Columbia County Building Permit Application

OK 3968

Revised 9-23-04

For Office Use Only Application # 0602-103 Date Received 3/28 By JW Permit # 9961 24215

Application Approved by - Zoning Official SLK Date 03.03.06 Plans Examiner OK JTH Date 3-8-06

Flood Zone X Pplt Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low Dens.

Comments ~~Owner Builder Disclosure Statement~~ Plan

MIN FL 95-2 Elevation letter Required REQUIRED

Applicants Name Hugo Escalante Phone 386-288-8666

Address 6210 S.W. CR 18, Fort White, FL 32038

Owners Name EWPC LLC & Kingdom Properties INC Phone 386-288-8666

911 Address 248 S.W. Melba Glen, LAKE CITY, FL 32024

Contractors Name EWPC LLC (Hugo Escalante) Phone 288-8666

Address P.O. BOX 280, Fort White, FL 32038

Fee Simple Owner Name & Address NONE

Bonding Co. Name & Address NONE

Architect/Engineer Name & Address Daniel Shaheen Lake City FL

Mortgage Lenders Name & Address None

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

Property ID Number 04-4S-16-03113-152 Estimated Cost of Construction 140,000.00

Subdivision Name WISE Estates Lot 22 Block ____ Unit ____ Phase ____

Driving Directions 47 South, TR on 242, TR on WISE DRIVE, TL on Gardner DRIVE, TR on Melba Glen, last lot on Right end of Cul De Sac

Type of Construction New SFR Number of Existing Dwellings on Property 0

Total Acreage 1/2 Lot Size 1/2 Do you need a (Culvert Permit) or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 70' Side 20' Side 20' Rear 80'

Total Building Height 18'-5" Number of Stories 1 Heated Floor Area 1853 Sq FT Roof Pitch 6-12

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

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)

GALE TEDDER
MY COMMISSION # DD 333586
EXPIRES: June 28, 2008
Bonded Thru Notary Public Underwriters

Contractor Signature

Contractors License Number CRC1326967

Competency Card Number ____

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 28th day of February 2006.

Personally known ✓ or Produced Identification ____

NOTARY STAMP/SEAL

Notary Signature

STATE OF FLORIDA
DEPARTMENT OF HEALTH

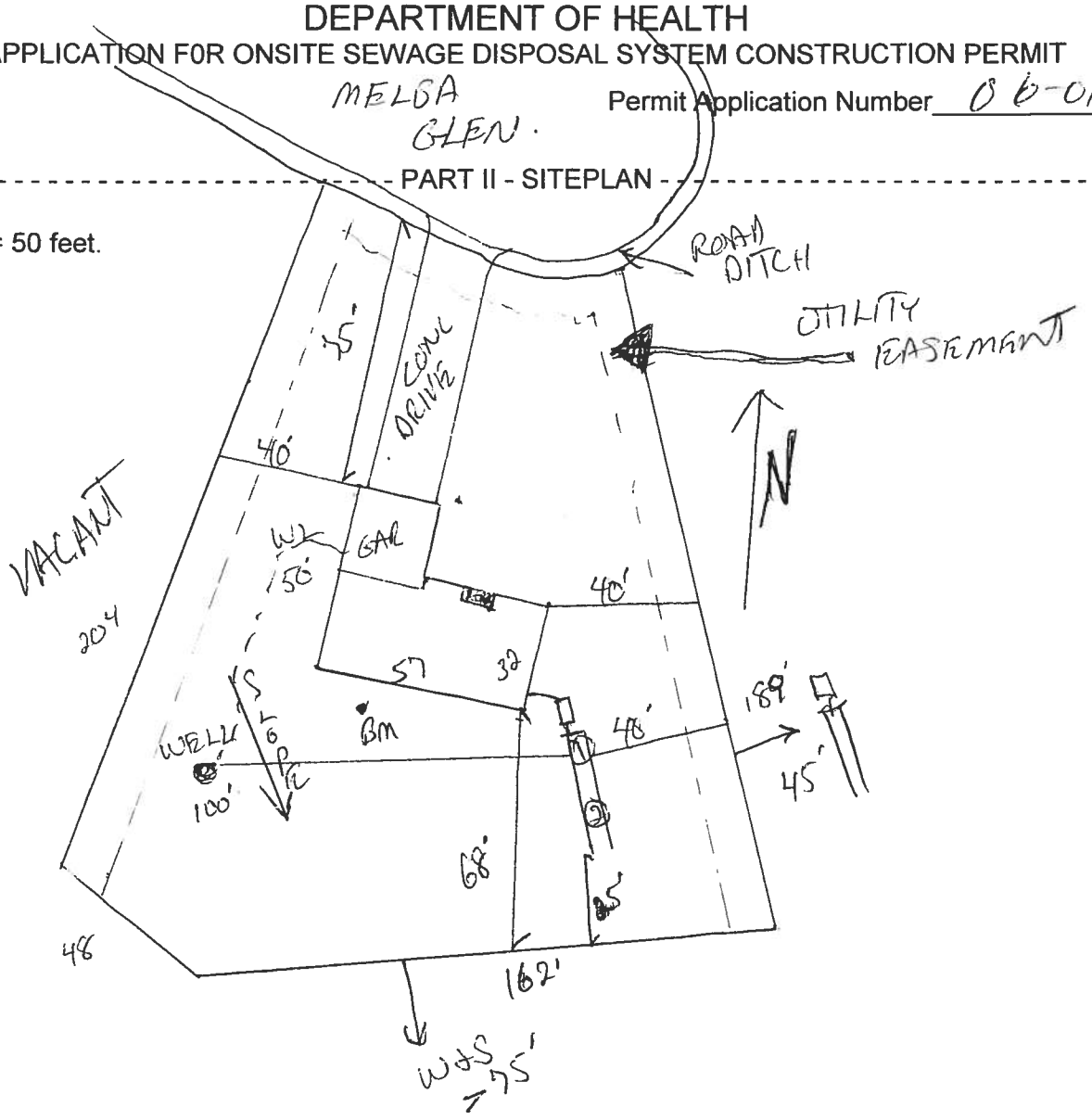
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0146N

MELBA GLEN.

PART II - SITEPLAN

Scale: 1 inch = 50 feet.



Notes: _____

Site Plan submitted by: Rocky Tyo — MASTER CONTRACTOR

Plan Approved ✓ Not Approved ____ Date 2-17-06

By _____ Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000000996

DATE 03/09/2006 PARCEL ID # 24-4S-16-03113-152

APPLICANT HUGO ESCALANTE PHONE 386.288.8666

ADDRESS 6210 SW CR 18 FT. WHITE FL 32038

OWNER EWPL INC, KINGDOM PROPERTIES PHONE 386.288.8666

ADDRESS 248 SW MELBA GLEN LAKE CITY FL 32024

CONTRACTOR HUGO ESCALANTE PHONE 386.288.8666

LOCATION OF PROPERTY 47-S TO C-242,TR TO WISE DRIVE,TR TO GARDNER TERRACE,TL TO MELBA GLEN,TR,LAST LOT ON R @ END OF CUL-DE-SAC.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT WISE ESTATES 22

SIGNATURE Hugo Escalante

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.

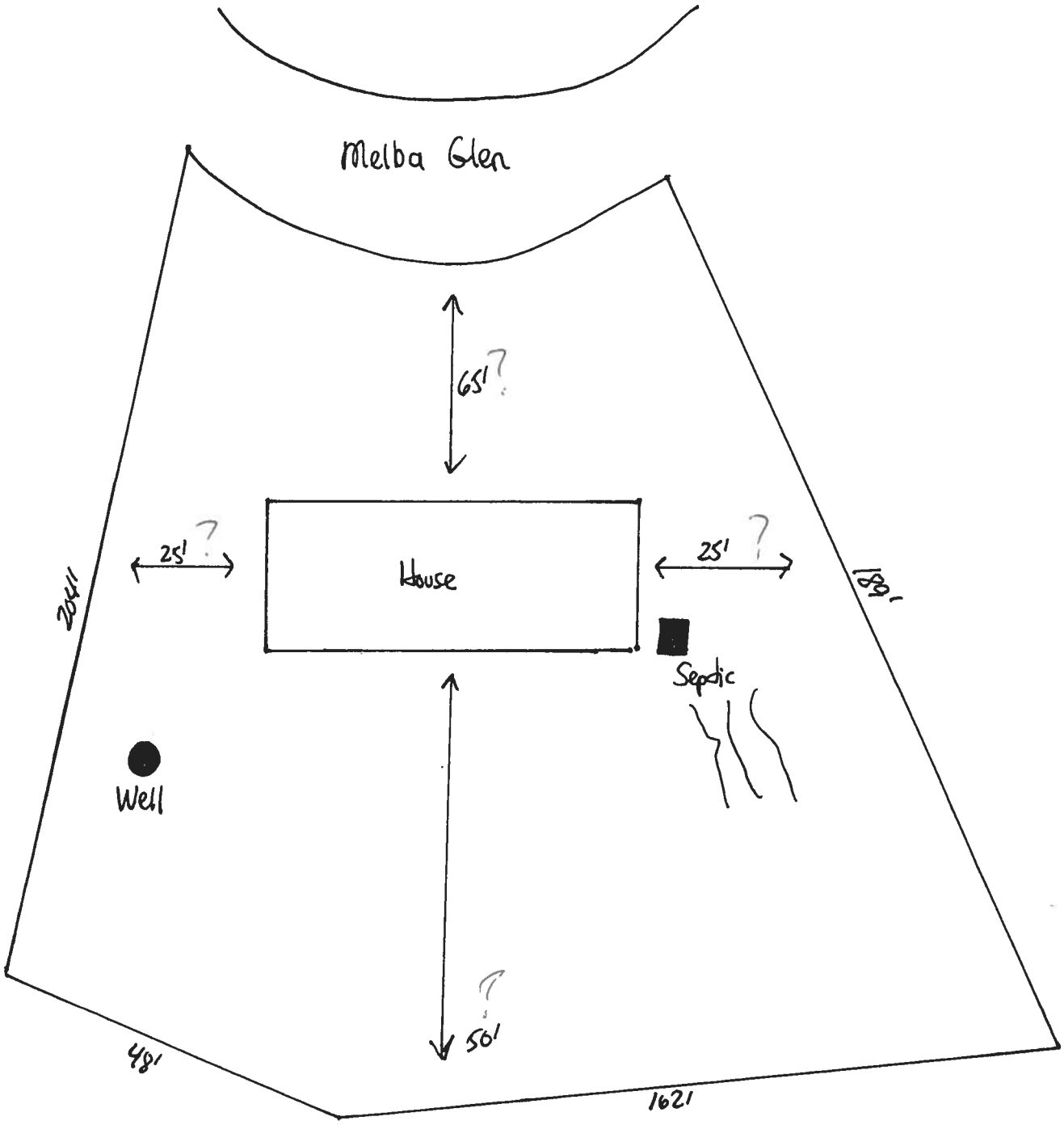
[ ] Other _____

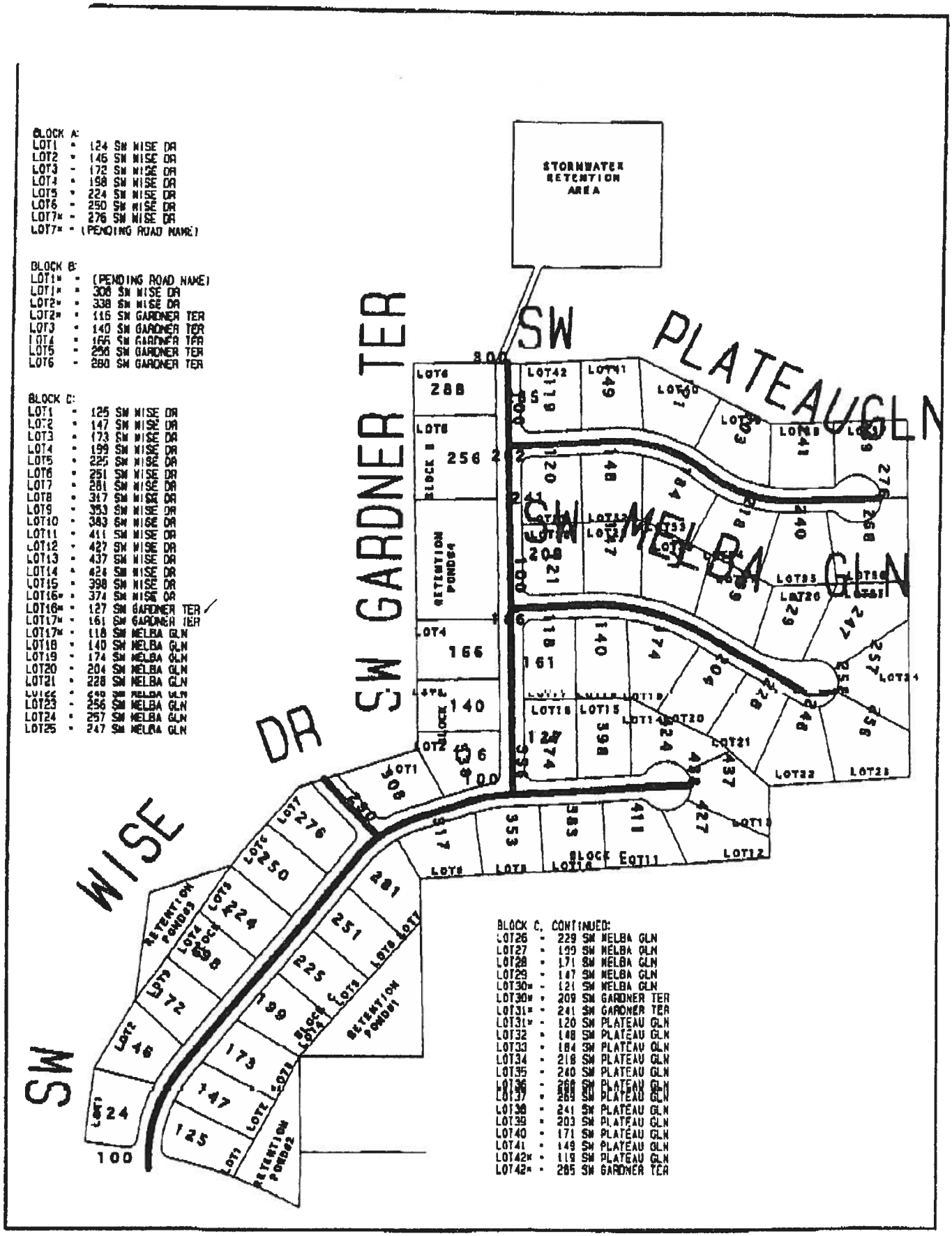
ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED DURING THE INSTALATION OF THE CULVERT.

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

Amount Paid 25.00

Lot 99 WISE Estates
248 S.W. Melba Glen
Lake City, FL




STORMWATER RETENTION AREA
SW PLATEAU GLN
SW MELBA GLN
SW GARDNER TER
SW WISE DR
RETENTION POND #1
RETENTION POND #2
RETENTION POND #3
RETENTION POND #4
BLOCK A:
LOT1 - 124 SW WISE DR
LOT2 - 146 SW WISE DR
LOT3 - 172 SW WISE DR
LOT4 - 198 SW WISE DR
LOT5 - 224 SW WISE DR
LOT6 - 250 SW WISE DR
LOT7* - 276 SW WISE DR
LOT7* - (PENDING ROAD NAME)
BLOCK B:
LOT1* - (PENDING ROAD NAME)
LOT1* - 308 SW WISE DR
LOT2* - 338 SW WISE DR
LOT2* - 116 SW GARDNER TER
LOT3 - 140 SW GARDNER TER
LOT4 - 166 SW GARDNER TER
LOT5 - 256 SW GARDNER TER
LOT6 - 280 SW GARDNER TER
BLOCK C:
LOT1 - 125 SW WISE DR
LOT2 - 147 SW WISE DR
LOT3 - 173 SW WISE DR
LOT4 - 199 SW WISE DR
LOT5 - 225 SW WISE DR
LOT6 - 251 SW WISE DR
LOT7 - 281 SW WISE DR
LOT8 - 317 SW WISE DR
LOT9 - 353 SW WISE DR
LOT10 - 383 SW WISE DR
LOT11 - 411 SW WISE DR
LOT12 - 427 SW WISE DR
LOT13 - 437 SW WISE DR
LOT14 - 424 SW WISE DR
LOT15 - 398 SW WISE DR
LOT16* - 374 SW WISE DR
LOT16* - 127 SW GARDNER TER
LOT17* - 161 SW GARDNER TER
LOT17* - 118 SW MELBA GLN
LOT18 - 140 SW MELBA GLN
LOT19 - 174 SW MELBA GLN
LOT20 - 204 SW MELBA GLN
LOT21 - 228 SW MELBA GLN
LOT23 - 256 SW MELBA GLN
LOT24 - 257 SW MELBA GLN
LOT25 - 247 SW MELBA GLN
BLOCK C, CONTINUED:
LOT26 - 229 SW MELBA GLN
LOT27 - 199 SW MELBA GLN
LOT28 - 171 SW MELBA GLN
LOT29 - 147 SW MELBA GLN
LOT30* - 121 SW MELBA GLN
LOT30* - 209 SW GARDNER TER
LOT31* - 241 SW GARDNER TER
LOT31* - 120 SW PLATEAU GLN
LOT32 - 148 SW PLATEAU GLN
LOT33 - 184 SW PLATEAU GLN
LOT34 - 218 SW PLATEAU GLN
LOT35 - 240 SW PLATEAU GLN
LOT36 - 268 SW PLATEAU GLN
LOT37 - 285 SW PLATEAU GLN
LOT38 - 241 SW PLATEAU GLN
LOT39 - 203 SW PLATEAU GLN
LOT40 - 171 SW PLATEAU GLN
LOT41 - 148 SW PLATEAU GLN
LOT42* - 119 SW PLATEAU GLN
LOT42* - 285 SW GARDNER TER

LYNCH WELL DRILLING, INC.

173 SW Tustenuggee Ave
Lake City, FL. 32025
Phone 386-752-6677
Fax 386-752-1477

Wise Est. Lot 22

Building Permit # _____ Owner's Name EWPh

Well Depth _____ Ft. Casing Depth ____ Ft. Water Level _____ Ft.

Casing Size 4 inch Steel Pump Installation: Deep Well Submersible

Pump Make Red Jacket Pump Model 100F211-2068 HP 1

System Pressure (PSI) _____ On 30 Off 50 Average Pressure 40

Pumping System GPM at average pressure and pumping level 20 (GPM)

Tank Installation: Precharged Bladder Make Challenger Model PC244 Size 81

Tank Draw-down per cycle at system pressure 25.1 gallons

I HEREBY VERTIFY THAT THIS WATER WELL SYSTEM HAS BEEN INSTALLED AS PER THE ABOVE INFORMATION.

Linda Newcomb
Signature

Linda Newcomb
Print Name

2609
License Number

2-23-06
Date

~~SFD~~

Builder- Hugo Escalante
Owner- EMPC Inc & Kingdom Properties Inc
Engineer – Mark Disosway
Designer – Daniel Shoheen

Heated & Cooled Area	1853
Front Porch Area	89
Back Porch Area	131
Garage Area	513
Total Area	2586

Bldg. Height	19'
Roof Pitch	6 /12

I need the following approvals/information.

1. Brian Kepner's Approval.
   a. Zoning. BK
   b. Flood Zone. BK
   c. Set-back. BK
   d. Site Plan. BK
   ✓e. 911 Address.
   ✓f. Driveway Connection. Needs Culvert
   g. ~~City of Fort White~~ Approval Letter.
   h. Deed, (proof of Ownership).
2. ✓ Building Permit Application.
3. ✓ Parcel Number.
4. X Environmental Health Approval.
5. ✓ Energy code.
6. ✓ Manual J.
7. ~~Owner Builder Disclosure Statement.~~
8. X Notice of Commencement, before 1st inspection.
9. ✓ Pump/Well spec's.
10. ✓ Roof truss package, including layout, (Pre-Engineered).
11. ~~Floor truss package, including layout~~, (Pre-Engineered).
12. ✓ Shingle roof mfg., approval listing and Spec's., with Attachment requirements.
13. ✓ Window mfg., approval listing and Spec's., with Attachment requirements.
14. ✓ Door mfg., approval listing and Spec's., with Attachment requirements.

15. Garage door mfg., approval listing and Spec's., with Attachment requirements.
16. Designers name & signature.
17. Elevations, (all sides).
18. Roof height (on elevation).
19. Roof pitch (on elevation).
20. Location of chimney and height above roof (on elevation).
21. Fireplace (gas-vented, non-vented, wood burning).
22. Rooms labeled.
23. Shear wall identified.
24. Egress window from bedrooms.
25. Tempered Glass Master bath.
26. Accessible Bath.
27. Foundation plan, reinforcement.
28. Vertical steel.
29. Post/Column footing, reinforcement, fasteners (top & bottom).
30. Soil Analysis (soil bearing capacity psf), (compaction).
31. Slab, depth, reinforcement, 6 mil VB lapped joints.
32. Termite treatment.
33. Plumbing plan.
34. Floor joist, size, spacing.
35. Floor finish, (wood floor).
36. Stair detail.
    a. Stair width
    b. Tread
    c. Riser
    d. Guardrail
    e. Handrail

37. Wall Sheathing & nailing.
38. Roof sheathing & nailing.
39. Frame wall stud spacing.
40. Headers.
41. Garage door headers, Porch headers.
42. Masonry wall reinforcement.
43. Gable bracing.
44. GFCI 's, & WP GFCI's
45. AFCI in all bedroom circuits, (Arch Fault Circuit Interrupter). Not just Rec.
46. Exhaust fan in bathrooms.
47. Smoke Detectors & Note: All smoke detectors shall be electric with battery backup & shall be interlocked to actuate together.
48. Location of Service Panel, & size. 4W SE main disconnect outside
49. Location of Meter.
50. Wind load Engineering summary.
51. Electrical Disconnecting Means must be outside on a 4 wire service entrance system.

X-52 seperation Garage & House & attic & Attic Access

53. [illegible] Emerg. to [illegible] Stove connector [illegible]

FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Wise Estates Lot 22**	Builder:	**EWPL INC**
Address:	**Lot: 22, Sub: Wise Estates, Plat:**	Permitting Office:	Columbia
City, State:	**Lake City, FL**	Permit Number:	24215
Owner:	**EWPL INC**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 36.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No		
6. Conditioned floor area (ft²)	1853 ft²	c. N/A	
7. Glass area & type			
a. Clear - single pane	0.0 ft²	13. Heating systems	
b. Clear - double pane	337.5 ft²	a. Electric Heat Pump	Cap: 36.0 kBtu/hr
c. Tint/other SHGC - single pane	0.0 ft²		HSPF: 6.80
d. Tint/other SHGC - double pane	0.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 210.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Adjacent	R=13.0, 176.0 ft²		EF: 0.90
b. Frame, Wood, Exterior	R=13.0, 1714.0 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	
a. Under Attic	R=30.0, 1853.0 ft²	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=128.0, 6.0 ft		
b. N/A			

Glass/Floor Area: 0.18

Total as-built points: 27445

Total base points: 28962

PASS

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

PREPARED BY: _____

DATE: 1-31-06

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

OWNER/AGENT: _____

DATE: _____

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

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

BUILDING OFFICIAL: _____

DATE: _____

FORM 600A-2001

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: Wise Estates, Plat: , Lake City, FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

FORM 600A-2001

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: Wise Estates, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank Ratio	X Multiplier	X Credit Multiplier	= Total
3		2746.00	8238.0	40.0	0.90	3		1.00	2684.98	1.00	8054.9
				As-Built Total:							**8054.9**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
10388	**10335**	**8238**	**28962**	**9253**	**10136**	**8055**	**27445**

PASS

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: Wise Estates, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM	= Points				Area X	WPM	=	Points
	1853.0	-0.59	-1093.3				1853.0	-0.59		-1093.3
Winter Base Points:			**16473.5**	**Winter As-Built Points:**						**17656.9**
Total Winter Points	X System Multiplier	=	Heating Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Heating Points
16473.5	**0.6274**		**10335.5**	17656.9 **17656.9**	1.000 **1.00**	(1.053 x 1.169 x 0.93) **1.145**	0.501 **0.501**	1.000 **1.000**		10136.5 **10136.5**

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: Wise Estates, Plat: , Lake City, FL,** 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	1853.0	12.74	4249.3	Double, Clear	S	1.5	7.5	42.0	4.03	1.06	178.8
				Double, Clear	S	10.5	6.7	13.3	4.03	3.33	179.1
				Double, Clear	S	10.0	4.0	9.3	4.03	3.61	135.8
				Double, Clear	S	1.5	5.5	17.5	4.03	1.15	80.9
				Double, Clear	E	1.5	5.5	30.0	9.09	1.04	284.0
				Double, Clear	N	1.5	5.5	30.0	14.30	1.00	430.4
				Double, Clear	N	9.0	7.0	72.0	14.30	1.02	1051.7
				Double, Clear	N	1.5	6.5	36.0	14.30	1.00	515.9
				Double, Clear	W	1.5	6.5	21.3	10.77	1.02	234.2
				Double, Clear	N	1.5	5.5	30.0	14.30	1.00	430.4
				Double, Clear	W	1.5	5.5	20.0	10.77	1.03	221.4
				Double, Clear	W	1.5	5.0	16.0	10.77	1.03	178.2
				As-Built Total:				**337.5**			**3920.8**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	176.0	3.60	633.6	Frame, Wood, Adjacent	13.0	176.0	3.30	580.8
Exterior	1714.0	3.70	6341.8	Frame, Wood, Exterior	13.0	1714.0	3.40	5827.6
Base Total:	**1890.0**		**6975.4**	**As-Built Total:**		**1890.0**		**6408.4**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	18.0	11.50	207.0	Exterior Wood	20.0	12.30	246.0
Exterior	38.0	12.30	467.4	Exterior Wood	18.0	12.30	221.4
				Adjacent Wood	18.0	11.50	207.0
Base Total:	**56.0**		**674.4**	**As-Built Total:**	**56.0**		**674.4**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM =	Points
Under Attic	1853.0	2.05	3798.6	Under Attic	30.0	1853.0	2.05 X 1.00	3798.6
Base Total:	**1853.0**		**3798.6**	**As-Built Total:**		**1853.0**		**3798.6**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	210.0(p)	8.9	1869.0	Slab-On-Grade Edge Insulation	0.0	210.0(p	18.80	3948.0
Raised	0.0	0.00	0.0					
Base Total:			**1869.0**	**As-Built Total:**		**210.0**		**3948.0**

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: Wise Estates, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points				Area X	SPM	=	Points
	1853.0	10.21	18919.1				1853.0	10.21		18919.1
Summer Base Points:			**24351.0**	**Summer As-Built Points:**						**24253.0**
Total Summer Points	X System Multiplier		= Cooling Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
24351.0	**0.4266**		**10388.1**	24253.0 **24253.0**	1.000 **1.00**	(1.071 x 1.147 x 0.91) **1.118**	0.341 **0.341**	1.000 **1.000**		9253.3 **9253.3**

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: Wise Estates, Plat: , Lake City, FL,** 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	1853.0	20.04	6684.1	Double, Clear	S	1.5	7.5	42.0	34.50	0.91	1318.3	
				Double, Clear	S	10.5	6.7	13.3	34.50	0.47	215.4	
				Double, Clear	S	10.0	4.0	9.3	34.50	0.44	141.1	
				Double, Clear	S	1.5	5.5	17.5	34.50	0.83	502.4	
				Double, Clear	E	1.5	5.5	30.0	40.22	0.90	1081.5	
				Double, Clear	N	1.5	5.5	30.0	19.22	0.93	535.2	
				Double, Clear	N	9.0	7.0	72.0	19.22	0.67	930.8	
				Double, Clear	N	1.5	6.5	36.0	19.22	0.95	655.5	
				Double, Clear	W	1.5	6.5	21.3	36.99	0.93	731.5	
				Double, Clear	N	1.5	5.5	30.0	19.22	0.93	535.2	
				Double, Clear	W	1.5	5.5	20.0	36.99	0.90	663.5	
				Double, Clear	W	1.5	5.0	16.0	36.99	0.88	518.1	
				As-Built Total:				**337.5**			**7828.5**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	176.0	0.70	123.2	Frame, Wood, Adjacent			13.0	176.0	0.60		105.6	
Exterior	1714.0	1.70	2913.8	Frame, Wood, Exterior			13.0	1714.0	1.50		2571.0	
Base Total:	**1890.0**		**3037.0**	**As-Built Total:**				**1890.0**			**2676.6**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	18.0	2.40	43.2	Exterior Wood				20.0	6.10		122.0	
Exterior	38.0	6.10	231.8	Exterior Wood				18.0	6.10		109.8	
				Adjacent Wood				18.0	2.40		43.2	
Base Total:	**56.0**		**275.0**	**As-Built Total:**				**56.0**			**275.0**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	1853.0	1.73	3205.7	Under Attic			30.0	1853.0	1.73 X 1.00		3205.7	
Base Total:	**1853.0**		**3205.7**	**As-Built Total:**				**1853.0**			**3205.7**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	210.0(p)	-37.0	-7770.0	Slab-On-Grade Edge Insulation			0.0	210.0(p	-41.20		-8652.0	
Raised	0.0	0.00	0.0									
Base Total:			**-7770.0**	**As-Built Total:**				**210.0**			**-8652.0**	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 82.7

The higher the score, the more efficient the home.

EWPL INC, Lot: 22, Sub: Wise Estates, Plat: , Lake City, FL,

1. New construction or existing	New	
2. Single family or multi-family	Single family	
3. Number of units, if multi-family	1	
4. Number of Bedrooms	3	
5. Is this a worst case?	No	
6. Conditioned floor area (ft²)	1853 ft²	
7. Glass area & type		
a. Clear - single pane	0.0 ft²	
b. Clear - double pane	337.5 ft²	
c. Tint/other SHGC - single pane	0.0 ft²	
d. Tint/other SHGC - double pane	0.0 ft²	
8. Floor types		
a. Slab-On-Grade Edge Insulation	R=0.0, 210.0(p) ft	
b. N/A		
c. N/A		
9. Wall types		
a. Frame, Wood, Adjacent	R=13.0, 176.0 ft²	
b. Frame, Wood, Exterior	R=13.0, 1714.0 ft²	
c. N/A		
d. N/A		
e. N/A		
10. Ceiling types		
a. Under Attic	R=30.0, 1853.0 ft²	
b. N/A		
c. N/A		
11. Ducts		
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=128.0, 6.0 ft	
b. N/A		

12. Cooling systems		
a. Central Unit	Cap: 36.0 kBtu/hr	
	SEER: 10.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 36.0 kBtu/hr	
	HSPF: 6.80	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 40.0 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, RB-Attic radiant barrier, MZ-C-Multizone cooling, 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 850/488-1824.*

Prepared By: Rhodes#4
Return To 1242
US Title
2622-B2 NW 43rd St.
Gainesville, FL 32606

Rec. Fee 8.50
Doc Stmp Fee
Intang Tax
Total 8.50

* BEING RE_RECORDED TO CORRECT LEGAL DESCRIPTION.

Lot 22 also
Permit # 24215

PREPARED BY:
Carolyn Carter
Robertson & Anschutz, P.C.
10333 Richmond Avenue, Suite 550
Houston, TX 77042

AFTER RECORDED RETURN TO:

Bank of America, N.A.
1201 Main Street, 11th Floor
Dallas, Texas 75202

Inst:2006005468 Date:03/06/2006 Time:10:38
DC,P.DeWitt Cason,Columbia County B:1076 P:612

NOTICE OF COMMENCEMENT

Permit No. _____

Tax Folio No. R03113-152

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. Legal description of property (include street address, if available)
248 SW Melba Glen
Lake City, FL 32024

SEE EXHIBIT 'A' LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF FOR ALL PURPOSES

2. General description of improvement(s)

Construction of House

3. Owner information
Name: **Christian M. Cuadras and spouse, Michele P. Cuadras**
Address: **285 SW Dragonfly Court**
Lake City, FL 32024

4. Contractor information
Name: **EWPL, Inc.**
Address: **6210 SW Circle 18, Fort White, FL 32038**

Phone: 386-288-8666

5. Surety
Name: _____
Address: _____
_____

(R&A) 6302438 - flnoticom.bax - Rev. 01/03/2005

Inst:2006005167 Date:03/02/2006 Time:12:04
DC,P.DeWitt Cason,Columbia County B:1075 P:2556

LEGAL DESCRIPTION

LOT 22 , BLOCK "C", WISE ESTATES AS PER PLAT THEREOF RECORDED IN PLAT BOOK "7", PAGE 164 THROUGH 167, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY FLORIDA

UG-12426

Inst:2006005468 Date:03/06/2006 Time:10:38
DC,P.DeWitt Cason,Columbia County B:1076 P:614

6 of 22 w/SE

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001 ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1606 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE -------- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE --------110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS; Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☑	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☑	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☑	☑	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☑	**Wind-load Engineering Summary, calculations and any details required** a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional
☑	☐	**Elevations Including:**
☑	☑	a) All sides
☑	☑	b) Roof pitch
☑	☑	c) Overhang dimensions and detail with attic ventilation
☑	☐	d) Location, size and height above roof of chimneys
☑	☐	e) Location and size of skylights
☑	☑	f) Building height
☑	☑	e) Number of stories

Floor Plan Including:

- ☐ ☑ a) Rooms labeled and dimensioned
- ☐ ☑ b) Shear walls
- ☐ ☑ c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
- ☐ ☐ d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
- ☐ ☐ e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
- ☐ ☑ f) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan Including:

- ☐ ☑ a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing
- ☐ ☑ b) All posts and/or column footing including size and reinforcing
- ☐ ☐ c) Any special support required by soil analysis such as piling
- ☐ ☑ d) Location of any vertical steel

Roof System:

- ☐ ☑ a) Truss package including:
  1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
  2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- ☐ ☐ b) Conventional Framing Layout including:
  1. Rafter size, species and spacing
  2. Attachment to wall and uplift
  3. Ridge beam sized and valley framing and support details
  4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections Including:

- ☐ ☐ a) Masonry wall
  1. All materials making up wall
  2. Block size and mortar type with size and spacing of reinforcement
  3. Lintel, tie-beam sizes and reinforcement
  4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
  5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
  6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
  7. Fire resistant construction (if required)
  8. Fireproofing requirements
  9. Shoe type of termite treatment (termicide or alternative method)
  10. Slab on grade
      a. Vapor retardant (6mil. Polyethylene with joints lapped 6 inches and sealed)
      b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
  11. Indicate where pressure treated wood will be placed
  12. Provide insulation R value for the following:
      a. Attic space
      b. Exterior wall cavity
      c. Crawl space (if applicable)

b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termicide or alternative method)
11. Slab on grade
    a. Vapor retardant (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
b) Floor joist size and spacing
c) Girder size and spacing
d) Attachment of joist to girder
e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
b) Ceiling fans
c) Smoke detectors
d) Service panel and sub-panel size and location(s)
e) Meter location with type of service entrance (overhead or underground)
f) Appliances and HVAC equipment
g) Arc Fault Circuits (AFCI) in bedrooms

HVAC Information

a) Manual J sizing equipment or equivalent computation
b) Exhaust fans in bathroom

Energy Calculations (dimensions shall match plans)

Gas System Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner Builders

***Notice Of Commencement Required Before Any Inspections Will Be Done**

Private Potable Water

a) Size of pump motor
b) Size of pressure tank
c) Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.

