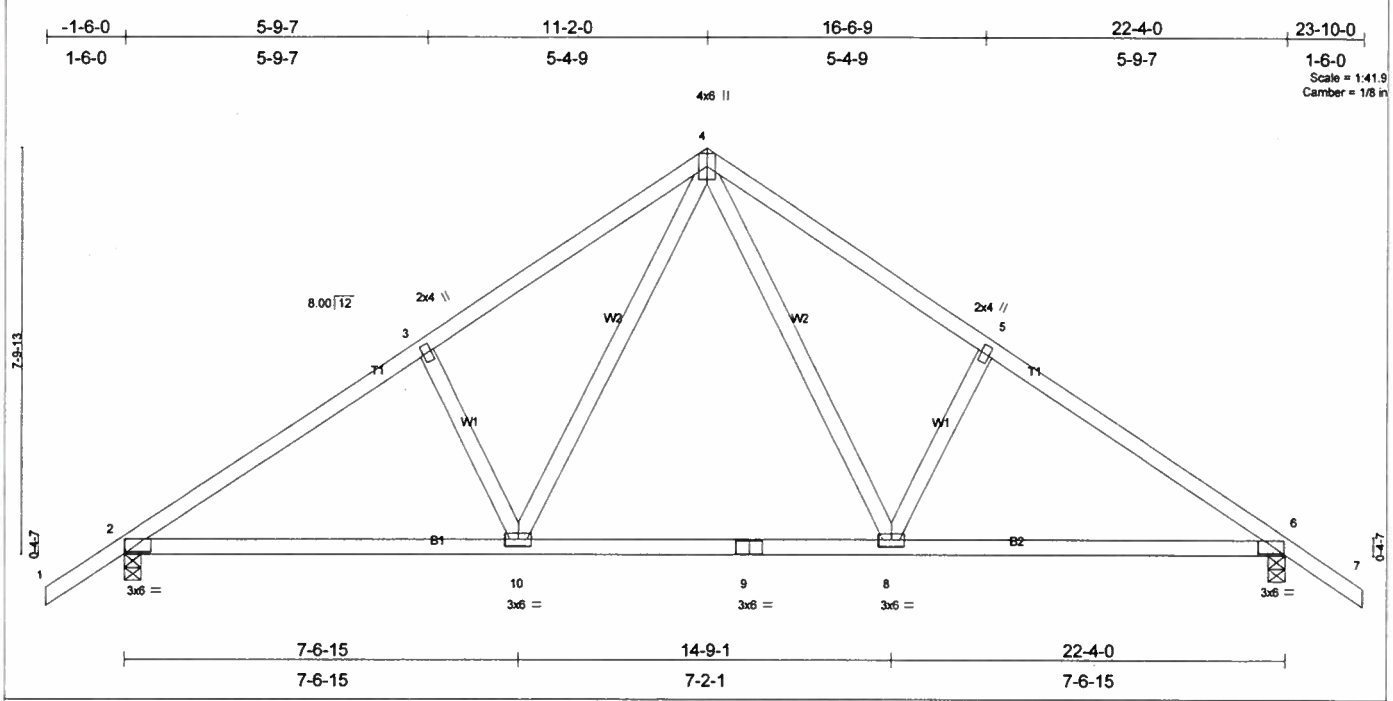


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [6:0-6-3,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.20	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.82	Vert(TL)	-0.32	8-10	>822	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.37	Horz(TL)	0.04	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 115 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-9-7 oc bracing.

REACTIONS (lb/size) 2=1193/0-4-0, 6=1193/0-4-0
Max Horz 2=-265(load case 3)
Max Uplift2=-457(load case 5), 6=-457(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1639/520, 3-4=-1502/585, 4-5=-1502/585, 5-6=-1639/520, 6-7=0/45
BOT CHORD 2-10=-407/1281, 9-10=-163/875, 8-9=-163/875, 6-8=-319/1281
WEBS 3-10=-245/263, 4-10=-300/727, 4-8=-300/727, 5-8=-245/263

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 457 lb uplift at joint 2 and 457 lb uplift at joint 6.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 2-10=-30, 8-10=-80(F=-50), 6-8=-30

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071111

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T22G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:05:11 2007 Page 1

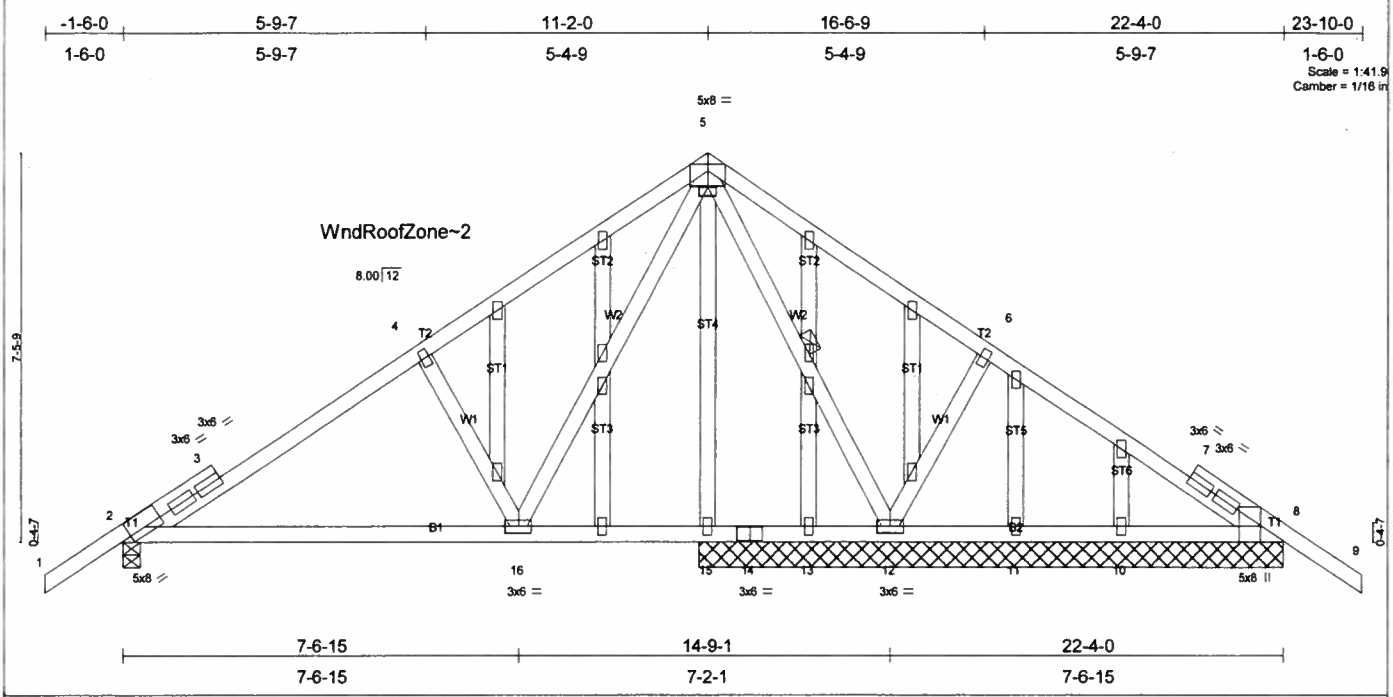


Plate Offsets (X,Y): [2:0-4-5,0-1-12], [5:0-2-0,0-0-0], [8:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.57	Vert(LL)	-0.09	2-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.16	2-16	>833	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.37	Horz(TL)	0.01	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 161 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-12

