DATE 03/19/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026863

APPLICANT J. DOUG WHITTED PHONE 352.262.8337

ADDRESS 221 RILEY CARR DRIVE HAWTHORNE FL 32640

OWNER TERRENCE MUNN PHONE 352.215.7063

ADDRESS 744 SW UNITY COURT FT. WHITE FL 32038

CONTRACTOR J. DOUG WHITTED PHONE 352.262.8337

LOCATION OF PROPERTY 47-S TO US 27,TL TO C-138,TR 6TH LOT ON L,JUST AFTER TREE CANOPY.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 192400.00

HEATED FLOOR AREA 2088.00 TOTAL AREA 3948.00 HEIGHT 21.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 7'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 1 FLOOD ZONE XPS DEVELOPMENT PERMIT NO.

PARCEL ID 24-7S-16-04309-000 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 10.00

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
		CRC1328145	

Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident
EXISTING	08-0175	BLK	JTH	N

COMMENTS: 1 FOOT ABOVE ROAD. EXISTING M/H TO BE REMOVED WITHIN 45 DAYS OF CO BEING ISSUED. NO IMPACT FEES.

Check # or Cash 1618

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by

Foundation _____ date/app. by

Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by

Slab _____ date/app. by

Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by

Rough-in plumbing above slab and below wood floor _____ date/app. by

Electrical rough-in _____ date/app. by

Heat & Air Duct _____ date/app. by

Peri. beam (Lintel) _____ date/app. by

Permanent power _____ date/app. by

C.O. Final _____ date/app. by

Culvert _____ date/app. by

M/H tie downs, blocking, electricity and plumbing _____ date/app. by

Pool _____ date/app. by

Reconnection _____ date/app. by

Pump pole _____ date/app. by

Utility Pole _____ date/app. by

M/H Pole _____ date/app. by

Travel Trailer _____ date/app. by

Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 965.00 CERTIFICATION FEE $ 19.74 SURCHARGE FEE $ 19.74

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 1079.48

INSPECTORS OFFICE CLERKS OFFICE CH

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

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

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

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

Columbia County Building Permit Application

For Office Use Only Application # 0802-36 Date Received 2/28/08 By G Permit # 26863

Zoning Official BLK Date 3.03.08 Flood Zone X Per Survey FEMA Map # N/A Zoning A-3

Land Use A-3 Elevation N/A MFE Lake Rd River N/A Plans Examiner OK JTH Date 3-13-08

Comments Existing MH to be removed within 45 day of CO being issued. No Impact Fees

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

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

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

Septic Permit No. 08-0175-N Fax 352-371-1721

Name Authorized Person Signing Permit DOUG WHITTED Phone 352-262-8337

Address 221 RILEY LAKE DR. HAWTHORNE FL 32640

Owners Name TERRENCE MUNN Phone 352-215-7063

911 Address 744 SW UNITY CT. FT. WHITE FL 32038

Contractors Name DOUG WHITTED Phone 352-262-8337

Address 221 RILEY LAKE DR HAWTHORNE FL 32640

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address SCHAFER ENGINEERING, LLC.

Mortgage Lenders Name & Address 14952 MAIN ST., ALACHUA, FL 32615

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

Property ID Number 24-7S-16-04309-006 Estimated Cost of Construction $220,000.00

Subdivision Name Lot ___ Block ___ Unit ___ Phase ___

Driving Directions 47S, TL on 27, TR on 138, 6th lot on left; just after tree canapy

Number of Existing Dwellings on Property 1 see attached property Appraiser sheet

Construction of SFD Total Acreage 10 Lot Size

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 21'

Actual Distance of Structure from Property Lines - Front ~~705'~~ Side ~~59'~~ Side ~~205'~~ Rear ~~536'~~

Number of Stories 1 Heated Floor Area 2088 Total Floor Area 3848 Roof Pitch 7-12

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.