2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued.
   (386) 758-1058 **(Toilet facilities shall be provided for construction workers)**

4. **City Approval:** If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321

5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
   A development permit will also be required. Development permit cost is **$50.00**

6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (**$25.00**) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (**$50.00**). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.

7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS –PLEASE DO NOT ASK

NOTICE:

ADDRESSES BY APPOINTMENT ONLY!

TO OBTAIN A 9-1-1 ADDRESS THE REQUESTER MUST CONTACT THE COLUMBIA COUNTY 9-1-1 ADDRESSING DEPARTMENT AT (386) 752-8787 FOR AN APPOINTMENT TIME AND DATE:

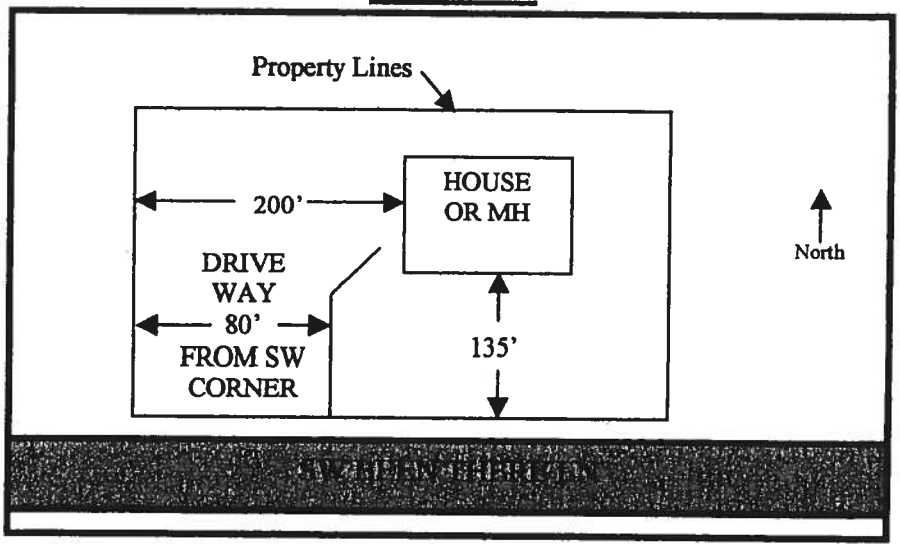
YOU CAN NOT OBTAIN A NEW ADDRESS OVER THE TELEPHONE. MUST MAKE AN APPOINTMENT!

THE ADDRESSING DEPARTMENT IS LOCATED AT 263 NW LAKE CITY AVENUE (OFF OF WEST U.S. HIGHWAY 90 WEST OF INTERSTATE 75 AT THE COLUMBIA COUNTY EMERGENCY OPERATIONS CENTER).

THE REQUESTER WILL NEED THE FOLLOWING:

1. THE PARCEL OR TAX ID NUMBER (SAMPLE: "25-4S-17-12345-123" OR "R12345-123) FOR THE PROPERTY.
2. A PLAT, PLAN, SITE PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
   a. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
   b. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
   c. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



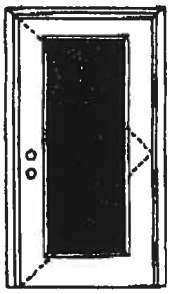
NOTE: 5 TO 7 WORKING DAYS MAY BE REQUIRED IF ADDRESSING DEPARTMENT NEEDS TO CONDUCT AN ON SITE SURVEY.

X
Glazed Inswing Unit

COP WL EN4141-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Test Data Review Certificate #30264-47C and COP Test Report Validation Matrix #30264-47C-001 provides additional information - available from the ITS/WH website (www.steeldoors.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure
+50.5/-50.5
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 addition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0001-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series


138 Series


650 Series


822 Series

1/2 GLASS:


105 Series*

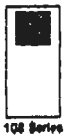

108, 160 Series*


120 Series*


200 Series*


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


107 Series*


108 Series


804 Series

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

Entergy
Entry Systems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

X
Glazed Inswing Unit

COP-WL FN4141-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:


404 Series


410 Series


450 Series

FULL GLASS:


100 Series


114, 180, 122 Series


152 Series


148 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top and rails constructed of 0.032" steel. Bottom end rails constructed of 0.032" 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 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 56533

Test Data Review Certificate #3028447C and COP/Test Report Validation Matrix #3028447C-001 provides additional information - available from the ITS/WH website (www.etswh.com). The Masonite website (www.masonite.com) or the Masonite technical center.

Entergy
Entry Systems

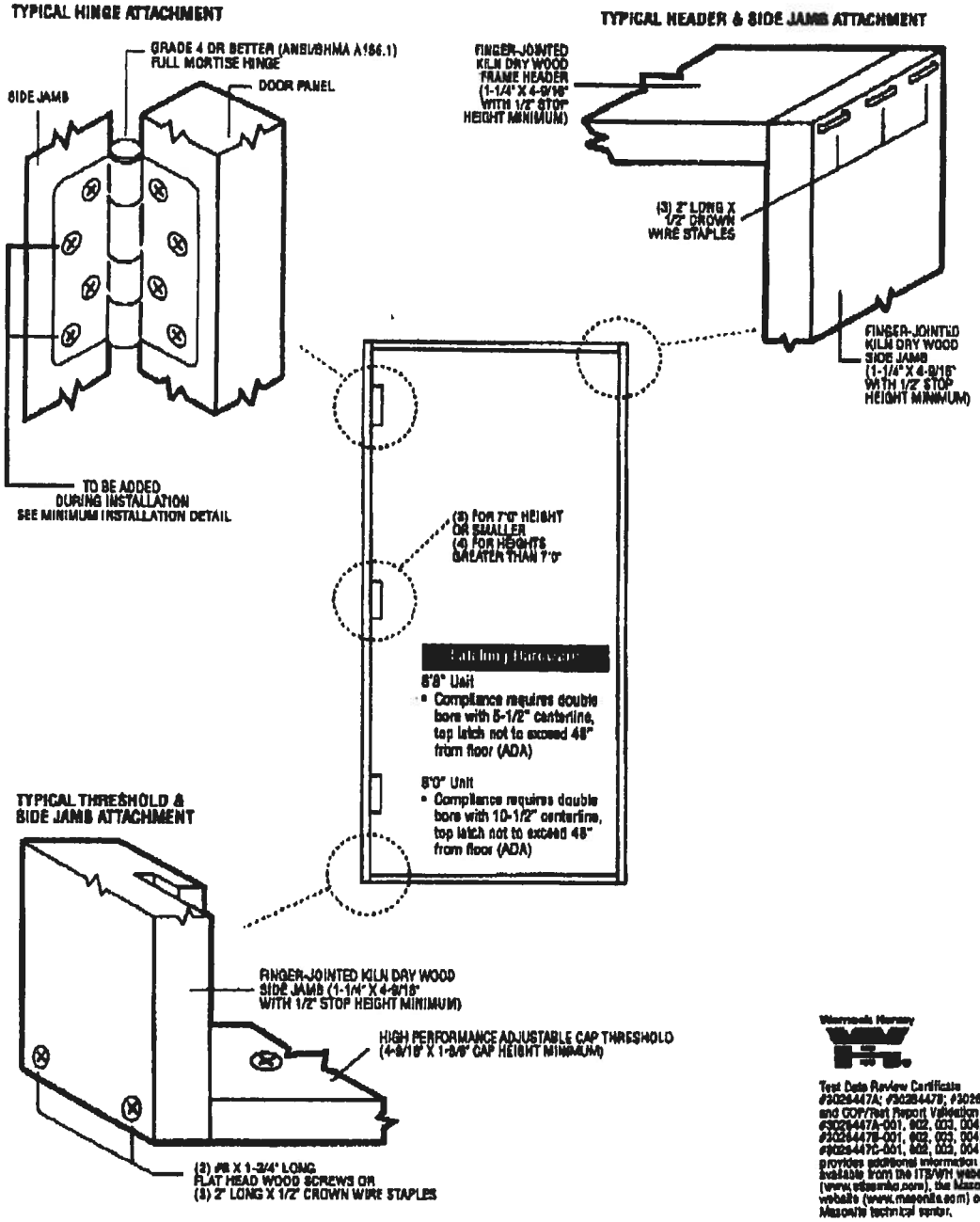
FREMDOR Premium Quality Doors

Exclusively from Masonite
Masonite International Corporation

X
Unit

MAD-WI-MA0001-02

INSWING UNIT WITH SINGLE DOOR



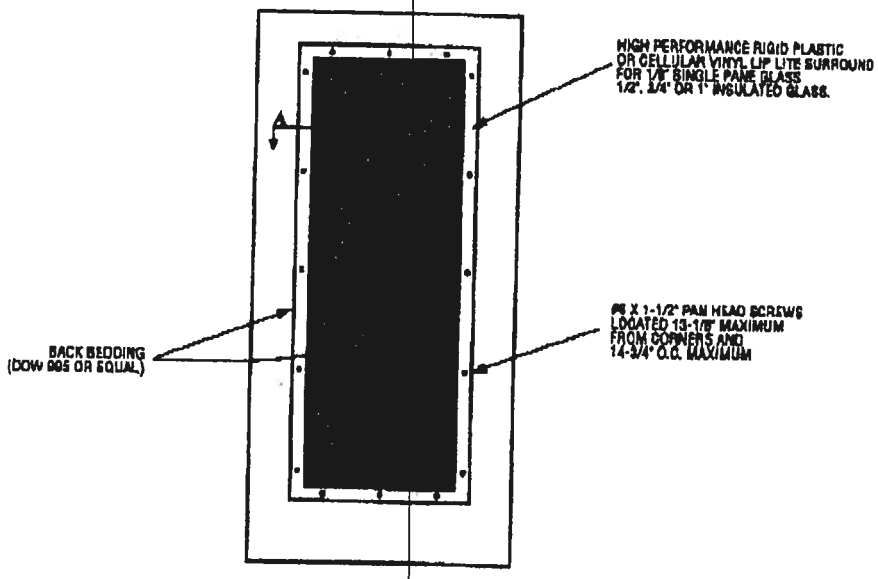
Warranty Warranty

Test Data Review Certificate #30284447A; #30284447B; #30284447C and CCMTest Report Validation Matrix #30284447A-001, 002, 003, 004; #30284447B-001, 002, 003, 004; #30284447C-001, 002, 003, 004 provides additional information - available from the ITS/WH website (www.ultsamko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

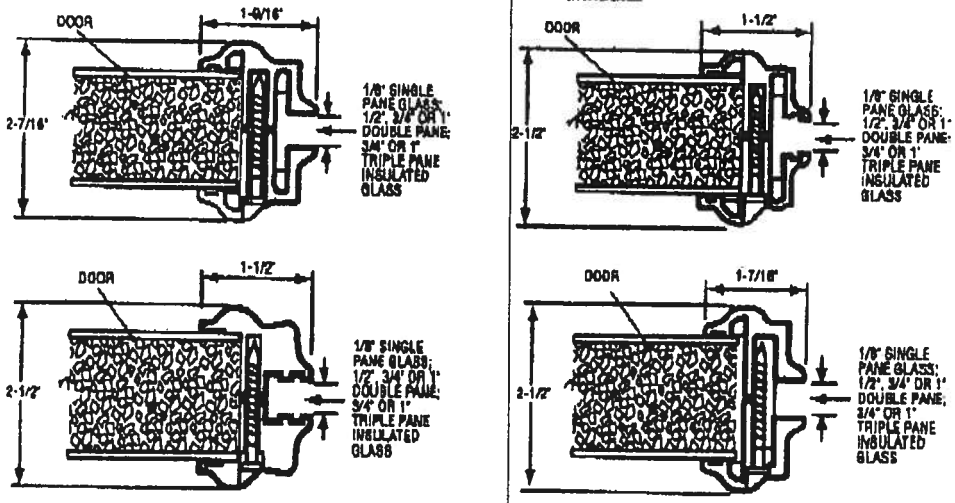
Masonite

MAD-WI-MA0041-02

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



*Glass inserts to be sub-listed by Intertek Testing Services/ETL Semko or approved validation service.

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and CCF/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

PREMDOOR Collection Fiberglass Quality Doors

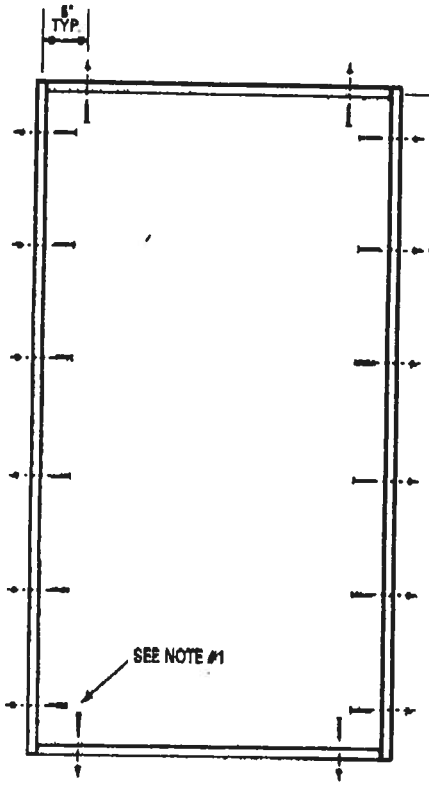
Exclusively from Masonite®

Masonite International Corporation

X
Unit

MID-WL-MA0001-02

SINGLE DOOR



Minimum Fastener Count

- 6 per vertical framing member
- 2 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4"

Warnock Hersey

Test Data Review Certificate #30264474; #30264478; #30264470 and COP/Test Report Validation Matrix #3026447A-001, 002, 003, 004; #3026447B-001, 002, 003, 004; #30264470-001, 002, 003, 004 provides additional information - available from the ITS/WH website (www.etsamia.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- **UNITS COVERED BY COP DOCUMENT 0246*, 0256*, 3241*, 3248, 3251* or 3258**
  Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel – (1) at top and (1) at bottom.

*Based on required Design Pressure – see COP sheet for details.

Notes:

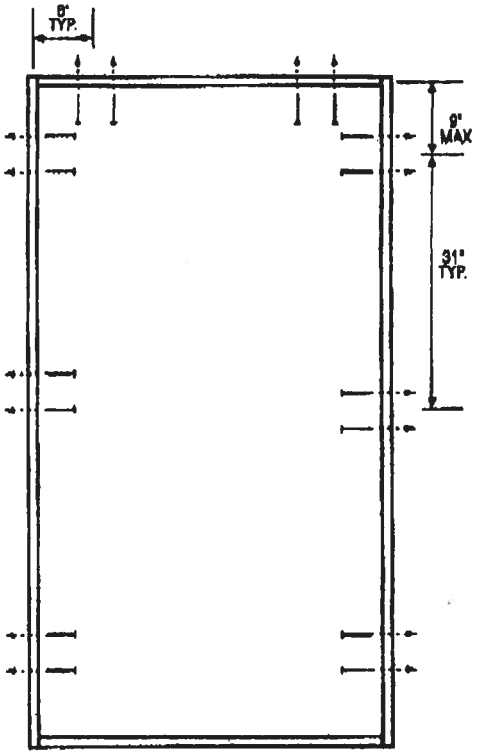
1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons. Threshold fasteners analyzed for this unit include #8 and #10 wood screws, 3/16" Tapcons, or Liquid Nails Builders Choice 490 (or equal structural adhesive).
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.

Masonite

X
Unit

MID-WL-MA0001-02

SINGLE DOOR



Minimum Fastener Count

- 6 per vertical framing member for 7'0" height and smaller
- 8 per vertical framing member for heights greater than 7'0"
- 4 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4"

Test Data Review Certificate #30284478; #30284478; #30284470 and COP/Test Report Validation Matrix #30284478-001, 002, 003, 004; #30284478-001, 002, 003, 004; #30284470-001, 002, 003, 004 provides additional information - available from the ITS/WH website (www.ctsonline.com), the Masonite website (www.masonite.com) or the Masonite technical office.

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- **UNITS COVERED BY COP DOCUMENT 0246*, 0266*, 3241*, 3248, 3251* or 3266**
  Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel – (1) at top and (1) at bottom.

*Based on required Design Pressure – see COP sheet for details.

Notes:

1. Anchor calculations have been carried out with the fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include 10d common nails. Threshold fasteners analyzed for this unit include Liquid Nails Builders Choice 490 (or equal structural adhesive).
2. The common nail single shear design values come from ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment of 1-1/4".
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

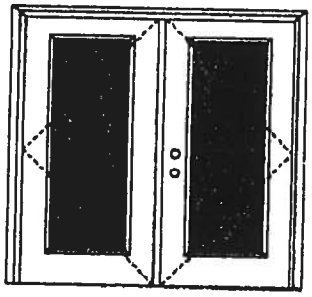
Masonite®

XX
Glazed Outswing Unit

COP-WL-TN4162-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Double Door
Maximum unit size – 6'0" x 6'8"

Design Pressure
+50.5/-50.5
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.

Wiss, Janney, Elstner Associates, Inc.

This Data Review Certificate #302864470 and COP/TEST Report Validation Matrix #302864470-001 provides additional information - available from the ITS/WH website (www.etsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

MINIMUM ASSEMBLY DETAIL:

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

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:
1/4 GLASS:


100 Series


133, 139 Series


130 Series


800 Series


822 Series

1/2 GLASS:


105 Series*


106, 140 Series*


129 Series*


200 Series*


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


107 Series*


108 Series


304 Series

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

Entergy
Entry Systems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

XX
Glazed Outswing Unit

COP-WI-FN4162-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:


404 Series


410 Series


450 Series

FULL GLASS:


100 Series


110, 120, 122 Series


132 Series


140 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.032" steel. Bottom end rails constructed of 0.032" 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 56533

Test Data Review Certificate #3028447C and COP/Test Report Validation Matrix #3028447C-001 provide additional information - available from the ITS/WH website (www.atlasrvs.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Entergy
Entry Systems

June 17, 2004
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Steel

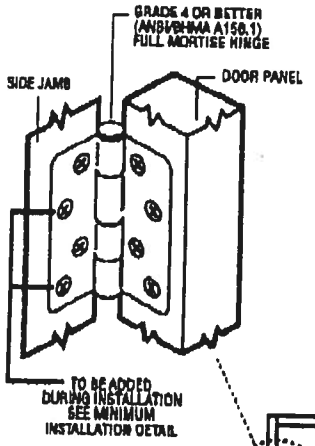
Exclusively from Masonite
Masonite International Corporation

XX
Unit

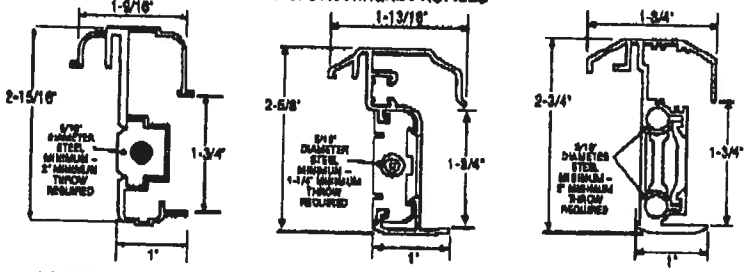
MAD-WL-MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR

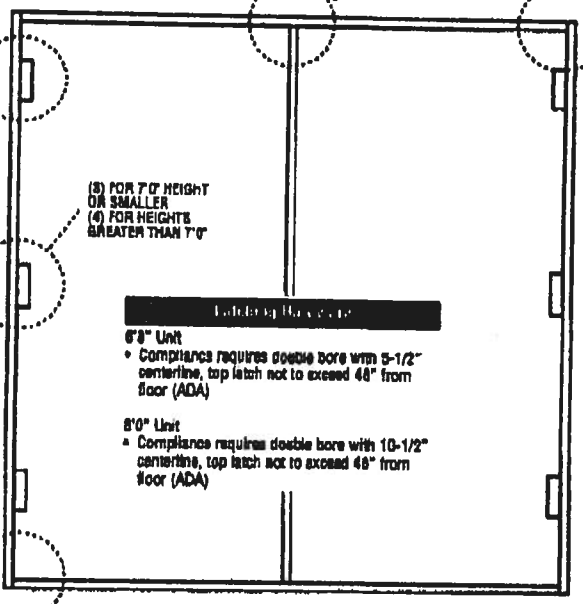
TYPICAL HINGE ATTACHMENT



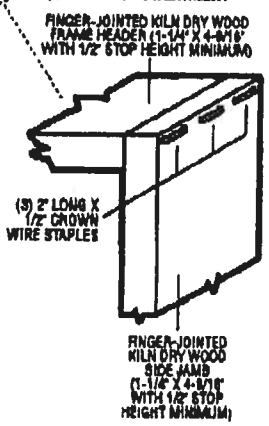
TYPICAL ASTRAGAL PROFILES



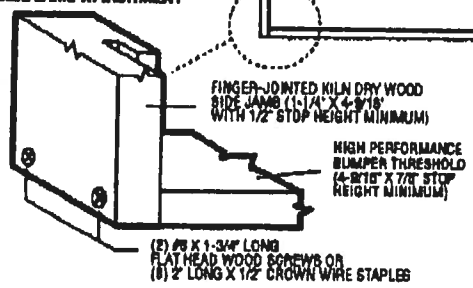
ALUMINUM EXTRUDED ASTRAGAL (0.08" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDERICAL/DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS – LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



TYPICAL HEADER & SIDE JAMB ATTACHMENT



TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT

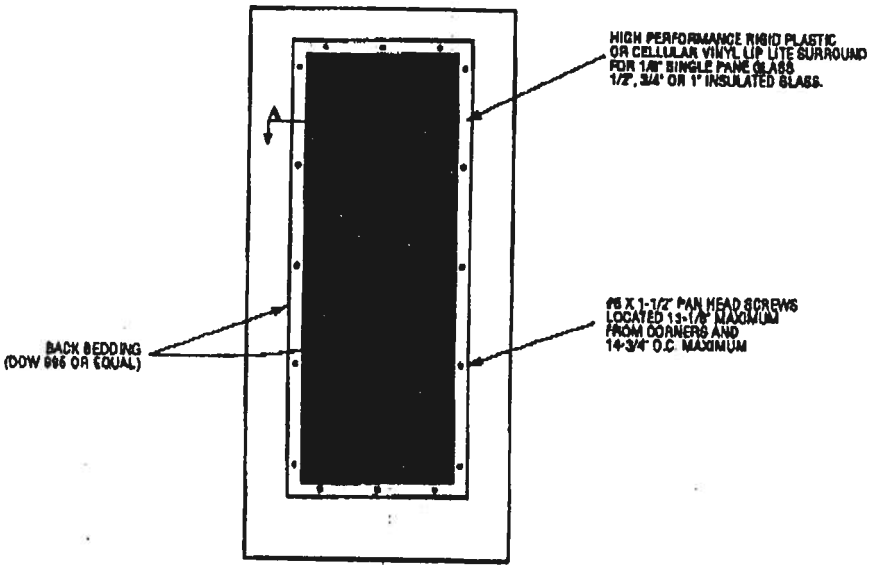


Test Data Review Certificate #30264447A; #30264447B; #30264447C and CCMTest Report Validation Matrix #30264447A-001; 002; 003; 004; #30264447B-001; 002; 003; 004; #30264447C-001; 002; 003; 004 provides additional information - available from the ITS/WH website (www.atlasmte.com), the Masonite website (www.masonite.com) or the Masonite technical center.

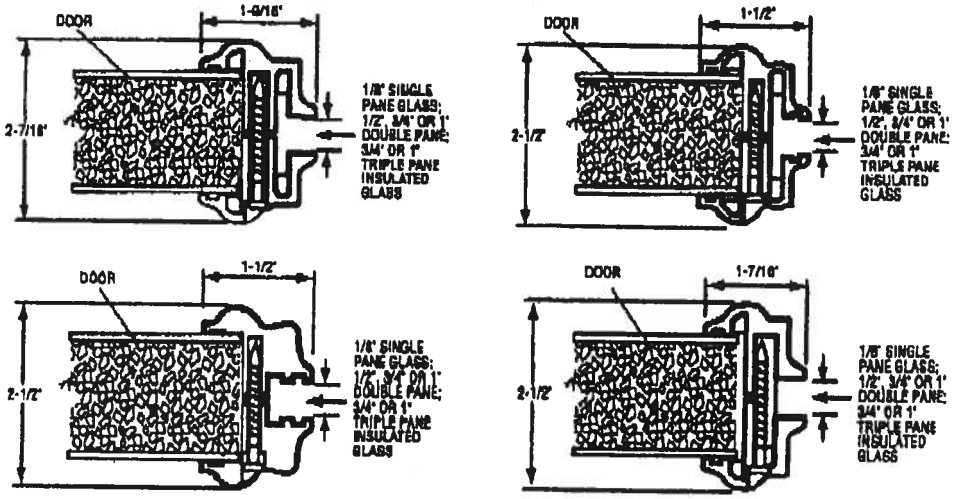
Masonite

MAD-WI-MA0041-02

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



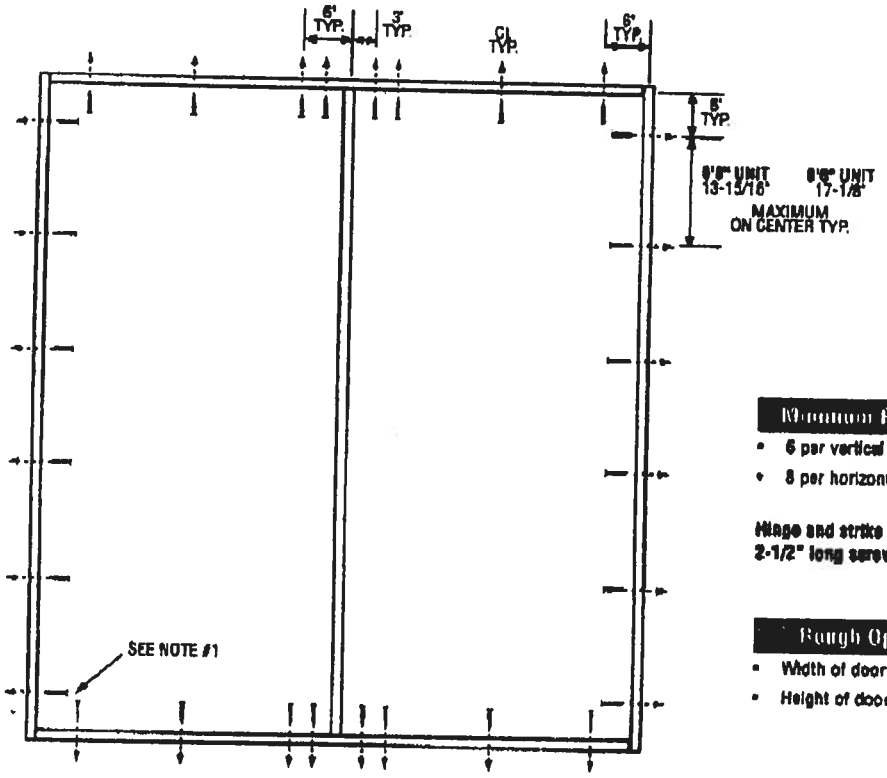
*Glass inserts to be sub-listed by Intertek Testing Services/ETL Semko or approved validation service.

Test Data Review Certificate #30284474; #30284478; #30284476 and COP/Test Report Validation Matrix #30284474-001, 002, 003; #30284478-001, 002, 003; #30284476-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

XX
Unit

MID-WL-MA0002-02

DOUBLE DOOR



Minimum Fastener Count

- 6 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4" .

Warnock Hersey — Intl Cert Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003, 004; #3026447B-001, 002, 003, 004; #3026447C-001, 002, 003, 004 provides additional information - available from the ITS/WH website (www.etsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- **UNITS COVERED BY COP DOCUMENT 6247*, 6287*, 3242*, 3247, 3292* or 3267**
  Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel – (1) at top and (1) at bottom.

*Based on required Design Pressure – see COP sheet for details.

Notes:

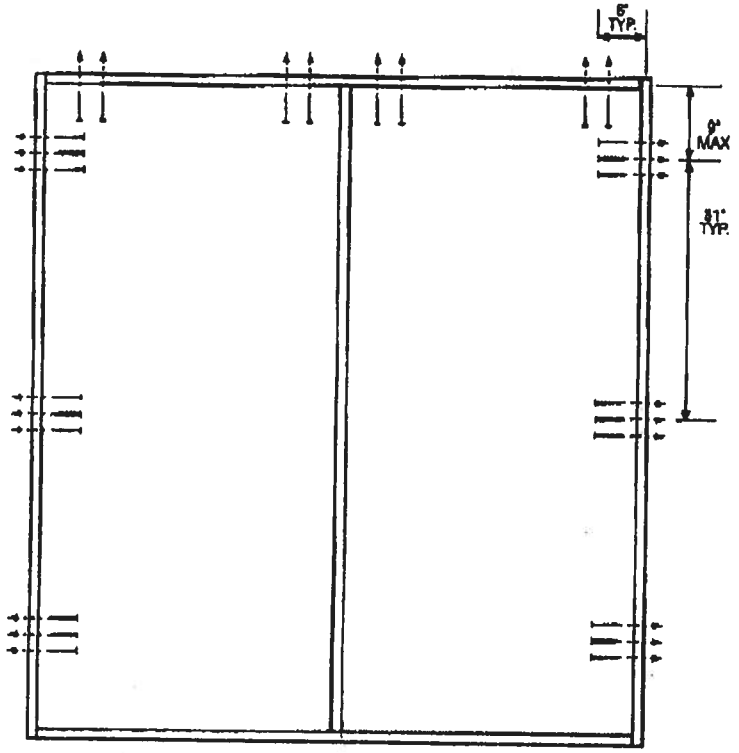
1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons. Threshold fasteners analyzed for this unit include #8 and #10 wood screws, 3/16" Tapcons, or Liquid Nails Builders Choice 490 (or equal structural adhesive).
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.

Masonite

XX
Unit

MID WL MA0002 02

DOUBLE DOOR



Minimum Fastener Count

- 6 per vertical framing member for 7'0" heights and smaller
- 8 per vertical framing member for heights greater than 7'0"
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4"

Weyerhaeuser Numerator

That Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3025447A-001, 002, 003, 004; #3026447B-001, 002, 003, 004; #3026447C-001, 002, 003, 004 provides additional information - available from the ITS/WH website (www.etsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- **UNITS COVERED BY COP DOCUMENT 0247*, 0267*, 3242*, 3247, 3262* or 3267**
  Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel – (1) at top and (1) at bottom.

*Based on required Design Pressure – see COP sheet for details.

Notes:

1. Anchor calculations have been carried out with the fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include #8 wood screws and 10d common nails. Threshold fasteners analyzed for this unit include Liquid Nails Builders Choice 490 (or equal structural adhesive).
2. The wood screw and common nail single shear design values come from ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment of 1-1/4".
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

Masonite®

MI HOME PRODUCTS

MI Home Products, Inc.
650 West Market St.
P.O. Box 370
Gratz, PA 17030-0370

(717) 365-3300
(717) 362-7025 Fax

740/744 Single Hung (Fin & Flange)
165 Single Hung (Fin & Flange)
BB165/740/744 Fixed (Fin & Flange)

- Test Reports
  - 165 Single Hung
    - #CTLA-787W (Fin)
    - #CTLA-787W-1 (Flange)
  - 740/744 Single Hung
    - #01-40351.03 (Fin)
    - #01-40351.04 (Flange)
  - 165/740/744 Fixed
    - #NCTL-310-0005-2.1 (Fin)
    - # NCTL-310-0005-5.1 (Flange)
    - #01-40486.03 (2-Panel Fixed)
- Installation Instructions
- Sample 110/120/140 MPH Labels

THIS FENESTRATION PRODUCT COMPLIES* WITH THE

NEW FLORIDA BUILDING CODE

FOR RESIDENTIAL BUILDINGS WITH A MEAN ROOF HEIGHT OF 30 FT. OR LESS, *EXPOSURE "B"* (WHICH IS INLAND OF A LINE THAT IS 1500 FT. FROM THE COAST), AND *WALL ZONE "5"* (INSTALLED NEAR THE CORNER OF THE BUILDING).

PER *ASTM E1300*, THE CORRECT GLASS THICKNESS, BASED ON THE *NEGATIVE* DESIGN PRESSURE (DP) LISTED BELOW, HAS BEEN INSTALLED IN THIS UNIT. THE GLASS THICKNESS IS BASED ON ITS' WIDTH, HEIGHT, AND ASPECT RATIO.

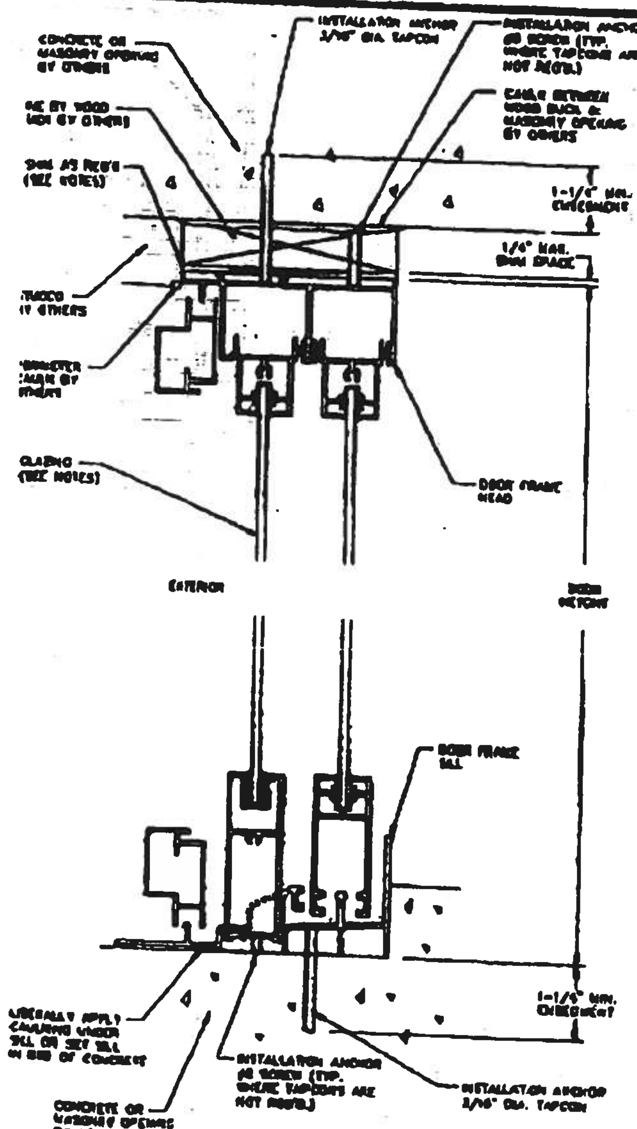
Series 470HP SLIDING GLASS DOOR – all 6'- 8" High Panels

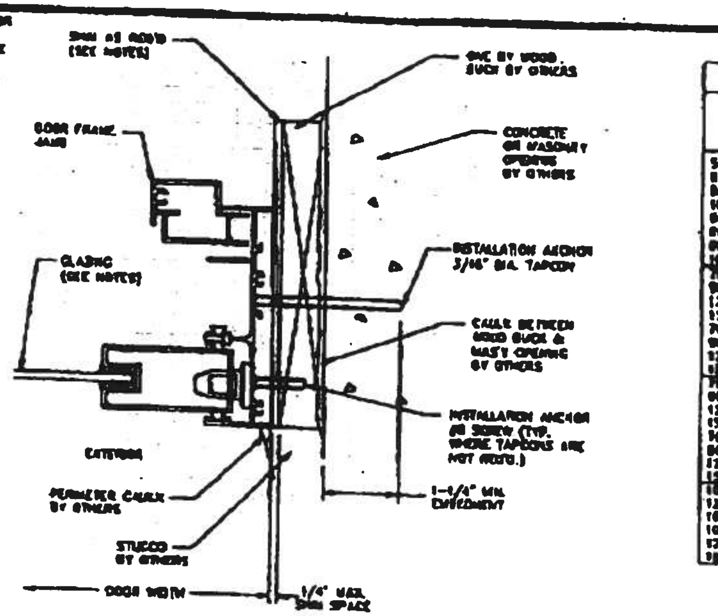
- **2'- 6" WIDE** DP + 40.0 / - 55.4
- **3'- 0" WIDE** DP + 40.0 / - 48.5
- **4'- 0" WIDE** DP + 40.0 / - 40.3

THIS PRODUCT MEETS THE REQUIREMENTS FOR STRUCTURAL LOADS, WATER AND AIR INFILTRATION PER ATTACHED *AAMA* PERFORMANCE LABEL. BE ADVISED THAT IF LOADS ARE PLACED UP TO OR EXCEEDING THE TESTED LEVELS, THIS PRODUCT MAY BE ALTERED IN SUCH A WAY THAT FUTURE PERFORMANCE WILL BE REDUCED.