REACTIONS (lb/size) 2=736/0-4-0, 8=292/11-4-0, 12=1442/11-4-0, 15=82/11-4-0, 13=26/11-4-0, 11=29/11-4-0, 10=160/11-4-0
Max Horz 2=-253(load case 3)
Max Uplift2=-313(load case 5), 8=-176(load case 6), 12=-588(load case 6), 15=-4(load case 5), 10=-31(load case 6)
Max Grav 2=743(load case 9), 8=326(load case 10), 12=1442(load case 1), 15=82(load case 1), 13=34(load case 10), 11=42(load case 9), 10=161(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-864/251, 3-4=-834/278, 4-5=-765/310, 5-6=-81/514, 6-7=-91/291, 7-8=-84/145, 8-9=-3/70
BOT CHORD 2-16=-262/702, 15-16=-89/195, 14-15=-89/195, 13-14=-89/195, 12-13=-89/195, 11-12=-142/192, 10-11=-142/192, 8-10=-142/192
WEBS 4-16=-452/327, 5-16=-278/657, 5-12=-1133/442, 6-12=-412/324

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 2, 176 lb uplift at joint 8, 588 lb uplift at joint 12, 4 lb uplift at joint 15 and 31 lb uplift at joint 10.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-112(F=-58), 5-9=-87(F=-33), 2-8=-30

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

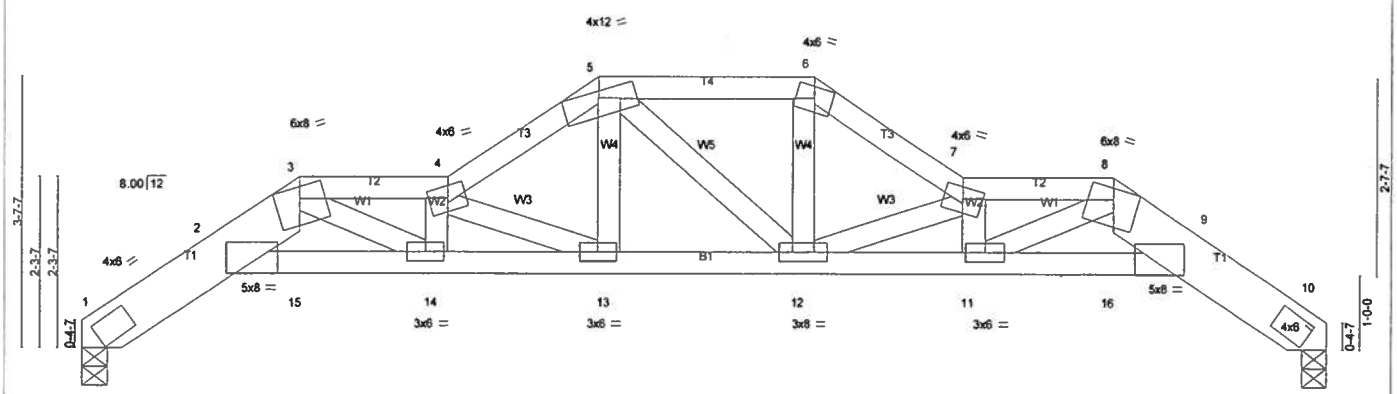
Dwg.#0220071112

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T23	SPECIAL	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:05:16 2007 Page 1

-1-6-0	2-4-0	2-10-8	4-10-8	6-10-8	9-9-8	11-9-8	13-9-8	14-4-0	16-8-0	18-2-0
1-6-0	2-4-0	0-6-8	2-0-0	2-0-0	2-10-15	2-0-0	2-0-0	0-6-8	2-4-0	1-6-0

Scale = 1:29.2



2-4-0	4-10-8	6-10-8	9-9-8	11-9-8	14-4-0	16-8-0
2-4-0	2-6-8	2-0-0	2-10-15	2-0-0	2-6-8	2-4-0

Plate Offsets (X,Y): [3:2-7-0,0-1-7], [3:1-6-1,2-9-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	-0.10	13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.40	Vert(TL)	-0.16	13	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.15	Horz(TL)	0.13	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 168 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T1 2 X 8 SYP 2400F 2.0E, T1 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 1=1000/0-4-0, 10=1000/0-4-0
Max Horz 1=-111(load case 2)
Max Uplift1=-477(load case 4), 10=-477(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-476/278, 2-3=-2475/1239, 3-4=-3557/1729, 4-5=-2261/1092, 5-6=-1951/994, 6-7=-2269/1071, 7-8=-3552/1681, 8-9=-2474/1204, 9-10=-476/244
BOT CHORD 2-15=-1342/2755, 14-15=-1342/2755, 13-14=-1710/3590, 12-13=-884/1941, 11-12=-1616/3586, 11-16=-1246/2757, 9-16=-1246/2757
WEBS 3-14=-400/875, 4-14=-309/224, 4-13=-1878/993, 5-13=-407/940, 5-12=-80/102, 6-12=-387/941, 7-12=-1864/961, 7-11=-314/224, 8-11=-393/868

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 477 lb uplift at joint 1 and 477 lb uplift at joint 10.
8) Girder carries hip end with 0-10-2 right side setback, 0-10-2 left side setback, and 5-0-0 end setback.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 27 lb down and 34 lb up at 13-9-8, and 27 lb down and 34 lb up at 2-10-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-65, 2-3=-54, 3-4=-90(F=-36), 4-5=-90(F=-36), 5-6=-90(F=-36), 6-7=-90(F=-36), 7-8=-90(F=-36), 8-9=-54, 9-10=-65, 2-9=-50(F=-20)
Concentrated Loads (lb)
Vert: 3=-27(F) 8=-27(F)