Ct 1618

Left message on 3/18/08 LH

Columbia County Building Permit Application

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

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

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

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

Jesse B. Wynn
Owners Signature

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

Contractor's Signature (Permitee)

Contractor's License Number CRC1328145
Columbia County
Competency Card Number_____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 25 **day of** FEB **20**08.

Personally known_____ **or Produced Identification** FL DL

State of Florida Notary Signature (For the Contractor)

SEAL:

DARRON C. ALVARENGA
Notary Public - State of Florida
My Commission Expires Nov 27, 2009
Commission # DD 470906
Bonded By National Notary Assn.

Revised 11-30-07

FORM 600A-2004R EnergyGauge® 4.5

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	Munn Residence	Builder:	
Address:	744 SW Unity CT	Permitting Office:	Columbia
City, State:	Ft. White, FL 32038-	Permit Number:	220863
Owner:	Terence Munn & Susan Tanhauser	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/Split	Cap: 46.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 16.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	2088 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT) 7a.	(Dble Default) 392.0 ft²	a. Electric Heat Pump/Split	Cap: 46.0 kBtu/hr
b. SHGC:			HSPF: 9.75
(or Clear or Tint DEFAULT) 7b.	(Tint) 392.0 ft²	b. N/A	
8. Floor types			
a. Raised Wood, Stem Wall	R=19.0, 2088.0ft²	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, Exterior	R=13.0, 998.0 ft²		EF: 0.92
b. N/A		b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar	
10. Ceiling types		DHP-Dedicated heat pump)	
a. Under Attic	R=30.0, 2088.0 ft²	15. HVAC credits	PT, CF,
b. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
11. Ducts		PT-Programmable Thermostat,	
a. Sup: Unc. Ret: Con. AH: Interior	Sup. R=6.0, 30.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	

Glass/Floor Area: 0.21 Total as-built points: 22577 Total base points: 25818 **PASS**

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

PREPARED BY: _____

DATE: _____

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.

BUILDING OFFICIAL: _____

DATE: _____

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

FORM 600A-2004R EnergyGauge® 4.5

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: 744 SW Unity CT, Ft. White, FL, 32038-	PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2635.00	7905.0	40.0	0.92	3	1.00	2635.00	1.00	7905.0	
				As-Built Total:							7905.0

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
8364	**9549**	**7905**	**25818**	**7479**	**7193**	**7905**	**22577**

PASS

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 744 SW Unity CT, Ft. White, FL, 32038- PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**17236.8**	**Winter As-Built Points:**					**18784.7**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 48000 btuh ,EFF(9.8) Ducts,Unc(S),Con(R),Int(AH),R6.0					
17236.8	0.5540	9549.2	18784.7	1.00	1.152	0.360	0.950	7192.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **744 SW Unity CT, Ft. White, FL, 32038-** PERMIT #:

BASE

GLASS TYPES

.18 X	Conditioned Floor Area	X BWPM	= Points
.18	2088.0	20.17	7561.0

WALL TYPES

	Area	X BWPM	= Points
Adjacent	0.0	0.00	0.0
Exterior	998.0	3.70	3692.6
Base Total:	**998.0**		**3692.6**

DOOR TYPES

	Area	X BWPM	= Points
Adjacent	0.0	0.00	0.0
Exterior	74.0	12.30	910.2
Base Total:	**74.0**		**910.2**

CEILING TYPES

	Area	X BWPM	= Points
Under Attic	2088.0	2.05	4280.4
Base Total:	**2088.0**		**4280.4**

FLOOR TYPES

	Area	X BWPM	= Points
Slab	0.0(p)	0.0	0.0
Raised	2088.0	0.96	2004.5
Base Total:			**2004.5**