* COMPLIANCE MUST INCLUDE INSTALLATION ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND FLORIDA CODE REQUIREMENTS.

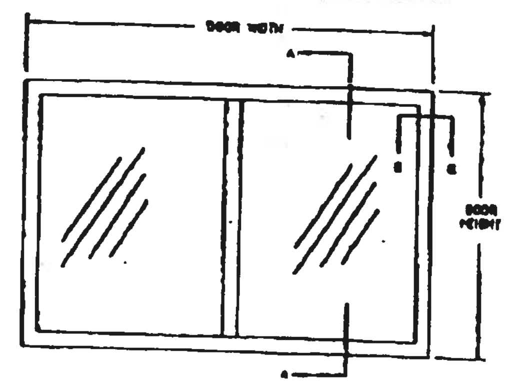
MIP-686





CALL SIZE	DOOR SIZE	LOCATION IN HEAD & SILL: UP TO 45 PSF DP	LOCATION IN HEAD & SILL: 46 PSF TO 60 PSF DP	LOCATION IN HEAD & SILL: 61 PSF TO 70 PSF DP	A. JAMB: UP TO 70 PSF DP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TAPCON INSTALLATION CHART



EXTERIOR ELEVATION

NOTES:

MI HOME PRODUCTS
GRATZ, PA.

SERIES 470 SLIDING GLASS DOOR INSTALLATION WITH TAPCONS			
MANUAL MARTINEZ	BB		1/28/02
CIVIL	N.T.S.		MHF0018
47182			1 OF 1

TOTAL P.04

Series V83 HORIZONTAL MULLION for SINGLE UNITS - Florida Flange

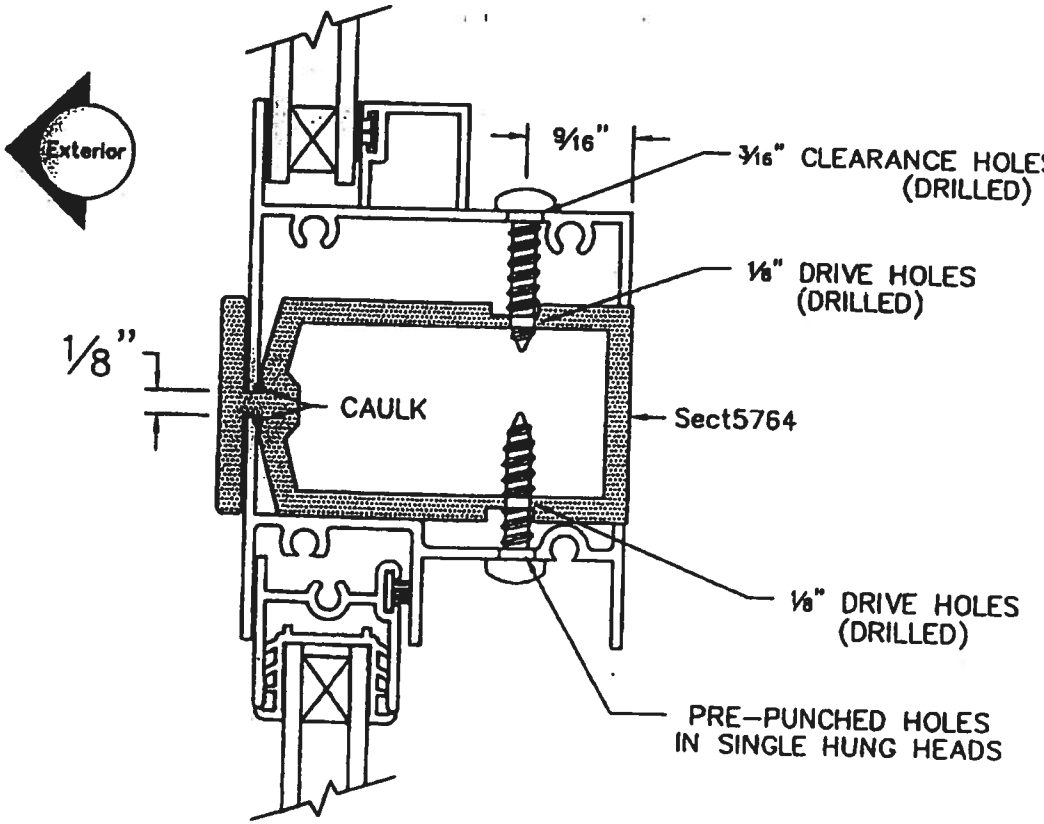
165 & 740/744

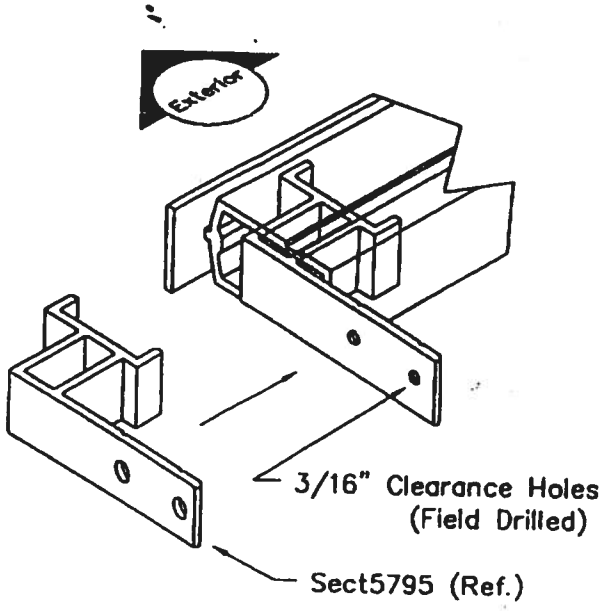
NOTE: LENGTHS FOR STANDARD WIDTH UNITS ARE 19⅛", 26½", 37", AND 53⅛".

Step 1. Position horizontal mull on top of lower unit as shown below. With 1/8" drill, drill up through pre-punched holes in the single hung heads into the mull. Before attaching with #8 x 3/4" screws (not included), run a full length bead of caulk in area shown.

Step 2. Position top unit on top of mull and drill 1/8" holes, in position shown, on same centers as lower unit. With 3/16" drill, re-drill holes in sill only and fasten with screws.

Step 3. Before lifting into rough opening, Drill two holes in each clip #SECT5795 and insert into each end of mull as shown below with tab pointing to inside. Fasten each clip tab to construction with two #10 x 1 1/2" screws for structural integrity.





M.I. HOME PRODUCTS

NOTE: SEE REVERSE SIDE FOR FASTENING REQUIREMENTS.

MULLV83B

DOCUMENT CONTROL ADDENDUM #01-40351.00

Current Issue Date: 02/15/02

Report No.: 01-40351.01

Requested by: William Emley, MI Home Products, Inc.
Purpose: AAMA/NWWDA 101/I.S.2-97 testing of Series/Model 744 aluminum single hung window with flange.
Issued Date: 12/28/01
Comments: Florida P.E. seal required on report.
Certification copy to John Smith at Associated Laboratories, Inc.

Report No.: 01-40351.02

Requested by: William Emley, MI Home Products, Inc.
Purpose: Change of glass type.
Issued Date: 12/28/01
Comments: Florida P.E. seal required on report.
Certification copy to John Smith at Associated Laboratories.

Report No.: 01-40351.03

Requested by: William Emley, MI Home Products, Inc.
Purpose: AAMA/NWWDA 101/I.S.2-97 testing of Series/Model 740/744 aluminum single hung window with nail fin.
Issued Date: 02/15/02
Comments: Florida P.E. seal required on report.
Certification copy to John Smith at Associated Laboratories, Inc.

Allen N. Reeves
15 FEBRUARY 2002

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.8	Forced Entry Resistance per ASTM F 588-97		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 thru A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.4.1	Uniform Load Deflection per ASTM E 330 (Measurements reported were taken on the meting rail) (Loads were held for 52 seconds)		
	@ 45.0 psf (positive)	0.91"*	0.29" max.
	@ 45.0 psf (negative)	0.97"*	0.29" max.
4.4.2	Uniform Load Structural per ASTM E 330 (Measurements reported were taken on the meeting rail) (Loads held for 10 seconds)		
	@ 67.5 psf (positive)	0.14"	0.20" max.
	@ 67.5 psf (negative)	0.19"	0.20" max.
4.4.2	@ 70.8 psf (negative)	0.20"	0.20" max.

** Exceeds L/175 for deflection, but meets all other test requirements.*

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

MAH:baw
01-40351.03

Allen N. Reeves, P.E.
Director - Engineering Services
15 FEBRUARY 2002

ALLEN N. REEVES
CERTIFICATE NO. 19354
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into the #2 2 x 8 Spruce-Pine-Fir wood buck with 1" galvanized roofing nails through the nail fin every 8" on center. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	24 lbs	30 lbs max.
2.1.2	Air Infiltration (ASTM E 283) @ 1.57 psf (25 mph)	0.10 cfm/ft^2	0.30 cfm/ft^2 max.

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.

2.1.3	Water Resistance (ASTM E 547-96) (with and without screen) WTP = 6.75 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection per ASTM E 330 (Measurements reported were taken on the meeting rail) (Loads were held for 52 seconds)		
	@ 15.0 psf (positive)	0.86"*	0.29" max.
	@ 15.0 psf (negative)	0.81"*	0.29" max.

*Note: * Exceeds L/175 for deflection, but meets all other test requirements.*

2.1.4.2	Uniform Load Structural per ASTM E 330 (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 22.5 psf (positive)	0.01"	0.20" max.
	@ 22.5 psf (negative)	<0.01"	0.20" max.
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction at 70 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.03"/6%	0.50"/100%
	Right stile	0.03"/6%	0.50"/100%

Allen N. Reeves
15 FEBRUARY 2002

ALLEN N. REEVES CERTIFICATE NO. 13354 STATE OF FLORIDA PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.330" high by 0.187" backed polypile with center fin	1 Row	Fixed meeting rail interlock
0.170" high by 0.187" backed polypile with center fin	1 Row	Fixed lite, stiles and top rail
3/8" diameter hollow bulb gasket	1 Row	Bottom rail
0.310" high by 0.187" backed polypile with center fin	1 Row	Active sash stiles
0.150" high by 0.187" wide polypile	1 Row	Active sash stiles

Frame Construction: All frame members were constructed of extruded aluminum with coped, butted and sealed corners fastened with two screws each. Fixed meeting rail was secured utilizing one screw in each end directly through exterior face into jamb. Silicone was utilized around exterior meeting rail/jamb joinery.

Sash Construction: All sash members were constructed of extruded aluminum with coped and butted corners fastened with one screw each.

Screen Construction: The screen frame was constructed from roll-formed aluminum members with plastic keyed corners. The screening consisted of a fiberglass mesh and was secured with a flexible vinyl spline.

Hardware:

Description	Quantity	Location
Plastic tilt latch	2	One each end of the interior Meeting rail
Metal sweep lock	2	13" from meeting rail ends
Balance assembly	2	One per jamb
Screen tension spring	2	One per end of screen stile
Tilt pin	2	One each end of bottom rail

Allen N. Reeves
15 FEBRUARY 2002

ALLEN N. REEVES
CERTIFICATE
NO. 19356
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-40351.03
Test Dates: 10/22/01
And: 10/23/01
Report Date: 02/15/02
Expiration Date: 10/23/05

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness performance testing on a Series/Model 740/744, aluminum single hung window at MI Home Products, Inc.'s test facility in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for a H-R45 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 740/744

Type: Aluminum Single Hung Window With Nail Fin

Overall Size: 4' 4-1/8" wide by 5' 11-5/8" high

Active Sash Size: 4' 2-3/4" wide by 2' 11-5/8" high

Fixed Daylight Opening Size: 4' 1-1/8" wide by 2' 9" high

Screen Size: 4' 1-7/8" wide by 2' 11-5/16" high

Finish: All aluminum was polished.

Glazing Details: The active sash and fixed lite were glazed with one sheet of 1/8" thick clear tempered glass. Each sash was channel glazed using a flexible vinyl gasket.

ALLEN N. REEVES
CERTIFICATE
NO. 19354
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Allen N. Reeves

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.testatl.com

Anthony POWER HEADER®
2600F_b - 1.9E

Anthony POWER HEADER® Advantages

- Less Expensive than LVL or PSL
- Lighter than Steel, LVL or PSL
- Pre-Cut Lengths
- Renewable Resource
- Cambered or Non-cambered
- 3-1/2" Width to Match Framing
- One Piece - No Nail Laminating
- Lifetime Warranty

Garage Header Sizing Tables

ANTHONY®
ANTHONY FOREST PRODUCTS CO.

Anthony POWER HEADER®

$26F_b$ - 1.9E

3-1/2" WIDTH GARAGE HEADER APPLICATION - SINGLE STORY

HEADER SUPPORTING: 1/2 ROOF SPAN

SNOW LOAD AREAS USING 1.15 LOAD DURATION FACTOR																		
9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"
8-3/8	11-1/4	12-5/8	8-3/8	12-5/8	14	8-3/8	12-5/8	14	8-3/8	12-5/8	14	8-3/8	14	15-3/8	8-3/8	14	16-3/4
8-3/8	12-5/8	14	8-3/8	12-5/8	14	8-3/8	12-5/8	14	8-3/8	12-5/8	15-3/8	8-3/8	14	15-3/8	8-3/8	15-3/8	
8-3/8	12-5/8	14	8-3/8	12-5/8	14	8-3/8	12-5/8	15-3/8	8-3/8	14	15-3/8	8-3/8	14	16-3/4	9-3/4	15-3/8	
8-3/8	12-5/8	14	8-3/8	12-5/8	15-3/8	8-3/8	14	15-3/8	8-3/8	14	15-3/8	8-3/8	15-3/8		9-3/4		
8-3/8	12-5/8	14	8-3/8	14	15-3/8	8-3/8	14	15-3/8	8-3/8	15-3/8	16-3/4	9-3/4	15-3/8		9-3/4		
8-3/8	14	15-3/8	8-3/8	14	15-3/8	8-3/8	14	16-3/4	8-3/8	15-3/8		9-3/4			9-3/4		
8-3/8	14	15-3/8	8-3/8	14	16-3/4	8-3/8	15-3/8		9-3/4	15-3/8		9-3/4			9-3/4		
8-3/8	14	15-3/8	8-3/8	15-3/8		8-3/8	15-3/8		9-3/4			9-3/4			11-1/4		
8-3/8	14	16-3/4	8-3/8	15-3/8		9-3/4	15-3/8		9-3/4			9-3/4			11-1/4		

NON-SNOW LOAD AREAS USING LOAD DURATION FACTOR																	
9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"	9'-3"	16'-3"	18'-3"
8-3/8	11-1/4	12-5/8	8-3/8	11-1/4	12-5/8	8-3/8	11-1/4	12-5/8	8-3/8	11-1/4	12-5/8	8-3/8	12-5/8	14
8-3/8	11-1/4	12-5/8	8-3/8	11-1/4	12-5/8	8-3/8	11-1/4	12-5/8	8-3/8	12-5/8	14	8-3/8	12-5/8	14
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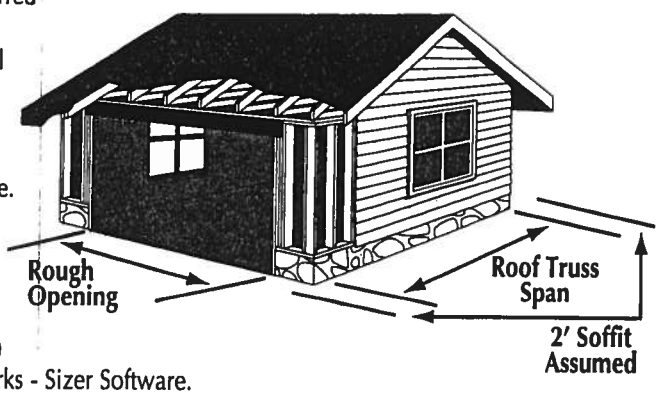
8-3/8	12-5/8	14	8-3/8	12-5/8	14	8-3/8	14	15-3/8	8-3/8	14	15-3/8	8-3/8	14	

NOTES:

1. Table assumes a simple span header supporting a uniform load transferred from 1/2 the roof span plus a 2' soffit.
2. Roof live and dead loads shown are applied vertically to the horizontal projection. No reductions in roof live loads or snow loads were considered. The header weight is accounted for in the table.
3. Deflection is limited to L/240 for live load and L/180 for total load.
4. Headers are assumed to have continuous lateral support along top edge.
5. Bearing length based on full width bearing is indicated as follows:
   Non-shaded sizes require two trimmers (3" bearing).
   Shaded sizes require three trimmers (4.5" bearing).
   Shaded & outlined sizes require four trimmers (6" bearing).
6. ** Applications where load carrying capacity of 16-3/4" depth has been exceeded. See AFP $30F_b$ POWER BEAM® literature or AFP's WoodWorks - Sizer Software.



Anthony Power Header®

$26F_b$ - 1.9E

3-1/2" WIDTH GARAGE HEADER PLF CAPACITY

844	896		1216		1573						
161	207	254	330	390	510	552	669	752	824		
114	145	180	231	277	359	391	510	534	653	707	789

844	975		1322								
161	207	254	330	390	510	552	724	752	897		
114	145	180	231	277	359	391	510	534	699	693	

562	778	888	1056	1363	1367		1582						
107	153	169	245	260	380	368	540	501	715	664	864	840	
76	107	120	171	185	267	261	380	356	521	471	684	609	813

NOTES:

1. Values shown are the maximum uniform loads in pounds per lineal foot (PLF) that can be applied to the header. Header weight has been subtracted from the allowable total load.
2. Tables are based on simple span uniform load conditions using a design span equal to the center-to-center of bearing. Non-shaded areas are based on 3" of bearing at each support, shaded areas on 4.5" of bearing, and shaded & outlined areas on 6" of bearing at supports.
3. Headers are assumed to be loaded on the top edge with continuous lateral support along compression edge.
4. When no live load is listed, total load controls.
5. Deflection limits are listed within the PLF table heading.

GARAGE HEADER SIZING USING PLF TABLES:

To size a garage header supporting roof only, determine the total load & live load in pounds per lineal foot (PLF). Check the appropriate PLF table for a header supporting roof loads only (125% Non-Snow vs. 115% Snow) and select a member with a total load and live load capacity which meets or exceeds the design load for the rough opening size. For a garage header supporting roof, wall, and floor framing, determine the total load and live load in pounds per lineal foot (PLF). Select a header size from the roof, wall, and floor table (100% load duration) which has a total load and live load capacity equal to or greater than the design load for the appropriate rough opening.

Anthony Power Header®

$26F_b$ - 1.9E

ENGINEERED WOOD SECTION PROPERTIES AND LOAD CAPACITIES

ALLOWABLE DESIGN STRESSES (PSI):

	FLEXURAL STRESS (F_b) =	2600
	COMPRESSION PERP. TO GRAIN ($F_{c\perp}$) =	740
	HORIZONTAL SHEAR (F_v) =	225
	MODULUS OF ELASTICITY (MOE) =	1.9×10^6

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	7.7	9.0	10.4	11.7	12.9	14.2	15.5
[illegible]	326	514	789	1115	1521	2014	2604
[illegible]	8865	12015	15996	20145	24772	29877	35460
[illegible]	3908	4550	5250	5892	6533	7175	7817

NOTES:

1. Beam weights are based on 38 pcf.
2. Moment capacities are based on a span of 21 feet and must be modified for other spans.
3. Flexural Stress, F_b, shall be modified by the Volume Factor, C_v, as outlined in AITC 117 - Design 1993 and the NDS for Wood Construction 1997.
4. Allowable design properties and load capacities are based on a load duration of 100 percent and dry use conditions.
5. The AITC NER 466 was used in calculating the above allowable design stresses for Power Header®.

GARAGE HEADER COMPARISONS

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	810 / 540	3-1/2" x 8-3/8"	3-1/2" x 9-5/8"	3-1/2" x 9"	3-1/2" x 9-1/4"	3-1/2" x 11-1/4"**
[illegible]	990 / 720	3-1/2" x 9-3/4"	3-1/2" x 9-5/8"	3-1/2" x 10-1/2"	3-1/2" x 9-1/4"	3-1/2" x 11-1/4"**
[illegible]	640 / 400	3-1/2" x 12-5/8"	3-1/2" x 13-3/4"	3-1/2" x 13-1/2"	3-1/2" x 14"	3-1/2" x 14"*
[illegible]	765 / 510	3-1/2" x 14"	3-1/2" x 15-1/8"	3-1/2" x 15"	3-1/2" x 14"	3-1/2" x 16"*
[illegible]	750 / 480	3-1/2" x 15-3/8"	3-1/2" x 16-1/2"	3-1/2" x 16-1/2"	3-1/2" x 16"	3-1/2" x 18"*
[illegible]	900 / 600	3-1/2" x 16-3/4"	3-1/2" x 17-7/8"	3-1/2" x 18"	3-1/2" x 16"	-----

For more information on Power Header®, or other laminated structural products from Anthony Forest Products Company please call 1-800-221-2326 or FAX at 870-862-6502.

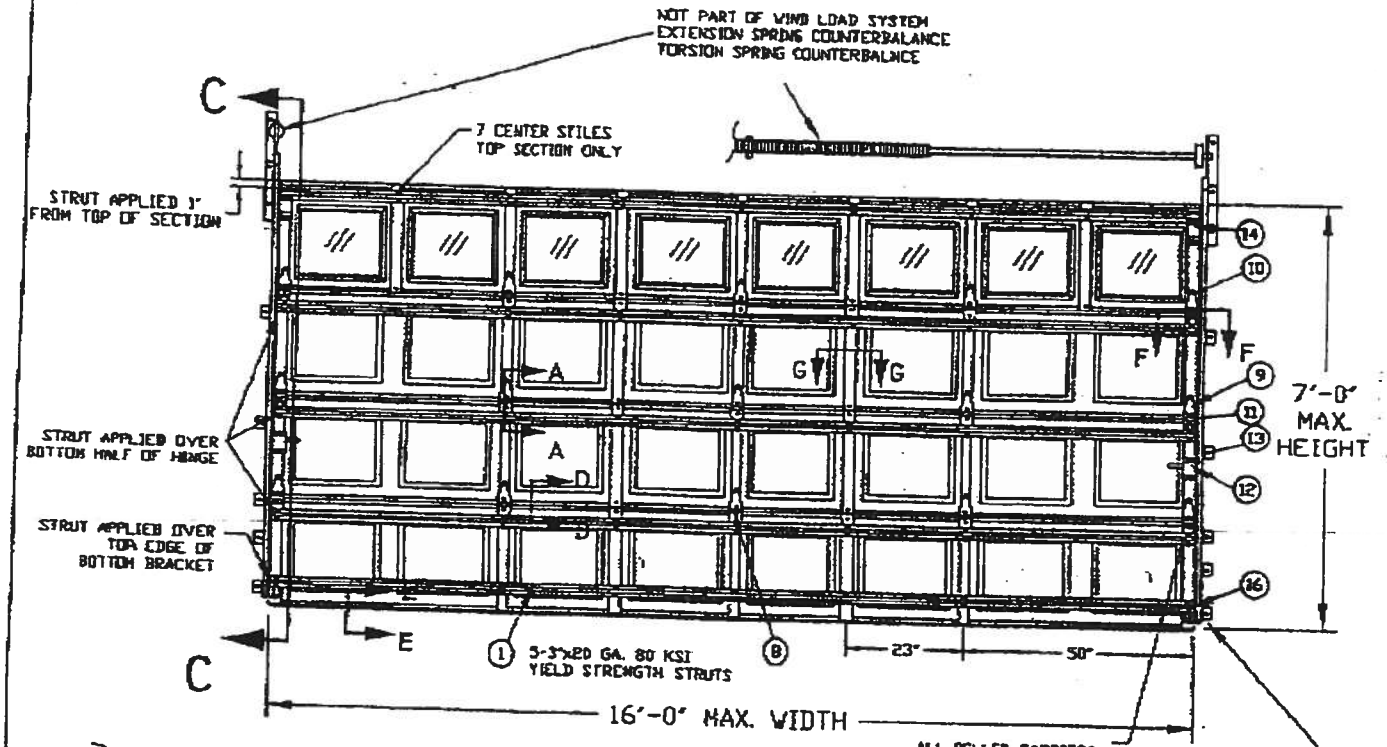
Power Header® is a trademark of
Anthony Forest Products Company
Post Office Box 1877 • El Dorado, Arkansas 71731
Internet address: http:// www.anthonyforest.com
e-mail: info@anthonyforest.com

Distributed by:

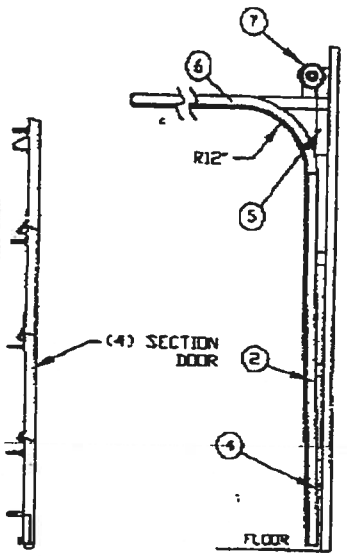
REV.	DATE	BY	DESCRIPTION
A-A	11-10-00	DW	SEE E.C.N. 831

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



SEC C-C
VERTICAL TRACK, (16 GA.)

12 GA. JAMB BRACKETS, MAXIMUM SPACING = 19-1/2" WITH LOWEST BRACKET APPROX. 3" FROM FLOOR, 2ND BRACKET NEAR THE HORIZONTAL ℄ OF THE BOTTOM SECTION, AND 3RD BRACKET NEAR THE TOP OF THE BOTTOM SECTION

The seal on this drawing only certifies that the product(s) illustrated and described hereon represent the configuration(s) of dimensions and installation(s) of the door as tested.

SEAL
PE No. 024280
NORTH CAROLINA PROFESSIONAL ENGINEER
ROGER R. MEYVAN

LISTED SPDA PST-A-ES
REPORT No. 2202

TEST REPORTS ON FILE: VIDEO 10/19/00 (00293)

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.

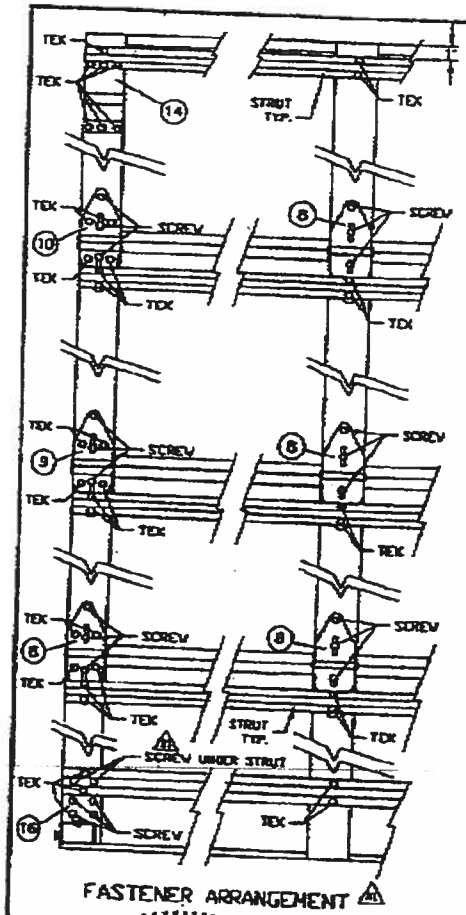
GADCO
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: 3/8	APPROVED BY:	DRAWN BY: R. MEYVAN
DATE: 10-20-00		REVISED (A) 11-10-00

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

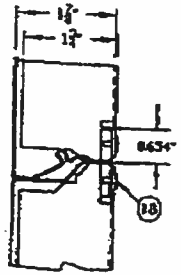
PART NUMBER: PAGE 1 OF 2

DRAWING NUMBER: W13220-1

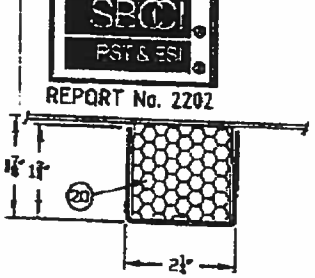


FASTENER ARRANGEMENT

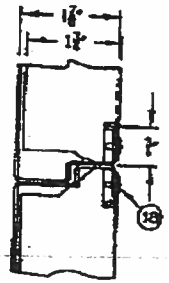
LISTED
SBCCI PST & ESI
REPORT No. 2202



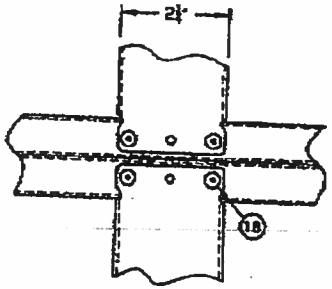
SEC D-D
PAN ATTACHMENT TO STILE (OPTIONAL)



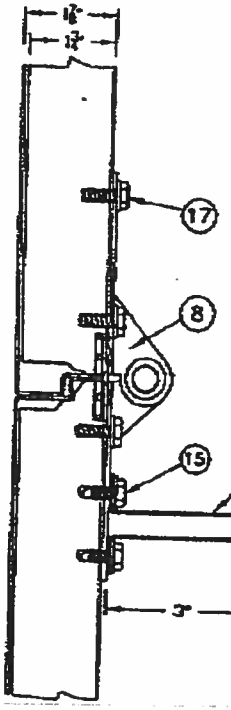
SEC G-G
CENTER STILE
20 GA. GALVANIZED



SEC D-D
PAN ATTACHMENT TO STILE (AS TESTED)

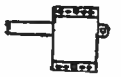


PAN ATTACHMENT TO STILE

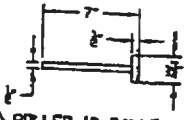


SEC A-A

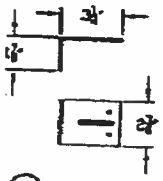
TRACK
16 GA. (.055 MIN.)



(12) SIDE LOCK

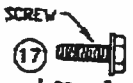


(11) ROLLER 10 BALLS



(4) #6 JAMB BRACKET

5-3"x20 GA. 80 KSI YIELD STRENGTH HEMMED STRUT APPLIED WITH 2 TEK SCREWS PER HINGE OR STILE LOCATION (14 PER STRUT, MINIMUM)

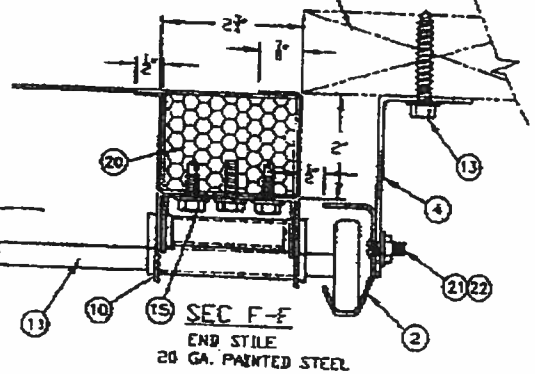


SCREW (17)
1/4-20 x 3/4 HEX WASHERHEAD SCREW

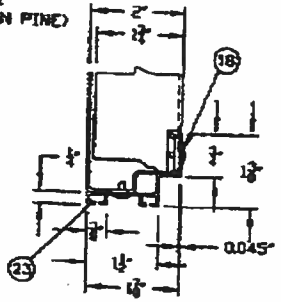
TEK (15)
1/4-20 x 3/4 HWH TEK SCREW WITH #2 REDUCED POINT

ITEM	PART NO.	DESCRIPTION
23	3485	BOTTOM RAIL, 6063 T6 ALUM EXT.
22	1398	1/4"-20 X 5/8" RIBBED NECK SCREW
21	4444	1/4"-20 SERRATED FLANGE NUT
20		1 LB DENSITY FILLER BLOCK EPS
19		
18	4385	POP RIVET, 3/32" STEEL
17	4226	HEX WASHERHEAD SCREW 1/4"-20 X 3/4"
16	1399LEB	BOTTOM SEALER BRACKET
15	0138	HWH TEK SCREW 1/4-20 X 3/4 W/ REDUCED PT.
14	3875	TOP SUPPORT BRACKET
13	4443	5/16" X 1-5/8" LAG SCREW
12	4719	SIDE LOCK
11	4106	LONG STEM ROLLER 2"
10	4203	ROLLER CARRIER HINGE #1 (14 GA)
9	4202	ROLLER CARRIER HINGE #2 (14 GA)
8	4201	ROLLER CARRIER HINGE #3 (14 GA)
7		COUNTER BALANCE (TORSION BAR & SPRINGS)
6		HORIZONTAL TRACK & ANGLE (16 GA)
5		VERTICAL FLAG ANGLE
4	4385-S	TRACK BRACKET #6 (12 GA)
3		
2		VERTICAL TRACK (16 GA)
1		5" HEMMED STRUTS (14 GA) MIN. YIELD STR. 80KSI

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 ENGINEER

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.