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

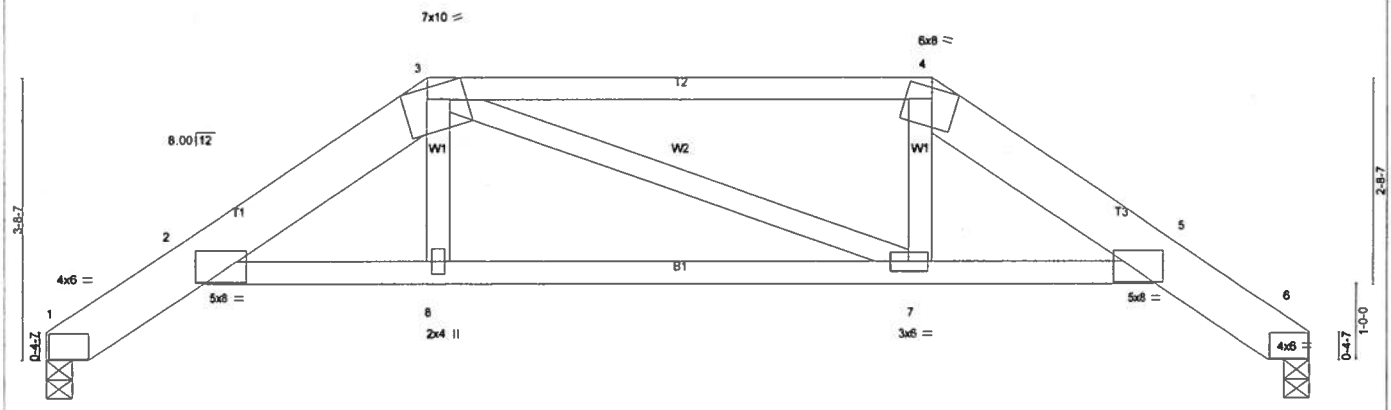
Dwg.#0220071113

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T24	SPECIAL	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:43:20 2007 Page 1

-1-6-0 | 2-4-0 | 5-0-0 | 11-8-0 | 14-4-0 | 16-8-0 | 18-2-0
1-6-0 | 2-4-0 | 2-8-0 | 6-8-0 | 2-8-0 | 2-4-0 | 1-6-0

Scale = 1:28.7



2-4-0 | 5-0-0 | 11-8-0 | 14-4-0 | 16-8-0
2-4-0 | 2-8-0 | 6-8-0 | 2-8-0 | 2-4-0

Plate Offsets (X,Y): [2:0-4-0,0-1-10], [3:4-5-9,3-0-11], [3:5-0-0,3-0-11], [3:0-4-0,Edge], [5:0-4-0,0-1-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.10	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.17	7-8	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.13	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 83 lb	

LUMBER
TOP CHORD 2 X 8 SYP No.1D *Except* T2 2 X 4 SYP No.2, T3 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.

REACTIONS (lb/size) 1=651/0-4-0, 6=651/0-4-0
Max Horz 1=-116(load case 3)
Max Uplift1=-196(load case 5), 6=-196(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-304/153, 2-3=-1220/398, 3-4=-1131/384, 4-5=-1216/355, 5-6=-304/110
BOT CHORD 2-8=-444/1119, 7-8=-443/1133, 5-7=-335/1118
WEBS 3-8=0/212, 3-7=-114/115, 4-7=-5/227

JOINT STRESS INDEX
2 = 0.47, 3 = 0.29, 3 = 0.00, 3 = 0.00, 4 = 0.44, 5 = 0.43, 7 = 0.15 and 8 = 0.15

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 1, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 1 and 196 lb uplift at joint 6.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Dwg.#0220071114

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T26	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:05:27 2007 Page 1

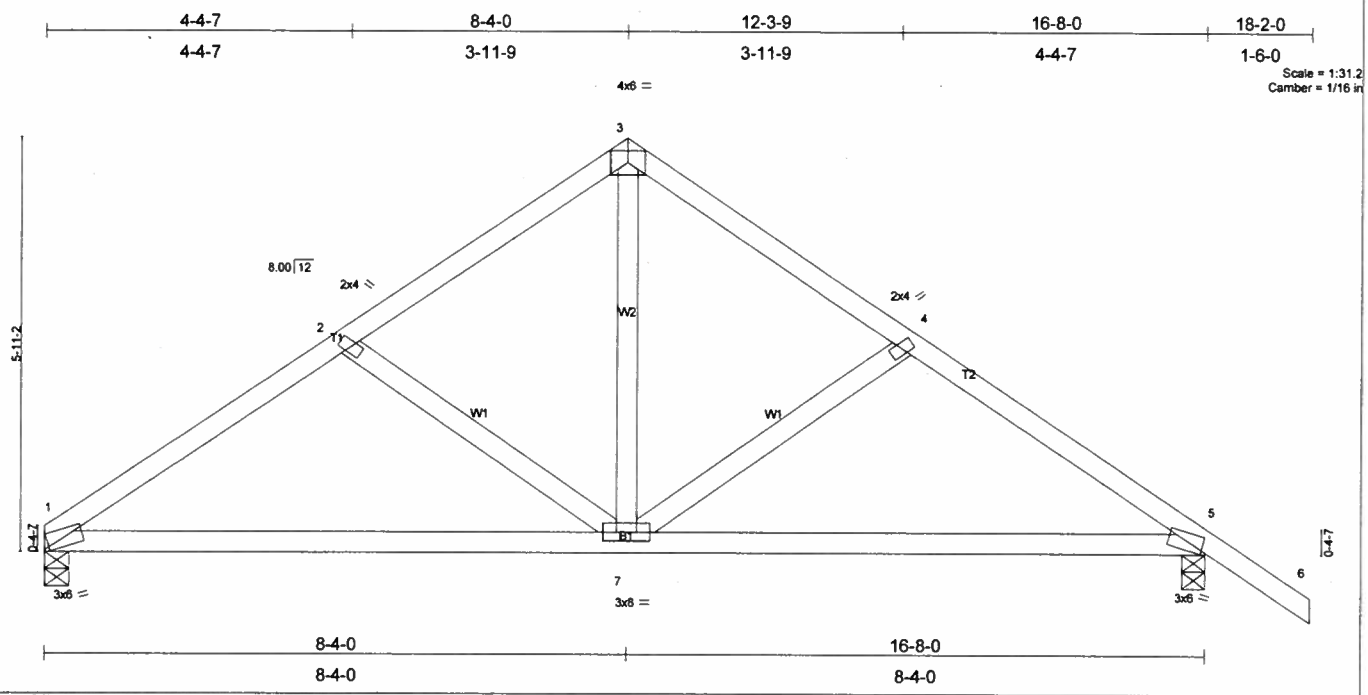


Plate Offsets (X,Y): [1:Edge,0-2-10], [5:0-0-13,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	-0.10	1-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.40	Vert(TL)	-0.16	1-7	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 80 lb	