INFILTRATION

Area	X BWPM	= Points
2088.0	-0.59	-1231.9

AS-BUILT

Type/SC	Overhang Ornt	Len	Hgt	Area	X WPM	X WOF	= Points
1.Double, Tint	NE	2.0	8.0	154.0	24.53	1.01	3801.0
2.Double, Tint	NW	2.0	8.0	110.0	25.14	1.00	2774.0
3.Double, Tint	SW	2.0	8.0	51.0	18.79	1.06	1016.0
4.Single, Clear	SW	2.0	8.0	40.0	24.09	1.06	1021.0
5.Double, Tint	SE	2.0	8.0	34.0	17.06	1.10	636.0
6.Double, Tint	SE	2.0	8.0	22.0	17.08	1.10	411.0
7.Double, Tint	SE	2.0	8.0	21.0	17.06	1.10	392.0
As-Built Total:				**432.0**			**10051.0**

Type	R-Value	Area	X WPM	= Points
1. Frame, Wood, Exterior	13.0	998.0	3.40	3393.2
As-Built Total:		**998.0**		**3393.2**

Type	Area	X WPM	= Points
1.Exterior Insulated	20.0	8.40	168.0
2.Exterior Insulated	54.0	8.40	453.6
As-Built Total:	**74.0**		**621.6**

Type	R-Value	Area	X WPM	X WCM	= Points
1. Under Attic	30.0	2088.0	2.05	X 1.00	4280.4
As-Built Total:		**2088.0**			**4280.4**

Type	R-Value	Area	X WPM	= Points
1. Raised Wood, Stem Wall	19.0	2088.0	0.80	1670.4
As-Built Total:		**2088.0**		**1670.4**

Area	X WPM	= Points
2088.0	-0.59	-1231.9

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **744 SW Unity CT, Ft. White, FL, 32038-** PERMIT #

BASE			AS-BUILT					
Summer Base Points: 25734.6			**Summer As-Built Points:**					**34431.1**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1, Central Unit 46000btuh ,SEER/EFF(16.0) Ducts:Unc(S),Con(R),int(AH),R6.0(INS)					
25734.6	0.3250	8363.7	34431 **34431.1**	1.00 **1.00**	(1.08 x 1.147 x 0.91) **1.128**	0.213 **0.213**	0.902 **0.902**	7479.0 **7479.0**

FORM 600A-2004R EnergyGauge® 4.5

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 744 SW Unity CT, Ft. White, FL, 32038- 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	2088.0	18.66	6987.0	1.Double, Tint	NE	2.0	8.0	154.0	20.48	0.92	3328.0
				2.Double, Tint	NW	2.0	8.0	110.0	20.48	0.93	2084.0
				3.Double, Tint	SW	2.0	8.0	51.0	32.30	0.69	1456.0
				4.Single, Clear	SW	2.0	8.0	40.0	45.75	0.89	1619.0
				5.Double, Tint	SE	2.0	8.0	34.0	34.47	0.88	1035.0
				6.Double, Tint	SE	2.0	8.0	22.0	34.47	0.88	669.0
				7.Double, Tint	SE	2.0	8.0	21.0	34.47	0.88	639.0
				As-Built Total:				432.0			10832.0
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	998.0	1.50		1497.0
Exterior	998.0	1.70	1696.6								
Base Total:	998.0		1696.6	**As-Built Total:**				998.0			1497.0
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	1 Exterior Insulated				20.0	4.10		82.0
Exterior	74.0	6.10	451.4	2 Exterior Insulated				54.0	4.10		221.4
Base Total:	74.0		451.4	**As-Built Total:**				74.0			303.4
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points
Under Attic	2088.0	1.73	3612.2	1. Under Attic			30.0	2088.0	1.73 X 1.00		3612.2
Base Total:	2088.0		3612.2	**As-Built Total:**				2088.0			3612.2
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall			19.0	2088.0	-1.50		-3132.0
Raised	2088.0	-3.99	-8331.1								
Base Total:			-8331.1	**As-Built Total:**				2088.0			-3132.0
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	2088.0	10.21	21318.5					2088.0	10.21		21318.5

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **744 SW Unity CT, Ft. White, FL, 32038-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 87.6

The higher the score, the more efficient the home.