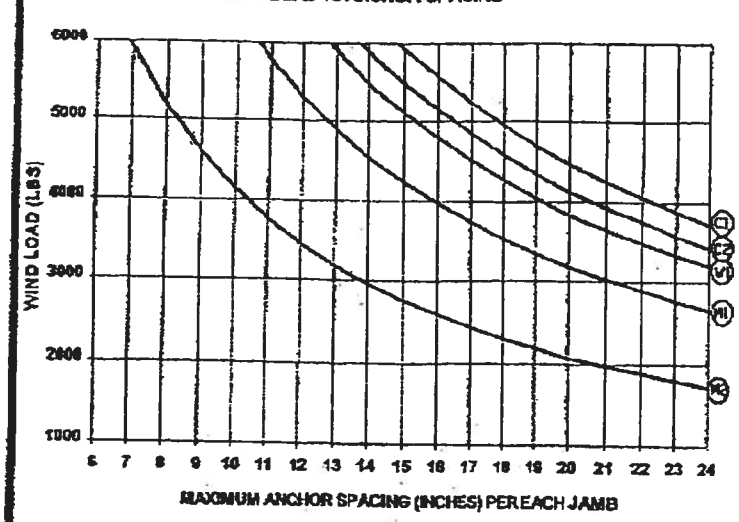
GADCO
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE | APPROVED BY: | DRAWN BY: B. VECHAN
DATE 11-7-00 | REVISED (3) 12-1-00

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

PAGE 2 OF 2 | DRAWING NUMBER V13220-2

REV.	DATE	BY	DESCRIPTION
3	11-27-00	DWL	ADD #20 FILLER BLOCK
2	12-1-00	DWL	ADD #20 FILLER BLOCK



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(CMU) BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-3/8" EMBEDMENT

M2 MASONRY(CMU) BACKUP ITW BUILDEX TAPCON MASONRY ANCHOR 1/4" DIA. 1-3/4" EMBEDMENT

V1 WOOD STUD BACKUP LAG SCREWS 5/16" DIA. 1-1/2" EMBEDMENT

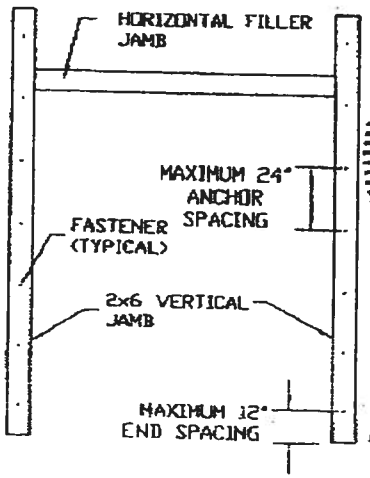
DESIGN LOAD (LBS/FT²) X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

EXAMPLE

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

- C1 USE 22" SPACING
- C2 USE 21" SPACING
- V1 USE 19" SPACING
- M1 USE 16" SPACING
- M2 USE 10" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS



NORTH CAROLINA PROFESSIONAL SEAL PE No. 024280 ENGINEER NASER R KEYVAN

3/8/2002

NASER R KEYVAN NC 5374 STATE OF FLORIDA PROFESSIONAL ENGINEER

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 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

GADCO®

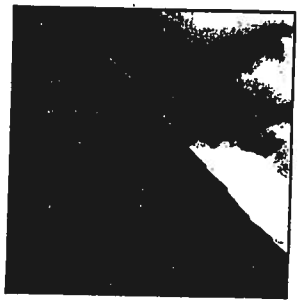
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

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

DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

MASTER DRAWING NUMBER: A10560 DRAWING NUMBER

ELK



PRESTIQUE®
HIGH DEFINITION®

RAISED PROFILE™

Prestique Plus *High Definition* and Prestique Gallery Collection™

Product size . . . 13¼"x 39¾"
Exposure . . . . . 5¾"
Pieces/Bundle . . . 16
Bundles/Square . . . 4/98.5 sq.ft.
Squares/Pallet 11

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

Prestique I *High Definition*

Product size . . . . . 13¼"x 39¾"
Exposure . . . . . 5¾"
Pieces/Bundle 16
Bundles/Square . . . 4/98.5 sq.ft.
Squares/Pallet 14

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

Prestique *High Definition*

Product size . . . . . 13¼"x 38¾"
Exposure . . . . . 5¾"
Pieces/Bundle 22
Bundles/Square . . . 3/100 sq.ft.
Squares/Pallet 16

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

Raised Profile

Product size . . . 13¼"x 38¾"
Exposure . . . . . 5¾"
Pieces/Bundle 22
Bundles/Square . . . . 3/100 sq.ft.
Squares/Pallet 16

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

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/*FLX*™

Size: 12"x 12"
Exposure: 6⅓"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

Elk Starter Strip

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

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

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

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

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

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

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

SPECIFICATIONS

SCOPE: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color).

MATERIALS: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. Eaves

warranties are contingent upon the correct installation as shown on the instructions. These instructions are the

Residential System Sizing Calculation

Summary

EWPL INC

Lake City, FL

Project Title:
Wise Estates Lot 22

Code Only
Professional Version
Climate: North

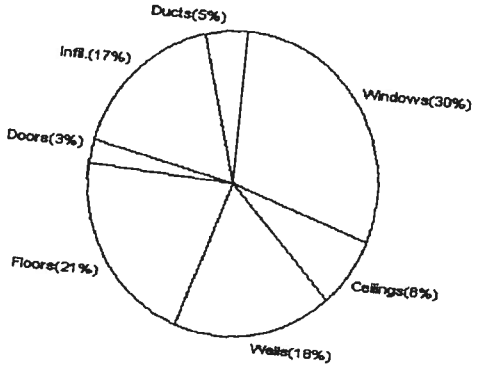
1/31/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
Total heating load calculation	**31866 Btuh**	**Total cooling load calculation**	**31086 Btuh**
Submitted heating capacity	36000 Btuh	Submitted cooling capacity	36000 Btuh
Submitted as % of calculated	113.0 %	Submitted as % of calculated	115.8 %

WINTER CALCULATIONS

Winter Heating Load (for 1853 sqft)

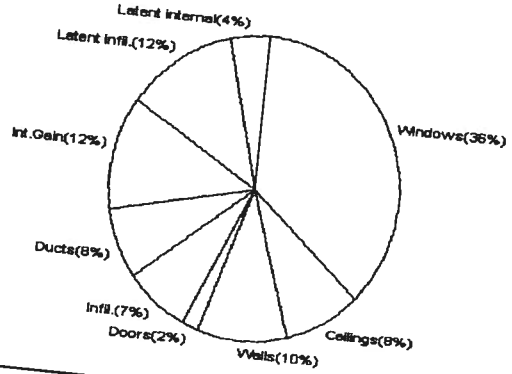
Load component			Load	
Window total	338	sqft	9551	Btuh
Wall total	1890	sqft	5595	Btuh
Door total	56	sqft	847	Btuh
Ceiling total	1853	sqft	2409	Btuh
Floor total	210	ft	6636	Btuh
Infiltration	124	cfm	5310	Btuh
Subtotal			**30349**	**Btuh**
Duct loss			1517	Btuh
TOTAL HEAT LOSS			**31866**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1853 sqft)

Load component			Load	
Window total	338	sqft	11290	Btuh
Wall total	1890	sqft	3165	Btuh
Door total	56	sqft	559	Btuh
Ceiling total	1853	sqft	2631	Btuh
Floor total			0	Btuh
Infiltration	108	cfm	2144	Btuh
Internal gain			3800	Btuh
Subtotal(sensible)			**23590**	**Btuh**
Duct gain			2359	Btuh
Total sensible gain			**25949**	**Btuh**
Latent gain(infiltration)			3756	Btuh
Latent gain(internal)			1380	Btuh
Total latent gain			**5136**	**Btuh**
TOTAL HEAT GAIN			**31086**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.
PREPARED BY:
DATE: 1-31-06

Manual J Winter Calculations

Residential Load - Component Details (continued)

EWPL INC

Lake City, FL

Project Title:
Wise Estates Lot 22

Code Only
Professional Version
Climate: North

1/31/2006

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)

System Sizing Calculations - Winter

Residential Load - Component Details

EWPL INC

Project Title:
Wise Estates Lot 22

Code Only
Professional Version
Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

1/31/2006

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	S	42.0	28.3	1189 Btuh
2	2, Clear, Metal, DEF	S	13.3	28.3	377 Btuh
3	2, Clear, Metal, DEF	S	9.3	28.3	264 Btuh
4	2, Clear, Metal, DEF	S	17.5	28.3	495 Btuh
5	2, Clear, Metal, DEF	E	30.0	28.3	849 Btuh
6	2, Clear, Metal, DEF	N	30.0	28.3	849 Btuh
7	2, Clear, Metal, DEF	N	72.0	28.3	2038 Btuh
8	2, Clear, Metal, DEF	N	36.0	28.3	1019 Btuh
9	2, Clear, Metal, DEF	W	21.3	28.3	604 Btuh
10	2, Clear, Metal, DEF	N	30.0	28.3	849 Btuh
11	2, Clear, Metal, DEF	W	20.0	28.3	566 Btuh
12	2, Clear, Metal, DEF	W	16.0	28.3	453 Btuh
	Window Total		338		9551 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Adjacent	13.0	176	1.6	282 Btuh
2	Frame - Exterior	13.0	1714	3.1	5313 Btuh
	Wall Total		1890		5595 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exter		20	17.9	359 Btuh
2	Wood - Exter		18	17.9	323 Btuh
3	Wood - Adjac		18	9.2	166 Btuh
	Door Total		56		847Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	1853	1.3	2409 Btuh
	Ceiling Total		1853		2409Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	210.0 ft(p)	31.6	6636 Btuh
	Floor Total		210		6636 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	18530(sqft)	124	5310 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			124	5310 Btuh

Totals for Heating	**Subtotal**	**30349 Btuh**
	Duct Loss(using duct multiplier of 0.05)	**1517 Btuh**
	Total Btuh Loss	**31866 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

EWPL INC

Lake City, FL

Project Title:
Wise Estates Lot 22

Code Only
Professional Version
Climate: North

1/31/2006

Totals for Cooling	Subtotal	23590	Btuh
	Duct gain(using duct multiplier of 0.10)	2359	Btuh
	Total sensible gain	25949	Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	3756	Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380	Btuh
	Latent other gain	0	Btuh
	TOTAL GAIN	31086	Btuh

Key: Window types (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/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

System Sizing Calculations - Summer

Residential Load - Component Details

EWPL INC

Project Title:
Wise Estates Lot 22

Code Only
Professional Version
Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 18.0 F 1/31/2006

Window	Type Panes/SHGC/U/InSh/ExSh	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, DEF, N, N	S	1.5	7.5	42.0	42.0	0.0	22	37	924 Btuh
2	2, Clear, DEF, N, N	S	10.5	6.66	13.3	6.7	6.7	22	37	393 Btuh
3	2, Clear, DEF, N, N	S	10	4	9.3	9.3	0.0	22	37	205 Btuh
4	2, Clear, DEF, N, N	S	1.5	5.5	17.5	17.5	0.0	22	37	385 Btuh
5	2, Clear, DEF, N, N	E	1.5	5.5	30.0	2.2	27.8	22	72	2048 Btuh
6	2, Clear, DEF, N, N	N	1.5	5.5	30.0	0.0	30.0	22	22	660 Btuh
7	2, Clear, DEF, N, N	N	9	7	72.0	0.0	72.0	22	22	1584 Btuh
8	2, Clear, DEF, N, N	N	1.5	6.5	36.0	0.0	36.0	22	22	792 Btuh
9	2, Clear, DEF, N, N	W	1.5	6.5	21.3	7.3	14.0	22	72	1170 Btuh
10	2, Clear, DEF, N, N	N	1.5	5.5	30.0	0.0	30.0	22	22	660 Btuh
11	2, Clear, DEF, N, N	W	1.5	5.5	20.0	1.5	18.5	22	72	1366 Btuh
12	2, Clear, DEF, N, N	W	1.5	5	16.0	1.0	15.0	22	72	1103 Btuh
	Window Total				338					11290 Btuh

Walls	Type	R-Value	Area	HTM	Load
1	Frame - Adjacent	13.0	176.0	1.0	183 Btuh
2	Frame - Exterior	13.0	1714.0	1.7	2982 Btuh
	Wall Total		1890.0		3165 Btuh

Doors	Type	Area	HTM	Load
1	Wood - Exter	20.0	10.0	200 Btuh
2	Wood - Exter	18.0	10.0	180 Btuh
3	Wood - Adjac	18.0	10.0	180 Btuh
	Door Total	56.0		559 Btuh

Ceilings	Type/Color	R-Value	Area	HTM	Load
1	Under Attic/Dark	30.0	1853.0	1.4	2631 Btuh
	Ceiling Total		1853.0		2631 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab-On-Grade Edge Insulation	0.0	210.0 ft(p)	0.0	0 Btuh
	Floor Total		210.0		0 Btuh

Infiltration	Type	ACH	Volume	CFM=	Load
	Natural	0.35	18530	108.3	2144 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			108	2144 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	6	X 300 +	2000	3800 Btuh

Project Information for:	L149513		
Builder:	HUGO ESCALANTE	Date:	2/8/2006
Lot:	LOT 22 WISE ESTATES	Start Number:	**2228**
Subdivision:	N/A		
County or City:	COLUMBIA COUNTRY		
Truss Page Count:	42		

Truss Design Load Information (UNO) Design Program: MiTek 5.2 / 6.2

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)

ESCALANTE, HUGO CRC 1326967
Address: P.O. BOX 280
FORT WHITE, FL. 32038 Designer: **33**

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

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.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0208062228	2/8/2006	41	T27	0208062268	2/8/2006
2	CJ3	0208062229	2/8/2006	42	T28	0208062269	2/8/2006
3	CJ5	0208062230	2/8/2006				
4	EJ7	0208062231	2/8/2006				
5	EJ7A	0208062232	2/8/2006				
6	EJ7B	0208062233	2/8/2006				
7	EJ7G	0208062234	2/8/2006				
8	EJ7T	0208062235	2/8/2006				
9	HJ9	0208062236	2/8/2006				
10	T01A	0208062237	2/8/2006				
11	T01G	0208062238	2/8/2006				
12	T02	0208062239	2/8/2006				
13	T03	0208062240	2/8/2006				
14	T04	0208062241	2/8/2006				
15	T05	0208062242	2/8/2006				
16	T05G	0208062243	2/8/2006				
17	T06	0208062244	2/8/2006				
18	T06A	0208062245	2/8/2006				
19	T06G	0208062246	2/8/2006				
20	T07	0208062247	2/8/2006				
21	T07A	0208062248	2/8/2006				
22	T08	0208062249	2/8/2006				
23	T09	0208062250	2/8/2006				
24	T10	0208062251	2/8/2006				
25	T11	0208062252	2/8/2006				
26	T12	0208062253	2/8/2006				
27	T13	0208062254	2/8/2006				
28	T14	0208062255	2/8/2006				
29	T15	0208062256	2/8/2006				
30	T16	0208062257	2/8/2006				
31	T17	0208062258	2/8/2006				
32	T18	0208062259	2/8/2006				
33	T19	0208062260	2/8/2006				
34	T20	0208062261	2/8/2006				
35	T21	0208062262	2/8/2006				
36	T22	0208062263	2/8/2006				
37	T23	0208062264	2/8/2006				
38	T24	0208062265	2/8/2006				
39	T25	0208062266	2/8/2006				
40	T26	0208062267	2/8/2006				

Dwg.#0208062227

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02:00:39 PM 10/6/2004

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- Change My PIN
- View Continuing Ed

Term Glossary

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Licensee Details

Licensee Information

Name:	**ESCALANTE, HUGO (Primary Name)**
	EWPL INC (DBA Name)
Main Address:	**P.O. BOX 280**
	FORT WHITE, Florida 32038

License Information

License Type:	**Certified Residential Contractor**
Rank:	**Cert Residental**
License Number:	**CRC1326967**
Status:	**Current, Active**
Licensure Date:	**11/24/2003**
Expires:	**08/31/2006**

Special Qualifications	Effective Date
Qualified Business License Required	11/24/2003

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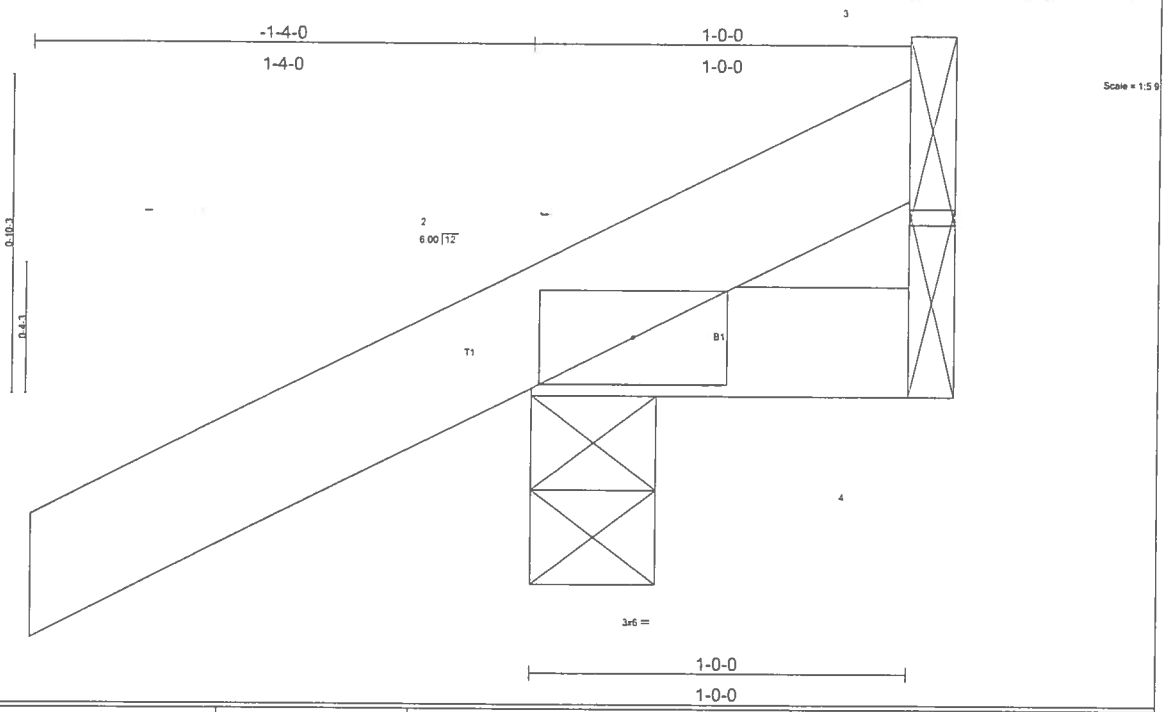
FEBRUARY 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ. FL 33549

Dwg.#0208062228

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	CJ1	JACK	10	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:42:36 2006 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	0.12	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=167/0-4-0, 4=14/Mechanical, 3=-27/Mechanical
Max Horz 2=65(load case 5)
Max Uplift2=-165(load case 5), 4=-9(load case 3), 3=-27(load case 1)
Max Grav 2=167(load case 1), 4=14(load case 1), 3=43(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-38/23
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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.
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 2, 9 lb uplift at joint 4 and 27 lb uplift at joint 3.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 TRUSS DESIGN ENGINEER:
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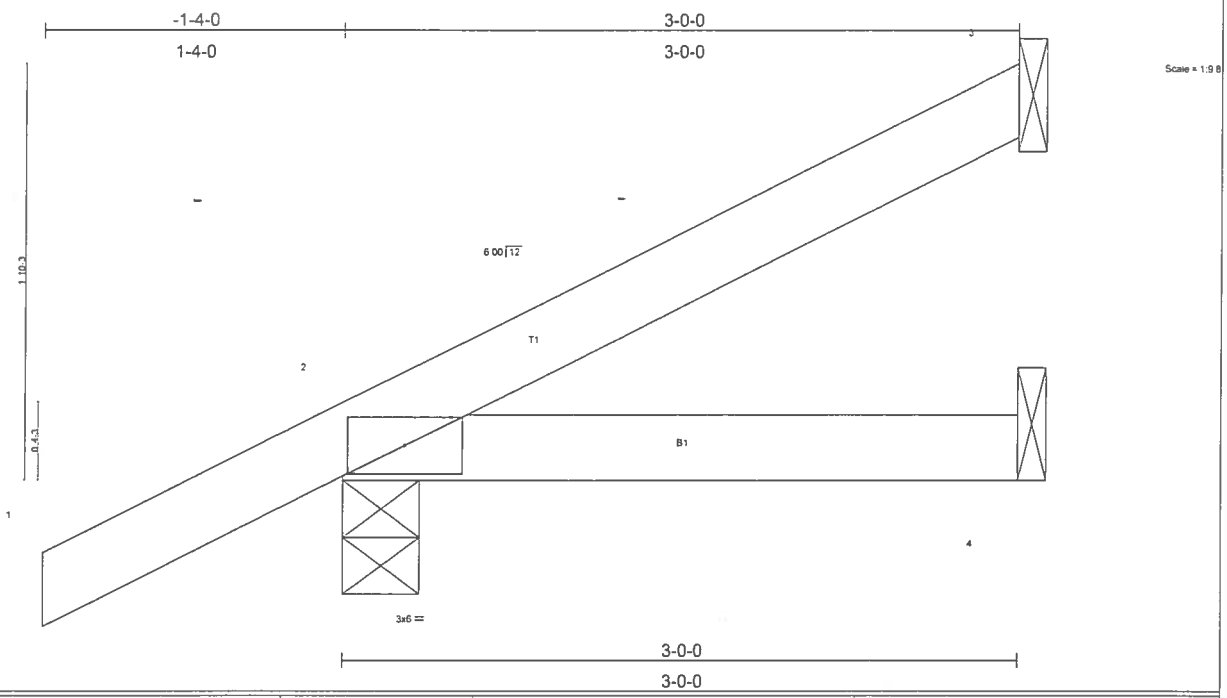
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062229

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	CJ3	JACK	10	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:42:38 2006 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	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	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: 12 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=53/Mechanical, 2=219/0-4-0, 4=42/Mechanical
Max Horz 2=110(load case 5)
Max Uplift3=-44(load case 5), 2=-171(load case 5), 4=-26(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-48/18
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3, 171 lb uplift at joint 2 and 26 lb uplift at joint 4.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 TRUSS DESIGN ENGINEER:
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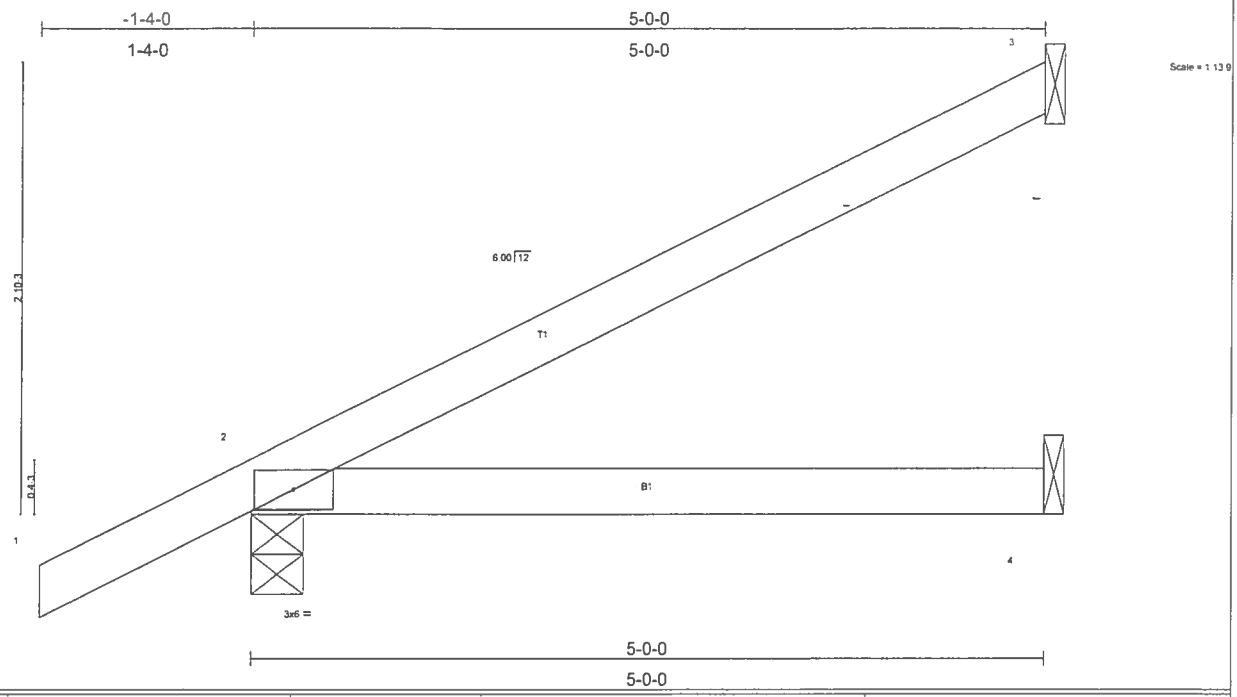
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062230

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	CJ5	JACK	10	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:42:39 2006 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)	0.09	2-4	>671	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	0.07	2-4	>784	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: 18 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=116/Mechanical, 2=294/0-4-0, 4=72/Mechanical
Max Horz 2=156(load case 5)
Max Uplift3=-104(load case 5), 2=-205(load case 5), 4=-46(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-98/42
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 3, 205 lb uplift at joint 2 and 46 lb uplift at joint 4.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062231

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	EJ7	MONO TRUSS	22	1	Job Reference (optional)

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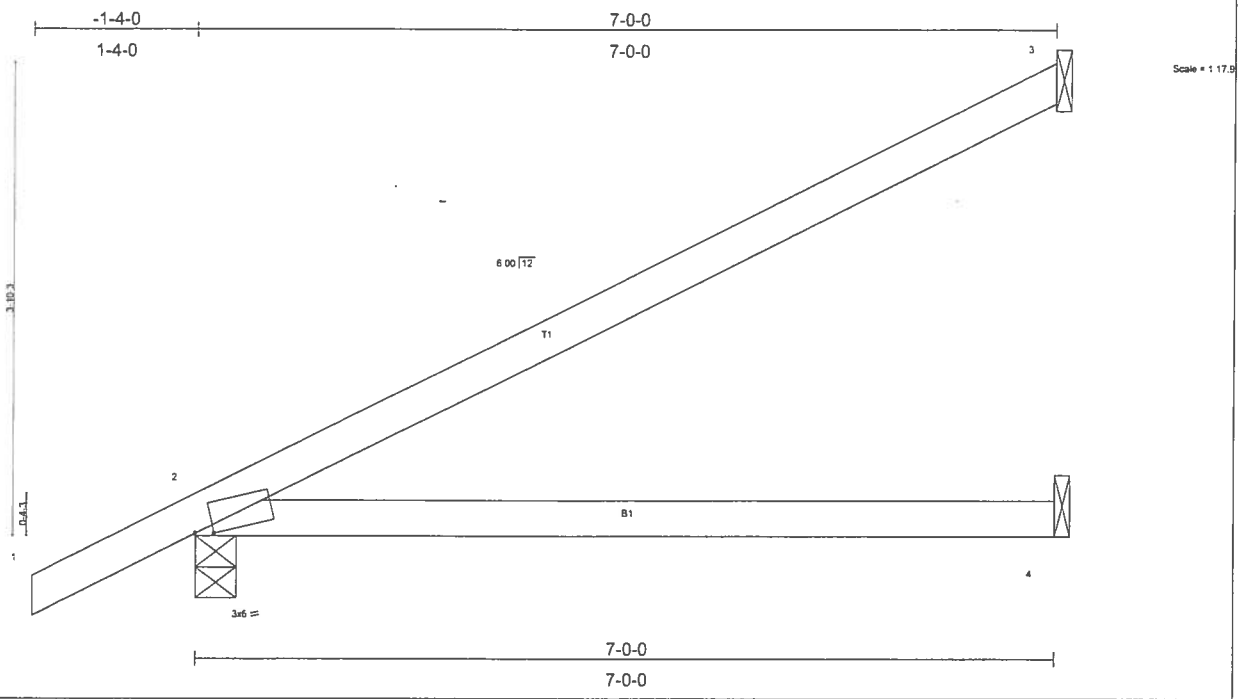

Plate Offsets (X,Y): [2:0-1-13,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.47	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: 24 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=166/Mechanical, 2=374/0-4-0, 4=109/Mechanical
Max Horz 2=202(load case 5)
Max Uplift3=-139(load case 5), 2=-161(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-123/60
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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 139 lb uplift at joint 3 and 161 lb uplift at joint 2.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062232

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	EJ7A	MONO TRUSS	11	1	Job Reference (optional)

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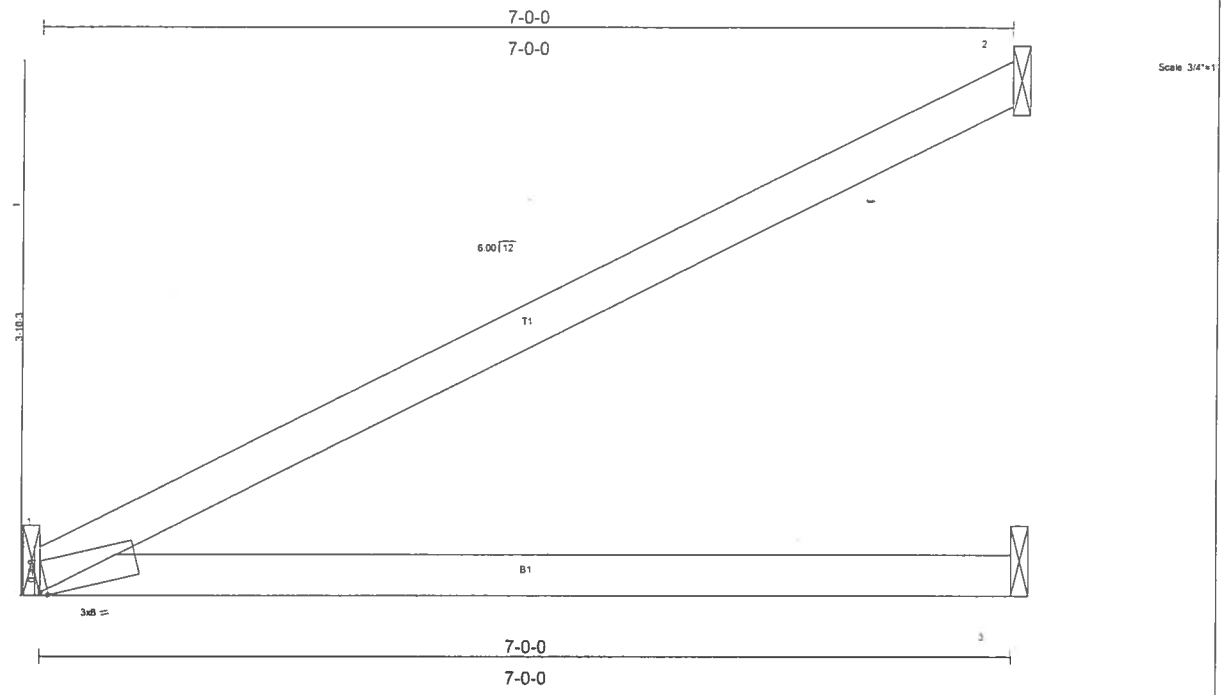


Plate Offsets (X,Y): [1:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.16	1-3	>520	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.26	1-3	>316	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 22 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) 1=289/Mechanical, 2=173/Mechanical, 3=116/Mechanical
Max Horz 1=162(load case 5)
Max Uplift1=-68(load case 5), 2=-146(load case 5), 3=-4(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-126/62
BOT CHORD 1-3=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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 68 lb uplift at joint 1, 146 lb uplift at joint 2 and 4 lb uplift at joint 3.

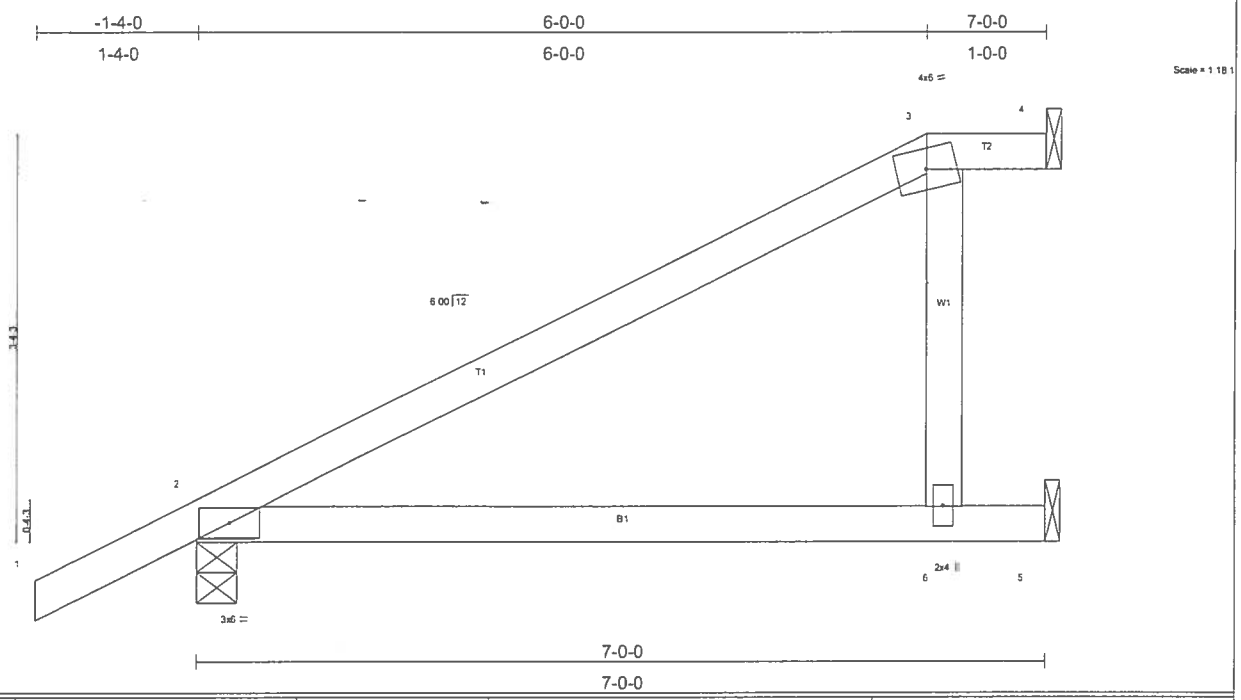
LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062233

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	EJ7B	MONO HIP	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:42:42 2006 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	0.40	Vert(LL)	0.17	2-6	>472	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.43	Vert(TL)	-0.25	2-6	>321	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.05	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 28 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 6-0-0 oc bracing.