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

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

REACTIONS (lb/size) 1=681/0-4-0, 5=781/0-4-0
Max Horz 1=-216(load case 3)
Max Uplift1=-215(load case 5), 5=-317(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-906/306, 2-3=-716/258, 3-4=-715/266, 4-5=-899/289, 5-6=0/45
BOT CHORD 1-7=-234/718, 5-7=-155/705
WEBS 2-7=-231/218, 3-7=-149/515, 4-7=-215/197

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 1 and 317 lb uplift at joint 5.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071115

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T27	COMMON	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:05:31 2007 Page 1

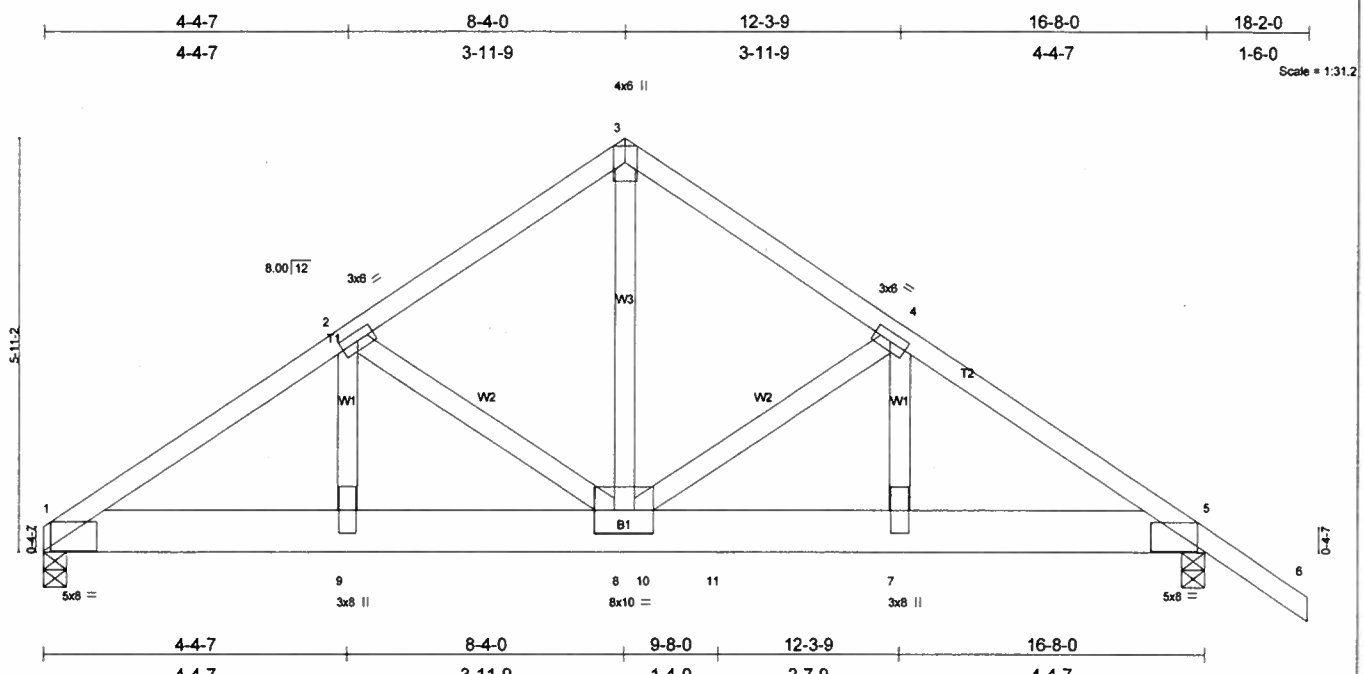


Plate Offsets (X,Y): [1:0-4-0,0-1-9], [5:0-4-0,0-1-9]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.12	7-8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.73	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 224 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=4484/0-4-0, 5=3084/0-4-0
Max Horz 1=-215(load case 3)
Max Uplift1=-1691(load case 5), 5=-1202(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-6097/2285, 2-3=-4394/1688, 3-4=-4381/1696, 4-5=-5093/1856, 5-6=0/50
BOT CHORD 1-9=-1877/5030, 8-9=-1877/5030, 8-10=-1458/4174, 10-11=-1458/4174, 7-11=-1458/4174, 5-7=-1458/4174
WEBS 2-9=-697/1753, 2-8=-1746/769, 3-8=-1728/4560, 4-8=-697/322, 4-7=-157/613

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-4-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1691 lb uplift at joint 1 and 1202 lb uplift at joint 5.
6) Girder carries tie-in span(s): 24-1-0 from 8-0-0 to 16-8-0
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2224 lb down and 840 lb up at 9-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-54, 1-10=-487(B=-457), 5-10=-30
Concentrated Loads (lb)
Vert: 11=-2224(B)

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Dwg.#0220071116

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T28G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:05:37 2007 Page 1