Terence Munn & Susan Tanhauser, 744 SW Unity CT, Ft. White, FL, 32038-

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	2088 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104:4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. (Dble Default) 392.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Tint) 392.0 ft²	
8.	Floor types		
a.	Raised Wood, Stem Wall	R=19.0, 2088.0ft²	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 998.0 ft²	
b.	N/A		
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2088.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Con. AH: Interior	Sup. R=6.0, 30.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit/Split	Cap: 46.0 kBtu/hr SEER: 16.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump/Split	Cap: 46.0 kBtu/hr HSPF: 9.75	
b.	N/A		
c.	N/A		
14	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.92	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT, CF,	

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: _____

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

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

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

System 1 Room Load Summary

---Zone 1---									
1	Master Bedroom	315	8,902	118	2-6	526	4,482	1,273	206	206
2	Master Bath	146	4,487	59	1-7	496	2,875	553	132	132
3	Master W.I.C	96	1,478	19	1-4	447	848	216	39	39
4	Bath 2	76	307	4	1-3	635	676	0	31	31
5	Bedroom 2	213	3,144	41	1-7	478	2,774	556	128	128
6	Bedroom 3	193	3,341	44	1-7	514	2,980	513	137	137
7	Utility Room	140	1,856	24	1-5	604	1,788	216	82	82
8	Kitchen	169	2,470	32	1-8	508	3,847	491	177	177
9	Dining Room	184	8,290	108	2-6	585	4,984	611	230	230
10	Living Room	458	9,755	127	2-7	479	5,552	962	256	256
11	Hall	98	398	5	1-2	505	239	0	11	11
	AED Excursion						243			
	System 1 total	2,088	44,426	580			31,292	5,393	1,430	1,430

System 1 Main Trunk Size: 17x16 in.
Velocity: 809 ft./min
Loss per 100 ft. 0.069 in.wg

Net Required:	3.06	85% / 15%	31,292	5,393	36,685
Recommended:	3.39	77% / 23%	31,292	9,347	40,638
Actual:	3.92	76% / 24%	35,884	11,116	47,000

	Heating System	Cooling System
Type:	air source heat pump	Air Source Heat Pump
Model:	ASZ18481+MBE2000AA-1+CAPF4860D6+HKR-10	ASZ160481+MBE2000AA-1+CAPF4860D6+TX5N
Brand:	Amana	Amana
Efficiency:	9.75 HSPF	16 seer
Sound:	0	
Capacity:	47,000	47,000
Sensible Capacity:	n/a	35,884 Btuh
Latent Capacity:	n/a	11,116 Btuh

System 1, Zone 1 Summary Loads (Average Load Procedure for Rooms)

1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	324	8,635	0	5,655	5,655
1D-cm-o: Glazing-Double pane, operable window, clear, metal frame no break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 46° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	12	428	0	252	252
10B-m: Glazing-French door, double pane clear glass, metal frame no break, ground reflectance = 0.23, light color blinds at 45° with 25% coverage	40.8	2,426	0	1,339	1,339
11P: Door-Polyurethane Core	58.5	695	0	492	492
12C-3sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, R-3 board insulation, siding finish, wood studs	1263.9	3,887	0	1,933	1,933
16E-38: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, Light Tile, Slate or Concrete, R-38 insulation	315.4	336	0	230	230
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1773.4	2,328	0	2,440	2,440
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	36	2,004	0	0	0
20P-19: Floor-Over open crawl space or garage, Passive, R-19 blanket insulation, any cover	1773.4	3,635	0	1,163	1,163
Subtotals for structure:		24,374	0	13,494	13,494
People:	5		1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	2115			7,212	7,212
Ductwork:		7,405	0	5,174	5,174
Infiltration: Winter CFM: 282, Summer CFM: 125		12,847	4,243	2,468	6,711
System 1, Zone 1 Load Totals:		44,426	5,393	31,048	36,441