REACTIONS (lb/size) 4=62/Mechanical, 2=374/0-4-0, 5=213/Mechanical
Max Horz 2=181(load case 5)
Max Uplift4=-3(load case 3), 2=-170(load case 5), 5=-151(load case 5)
Max Grav 4=90(load case 10), 2=374(load case 1), 5=213(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-100/44, 3-4=-0/1
BOT CHORD 2-6=-13/6, 5-6=0/0
WEBS 3-6=-127/278

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) 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 3 lb uplift at joint 4, 170 lb uplift at joint 2 and 151 lb uplift at joint 5.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062234

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	EJ7G	MONO HIP	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:42:43 2006 Page 1

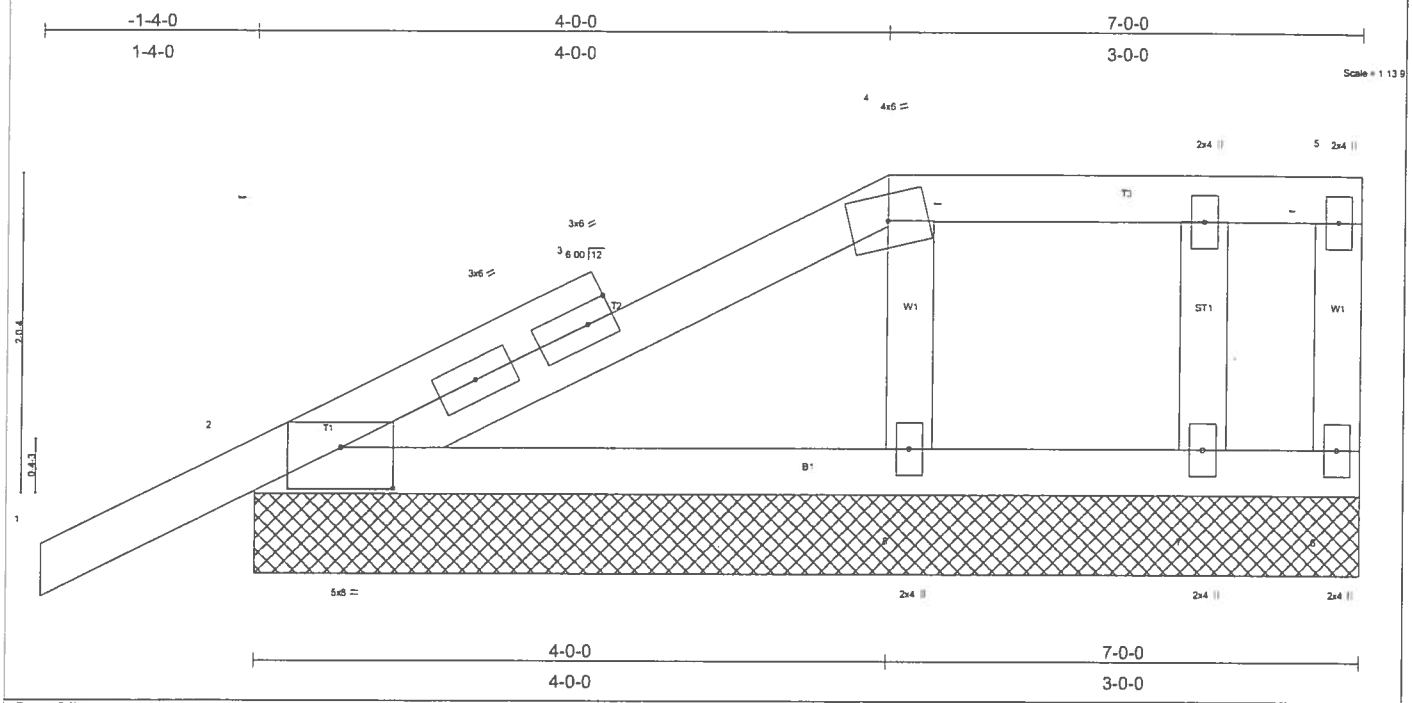

Plate Offsets (X,Y): [2:0-4-0,0-3-1]

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	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	0.00	1	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.07	Horz(TL)	-0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 33 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 10-0-0 oc bracing.

REACTIONS (lb/size) 2=326/7-0-0, 6=111/7-0-0, 8=412/7-0-0, 7=4/7-0-0
Max Horz 2=120(load case 5)
Max Uplift2=-167(load case 5), 6=-73(load case 3), 8=-139(load case 5)
Max Grav 2=326(load case 1), 6=111(load case 1), 8=412(load case 1), 7=13(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4/45, 2-3=-93/14, 3-4=-32/35, 4-5=-14/17, 5-6=-87/86
BOT CHORD 2-8=-38/38, 7-8=-17/13, 6-7=-17/13
WEBS 4-8=-291/274

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) 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"
3) Provide adequate drainage to prevent water ponding.
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 167 lb uplift at joint 2, 73 lb uplift at joint 6 and 139 lb uplift at joint 8.
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=-79(F=-25), 4-5=-79(F=-25), 2-6=-30

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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062235

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	EJ7T	SPECIAL	6	1	

Builders FirstSource, Lake City, Fl 32055 — Job Reference (optional)

6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:42:44 2006 Page 1

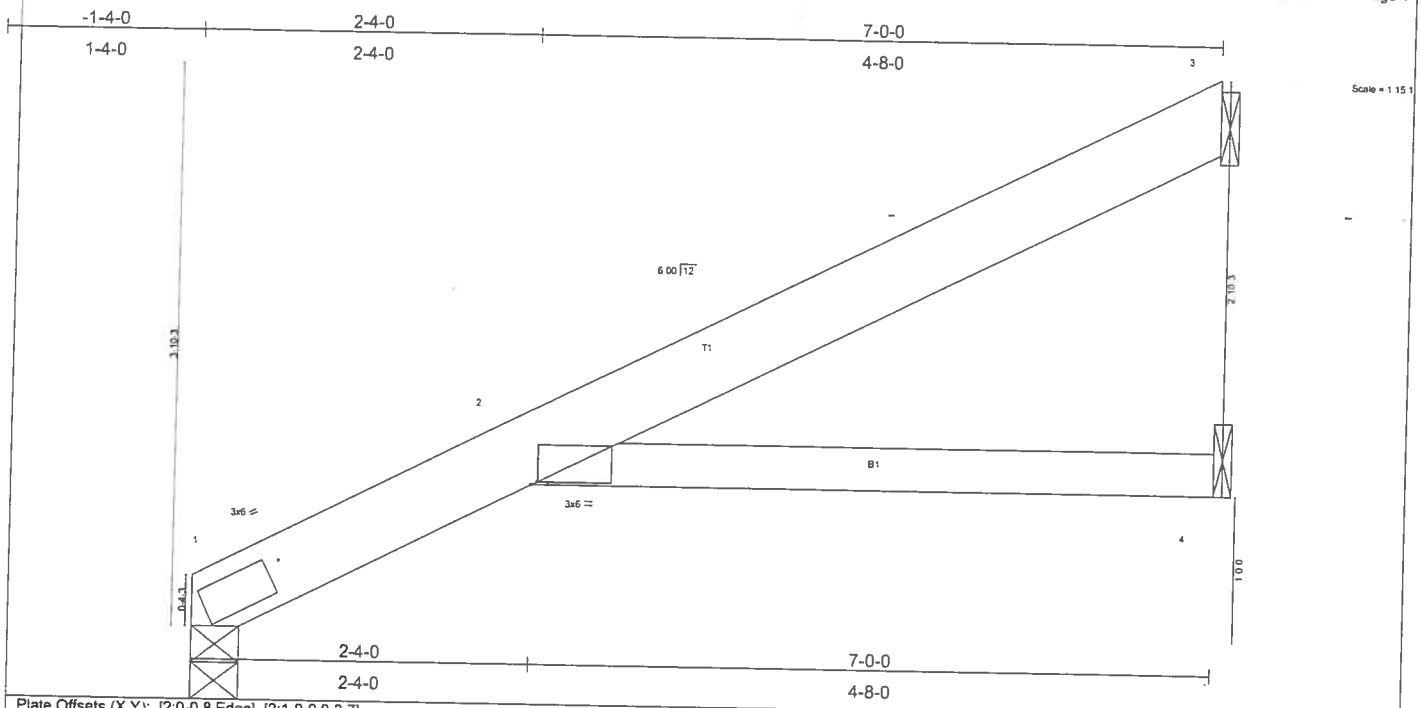

Plate Offsets (X,Y): [2:0-0-8,Edge], [2:1-9-9,0-3-7]

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)	0.10	2	>802	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	-0.10	2-4	>785	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.05	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
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) 1=250/0-4-0, 3=209/Mechanical, 4=69/Mechanical
Max Horz 1=156(load case 5)
Max Uplift1=-67(load case 5), 3=-160(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-161/0, 2-3=-136/85
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Bearing at joint(s) 1 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 67 lb uplift at joint 1 and 160 lb uplift at joint 3.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062236

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	HJ9	MONO TRUSS	5	1	Job Reference (optional)

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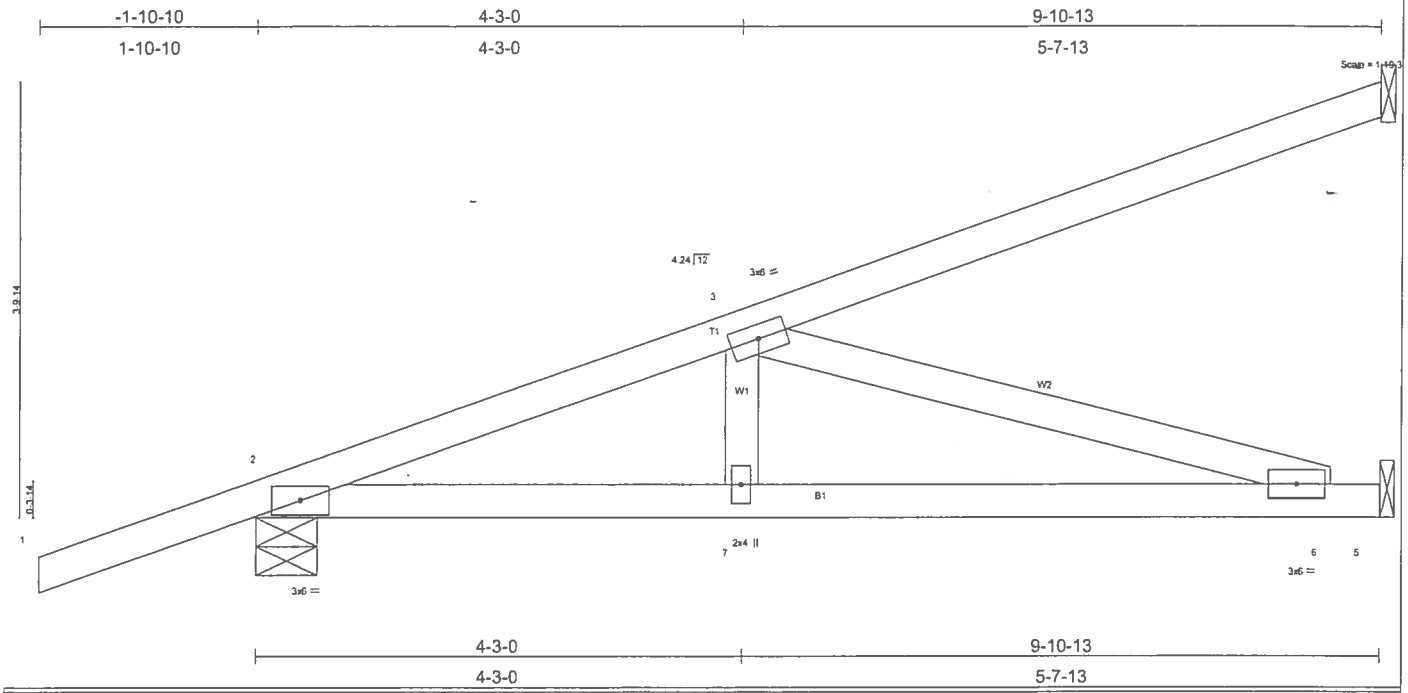

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.11	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.18	6-7	>628	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.50	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 43 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 5-11-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-9-10 oc bracing.

REACTIONS (lb/size) 4=268/Mechanical, 2=472/0-6-7, 5=388/Mechanical
Max Horz 2=248(load case 2)
Max Uplift4=-231(load case 2), 2=-334(load case 2), 5=-199(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-942/436, 3-4=-105/65
BOT CHORD 2-7=-610/878, 6-7=-610/878, 5-6=0/0
WEBS 3-7=-97/212, 3-6=-914/635

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 4, 334 lb uplift at joint 2 and 199 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 08, 2006 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.#0208062237

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T01A	COMMON	1	1	Job Reference (optional)

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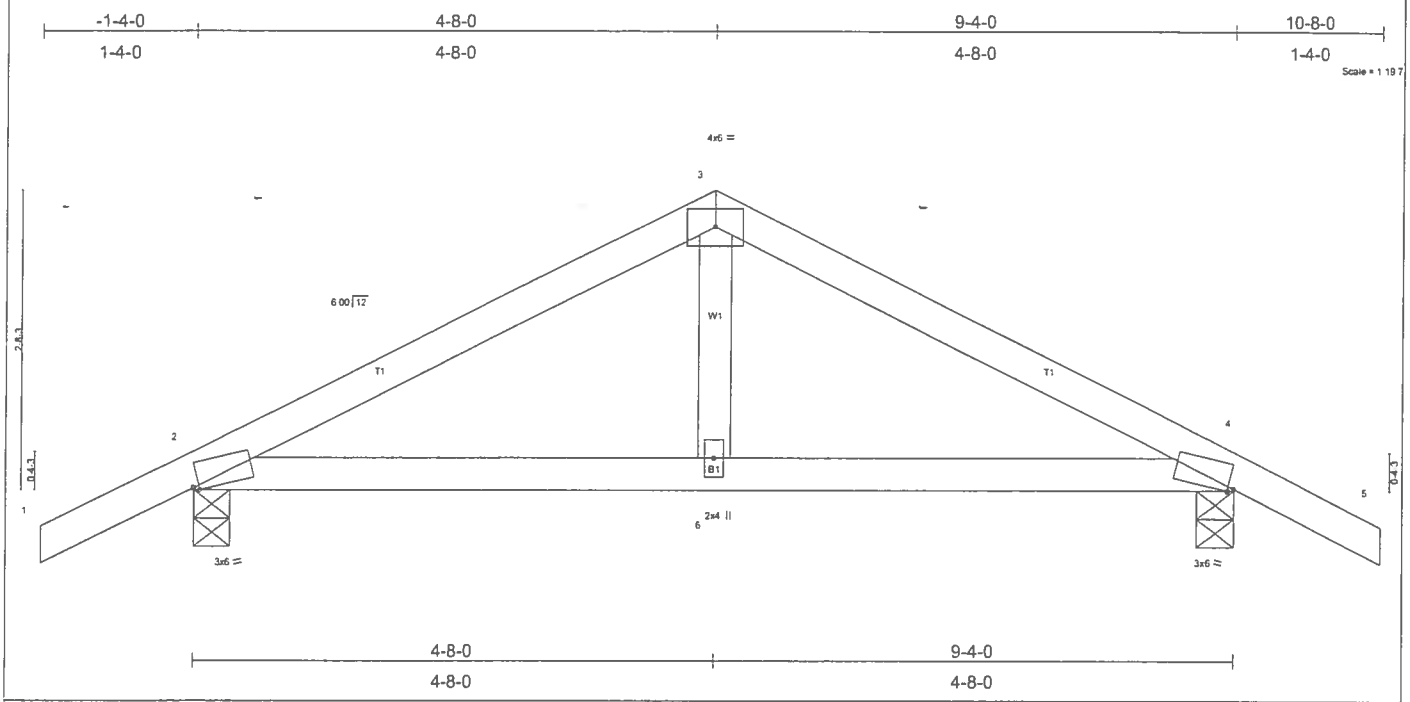

Plate Offsets (X,Y): [2:0-0-10,Edge], [4:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.05	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.07	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.21	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 37 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 5-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=900/0-4-0, 4=900/0-4-0
Max Horz 2=-58(load case 5)
Max Uplift2=-379(load case 4), 4=-379(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-1065/355, 3-4=-1065/355, 4-5=0/31
BOT CHORD 2-6=-259/917, 4-6=-259/917
WEBS 3-6=-162/651

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 379 lb uplift at joint 2 and 379 lb uplift at joint 4.
4) Girder carries tie-in span(s): 7-0-0 from 0-0-0 to 9-4-0
5) 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: 1-3=-54, 3-5=-54, 2-4=-128(F=-98)

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Dwg.#0208062238

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T01G	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:42:47 2006 Page 1

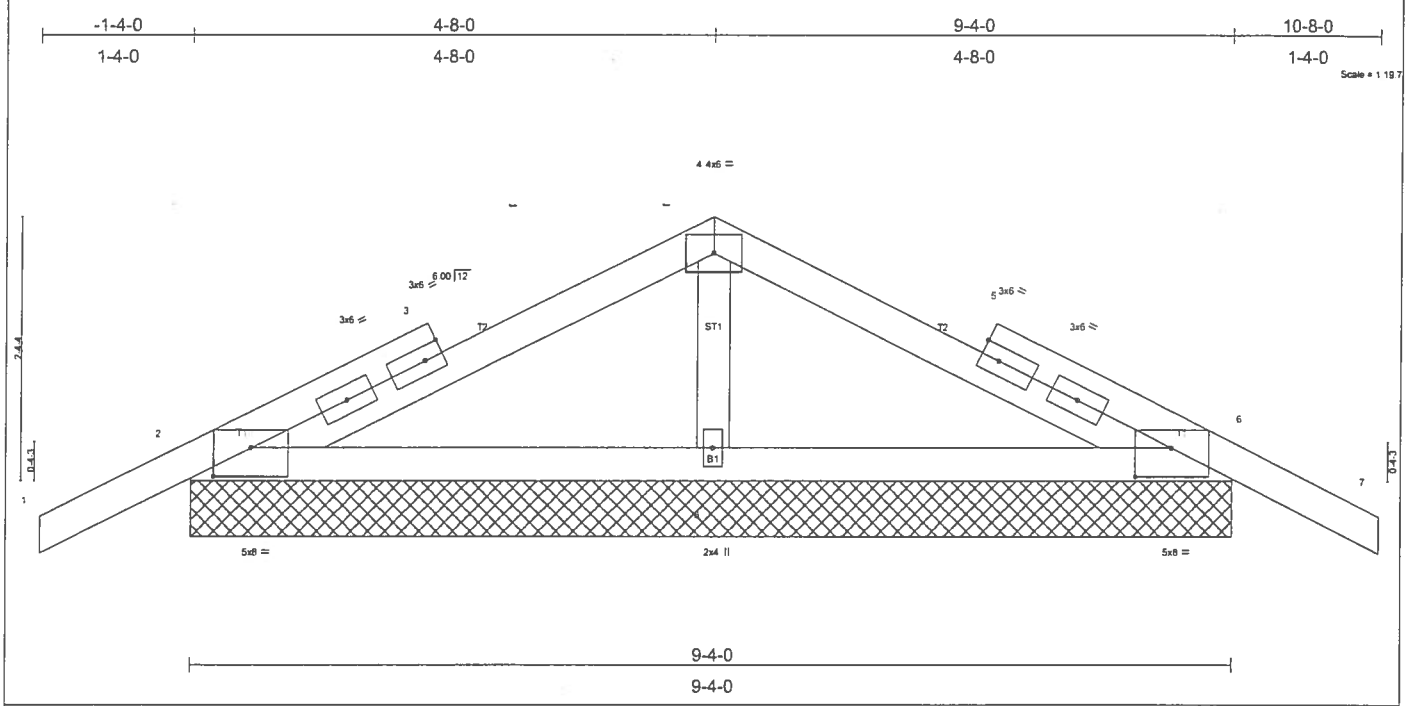

Plate Offsets (X,Y): [2:0-4-0,0-3-1], [6:0-4-0,0-3-1]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.01	7	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	0.01	7	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.09	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 42 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 9-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=273/9-4-0, 6=273/9-4-0, 8=681/9-4-0
Max Horz 2=-53(load case 6)
Max Uplift2=-160(load case 5), 6=-169(load case 6), 8=-209(load case 5)
Max Grav 2=293(load case 9), 6=293(load case 10), 8=681(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3/45, 2-3=-63/130, 3-4=-69/223, 4-5=-69/223, 5-6=-63/130, 6-7=-3/45
BOT CHORD 2-8=-122/164, 6-8=-122/164
WEBS 4-8=-513/354

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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 160 lb uplift at joint 2, 169 lb uplift at joint 6 and 209 lb uplift at joint 8.
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=-79(F=-25), 4-7=-79(F=-25), 2-6=-30

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Dwg.#0208062239

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T02	HIP	1	1	

Builders FirstSource, Lake City, Fl 32055 — Job Reference (optional)

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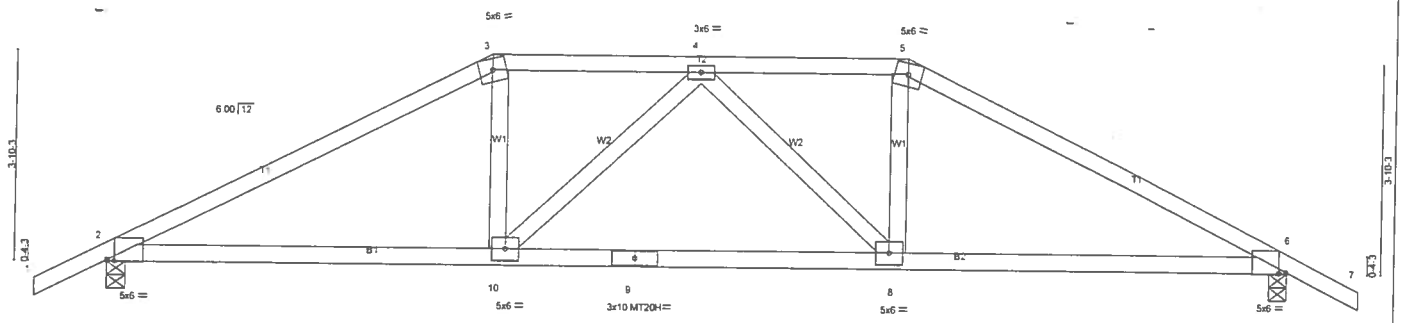

Plate Offsets (X,Y): [2:0-1-11,Edge], [6:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.24	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.41	8-10	>629	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.37	Horz(TL)	0.09	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 96 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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-4-9 oc bracing.

REACTIONS (lb/size) 2=1860/0-4-0, 6=1860/0-4-0
Max Horz 2=-74(load case 5)
Max Uplift2=-709(load case 4), 6=-709(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-3429/1151, 3-4=-3019/1102, 4-5=-3019/1102, 5-6=-3429/1151, 6-7=0/31
BOT CHORD 2-10=-968/2974, 9-10=-1111/3201, 8-9=-1111/3201, 6-8=-923/2974
WEBS 3-10=-327/1158, 4-10=-374/271, 4-8=-374/271, 5-8=-326/1158

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 709 lb uplift at joint 2 and 709 lb uplift at joint 6.
6) Girder carries hip end with 7-0-0 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 216 lb up at 14-8-0, and 539 lb down and 216 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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: 1-3=-54, 3-5=-113(F=-59), 5-7=-54, 2-10=-30, 8-10=-62(F=-33), 6-8=-30
Concentrated Loads (lb)
Vert: 10=-539(F) 8=-539(F)

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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062240

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T03	HIP	1	1	Job Reference (optional)

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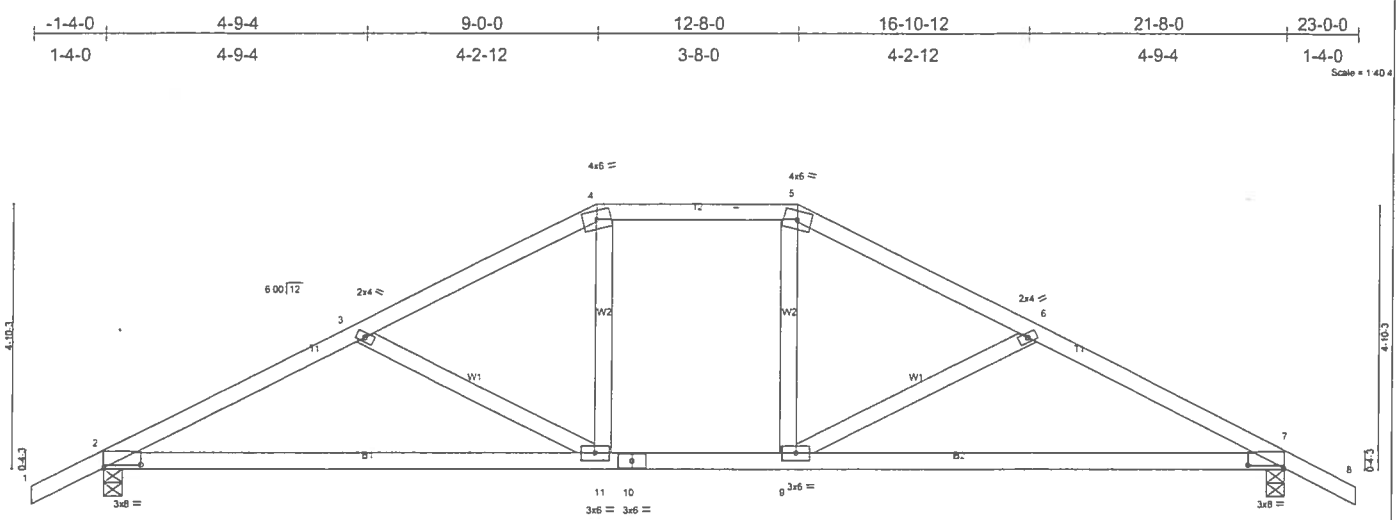

Plate Offsets (X,Y): [2:0-8-0,0-0-10], [7:0-8-0,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.24	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.37	7-9	>694	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(TL)	0.04	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 100 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 4-9-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-2-14 oc bracing.

REACTIONS (lb/size) 2=977/0-4-0, 7=977/0-4-0
Max Horz 2=-88(load case 6)
Max Uplift2=-367(load case 5), 7=-367(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-1495/665, 3-4=-1228/538, 4-5=-1056/531, 5-6=-1228/538, 6-7=-1495/665, 7-8=0/31
BOT CHORD 2-11=-465/1300, 10-11=-249/1056, 9-10=-249/1056, 7-9=-465/1300
WEBS 3-11=-329/246, 4-11=-75/319, 5-9=-75/319, 6-9=-329/246

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 2 and 367 lb uplift at joint 7.

LOAD CASE(S) Standard

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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062241

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T04	COMMON	6	1	Job Reference (optional)

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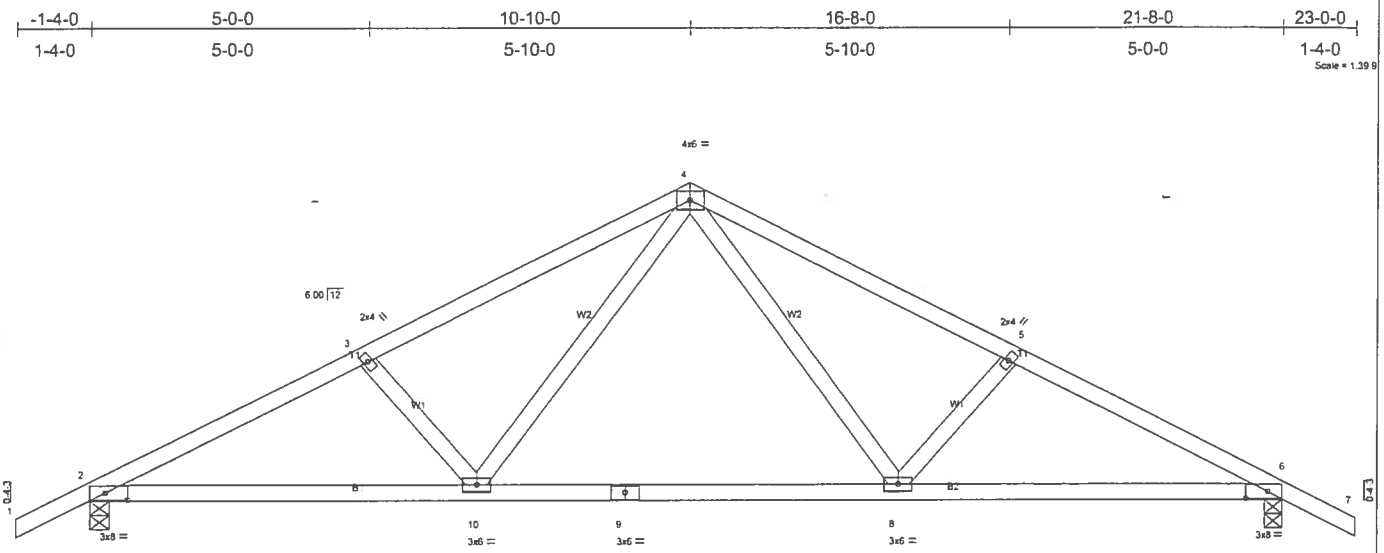

Plate Offsets (X,Y): [2:0-4-12,0-1-8], [6:0-4-12,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.28	8-10	>900	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.94	Vert(TL)	-0.46	8-10	>555	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.25	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 101 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 4-4-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-9-2 oc bracing.

REACTIONS (lb/size) 2=1169/0-4-0, 6=1169/0-4-0
Max Horz 2=-101(load case 6)
Max Uplift2=-450(load case 5), 6=-450(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-2013/869, 3-4=-1844/837, 4-5=-1844/837, 5-6=-2013/869, 6-7=0/31
BOT CHORD 2-10=-645/1733, 9-10=-326/1153, 8-9=-326/1153, 6-8=-645/1733
WEBS 3-10=-245/240, 4-10=-285/781, 4-8=-285/781, 5-8=-245/240

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 450 lb uplift at joint 2 and 450 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

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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062242

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T05	COMMON	4	1	Job Reference (optional)

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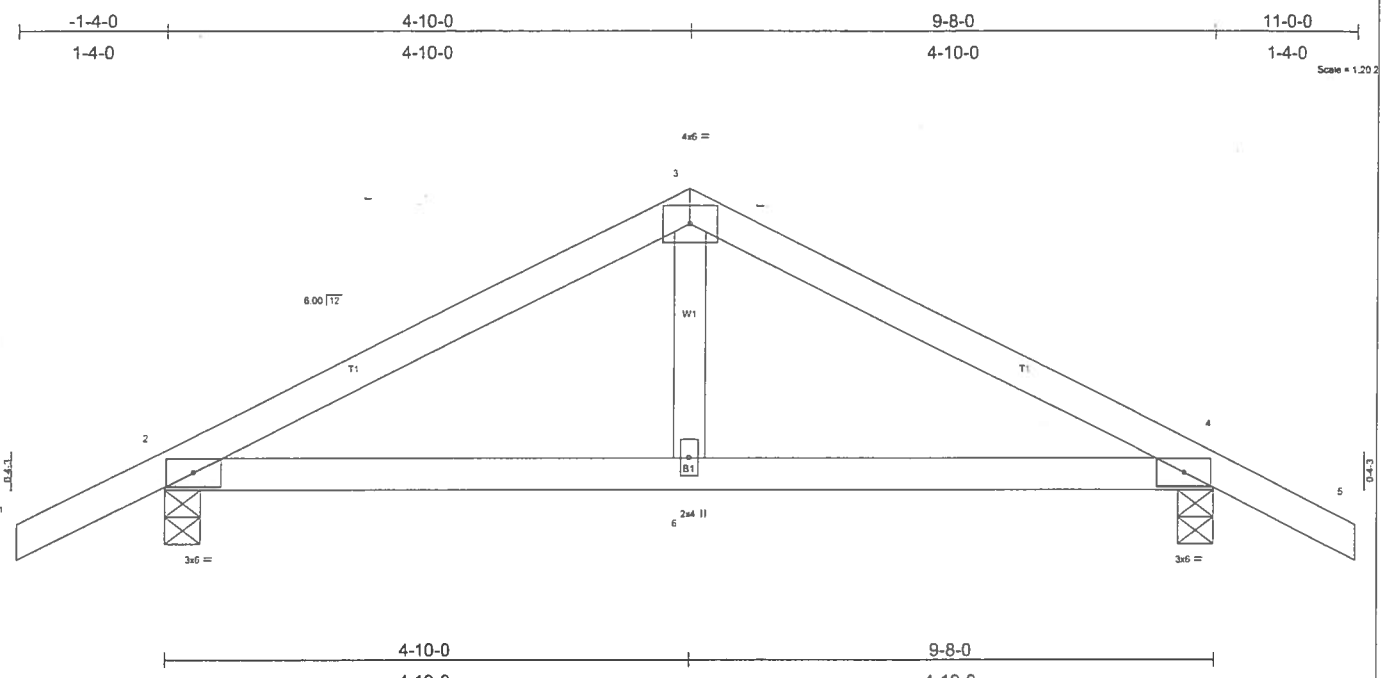

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.23	Vert(LL)	0.04	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.18	Vert(TL)	0.03	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 38 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 9-6-11 oc bracing.

REACTIONS (lb/size) 2=473/0-4-0, 4=473/0-4-0
Max Horz 2=-59(load case 6)
Max Uplift2=-334(load case 5), 4=-334(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-530/614, 3-4=-530/614, 4-5=0/31
BOT CHORD 2-6=-418/422, 4-6=-418/422
WEBS 3-6=-293/166

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 334 lb uplift at joint 2 and 334 lb uplift at joint 4.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 TRUSS DESIGN ENGINEER:
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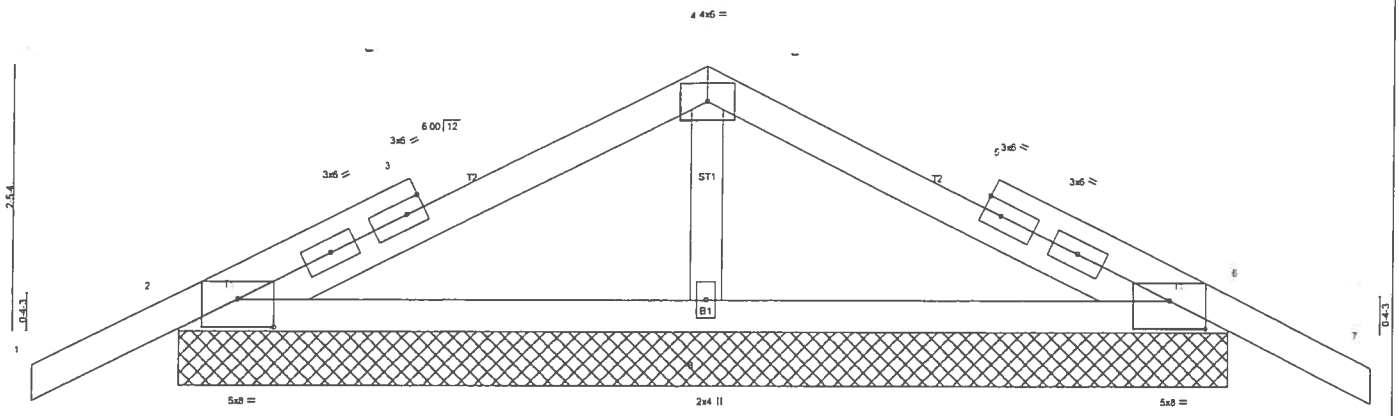
Dwg.#0208062243

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T05G	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:42:53 2006 Page 1

-1-4-0 | 4-10-0 | 9-8-0 | 11-0-0
1-4-0 | 4-10-0 | 4-10-0 | 1-4-0

Scale = 1:20.2



9-8-0
9-8-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	0.01	7	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	0.02	7	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 43 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 9-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

REACTIONS (lb/size) 2=270/9-8-0, 6=270/9-8-0, 8=725/9-8-0
Max Horz 2=-54(load case 6)
Max Uplift2=-157(load case 5), 6=-167(load case 6), 8=-226(load case 5)
Max Grav 2=292(load case 9), 6=292(load case 10), 8=725(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3/45, 2-3=-81/153, 3-4=-86/251, 4-5=-86/251, 5-6=-81/153, 6-7=-3/45
BOT CHORD 2-8=-143/181, 6-8=-143/181
WEBS 4-8=-549/378

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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 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 157 lb uplift at joint 2, 167 lb uplift at joint 6 and 226 lb uplift at joint 8.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

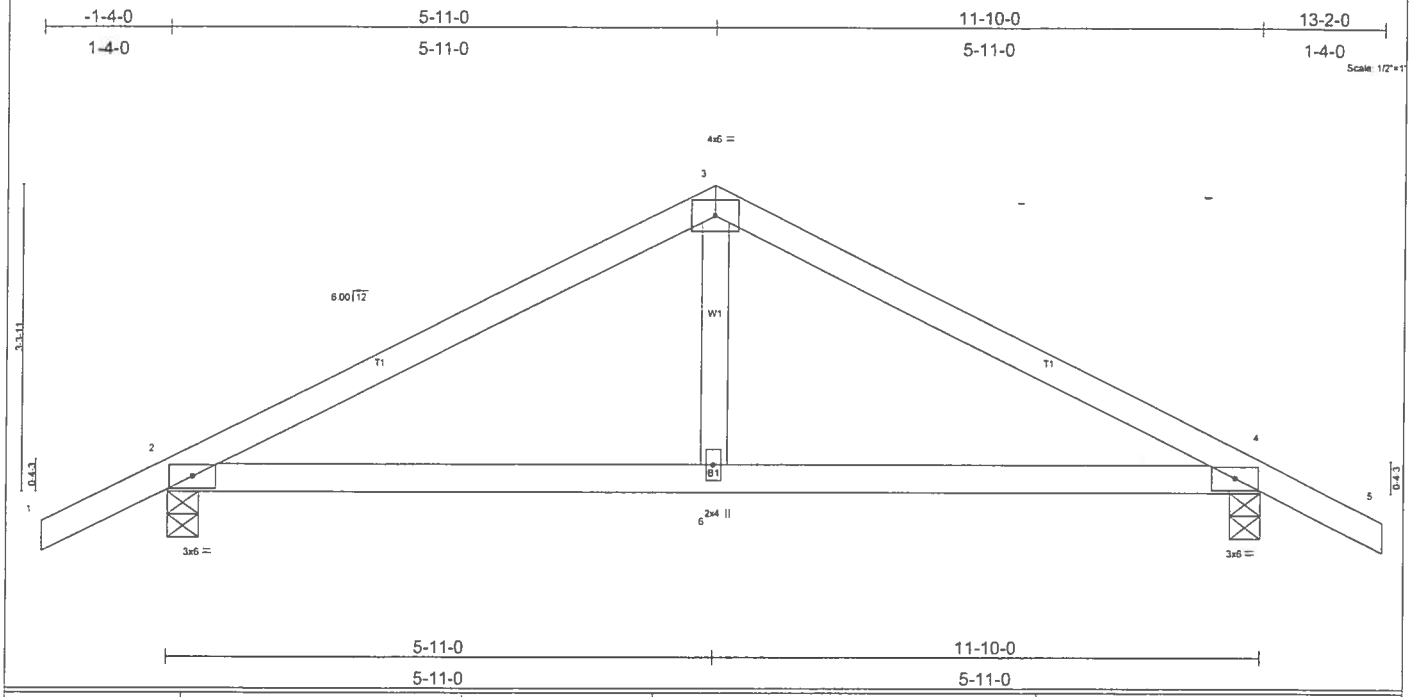
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-79(F=-25), 4-7=-79(F=-25), 2-6=-30

FEBRUARY 08, 2006 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.#0208062244

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T06	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:42:54 2006 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	0.24	Vert(LL)	-0.04	4-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.07	4-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 46 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=564/0-4-0, 4=564/0-4-0
Max Horz 2=67(load case 5)
Max Uplift2=-245(load case 5), 4=-245(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-675/306, 3-4=-675/306, 4-5=0/31
BOT CHORD 2-6=-128/543, 4-6=-128/543
WEBS 3-6=0/215

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 2 and 245 lb uplift at joint 4.