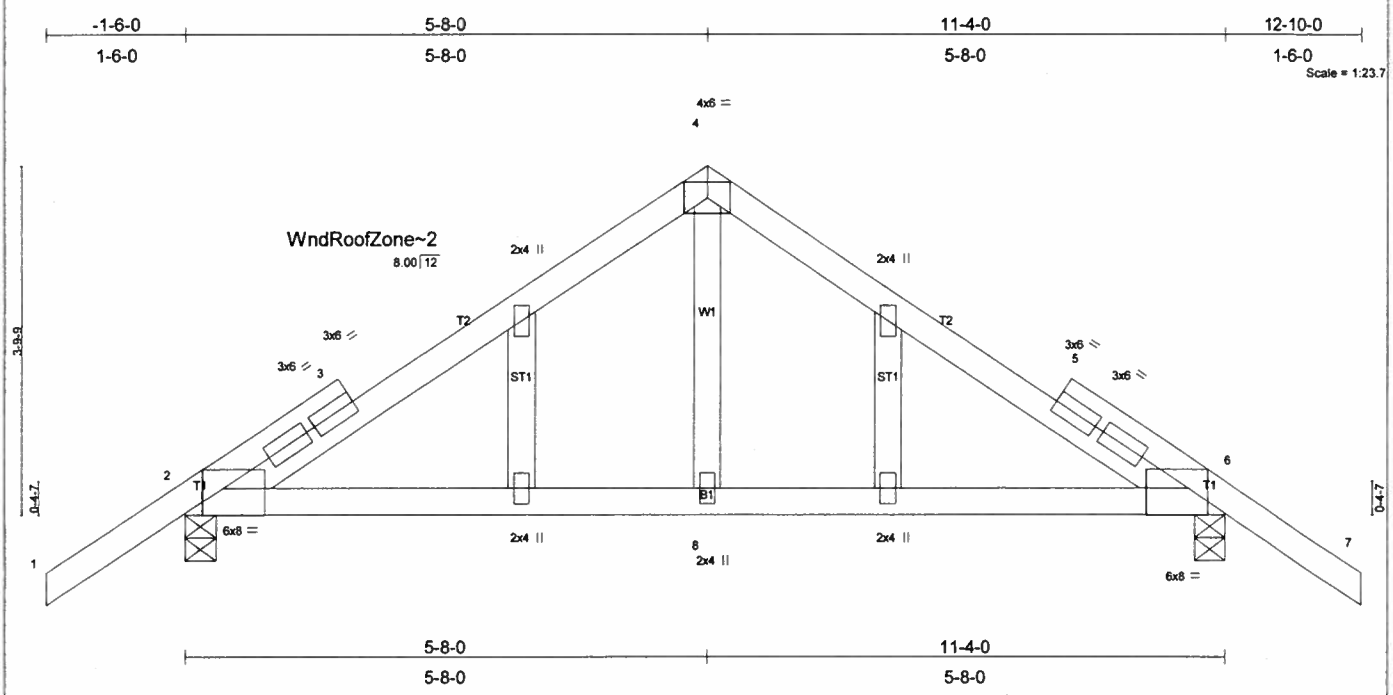


Plate Offsets (X,Y): [2:0-2-9,Edge], [6:0-2-9,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	0.07	2-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.07	2-8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.08	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 58 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-14 oc bracing.

REACTIONS (lb/size) 2=788/0-4-0, 6=788/0-4-0
Max Horz 2=-126(load case 3)
Max Uplift2=-475(load case 5), 6=-475(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3/72, 2-3=-802/599, 3-4=-707/602, 4-5=-707/602, 5-6=-802/599, 6-7=-3/72
BOT CHORD 2-8=-376/589, 6-8=-376/589
WEBS 4-8=-352/225

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Gable studs spaced at 2-0-0 oc.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 475 lb uplift at joint 2 and 475 lb uplift at joint 6.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-87(F=-33), 4-7=-87(F=-33), 2-6=-30

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071117

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T29	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:05:41 2007 Page 1

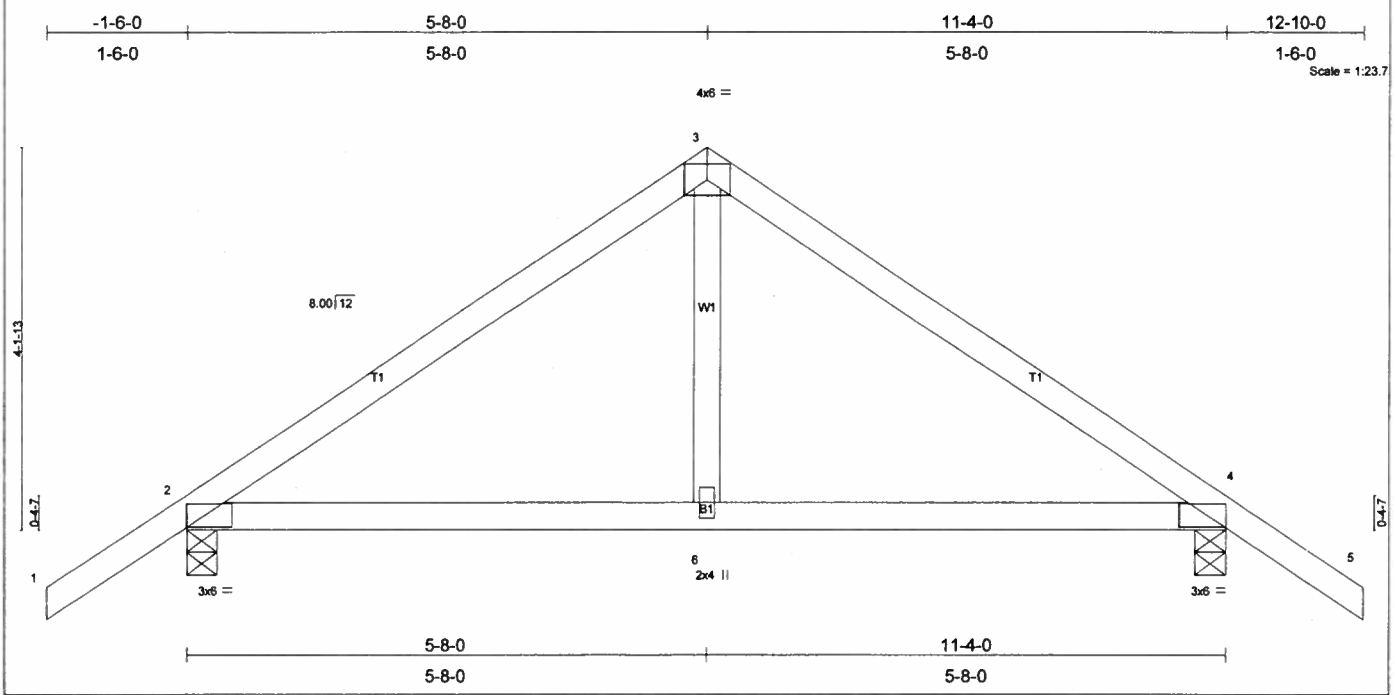


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [4:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	0.06	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	-0.05	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 48 lb	

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

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

REACTIONS (lb/size) 2=552/0-4-0, 4=552/0-4-0
Max Horz 2=-138(load case 3)
Max Uplift2=-384(load case 5), 4=-384(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-542/478, 3-4=-542/478, 4-5=0/45
BOT CHORD 2-6=-250/383, 4-6=-250/383
WEBS 3-6=-339/203

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 384 lb uplift at joint 2 and 384 lb uplift at joint 4.

LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071118

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T30	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:05:46 2007 Page 1

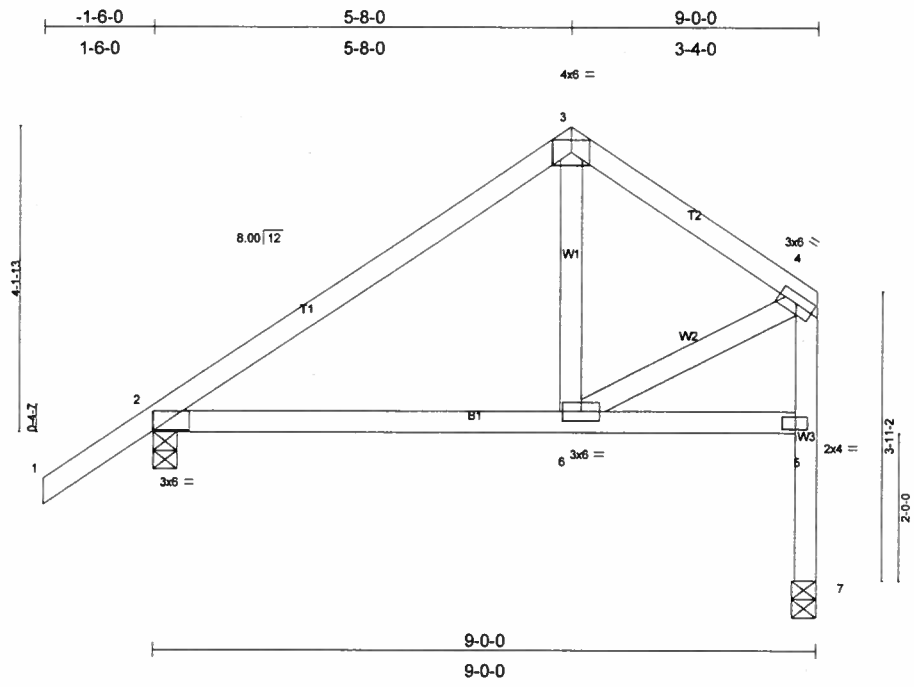


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.23	Vert(LL)	0.07	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	0.06	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 48 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=464/0-4-0, 7=356/0-4-0
Max Horz 2=170(load case 5)
Max Uplift2=-327(load case 5), 7=-215(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-372/306, 3-4=-305/323, 5-7=-356/371, 4-5=-333/323
BOT CHORD 2-6=-237/240, 5-6=-27/26
WEBS 3-6=-169/80, 4-6=-263/266

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 2 and 215 lb uplift at joint 7.

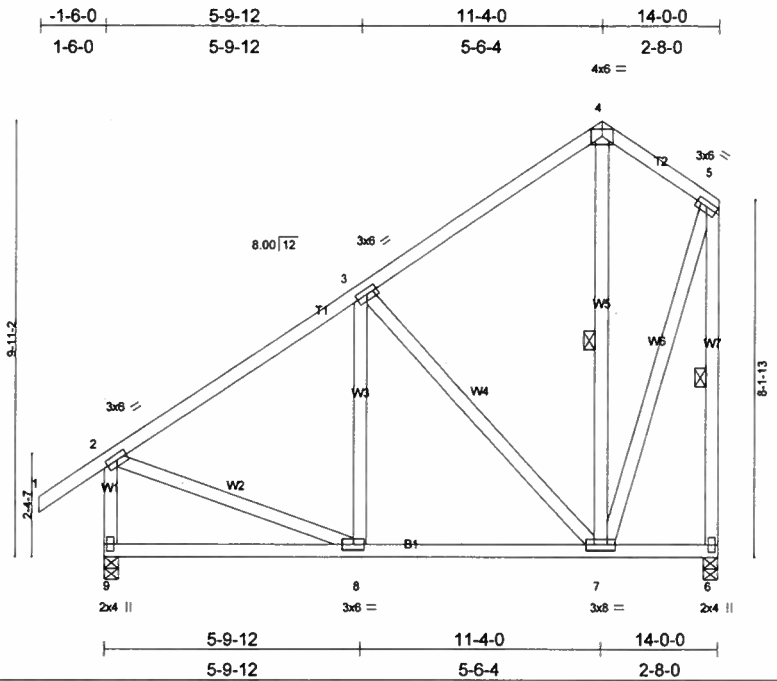
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071119

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T31	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:05:51 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.03	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	-0.04	7-8	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.37	Horz(TL)	-0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 118 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-7, 5-6

REACTIONS (lb/size) 9=670/0-4-0, 6=570/0-4-0
Max Horz 9=411(load case 5)
Max Uplift9=-187(load case 5), 6=-305(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-510/102, 3-4=-253/92, 4-5=-182/109, 2-9=-588/203, 5-6=-548/305
BOT CHORD 8-9=-391/113, 7-8=-279/355, 6-7=-1/3
WEBS 3-8=-12/120, 3-7=-324/294, 4-7=-62/62, 2-8=-4/316, 5-7=-258/447

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 9 and 305 lb uplift at joint 6.

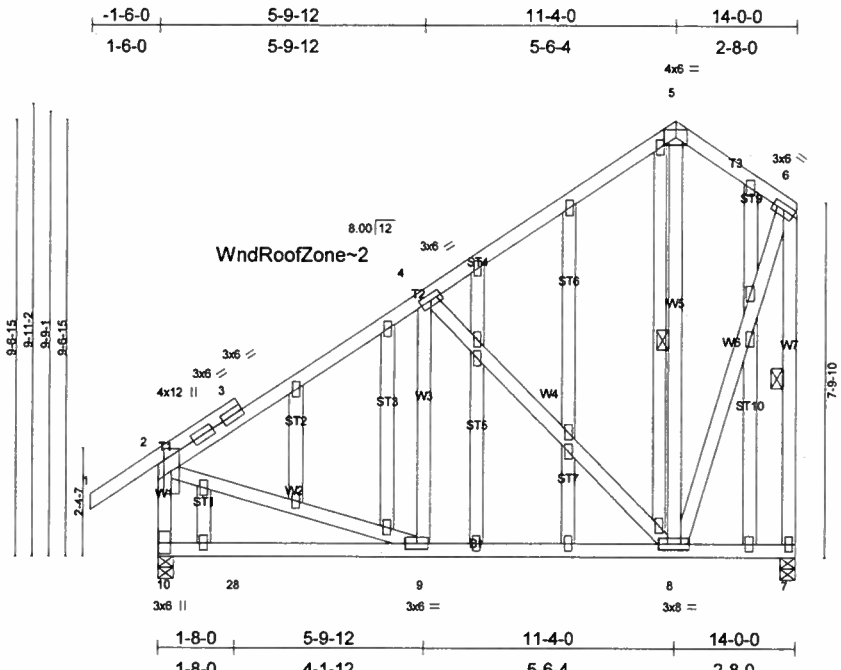
LOAD CASE(S) Standard

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Dwg.#0220071120

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T31G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:05:57 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.74	Vert(LL)	-0.03	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.05	8-9	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.51	Horz(TL)	-0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 175 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-12 oc bracing.
WEBS 1 Row at midpt 5-8, 6-7