Supply CFM:	1,430	CFM Per Square ft.:	0.685
Square ft. of Room Area:	2,088	Square ft. Per Ton:	620
Volume (ft³) of Cond. Space:	18,798	Air Turnover Rate (per hour):	4.6

Total Heating Required:	44,426 Btuh	44.426 MBH	
Total Sensible Gain:	31,048 Btuh	85 %	
Total Latent Gain:	5,393 Btuh	15 %	
Total Cooling Required:	36,441 Btuh	3.04 Tons (Based On Sensible + Latent)	
		3.37 Tons (Based On 77% Sensible Capacity)	

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1 Main Floor Summary Loads

1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	324	8,635	0	5,655	5,655
1D-cm-o: Glazing-Double pane, operable window, clear, metal frame no break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	12	428	0	252	252
10B-m: Glazing-French door, double pane clear glass, metal frame no break, ground reflectance = 0.23, light color blinds at 45° with 25% coverage	40.8	2,426	0	1,339	1,339
11P: Door-Polyurethane Core	58.5	695	0	492	492
12C-3sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, R-3 board insulation, siding finish, wood studs	1263.9	3,887	0	1,933	1,933
16E-38: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, Light Tile, Slate or Concrete, R-38 insulation	315.4	336	0	230	230
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1773.4	2,328	0	2,440	2,440
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	36	2,004	0	0	0
20P-19: Floor-Over open crawl space or garage, Passive, R-19 blanket insulation, any cover	1773.4	3,635	0	1,153	1,153
Subtotals for structure:		24,374	0	13,494	13,494
People:	5		1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	2115			7,212	7,212
Ductwork:		7,405	0	5,174	5,174
Infiltration: Winter CFM: 282, Summer CFM: 125		12,647	4,243	2,468	6,711
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
AED Excursion:		0	0	243	243
System 1 Main Floor Load Totals:		44,426	5,393	31,292	36,685

Supply CFM:	1,430	CFM Per Square ft.:	0.685
Square ft. of Room Area:	2,088	Square ft. Per Ton:	617
Volume (ft³) of Cond. Space:	18,798	Air Turnover Rate (per hour):	4.6

Total Heating Required With Outside Air:	44,426 Btuh	44.426 MBH	
Total Sensible Gain:	31,292 Btuh	85 %	
Total Latent Gain:	5,393 Btuh	15 %	
Total Cooling Required With Outside Air:	36,685 Btuh	3.06 Tons (Based On Sensible + Latent)	
		3.39 Tons (Based On 77% Sensible Capacity)	

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

Total Building Summary Loads

1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	324	8,635	0	5,655	5,655
1D-cm-o: Glazing-Double pane, operable window, clear, metal frame no break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	12	428	0	252	252
10B-m: Glazing-French door, double pane clear glass, metal frame no break, ground reflectance = 0.23 light color blinds at 45° with 25% coverage	40.6	2,426	0	1,339	1,339
11P: Door-Polyurethane Core	58.5	895	0	492	492
12C-3sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, R-3 board insulation, siding finish, wood studs	1263.9	3,887	0	1,933	1,933
16E-38: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, Light Tile, Slate or Concrete, R-38 insulation	315.4	336	0	230	230
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1773.4	2,325	0	2,440	2,440
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	36	2,004	0	0	0
20P-19: Floor-Over open crawl space or garage, Passive, R-19 blanket insulation, any cover	1773.4	3,835	0	1,153	1,153
Subtotals for structure:		24,374	0	13,494	13,494
People:	5		1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	2115			7,212	7,212
Ductwork:		7,405	0	5,174	5,174
Infiltration: Winter CFM: 282, Summer CFM: 125		12,547	4,243	2,468	6,711
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
AED Excursion:		0	0	243	243
Total Building Load Totals:		44,426	5,393	31,292	36,685