LOAD CASE(S) Standard

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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062245

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T06A	COMMON	1	1	Job Reference (optional)

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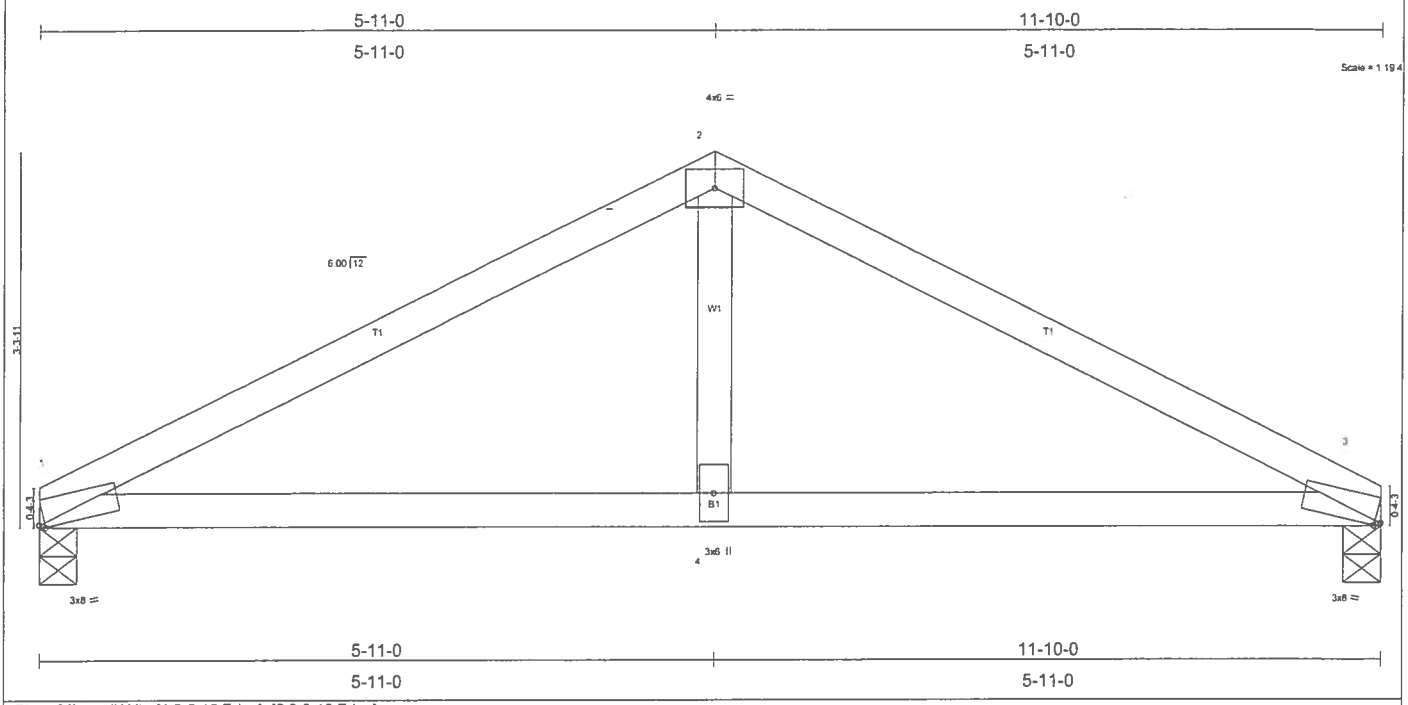

Plate Offsets (X,Y): [1:0-0-10,Edge], [3:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.13	1-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.92	Vert(TL)	-0.20	1-4	>702	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.28	Horz(TL)	0.02	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 42 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 4-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.

REACTIONS (lb/size) 1=1046/0-4-0, 3=1046/0-4-0
Max Horz 1=44(load case 3)
Max Uplift1=-369(load case 4), 3=-369(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1430/502, 2-3=-1430/502
BOT CHORD 1-4=-398/1242, 3-4=-398/1242
WEBS 2-4=-230/864

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 lb uplift at joint 1 and 369 lb uplift at joint 3.
4) Girder carries tie-in span(s): 7-0-0 from 0-0-0 to 11-10-0
5) 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, 1-3=-128(F=-98)

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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062246

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T06G	COMMON	1	1	Job Reference (optional)

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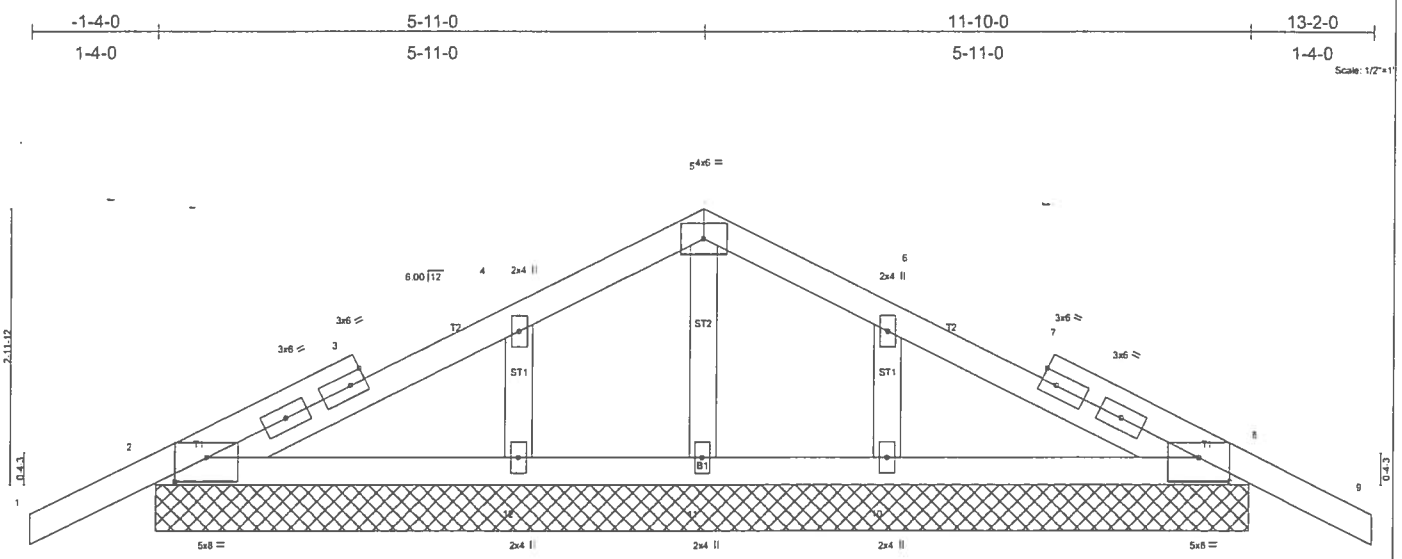

Plate Offsets (X,Y): [2:0-4-0,0-3-1], [8:0-4-0,0-3-1]

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)	0.00	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	0.00	9	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.06	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 55 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=283/11-10-0, 8=283/11-10-0, 11=164/11-10-0, 12=385/11-10-0, 10=385/11-10-0
Max Horz 2=-62(load case 6)
Max Uplift2=-158(load case 5), 8=-168(load case 6), 11=-19(load case 5), 12=-157(load case 5), 10=-160(load case 6)
Max Grav 2=288(load case 9), 8=288(load case 10), 11=164(load case 1), 12=386(load case 9), 10=386(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2/45, 2-3=-47/62, 3-4=-49/135, 4-5=0/78, 5-6=0/78, 6-7=-29/135, 7-8=-22/62, 8-9=-2/45
BOT CHORD 2-12=-58/121, 11-12=-58/121, 10-11=-58/121, 8-10=-58/121
WEBS 5-11=-148/30, 4-12=-270/225, 6-10=-270/225

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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 158 lb uplift at joint 2, 168 lb uplift at joint 8, 19 lb uplift at joint 11, 157 lb uplift at joint 12 and 160 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=-79(F=-25), 5-9=-79(F=-25), 2-8=-30

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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062247

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T07	HIP	1	1	Job Reference (optional)

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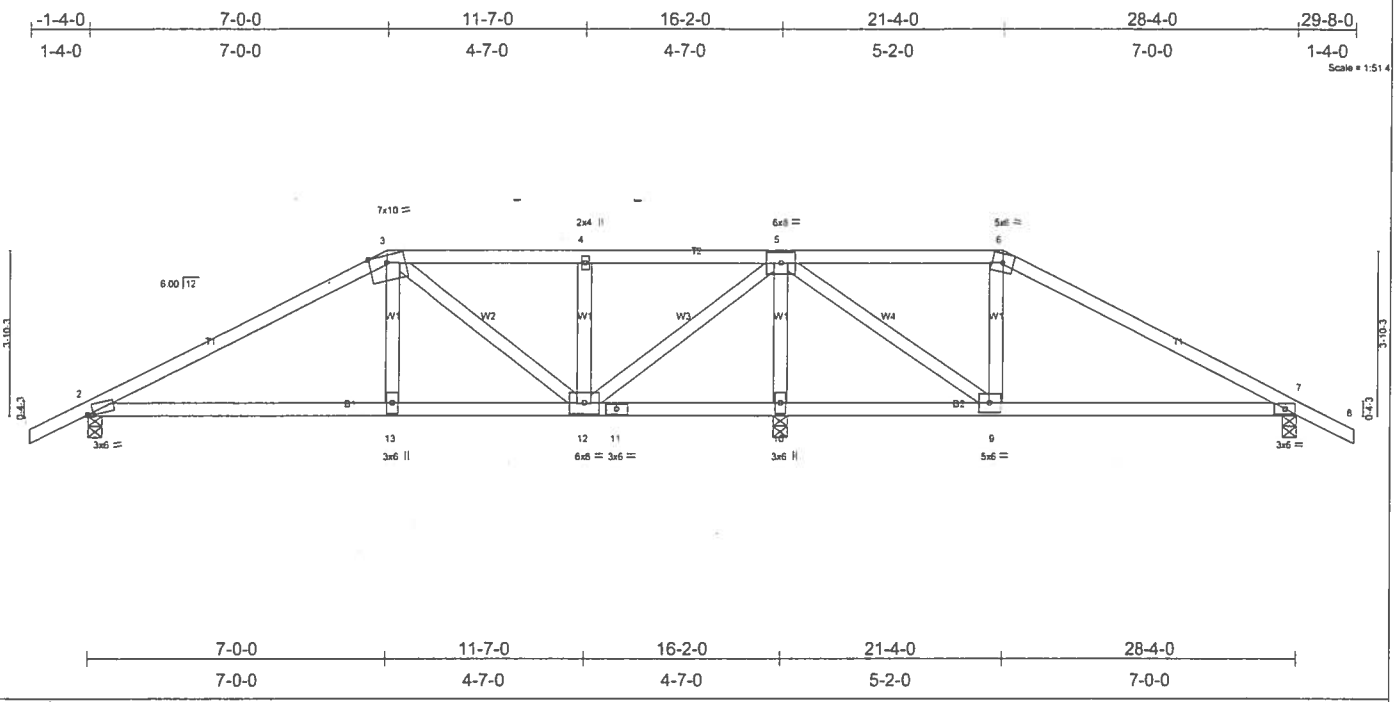

Plate Offsets (X,Y): [2:0-1-9,0-0-7]

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)	0.12	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.18	2-13	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.75	Horz(TL)	0.02	7	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 4-4-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=1111/0-4-0, 10=3225/0-4-0, 7=650/0-4-0
Max Horz 2=74(load case 4)
Max Uplift2=-508(load case 4), 10=-1523(load case 3), 7=-488(load case 5)
Max Grav 2=1117(load case 8), 10=3225(load case 1), 7=664(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-1796/726, 3-4=-878/422, 4-5=-877/423, 5-6=-655/537, 6-7=-818/524, 7-8=0/31
BOT CHORD 2-13=-608/1528, 12-13=-618/1562, 11-12=-795/413, 10-11=-795/413, 9-10=-795/413, 7-9=-353/661
WEBS 3-13=-244/827, 3-12=-872/408, 4-12=-535/445, 5-12=-897/2096, 5-10=-2886/1517, 5-9=-914/1741, 6-9=-183/126

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 508 lb uplift at joint 2, 1523 lb uplift at joint 10 and 488 lb uplift at joint 7.
5) Girder carries hip end with 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 277 lb up at 21-4-0, and 539 lb down and 277 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: 1-3=-54, 3-6=-117(F=-63), 6-8=-54, 2-13=-30, 9-13=-65(F=-35), 7-9=-30
Concentrated Loads (lb)
Vert: 13=-539(F) 9=-539(F)

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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062248

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T07A	SPECIAL	1	2	Job Reference (optional)

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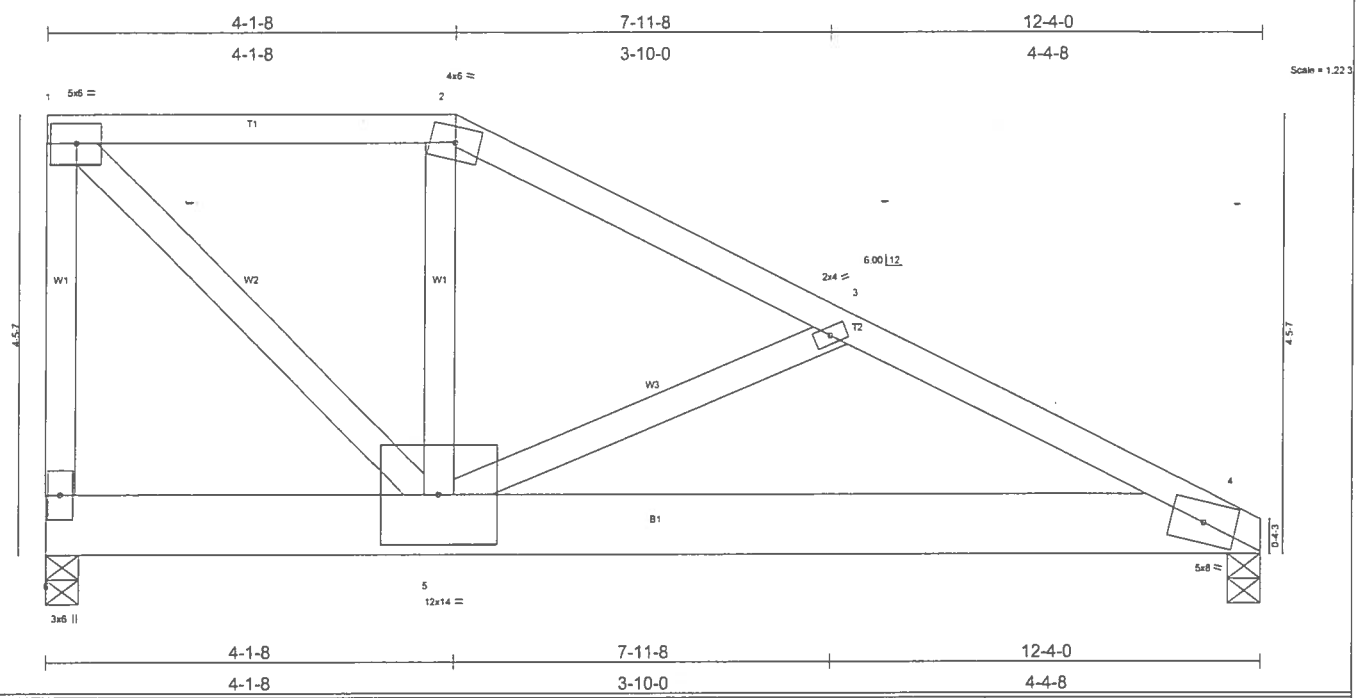

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.17	4-5	>857	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.27	4-5	>534	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 165 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 5-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=4249/0-4-0, 4=4249/0-4-0
Max Horz 6=-185(load case 5)
Max Uplift6=-1589(load case 5), 4=-1564(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-3824/1438, 1-2=-3587/1348, 2-3=-4017/1451, 3-4=-4443/1643
BOT CHORD 5-6=0/168, 4-5=-1447/4011
WEBS 1-5=-1926/5122, 2-5=-580/1619, 3-5=-535/335

NOTES
1) 2-ply truss to be connected together with 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) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
4) Provide adequate drainage to prevent water ponding.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1589 lb uplift at joint 6 and 1564 lb uplift at joint 4.
6) Girder carries tie-in span(s): 32-0-0 from 0-0-0 to 12-4-0

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 4-6=-653(F=-623)

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Dwg.#0208062249

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T08	HIP	1	1	Job Reference (optional)

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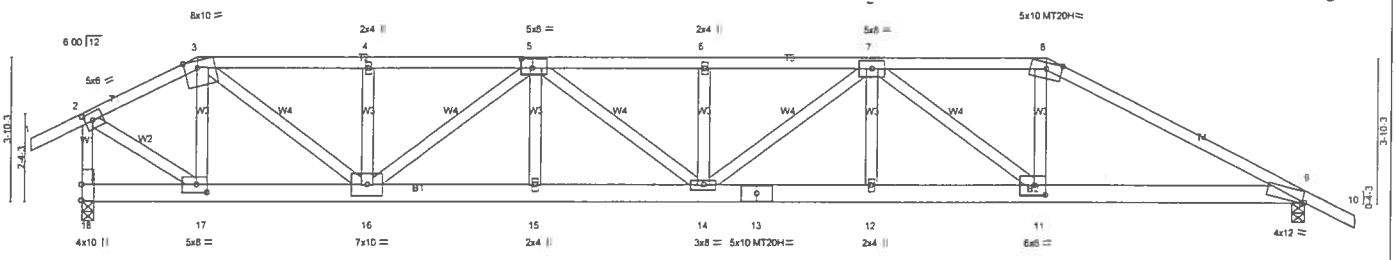
-1-4-0	3-0-0	7-7-7	12-1-2	16-6-14	21-0-9	25-8-0	32-8-0	34-0-0
1-4-0	3-0-0	4-7-7	4-5-11	4-5-11	4-5-11	4-7-7	7-0-0	1-4-0

Scale = 1:58.6



3-0-0	7-7-7	12-1-2	16-6-14	21-0-9	25-8-0	32-8-0
3-0-0	4-7-7	4-5-11	4-5-11	4-5-11	4-7-7	7-0-0

Plate Offsets (X,Y): [2:0-2-11,0-2-8], [3:0-4-3,Edge], [5:0-3-4,0-3-0], [9:0-0-13,Edge], [11:0-3-8,0-3-0], [17:0-3-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.87	Vert(LL)	-0.47	14	>827	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.81	Vert(TL)	-0.75	14	>517	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.97	Horz(TL)	0.15	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 205 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 "Except"
W4 2 X 4 SYP No.2, W4 2 X 4 SYP No.2, W4 2 X 4 SYP No.2, W4 2 X 4 SYP No.2
W4 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-11-0 oc bracing.

REACTIONS (lb/size) 18=3069/0-4-0, 9=2845/0-4-0
Max Horz 18=134(load case 6)
Max Uplift18=-1288(load case 3), 9=-1190(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-2718/1223, 3-4=-4987/2299, 4-5=-4987/2299, 5-6=-7074/3200, 6-7=-7074/3200, 7-8=-5013/2226, 8-9=-5604/2413, 9-10=0/35, 2-18=-2979/1297
BOT CHORD 17-18=-136/59, 16-17=-1064/2317, 15-16=-2913/6570, 14-15=-2912/6579, 13-14=-2865/6589, 12-13=-2865/6589, 11-12=-2865/6589, 9-11=-2079/4927
WEBS 3-17=-1278/701, 3-16=-1491/3346, 4-16=-520/428, 5-16=-2025/906, 5-15=0/347, 5-14=-261/628, 6-14=-518/421, 7-14=-305/646, 7-12=0/332, 7-11=-2096/1016, 8-11=-815/2056, 2-17=-1180/2791

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1288 lb uplift at joint 18 and 1190 lb uplift at joint 9.
6) Girder carries hip end with 7-0-0 right side setback, 0-0-0 left side setback, and 7-0-0 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 25-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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=-117(F=-63), 3-8=-117(F=-63), 8-10=-54, 11-18=-65(F=-35), 9-11=-30
Concentrated Loads (lb)
Vert: 11=-539(F)

FEBRUARY 08, 2006 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

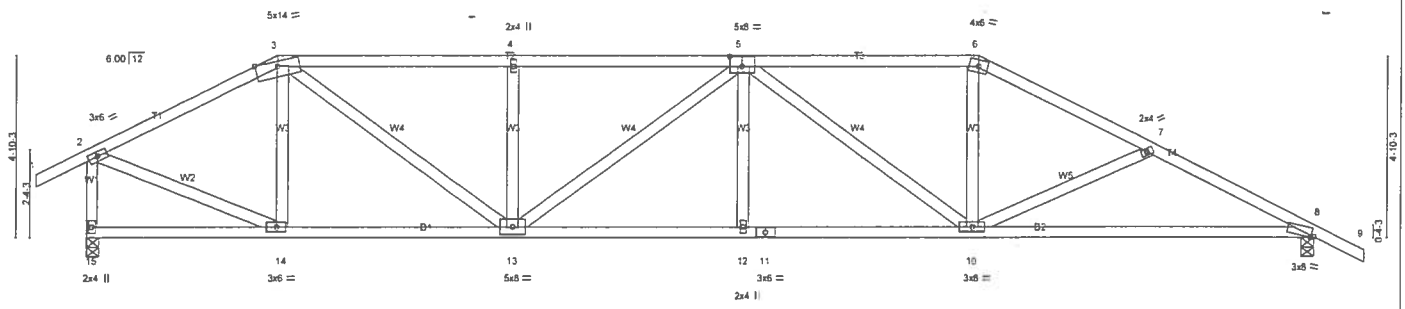
Dwg.#0208062250

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T09	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:01 2006 Page 1

-1-4-0	5-0-0	11-3-4	17-4-12	23-8-0	28-2-0	32-8-0	34-0-0
1-4-0	5-0-0	6-3-4	6-1-8	6-3-4	4-6-0	4-6-0	1-4-0

Scale = 1:58.6



5-0-0	11-3-4	17-4-12	23-8-0	32-8-0
5-0-0	6-3-4	6-1-8	6-3-4	9-0-0

Plate Offsets (X,Y): [5:0-3-12,0-3-0], [8:0-0-13,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	0.30	Vert(LL)	-0.22	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.37	8-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.09	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 180 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 3-8-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-4 oc bracing.

REACTIONS (lb/size) 15=1439/0-4-0, 8=1440/0-4-0
Max Horz 15=-125(load case 3)
Max Uplift15=-428(load case 5), 8=-475(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-1490/649, 3-4=-2221/996, 4-5=-2221/996, 5-6=-1991/898, 6-7=-2253/934, 7-8=-2486/1051, 8-9=0/31, 2-15=-1367/670
BOT CHORD 14-15=-32/121, 13-14=-378/1272, 12-13=-805/2439, 11-12=-804/2441, 10-11=-804/2441, 8-10=-808/2174
WEBS 3-14=-355/207, 3-13=-454/1207, 4-13=-342/240, 5-13=-291/115, 5-12=0/160, 5-10=-650/305, 6-10=-179/676, 7-10=-226/219, 2-14=-445/1343

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 428 lb uplift at joint 15 and 475 lb uplift at joint 8.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062251

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T10	HIP	1	1	Job Reference (optional)

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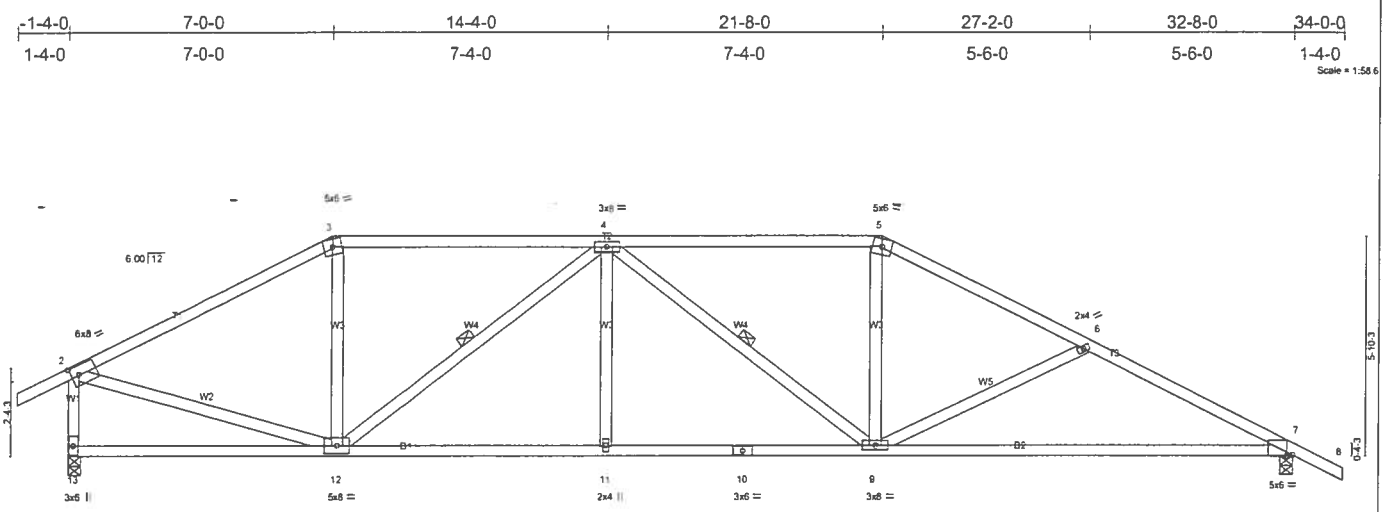

Plate Offsets (X,Y): [2:0-2-7,0-3-0], [7:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.38	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.65	7-9	>594	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(TL)	0.09	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 177 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 3-5-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-10 oc bracing.
WEBS 1 Row at midpt 4-12, 4-9

REACTIONS (lb/size) 13=1439/0-4-0, 7=1440/0-4-0
Max Horz 13=-139(load case 3)
Max Uplift13=-449(load case 5), 7=-492(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-1629/707, 3-4=-1393/708, 4-5=-1843/871, 5-6=-2109/898, 6-7=-2425/1054, 7-8=0/31, 2-13=-1336/681
BOT CHORD 12-13=-85/136, 11-12=-613/1998, 10-11=-613/1998, 9-10=-613/1998, 7-9=-800/2123
WEBS 3-12=-34/377, 4-12=-833/316, 4-11=0/184, 4-9=-327/202, 5-9=-130/570, 6-9=-333/295, 2-12=-403/1322

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 449 lb uplift at joint 13 and 492 lb uplift at joint 7.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062252

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T11	HIP	1	1	Job Reference (optional)

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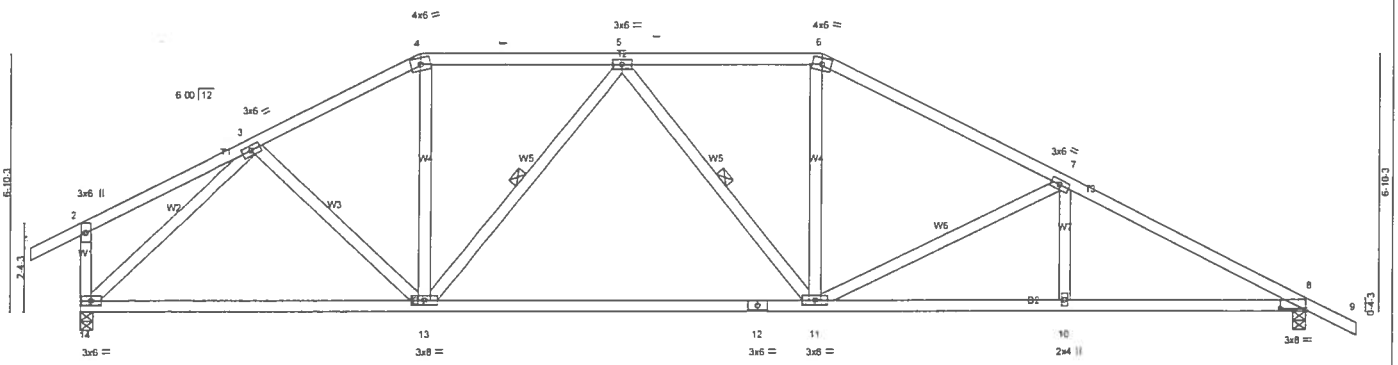
-1-4-0	4-7-12	9-0-0	14-4-0	19-8-0	26-2-0	32-8-0	34-0-0
1-4-0	4-7-12	4-4-4	5-4-0	5-4-0	6-6-0	6-6-0	1-4-0

Scale = 1:58.6



9-0-0	19-8-0	26-2-0	32-8-0
9-0-0	10-8-0	6-6-0	6-6-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.57	Vert(LL)	-0.29	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.49	11-13	>785	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(TL)	0.09	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 184 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 3-8-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-8 oc bracing.
WEBS 1 Row at midpt 5-13, 5-11

REACTIONS (lb/size) 14=1439/0-4-0, 8=1440/0-4-0
Max Horz 14=-181(load case 6)
Max Uplift14=-469(load case 5), 8=-506(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-180/126, 3-4=-1597/737, 4-5=-1394/713, 5-6=-1658/834, 6-7=-1923/852, 7-8=-2515/1032, 8-9=0/31, 2-14=-269/257
BOT CHORD 13-14=-340/1173, 12-13=-461/1633, 11-12=-461/1633, 10-11=-773/2170, 8-10=-773/2170
WEBS 3-13=-85/369, 4-13=-118/414, 5-13=-456/223, 5-11=-114/145, 6-11=-124/499, 7-11=-587/365, 7-10=0/188, 3-14=-1494/632

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 469 lb uplift at joint 14 and 506 lb uplift at joint 8.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062253

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T12	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:04 2006 Page 1

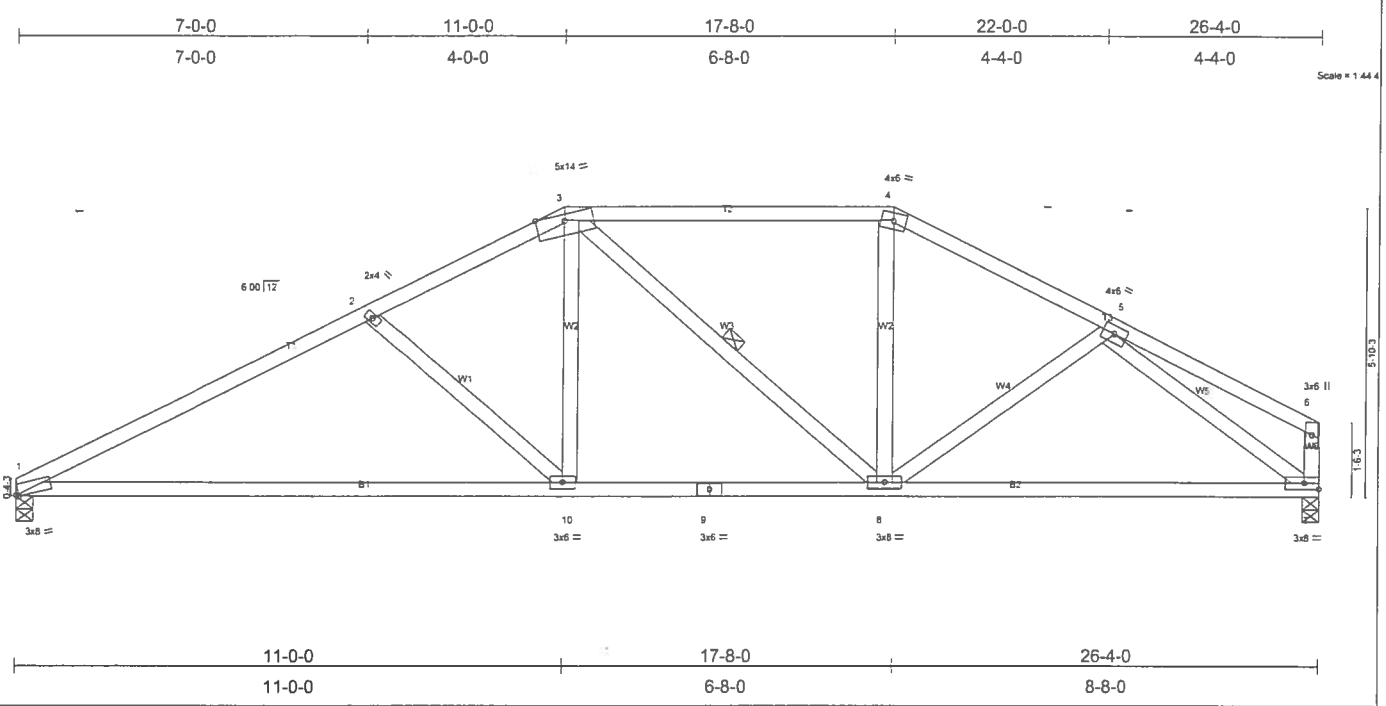


Plate Offsets (X,Y): [1:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.72	Vert(LL)	-0.43	1-10	>727	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.73	1-10	>430	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.06	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 134 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 3-5-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-4 oc bracing.
WEBS 1 Row at midpt 3-8

REACTIONS (lb/size) 1=1093/0-4-0, 7=1093/0-4-0
Max Horz 1=119(load case 5)
Max Uplift1=-341(load case 5), 7=-323(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1803/806, 2-3=-1524/706, 3-4=-1186/625, 4-5=-1358/636, 5-6=-344/104, 6-7=-257/129
BOT CHORD 1-10=-680/1560, 9-10=-454/1321, 8-9=-454/1321, 7-8=-474/1105
WEBS 2-10=-334/304, 3-10=-161/524, 3-8=-272/92, 4-8=-37/247, 5-8=-57/205, 5-7=-1096/567

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 341 lb uplift at joint 1 and 323 lb uplift at joint 7.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062254

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T13	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:05 2006 Page 1

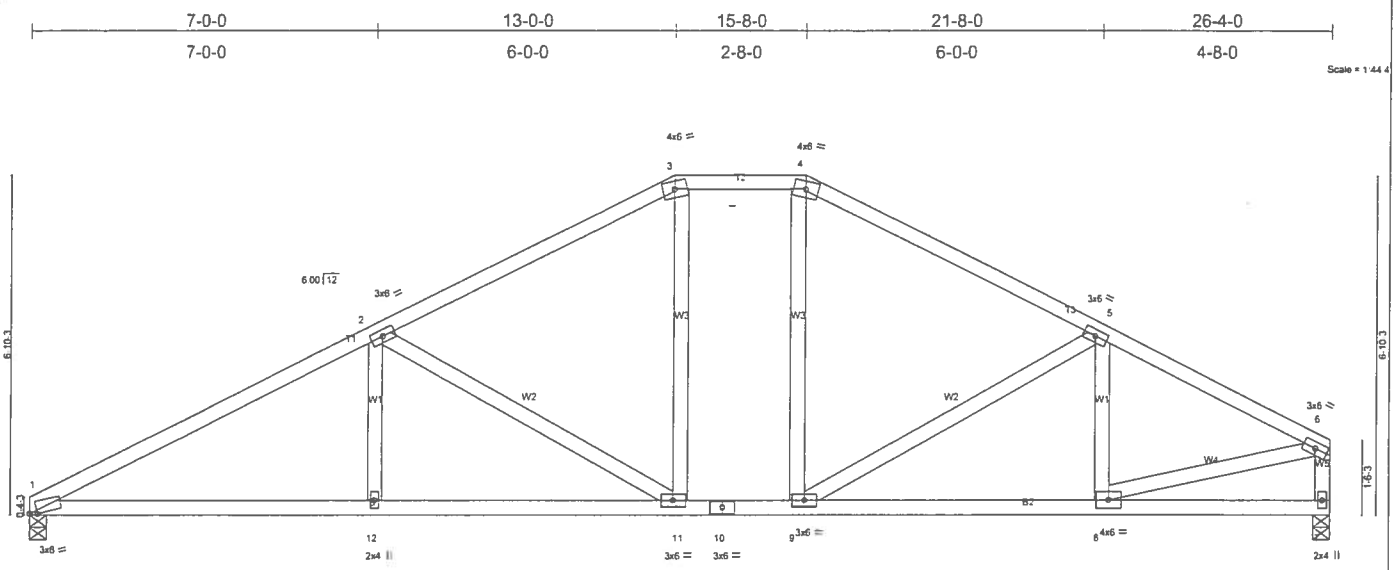


Plate Offsets (X,Y): [1:0-1-13,0-0-7]

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)	-0.18	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.59	Vert(TL)	-0.25	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 139 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 4-1-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-4 oc bracing.