REACTIONS (lb/size) 10=992/0-4-0, 7=855/0-4-0
Max Horz 10=387(load case 4)
Max Uplift10=-319(load case 4), 7=-401(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3/69, 2-3=-762/165, 3-4=-644/159, 4-5=-389/115, 5-6=-293/135, 2-10=-874/321, 6-7=-828/400
BOT CHORD 10-28=-410/149, 9-28=-410/149, 8-9=-340/536, 7-8=-2/5
WEBS 4-9=0/94, 4-8=-472/336, 5-8=-153/102, 2-9=-27/409, 6-8=-324/643

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 10 and 401 lb uplift at joint 7.
7) Girder carries tie-in span(s): 2-0-0 from 1-8-0 to 14-0-0; 2-0-0 from 1-8-0 to 14-0-0
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 14 lb up at 1-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-87(F=-33), 2-5=-87(F=-33), 5-6=-112(F=-58), 7-10=-30
Concentrated Loads (lb)
Vert: 28=-37(F)

FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0220071121

Job	Truss	Truss Type	Qty	Ply	SPARKS - ROLLING MEADOWS
L228028	T32	COMMON	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 20 10:06:02 2007 Page 1

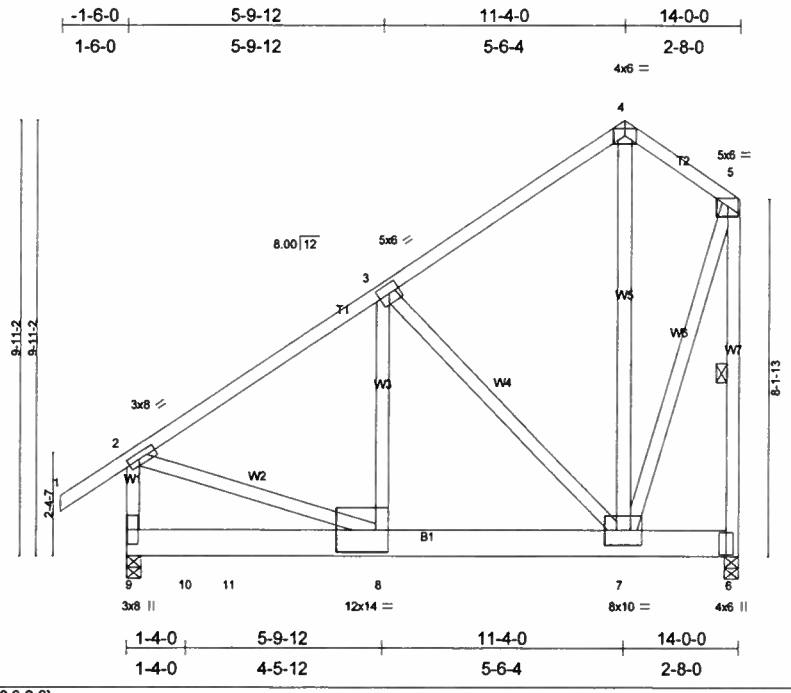


Plate Offsets (X,Y): [2:0-3-3,0-1-8], [8:0-3-8,0-6-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	-0.12	7-8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 274 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 4 SYP No.2, W7 2 X 4 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-6

REACTIONS (lb/size) 9=5588/0-4-0, 6=5609/0-4-0
Max Horz 9=407(load case 5)
Max Uplift9=-2098(load case 5), 6=-2271(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-4429/1629, 3-4=-1665/644, 4-5=-1610/666, 2-9=-3798/1460, 5-6=-4917/2008
BOT CHORD 9-10=-521/386, 10-11=-521/386, 8-11=-521/386, 7-8=-1545/3604, 6-7=-10/24
WEBS 3-8=-1395/3688, 3-7=-3309/1455, 4-7=-632/1577, 2-8=-1193/3411, 5-7=-1721/4196

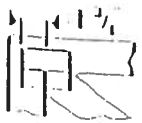
NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-7-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2098 lb uplift at joint 9 and 2271 lb uplift at joint 6.
7) Girder carries tie-in span(s): 37-4-0 from 2-4-0 to 14-0-0
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1488 lb down and 562 lb up at 1-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 4-5=-54, 9-11=-30, 6-11=-765(F=-735)
Concentrated Loads (lb)
Vert: 10=-1488(F)

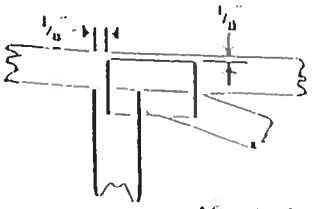
FEBRUARY 20,2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

* This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

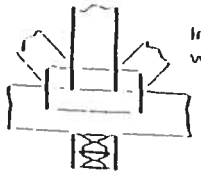
4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

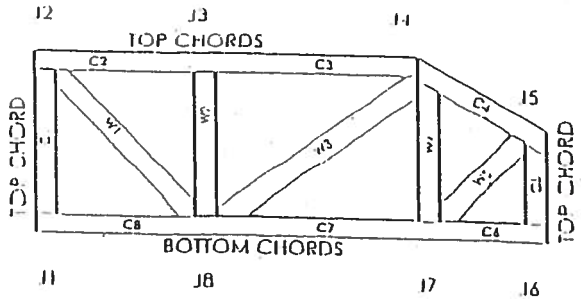
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-11
HER	561

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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. # 25574

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 391 NW Cole Terrace City Lake City State FL Zip 32[illegible]
Company Business License No. JS108476 Company Phone No. 386-752-[illegible]
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: [illegible] Company Phone No. _____

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) [illegible]

Type of Construction (More than one box may be checked) ☐ Slab ☐ Basement ☐ Crawl ☐ Other _____
Approximate Depth of Footing: Outside _____ Inside _____ Type of Fill _____

Section 4: Treatment Information

Date(s) of Treatment(s) [illegible]
Brand Name of Product(s) Used [illegible]
EPA Registration No. [illegible]
Approximate Final Mix Solution % _____
Approximate Size of Treatment Area: Sq. ft. _____ Linear ft. _____ Linear ft. of Masonry Voids _____
Approximate Total Gallons of Solution Applied _____
Was treatment completed on exterior? ☐ Yes ☐ No
Service Agreement Available? ☐ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments [illegible]

Name of Applicator(s) [illegible] Certification No. (if required by State law) JF10437[illegible]

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 [illegible] Date 6-[illegible]

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)

BAILEY BISHOP & LANE, INC.