Total Building Supply CFM:	1,430	CFM Per Square ft.:	0.685
Square ft. of Room Area:	2,088	Square ft. Per Ton:	617
Volume (ft³) of Cond. Space:	18,798	Air Turnover Rate (per hour):	4.6

Total Heating Required With Outside Air:	44,426	Btuh	44.426	MBH
Total Sensible Gain:	31,292	Btuh	85	%
Total Latent Gain:	5,393	Btuh	15	%
Total Cooling Required With Outside Air:	36,685	Btuh	3.06	Tons (Based On Sensible + Latent)
			3.39	Tons (Based On 77% Sensible Capacity)

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

Load Preview Report

Building	2,088	31,292	5,393	36,685	44,426	580	1,430	1,430	
System 1	2,088	31,292	5,393	36,685	44,426	580	1,430	1,430	17x16
AED Excursion		243		243					
Zone 1	2,088	31,048	5,393	36,441	44,426	580	1,430	1,430	
1-Master Bedroom	315	4,462	1,273	5,755	8,902	116	208	208	2-6
2-Master Bath	146	2,875	553	3,428	4,487	59	132	132	1-7
3-Master W.I.C	98	848	216	1,064	1,478	19	39	39	1-4
4-Bath 2	76	676	0	676	307	4	31	31	1-3
5-Bedroom 2	213	2,774	558	3,332	3,144	41	128	128	1-7
6-Bedroom 3	193	2,980	513	3,493	3,341	44	137	137	1-7
7-Utility Room	140	1,788	216	2,004	1,856	24	82	82	1-5
8-Kitchen	169	3,847	491	4,338	2,470	32	177	177	1-8
9-Dining Room	184	4,984	611	5,595	8,290	108	230	230	2-6
10-Living Room	458	5,552	982	6,514	9,755	127	256	256	2-7
11-Hall	98	239	0	239	396	5	11	11	1-2

Project Report

Project Title:	Terence Munn
Designed By:	Chuck Fischer
Project Date:	February 27, 2008
Client Name:	Terry Munn
Client Address:	744 S W Unity Court
Client City:	Fort White Florida 32038
Client Phone:	386-454-2128
Company Name:	North Central Florida Air Conditioning I
Company Representative:	Chuck Fischer
Company Address:	P. O. Box 700
Company City:	High Springs Fl 32655-0700
Company Phone:	(386) 454-4787
Company Fax:	(386) 454-4854
Company Comment:	heat load for addition

Reference City:		Gainesville, Florida
Daily Temperature Range:		Medium
Latitude:	29	Degrees
Elevation:	152	ft.
Altitude Factor:	0.995	
Elevation Sensible Adj. Factor:	1.000	
Elevation Total Adj. Factor:	1.000	
Elevation Heating Adj. Factor:	1.000	
Elevation Heating Adj. Factor:	1.000	

	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	31	0	50	72	38
Summer:	93	77	50	75	50

Total Building Supply CFM:	1,430	CFM Per Square ft.:	0.685
Square ft. of Room Area:	2,088	Square ft. Per Ton:	617
Volume (ft³) of Cond. Space:	18,798	Air Turnover Rate (per hour):	4.6

Total Heating Required With Outside Air:	44,426 Btuh	44.426	MBH
Total Sensible Gain:	31,292 Btuh	85	%
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Total Cooling Required With Outside Air:	36,685 Btuh	3.06	Tons (Based On Sensible + Latent)
		3.39	Tons (Based On 77% Sensible Capacity)

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

Terence Munn
HVAC Load Calculations

for

Terry Munn
744 S.W Unity Court
Fort White Florida 32038

Elite Software

RHVAC RESIDENTIAL HVAC LOADS

Prepared By:

Chuck Fischer
North Central Florida Air Conditioning I
P O. Box 700
High Springs Fl 32655-0700
(386) 454-4767
Wednesday, March 12 2008

North Central Florida Air Conditioning, Inc.
PO Box 700 High Springs, Fl 32655
Ph (352) 367-2945 Fax (386) 454-4854
www.ncfac.com
CAC 057846

Fax Cover Sheet

DATE: 03-12-08

TO: Joe

COMPANY NAME: Columbia County Building Department **FAX: 386-754-7088**

FROM: Desiree

RE: Application # 0802-36 Terrence Munn

Number of pages including cover sheet: 16

If you do not receive the amount of pages listed, please call our office.