REACTIONS (lb/size) 1=1093/0-4-0, 7=1093/0-4-0
Max Horz 1=133(load case 5)
Max Uplift1=-353(load case 5), 7=-338(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1950/829, 2-3=-1299/640, 3-4=-1092/631, 4-5=-1285/631, 5-6=-1395/614, 6-7=-1022/474
BOT CHORD 1-12=-706/1667, 11-12=-706/1667, 10-11=-363/1092, 9-10=-363/1092, 8-9=-491/1203, 7-8=-59/114
WEBS 2-12=0/272, 2-11=-712/399, 3-11=-146/384, 4-9=-77/260, 5-9=-236/186, 5-8=-162/172, 6-8=-449/1131

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 353 lb uplift at joint 1 and 338 lb uplift at joint 7.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062255

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T14	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:06 2006 Page 1

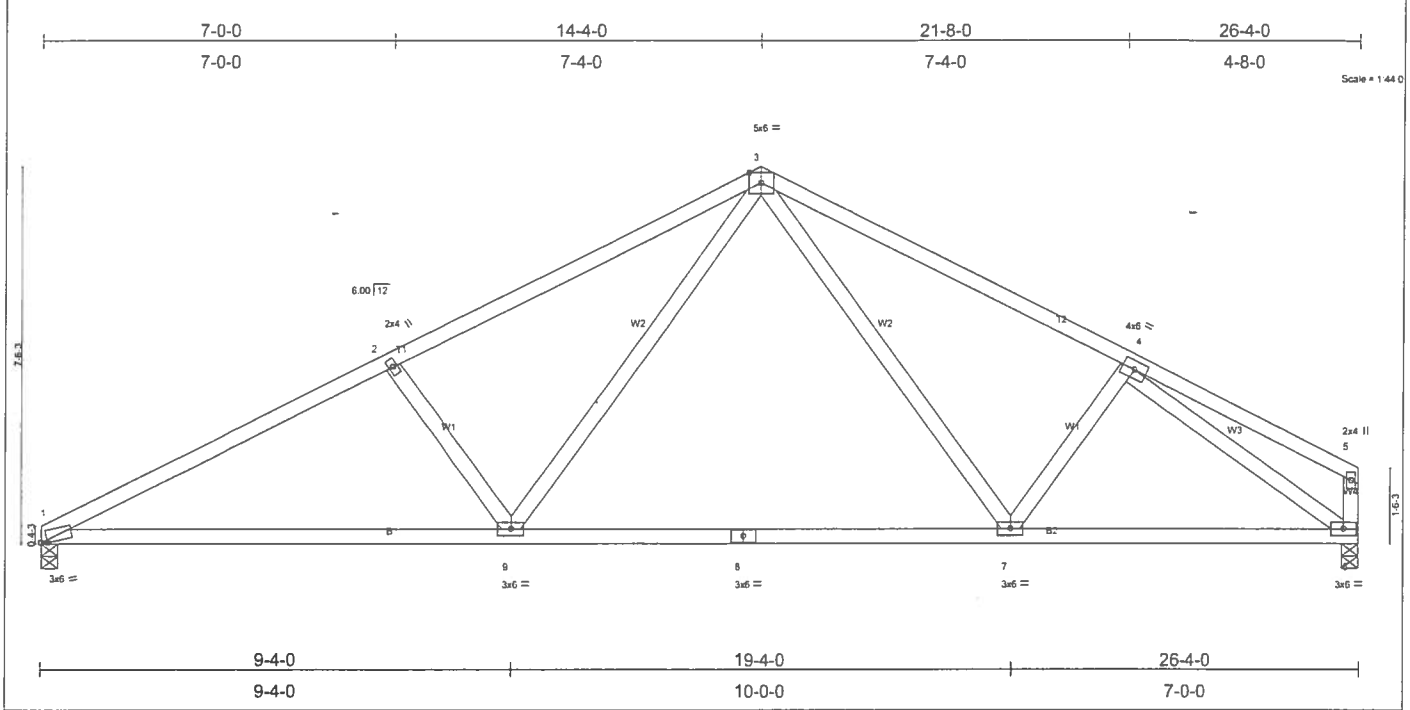


Plate Offsets (X,Y): [1:0-1-9,0-0-7]

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)	-0.21	1-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.66	Vert(TL)	-0.36	7-9	>877	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 130 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 3-10-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-2 oc bracing.

REACTIONS (lb/size) 1=1093/0-4-0, 6=1093/0-4-0
Max Horz 1=142(load case 5)
Max Uplift1=-360(load case 5), 6=-346(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1881/843, 2-3=-1682/822, 3-4=-1409/701, 4-5=-188/98, 5-6=-162/108
BOT CHORD 1-9=-720/1627, 8-9=-346/996, 7-8=-346/996, 6-7=-520/1197
WEBS 2-9=-379/357, 3-9=-300/775, 3-7=-131/406, 4-7=-90/202, 4-6=-1360/615

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 360 lb uplift at joint 1 and 346 lb uplift at joint 6.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062256

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T15	SPECIAL	1	1	Job Reference (optional)

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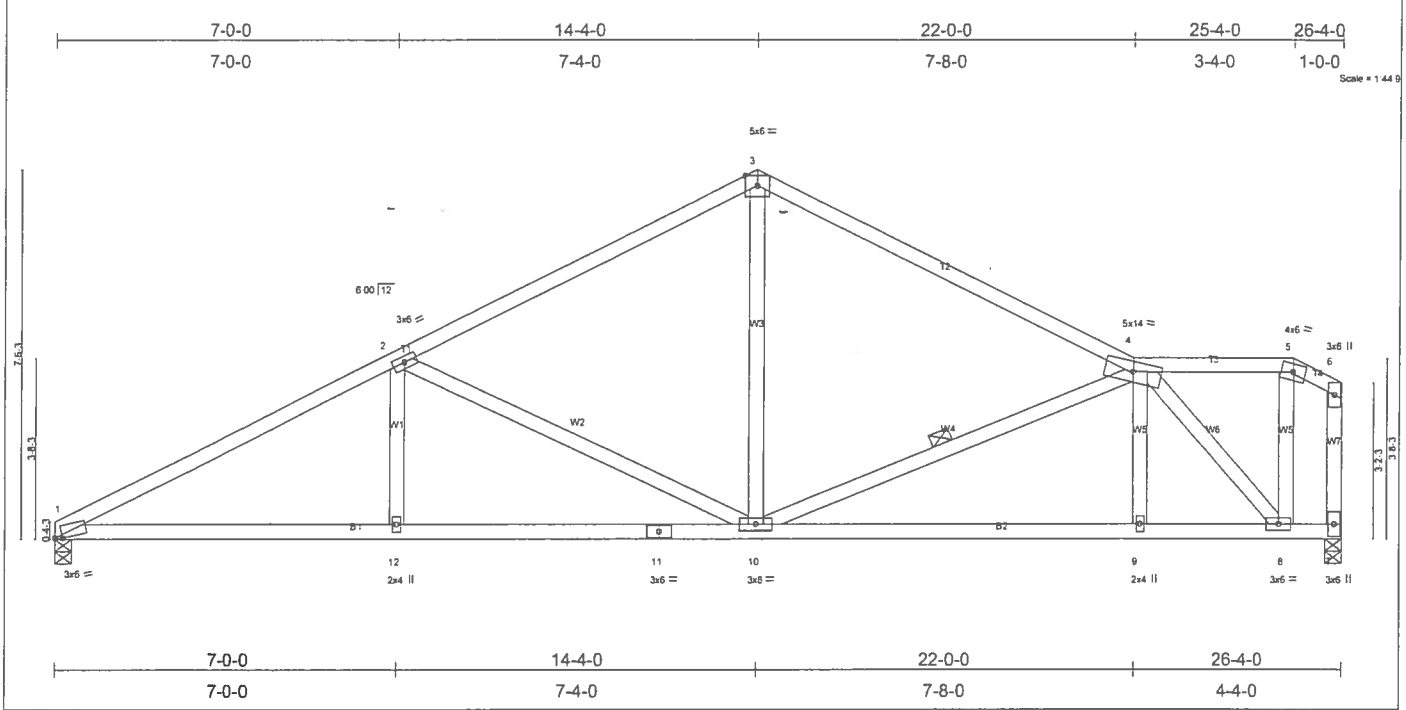

Plate Offsets (X,Y): [1:0-1-13,0-0-7]

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)	-0.13	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.22	9-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(TL)	0.06	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 141 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 *Except*
W7 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=1093/0-4-0, 7=1093/0-4-0
Max Horz 1=196(load case 5)
Max Uplift1=-355(load case 5), 7=-352(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1947/820, 2-3=-1245/604, 3-4=-1247/598, 4-5=-216/112, 5-6=-454/210, 6-7=-629/305
BOT CHORD 1-12=-783/1665, 11-12=-783/1665, 10-11=-783/1665, 9-10=-553/1233, 8-9=-552/1244, 7-8=-77/189
WEBS 2-12=0/241, 2-10=-729/419, 3-10=-195/619, 4-10=-306/187, 4-9=0/259, 5-8=-295/605, 4-8=-1499/673

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 1 and 352 lb uplift at joint 7.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062257

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T16	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:08 2006 Page 1

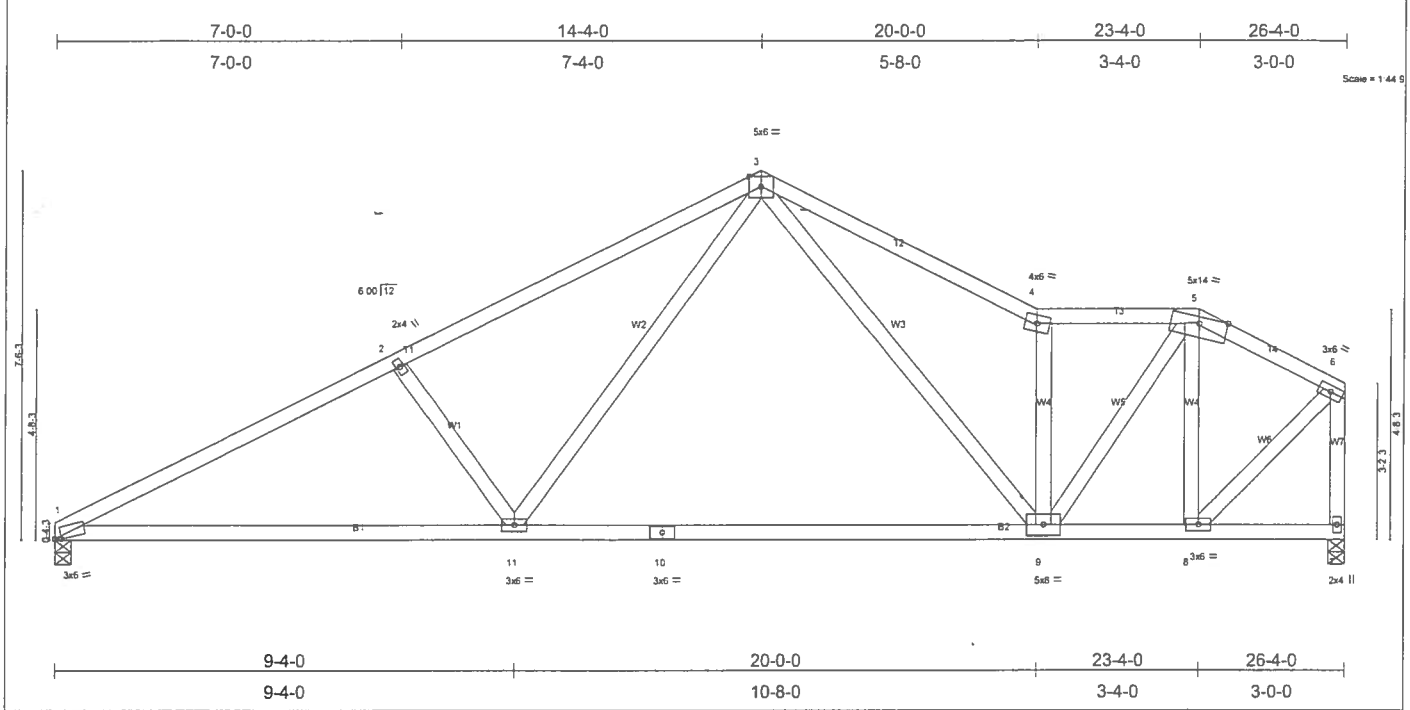

Plate Offsets (X,Y): [1:0-1-9,0-0-7]

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)	-0.27	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.47	9-11	>665	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(TL)	0.05	7	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 3-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-7 oc bracing.

REACTIONS (lb/size) 1=1093/0-4-0, 7=1093/0-4-0
Max Horz 1=196(load case 5)
Max Uplift1=-355(load case 5), 7=-352(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1890/825, 2-3=-1690/803, 3-4=-1451/731, 4-5=-1220/567, 5-6=-769/359, 6-7=-1023/482
BOT CHORD 1-11=-791/1635, 10-11=-407/986, 9-10=-407/986, 8-9=-272/635, 7-8=-11/27
WEBS 2-11=-377/367, 3-11=-306/791, 3-9=-194/519, 4-9=-847/498, 5-9=-377/994, 5-8=-634/261, 6-8=-377/882

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 1 and 352 lb uplift at joint 7.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062258

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T17	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:10 2006 Page 1

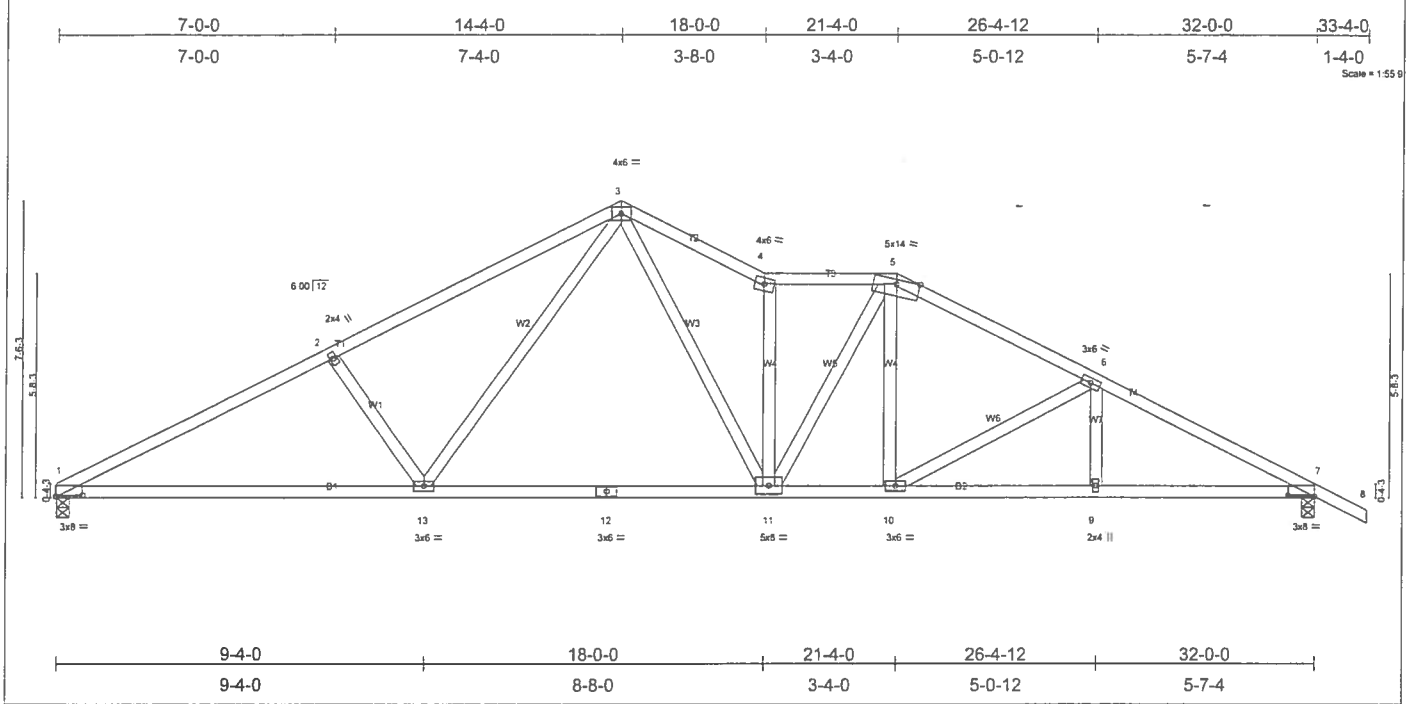

Plate Offsets (X,Y): [1:0-8-0,0-0-6], [7:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	-0.26	1-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.43	1-13	>894	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.10	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 169 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 3-3-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-0 oc bracing.

REACTIONS (lb/size) 1=1328/0-4-0, 7=1413/0-4-0
Max Horz 1=-142(load case 6)
Max Uplift1=-422(load case 5), 7=-533(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2389/1058, 2-3=-2190/1037, 3-4=-2193/1091, 4-5=-1929/934, 5-6=-2014/923, 6-7=-2497/1036, 7-8=0/31
BOT CHORD 1-13=-797/2080, 12-13=-410/1454, 11-12=-410/1454, 10-11=-557/1753, 9-10=-786/2157, 7-9=-786/2157
WEBS 2-13=-372/366, 3-13=-313/749, 3-11=-457/1094, 4-11=-1055/540, 5-11=-102/344, 5-10=-118/313, 6-10=-480/264, 6-9=0/183

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 422 lb uplift at joint 1 and 533 lb uplift at joint 7.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062259

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T18	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:11 2006 Page 1

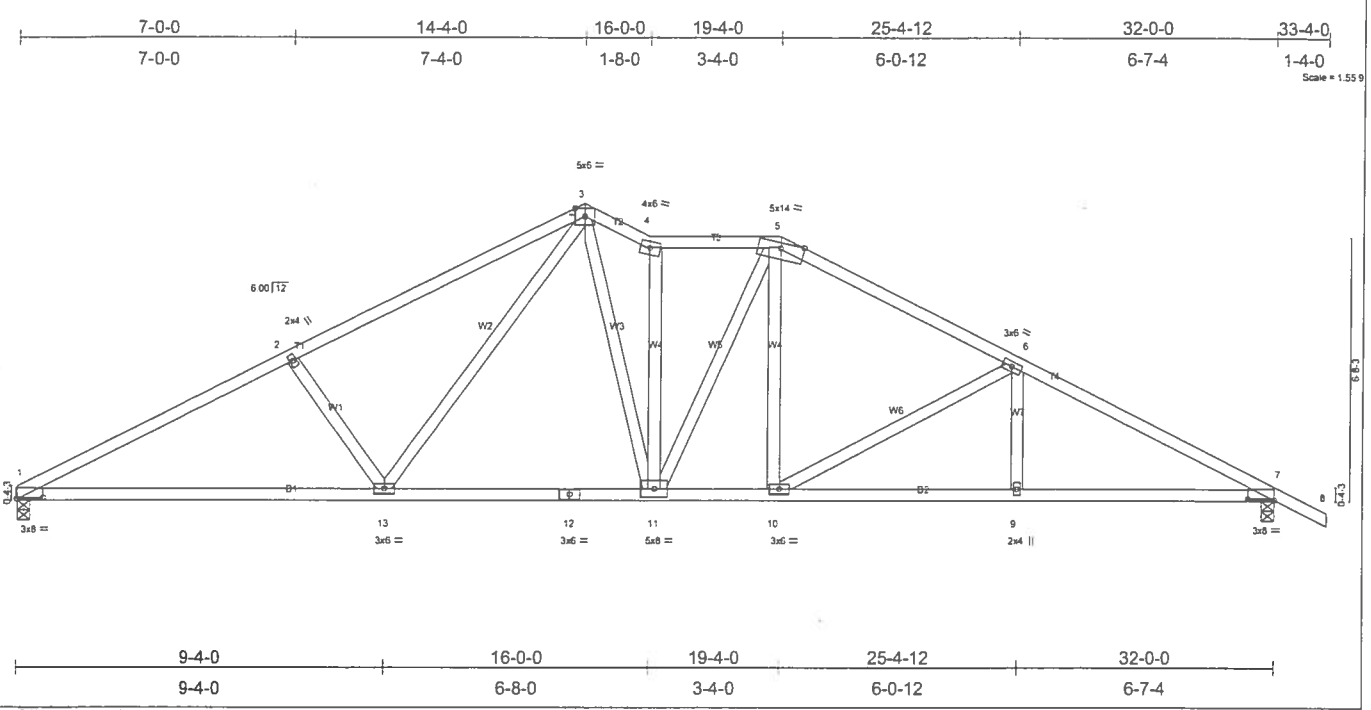

Plate Offsets (X,Y): [1:0-8-0,0-0-6], [7:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.27	1-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.66	Vert(TL)	-0.45	1-13	>841	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(TL)	0.10	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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-0 oc bracing.

REACTIONS (lb/size) 1=1328/0-4-0, 7=1413/0-4-0
Max Horz 1=-142(load case 6)
Max Uplift1=-422(load case 5), 7=-533(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2380/1057, 2-3=-2181/1036, 3-4=-1786/902, 4-5=-1639/845, 5-6=-1860/870, 6-7=-2458/1026, 7-8=0/31
BOT CHORD 1-13=-795/2072, 12-13=-409/1465, 11-12=-409/1465, 10-11=-468/1604, 9-10=-766/2118, 7-9=-766/2118
WEBS 2-13=-368/362, 3-13=-316/717, 3-11=-290/865, 4-11=-706/302, 5-11=-55/179, 5-10=-136/417, 6-10=-602/341, 6-9=0/221

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 422 lb uplift at joint 1 and 533 lb uplift at joint 7.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062260

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T19	HIP	1	1	Job Reference (optional)

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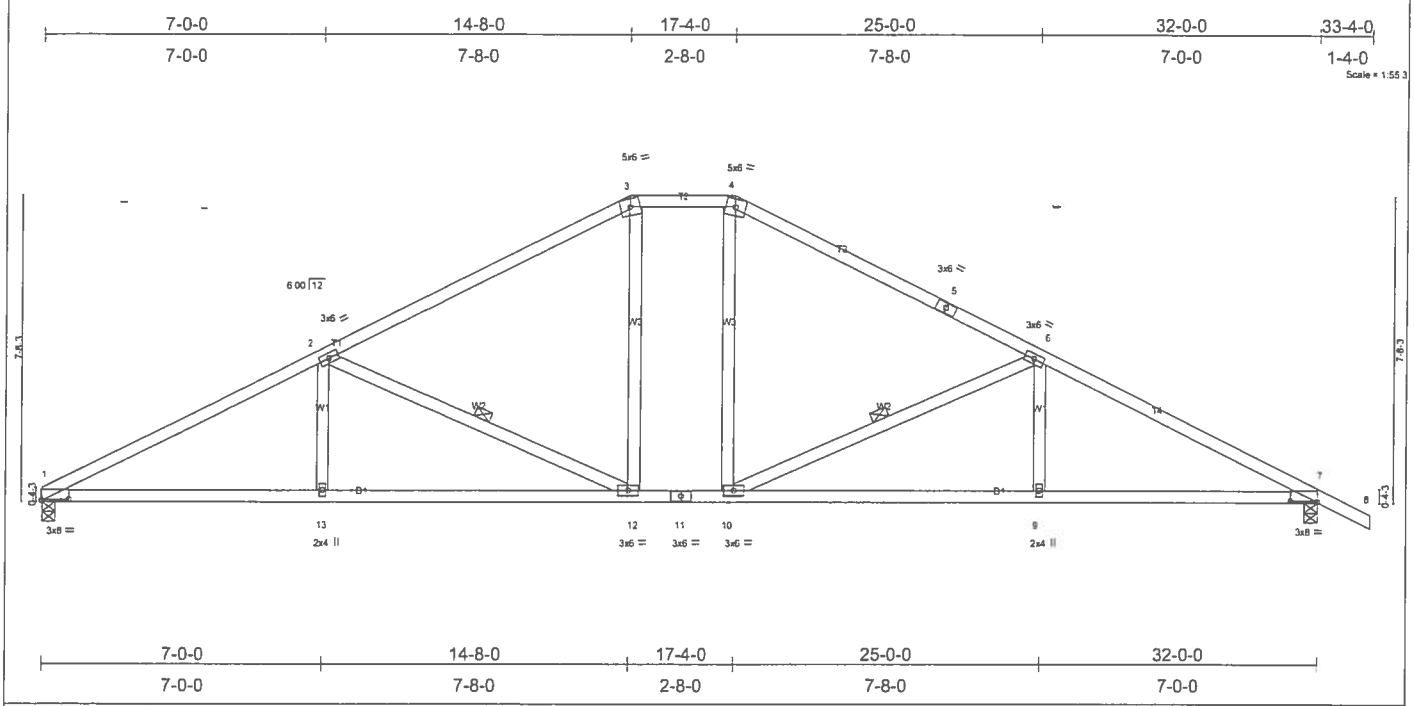

Plate Offsets (X,Y): [1:0-8-0,0-0-6], [7:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.31	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.70	Vert(TL)	-0.43	9-10	>874	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(TL)	0.11	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 158 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 3-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-2 oc bracing.
WEBS 1 Row at midpt 2-12, 6-10

REACTIONS (lb/size) 1=1328/0-4-0, 7=1413/0-4-0
Max Horz 1=-144(load case 6)
Max Uplift1=-424(load case 5), 7=-512(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2473/1055, 2-3=-1713/813, 3-4=-1453/809, 4-5=-1615/812, 5-6=-1712/786, 6-7=-2460/1033, 7-8=0/31
BOT CHORD 1-13=-794/2134, 12-13=-794/2134, 11-12=-383/1453, 10-11=-383/1453, 9-10=-772/2121, 7-9=-772/2121
WEBS 2-13=0/286, 2-12=-816/455, 3-12=-155/457, 4-10=-150/454, 6-10=-801/430, 6-9=0/279

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 424 lb uplift at joint 1 and 512 lb uplift at joint 7.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062261

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T20	COMMON	3	1	Job Reference (optional)

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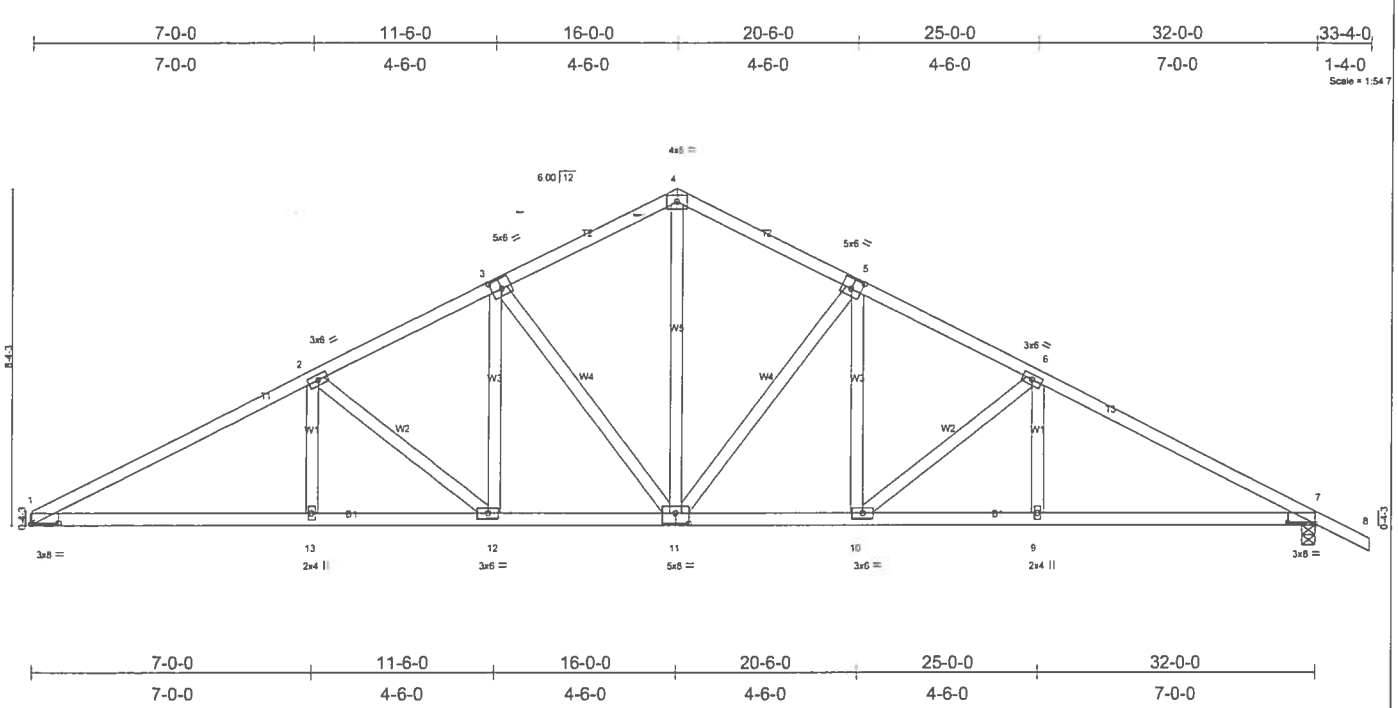

7-0-0	11-6-0	16-0-0	20-6-0	25-0-0	32-0-0
7-0-0	4-6-0	4-6-0	4-6-0	4-6-0	7-0-0

Plate Offsets (X,Y): [1:0-8-0,0-0-6], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [7:0-8-0,0-0-6], [11:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	-0.17	1-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.66	Vert(TL)	-0.28	1-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(TL)	0.10	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 178 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 3-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-8-9 oc bracing.