Engineers *Surveyors* *Planners*

#25574

March 20, 2007

Mr. Josh Sparks
162 SW Country Court
Lake City, Florida 32024

RE: Flood Statement Letter

Dear Mr. Sparks:

We have performed a vertical survey on the structure located on Lot 3, Rolling Meadows, Columbia County, Florida and have determined the following:

- That subdivision plat requires that the minimum finish floor elevation be 102.00'.
- That the field located finish floor elevation is 105.67', being 3.67' above the required elevation.

Should you have any questions, please do not hesitate to give me a call.

Sincerely,

Brian Scott Daniel, PSM
Director of Surveying
BAILEY, BISHOP & LANE, INC.

P. O. Box 3717 Lake City, FL 32056-3717 Ph. (386) 752-5640 FAX (386) 755-7771
P. O. Box 814 Port St. Joe, FL 32457 Ph. (850) 227-9449 FAX (850) 227-9650

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 15-4S-16-03023-503 **Building permit No.** 000025574

Use Classification SFD,UTILITY **Fire:** 77.00

Permit Holder SPARKS CONTRACTORS **Waste:** 201.00

Owner of Building JOSH SPARKS **Total:** 278.00

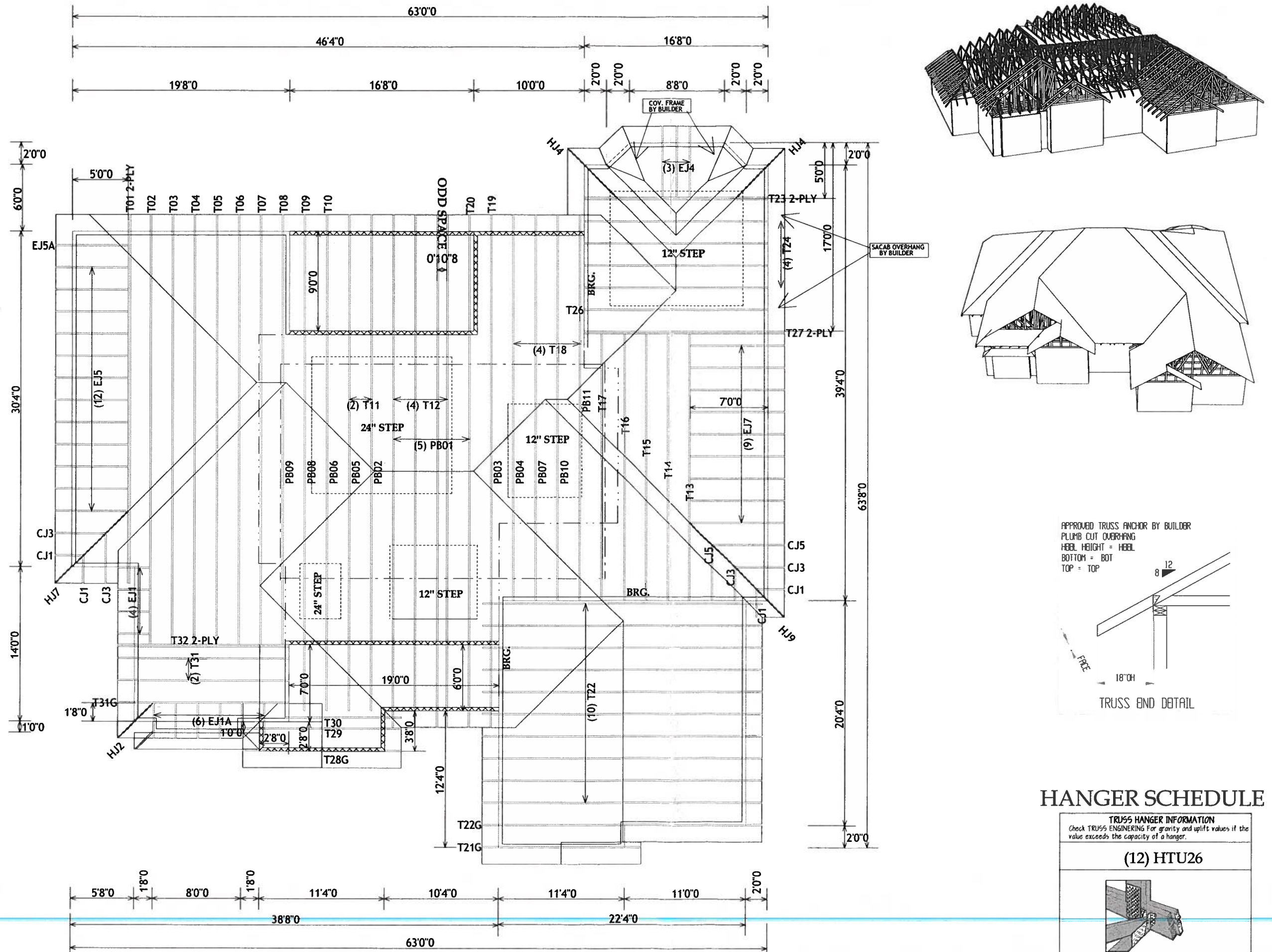
Location: 165 SW MORNING GLORY DRIVE, LAKE CITY, FL

Date: 10/03/2007

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



APPROVED TRUSS ANCHOR BY BUILDER
PLUMB CUT OVERHANG
HEEL HEIGHT = HEEL
BOTTOM = BOT
TOP = TOP

TRUSS END DETAIL

HANGER SCHEDULE

TRUSS HANGER INFORMATION
Check TRUSS ENGINEERING For gravity and uplift values if the value exceeds the capacity of a hanger.

(12) HTU26

BEARING HEIGHT SCHEDULE

8'-0"

10'-0"

OVERHANG
1'-6"

ROOF PITCH(S)
8/12

NOTES:

1) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.

2.) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4.) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7.) ALL ROOF TRUSS HANGERS TO BE SIMPSON HUS26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.

8.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

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

Requested Delivery Date: _____

Approved By: _____ Date: _____

Builders FirstSource
Bunnell
PHONE: 904-437 3349 FAX: 904 437-3994
Jacksonville
PHONE: 904-772 6100 FAX: 904-772-1973
Lake City
PHONE: 904-755-6894 FAX: 904-755-7973
Sanford
PHONE: 407-322-0059 FAX: 407-322-5553

BUILDER: **SPARKS - ROLLING MEADOWS**

LEGAL ADDRESS: **COLUMBIA, FL**

MODEL:	REVISION:
CUSTOM	SCALE: NTS
DATE: **02/20/07**	DRAWN BY: **A MONDRAGON**
JOB #: **L228028**	