Message:

PLEASE REVIEW THE ATTACHED

I have attached a new Manual J&D, as well as Energy Calculations for the building permit application #0802-36, Terrence Munn residence

Please contact our office if you have any questions.

Thank you!

Columbia County Property Appraiser

DB Last Updated: 3/10/2008

2008 Proposed Values

Tax Record | Property Card | Interactive GIS Map | Print

Parcel: 24-7S-16-04309-006 HX

Search Result: 1 of 1

Owner & Property Info

Owner's Name	MUNN TERENCE E		
Site Address	UNITY		
Mailing Address	744 SW UNITY CT FT WHITE, FL 32038		
Use Desc. (code)	MOBILE HOM (000200)		
Neighborhood	24716.00	**Tax District**	3
UD Codes	MKTA02	**Market Area**	02
Total Land Area	10.010 ACRES		
Description	COMM NW COR OF SW1/4 OF NE1/4, RUN E 11.86 FT, RUN S 1677.53 FT FOR POB, RUN E 1293.31 FT, S 338.05 FT, W 1286.40 FT N 338.09 FT TO POB. ORB 944-2161, PROB#03-41 CP. 974-2738 THRU 2749. DC MARIE JOHANESSEN 961-2761, 982-377, WD 983-1363 THRU 1367.		

GIS Aerial

Property & Assessment Values

Mkt Land Value	cnt: (1)	$75,075.00	**Just Value**		$96,313.00
Ag Land Value	cnt: (0)	$0.00	**Class Value**		$0.00
Building Value	cnt: (1)	$21,238.00	**Assessed Value**		$88,974.00
XFOB Value	cnt: (0)	$0.00	**Exempt Value**	(code: HX)	$25,000.00
Total Appraised Value		$96,313.00	**Total Taxable Value**		$63,974.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
1/14/2002	944/2161	WD	V	Q		$29,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	MOBILE HME (000800)	1994	Alum Siding (26)	924	1052	$21,238.00
	Note: All S.F. calculations are based on exterior building dimensions.					

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000200	MBL HM (MKT)	10.010 AC	1.00/1.00/1.00/1.00	$7,500.00	$75,075.00