REACTIONS (lb/size) 1=1332/Mechanical, 7=1417/0-4-0
Max Horz 1=-153(load case 6)
Max Uplift1=-433(load case 5), 7=-520(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2471/1065, 2-3=-1964/943, 3-4=-1543/817, 4-5=-1543/817, 5-6=-1953/934, 6-7=-2436/1033, 7-8=0/31
BOT CHORD 1-13=-799/2134, 12-13=-799/2134, 11-12=-535/1694, 10-11=-529/1686, 9-10=-764/2094, 7-9=-764/2094
WEBS 2-13=0/225, 2-12=-560/335, 4-11=-512/1062, 6-10=-523/298, 6-9=0/213, 3-12=-170/446, 3-11=-595/343, 5-10=-153/427, 5-11=-582/333

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 433 lb uplift at joint 1 and 520 lb uplift at joint 7.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062262

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T21	SPECIAL	1	2	Job Reference (optional)

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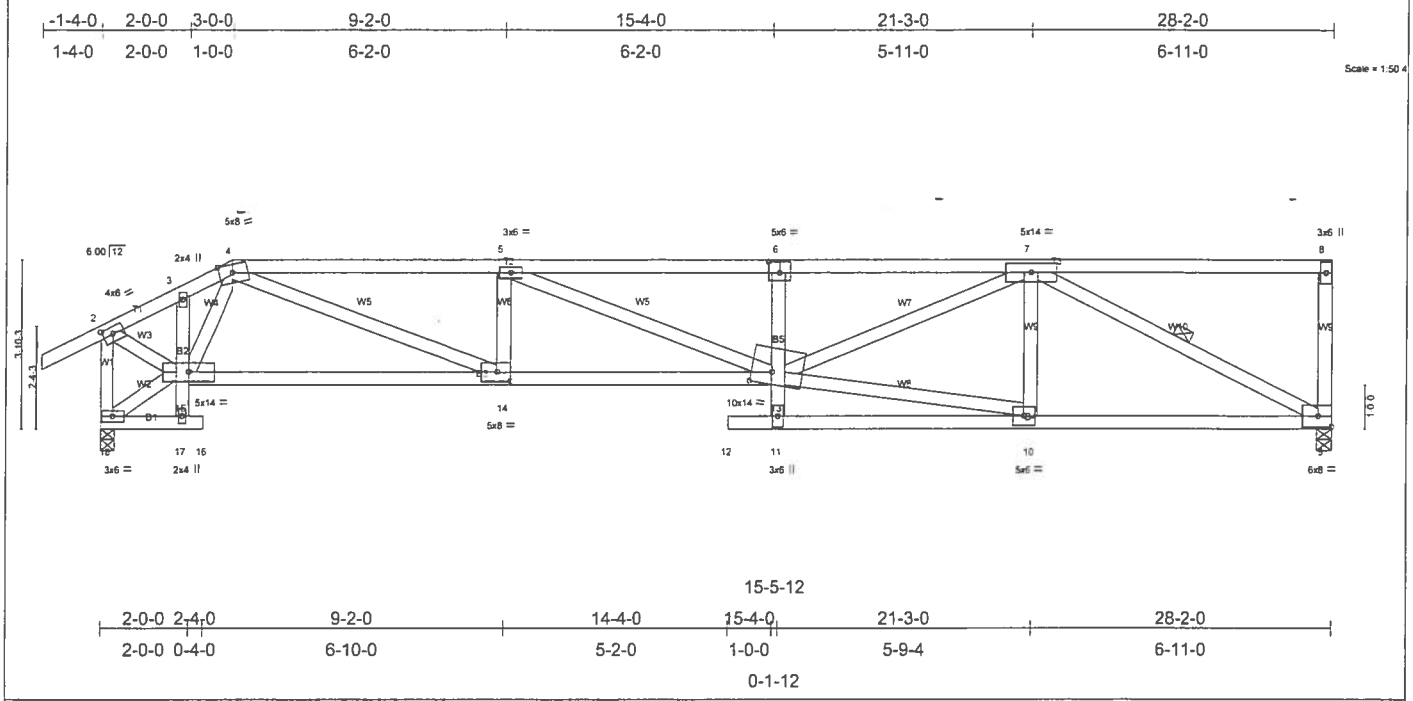

Plate Offsets (X,Y): [2:0-2-15,0-2-0], [6:0-3-0,0-3-0], [13:0-5-10,0-3-5], [14:0-3-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.72	Vert(LL)	-0.44	12	>752	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	1.00	Vert(TL)	-0.71	12	>470	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.22	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 338 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
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 9=3212/0-4-0, 18=3189/0-4-0
Max Horz 18=226(load case 5)
Max Uplift9=-1569(load case 4), 18=-1337(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-2904/1433, 3-4=-2804/1405, 4-5=-8210/3956, 5-6=-10266/5074, 6-7=-9993/4974, 7-8=-185/91, 8-9=-389/332, 2-18=-3160/1608
BOT CHORD 17-18=-64/0, 16-17=0/0, 15-17=-19/46, 3-15=-166/240, 14-15=-1699/3325, 13-14=-3957/8210, 11-13=0/270, 6-13=-699/484, 11-12=0/0, 10-11=-371/836, 9-10=-2529/5099
WEBS 4-14=-2461/5286, 5-14=-1642/907, 5-13=-1243/2219, 10-13=-2189/4326, 7-13=-2675/5353, 7-10=-377/510, 7-9=-5551/2753, 2-15=-1342/2954, 15-18=-202/118, 4-15=-1711/892

NOTES
1) 2-ply truss to be connected together with 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) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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.
4) Provide adequate drainage to prevent water ponding.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1569 lb uplift at joint 9 and 1337 lb uplift at joint 18.
6) Girder carries tie-in span(s): 6-0-5 from 2-0-0 to 15-4-0; 3-3-2 from 2-0-0 to 15-4-0
7) Girder carries hip end with 0-0-0 right side setback, 15-4-0 left side setback, and 7-0-0 end setback.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1181 lb down and 692 lb up at 15-5-12 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=-117(F=-63), 3-4=-132(F=-78), 4-6=-132(F=-78), 6-8=-117(F=-63), 17-18=-65(F=-35), 16-17=-50(F=-20), 13-15=-50(F=-20), 11-12=-50(F=-20), 9-11=-65(F=-35)
Concentrated Loads (lb)
Vert: 13=-1181(F)

FEBRUARY 08, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0208062263

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T22	SPECIAL	1	1	Job Reference (optional)

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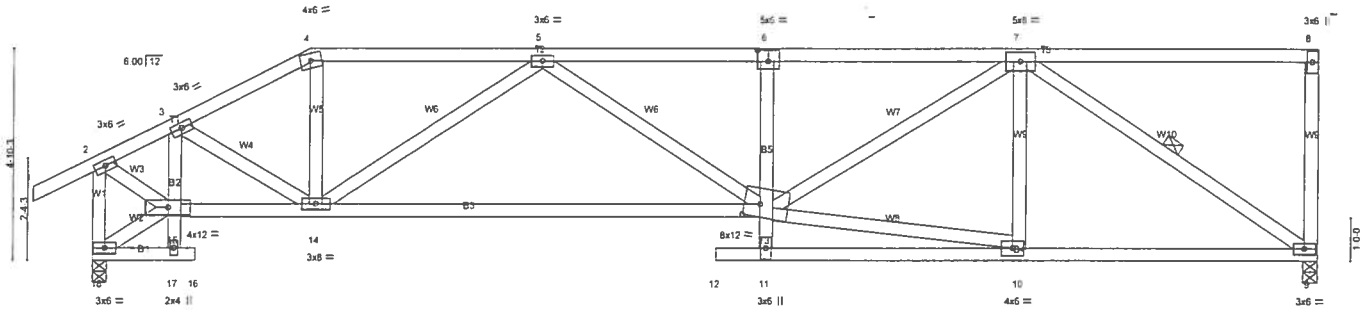
-1-4-0 | 2-0-0 | 5-0-0 | 10-3-12 | 15-4-0 | 21-3-0 | 28-2-0

1-4-0 | 2-0-0 | 3-0-0 | 5-3-12 | 5-0-4 | 5-11-0 | 6-11-0

Scale = 1:50.4



2-0-0 | 2-4-0 | 5-0-0 | 14-4-0 | 15-4-0 | 21-3-0 | 28-2-0

2-0-0 | 0-4-0 | 2-8-0 | 9-4-0 | 1-0-0 | 5-11-0 | 6-11-0

Plate Offsets (X,Y): [6:0-3-0,0-3-0], [13:0-4-4,0-3-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.31	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.67	Vert(TL)	-0.52	13-14	>642	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.11	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 177 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, B5 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 9=1188/0-4-0, 18=1282/0-4-0
Max Horz 18=209(load case 5)
Max Uplift9=-441(load case 4), 18=-370(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-1053/555, 3-4=-1625/686, 4-5=-1458/662, 5-6=-2435/948, 6-7=-2383/944, 7-8=-57/23, 8-9=-175/123, 2-18=-1209/675
BOT CHORD 17-18=-41/88, 16-17=0/0, 15-17=-11/42, 3-15=-634/146, 14-15=-602/919, 13-14=-953/2150, 11-13=0/122, 6-13=-276/199, 11-12=0/0, 10-11=-94/0, 9-10=-563/1407
WEBS 3-14=-181/605, 4-14=-118/461, 5-14=-841/405, 5-13=-43/346, 10-13=-476/1434, 7-13=-447/1147, 7-10=-61/135, 7-9=-1627/652, 2-15=-446/1076, 15-18=-186/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 441 lb uplift at joint 9 and 370 lb uplift at joint 18.

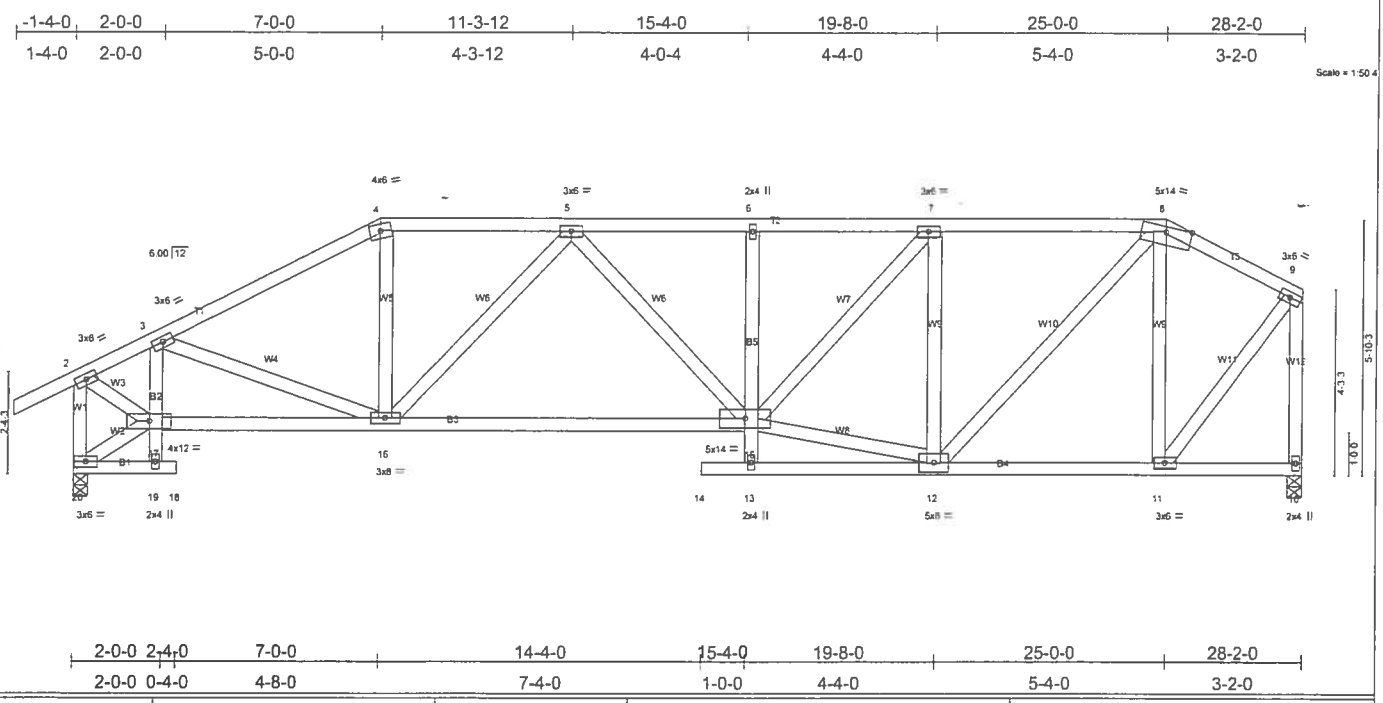
LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062264

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T23	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:17 2006 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	0.41	Vert(LL)	-0.18	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.29	15-16	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.49	Horz(TL)	0.08	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 195 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, B5 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 10=1188/0-4-0, 20=1282/0-4-0
Max Horz 20=206(load case 5)
Max Uplift10=-358(load case 3), 20=-392(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-1085/550, 3-4=-1636/696, 4-5=-1422/683, 5-6=-1871/798, 6-7=-1845/794, 7-8=-1288/583, 8-9=-724/311, 2-20=-1229/655, 9-10=-1151/485
BOT CHORD 19-20=-67/45, 18-19=0/0, 17-19=-15/40, 3-17=-549/193, 16-17=-611/1014, 15-16=-730/1744, 13-15=0/99, 6-15=-211/156, 13-14=0/0, 12-13=-71/0, 11-12=-234/608, 10-11=-6/10
WEBS 3-16=-167/467, 4-16=-100/466, 12-15=-446/1341, 7-15=-312/822, 7-12=-885/422, 8-12=-391/994, 8-11=-646/331, 2-17=-466/1131, 9-11=-383/995, 5-16=-542/264, 5-15=-36/226, 17-20=-118/14

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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.
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 10 and 392 lb uplift at joint 20.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062265

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T24	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:18 2006 Page 1

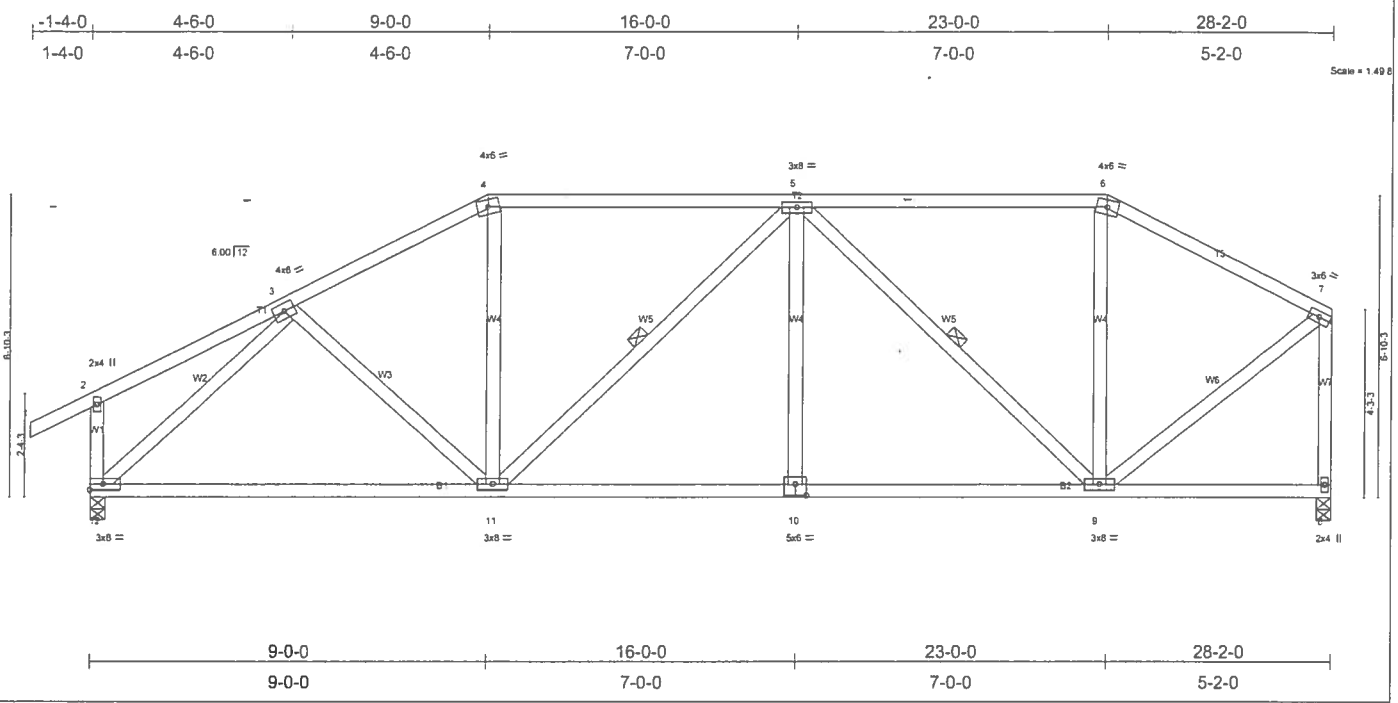


Plate Offsets (X,Y): [10:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.69	Vert(LL)	-0.13	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.22	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(TL)	0.04	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 179 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 5-2-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-6 oc bracing.
WEBS 1 Row at midpt 5-11, 5-9

REACTIONS (lb/size) 12=1253/0-4-0, 8=1169/0-4-0
Max Horz 12=221(load case 5)
Max Uplift12=-415(load case 5), 8=-313(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-196/161, 3-4=-1304/608, 4-5=-1132/601, 5-6=-790/435, 6-7=-932/418, 2-12=-275/271, 7-8=-1101/502
BOT CHORD 11-12=-514/964, 10-11=-514/1269, 9-10=-514/1269, 8-9=-18/26
WEBS 3-11=-90/298, 4-11=-27/240, 5-11=-276/155, 5-10=0/196, 5-9=-699/287, 6-9=0/125, 3-12=-1190/475, 7-9=-368/966

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 415 lb uplift at joint 12 and 313 lb uplift at joint 8.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062266

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T25	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:19 2006 Page 1

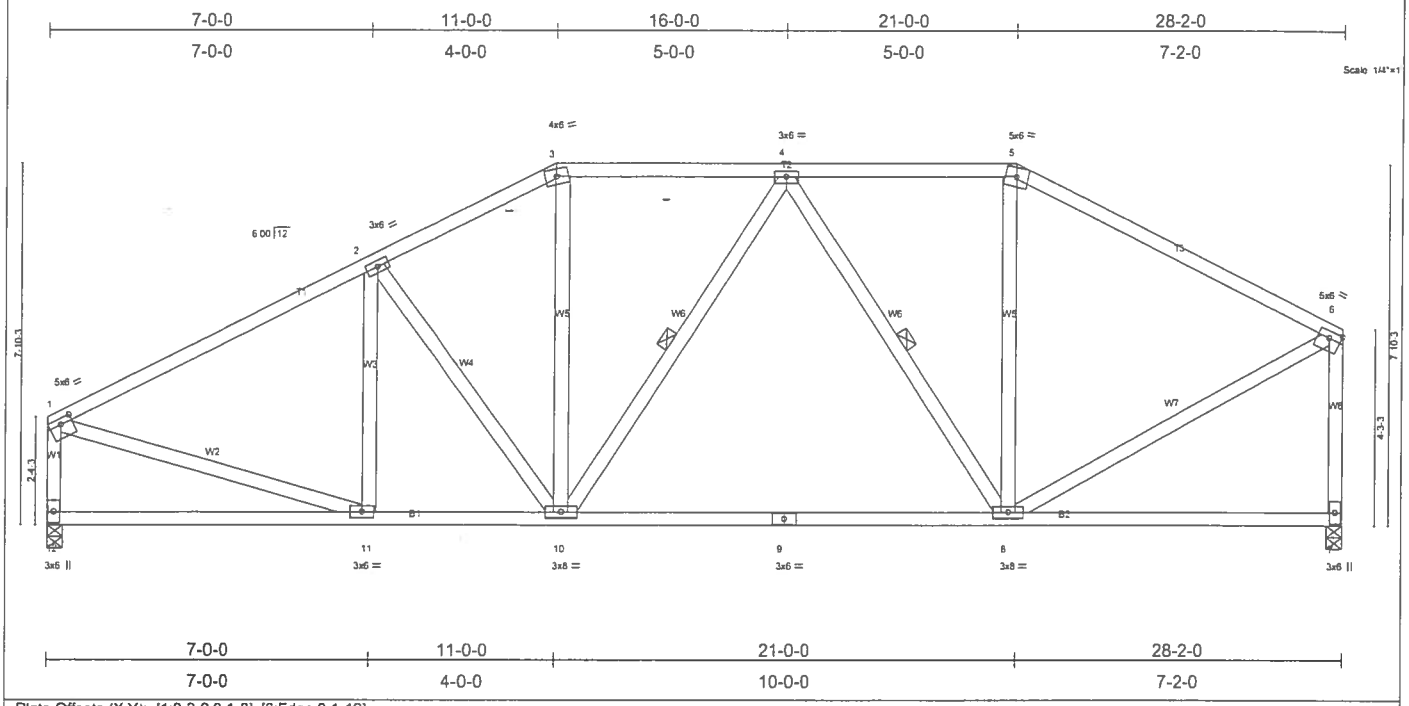


Plate Offsets (X,Y): [1:0-3-0,0-1-8], [6:Edge,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.86	Vert(LL)	-0.20	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.35	8-10	>969	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.03	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 183 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 5-1-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-5 oc bracing.
WEBS 1 Row at midpt 4-10, 4-8

REACTIONS (lb/size) 12=1171/0-4-0, 7=1171/0-4-0
Max Horz 12=187(load case 5)
Max Uplift12=-347(load case 5), 7=-331(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1347/587, 2-3=-1242/627, 3-4=-1066/596, 4-5=-877/506, 5-6=-1062/478, 1-12=-1052/495, 6-7=-1079/512
BOT CHORD 11-12=-240/170, 10-11=-523/1128, 9-10=-424/1051, 8-9=-424/1051, 7-8=-46/65
WEBS 2-10=-130/188, 3-10=-115/307, 4-10=-76/119, 4-8=-399/205, 5-8=-2/200, 6-8=-323/929, 2-11=-179/127, 1-11=-308/1002

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 347 lb uplift at joint 12 and 331 lb uplift at joint 7.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062267

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T26	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:20 2006 Page 1

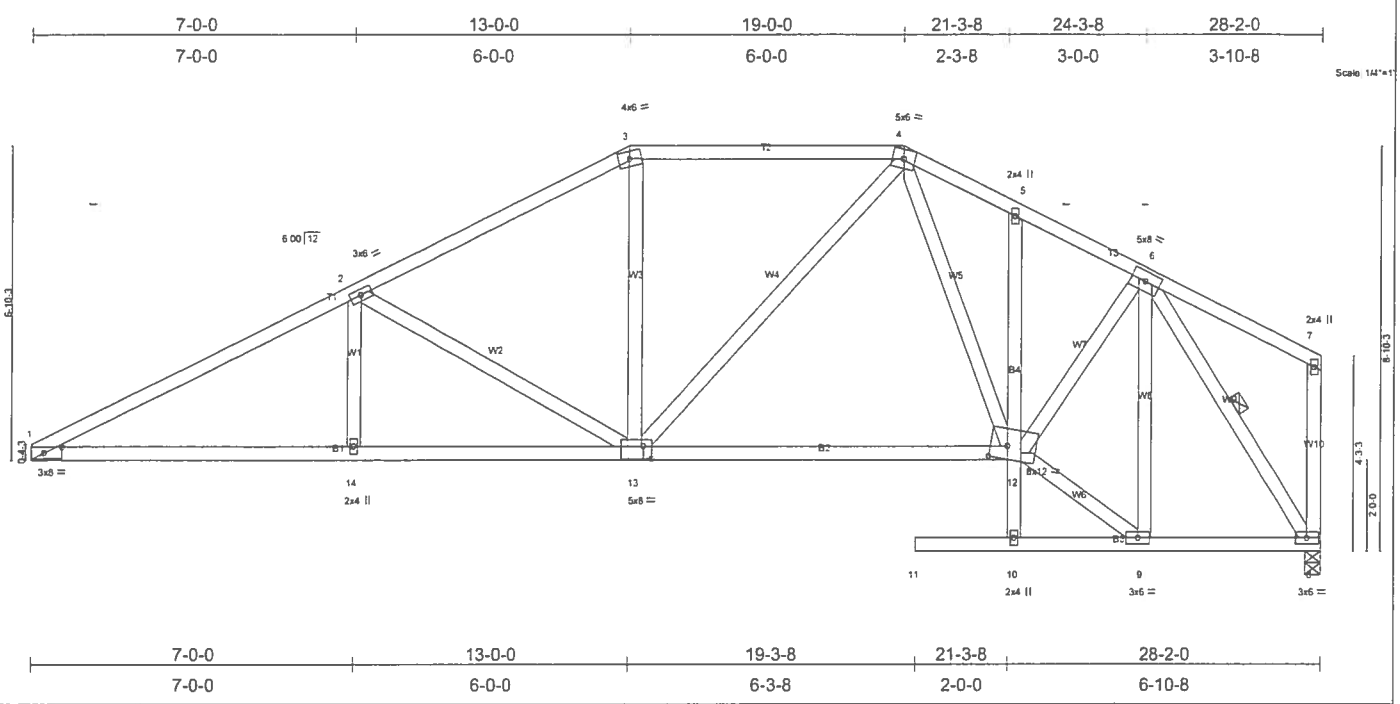


Plate Offsets (X,Y): [1:0-4-12,0-1-8], [12:0-4-8,0-3-7], [13:0-2-4,0-3-4]

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)	-0.16	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.61	Vert(TL)	-0.27	12-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.09	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 183 lb	

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

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

REACTIONS (lb/size) 1=1192/Mechanical, 8=1221/0-4-0
Max Horz 1=157(load case 5)
Max Uplift1=-370(load case 5), 8=-337(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2164/885, 2-3=-1550/700, 3-4=-1324/689, 4-5=-1354/659, 5-6=-1384/610, 6-7=-72/71, 7-8=-112/103
BOT CHORD 1-14=-795/1861, 13-14=-795/1861, 12-13=-389/1156, 10-12=0/111, 5-12=-74/95, 10-11=0/0, 9-10=-73/0, 8-9=-261/686
WEBS 2-14=0/221, 2-13=-630/390, 3-13=-68/342, 4-13=-128/332, 4-12=-71/188, 6-12=-238/864, 6-9=-439/200, 9-12=-290/920, 6-8=-1238/466

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) 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 370 lb uplift at joint 1 and 337 lb uplift at joint 8.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062268

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T27	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:21 2006 Page 1

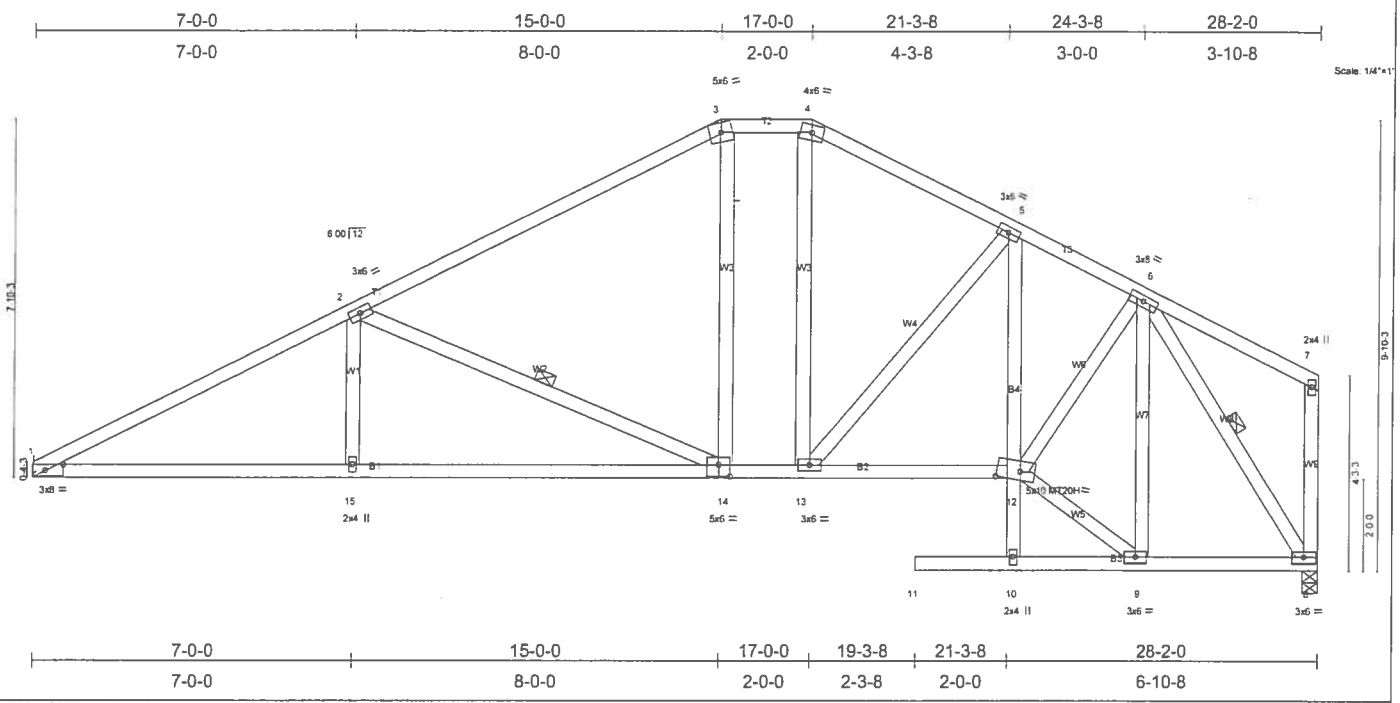


Plate Offsets (X,Y): [1:0-4-12,0-1-8], [12:0-6-3,0-2-3], [14:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.27	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.71	Vert(TL)	-0.43	14-15	>780	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(TL)	0.09	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 187 lb	

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

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

REACTIONS (lb/size) 1=1192/Mechanical, 8=1221/0-4-0
Max Horz 1=171(load case 5)
Max Uplift1=-381(load case 5), 8=-351(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2214/919, 2-3=-1369/635, 3-4=-1135/652, 4-5=-1300/664, 5-6=-1356/618, 6-7=-75/73, 7-8=-116/106
BOT CHORD 1-15=-831/1912, 14-15=-831/1912, 13-14=-371/1135, 12-13=-417/1180, 10-12=0/124, 5-12=-80/112, 10-11=0/0, 9-10=-37/17, 8-9=-265/683
WEBS 2-15=0/297, 2-14=-874/503, 3-14=-44/347, 4-13=-187/332, 5-13=-217/134, 6-12=-255/838, 6-8=-1231/471, 6-9=-395/196, 9-12=-278/815

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) 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 381 lb uplift at joint 1 and 351 lb uplift at joint 8.

LOAD CASE(S) Standard

FEBRUARY 08, 2006 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.#0208062269

Job	Truss	Truss Type	Qty	Ply	HUGO ESCALANTE-LOT 22 WISE ESTATES
L149513	T28	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 14:43:22 2006 Page 1

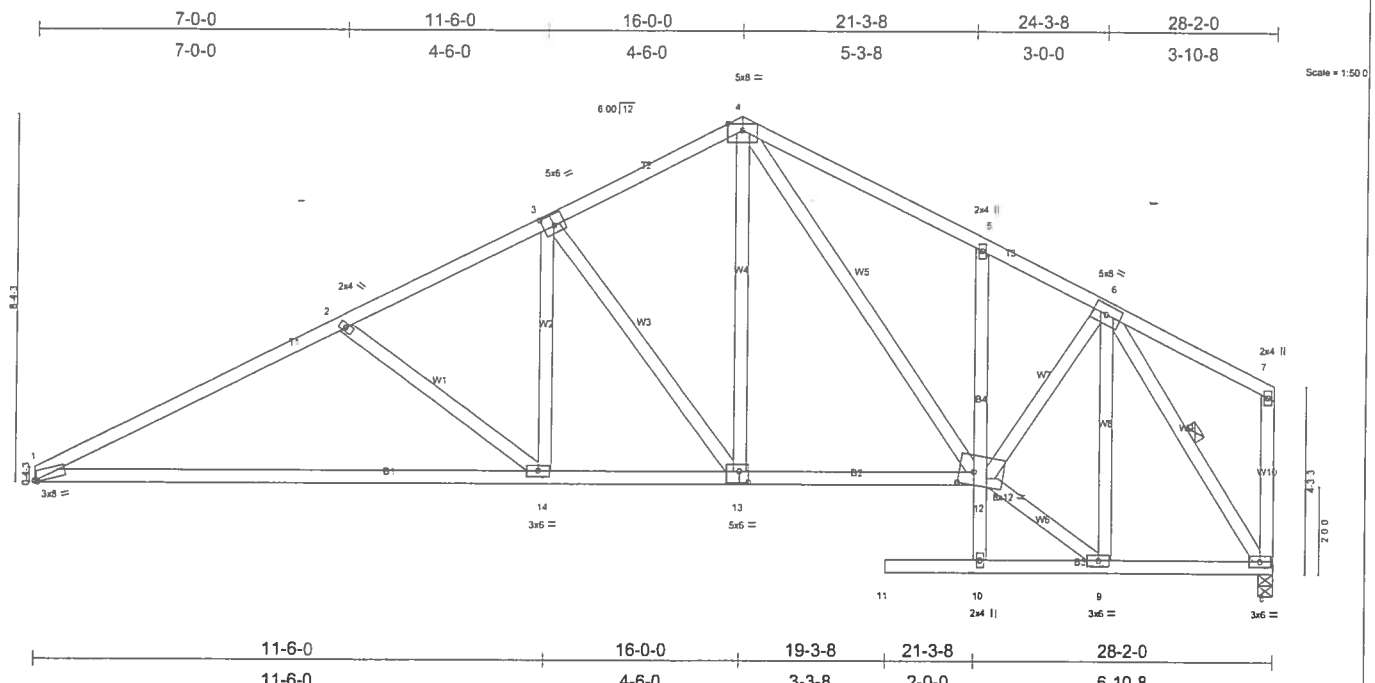


Plate Offsets (X,Y): [1:0-0-10,Edge], [3:0-3-0,0-3-0], [12:0-4-0,0-3-7], [13:0-2-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	-0.48	1-14	>701	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.81	1-14	>414	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.09	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 190 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B4 2 X 4 SYP No.3
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 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS (lb/size) 1=1192/Mechanical, 8=1221/0-4-0
Max Horz 1=178(load case 5)
Max Uplift1=-385(load case 5), 8=-358(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2041/911, 2-3=-1716/776, 3-4=-1222/654, 4-5=-1419/761, 5-6=-1371/628, 6-7=-76/74, 7-8=-118/108
BOT CHORD 1-14=-817/1781, 13-14=-543/1466, 12-13=-336/1054, 10-12=0/118, 5-12=-243/235, 10-11=0/0, 9-10=-39/0, 8-9=-267/683
WEBS 2-14=-394/343, 4-13=-244/609, 4-12=-201/381, 6-12=-273/870, 6-9=-416/203, 6-8=-1229/474, 9-12=-294/865, 3-14=-163/561, 3-13=-690/338

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 385 lb uplift at joint 1 and 358 lb uplift at joint 8.

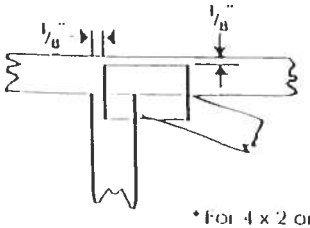
LOAD CASE(S) Standard

FEBRUARY 08, 2006 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

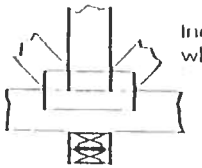
4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

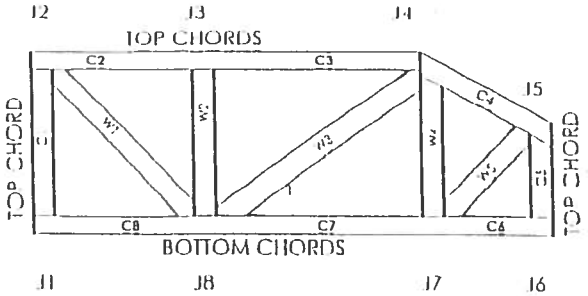
Indicates location of required continuous lateral bracing.

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®

TEE-LOK®

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.

Donald F. Lee & Associates, Inc.

Surveyors & Engineers

140 NW Ridgewood Avenue
Lake City, Florida 32055
(386) 755-6166
Fax (386) 755-6167
donald@dlfa.com

Permit # 21215

Monday, April 03, 2006

TO: Columbia County Building & Zoning Department

FROM: Tim Delbene, PLS - Donald F. Lee & Associates, Inc.

RE: Lot 22, Block C , Wise Estates - Floor Elevation Check

CC: EWPL, Inc. - Hugo Escalante

The Finished Floor (stemwall) Elevation was obtained for this foundation under construction on the above referenced lot. The elevation measured was 95.40 feet MSL. This measurement is based on subdivision project benchmark data.

SIGNED: Timothy A Delbene

Timothy A. Delbene, P.L.S.

DATE: 4/3/2006

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 24-4S-16-03113-152 **Building permit No.** 000024215

Use Classification SF/UTILITY **Fire:** 5.92

Permit Holder HUGO ESCALANTE **Waste:** 12.25

Owner of Building EWPL INC. KINGDOM PROPERTIES INC. **Total:** 18.17

Location: 248 SW MELBA GLEN

Date: 09/05/2006

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)