Columbia County Property Appraiser

DB Last Updated: 3/10/2008

STATE OF FLORIDA
DEPARTMENT OF HEALTH

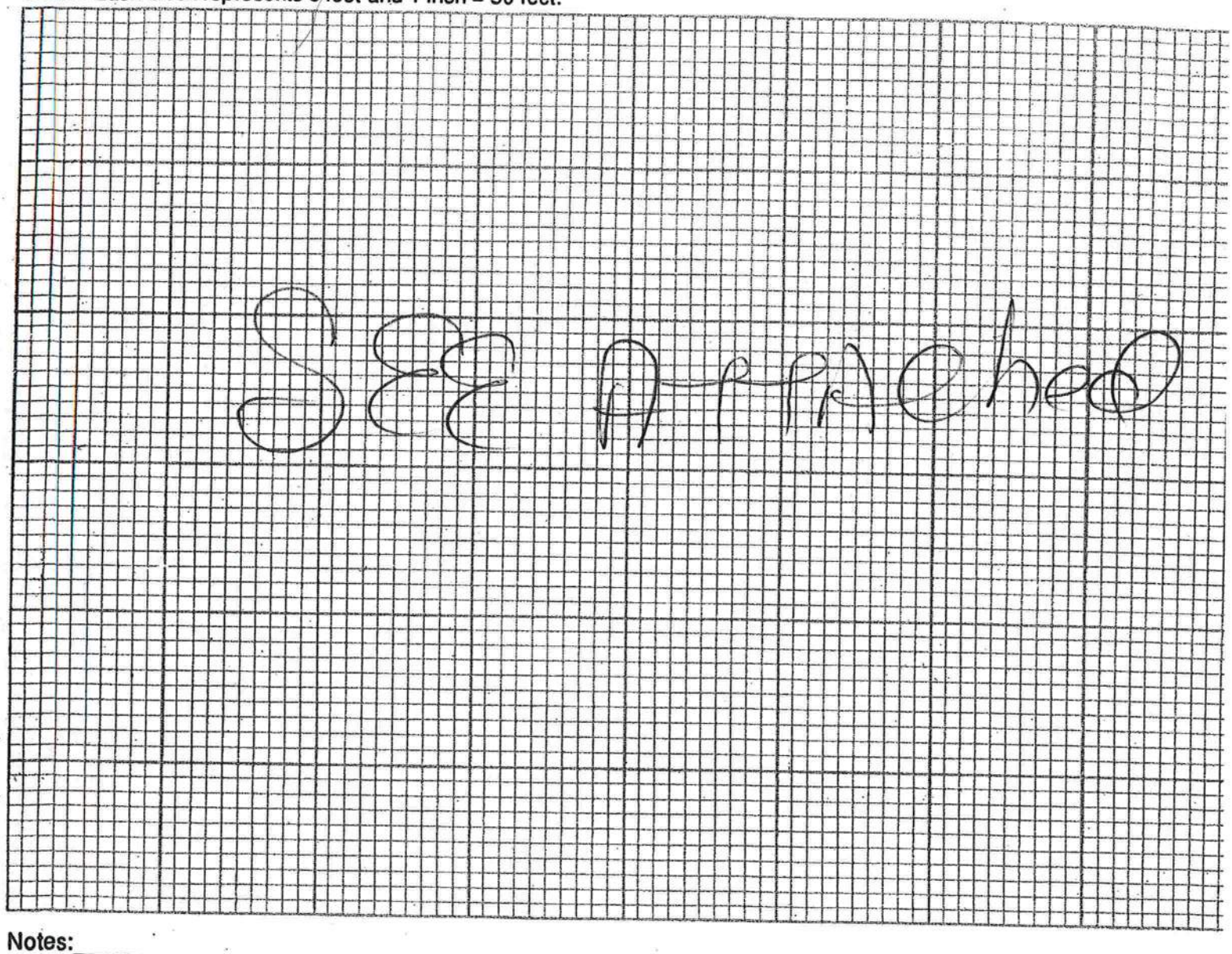
Mura

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 08-0175

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes:

Site Plan submitted by: Ron Mora 2/13/18
Signature

FSI
Title

Plan Approved ✓ APPROVED Not Approved ____

Date 2/21/18

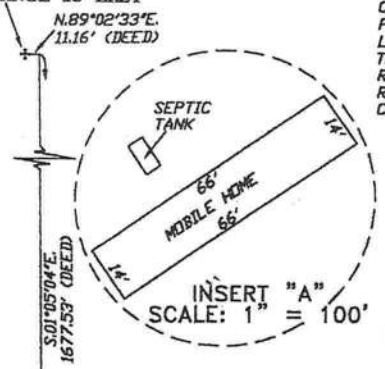
By _____ Columbia CHD County Health Departmer

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 10/96 (Replaces HRS-H Form 4015 which may be used)
(Stock Number: 5744-002-4015-6)

BOUNDARY SURVEY IN SECTION 24, TOWNSHIP 7 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.

POINT OF COMMENCEMENT
NW CORNER OF SW 1/4 OF NE 1/4 OF SECTION 24, TOWNSHIP 7 SOUTH, RANGE 16 EAST



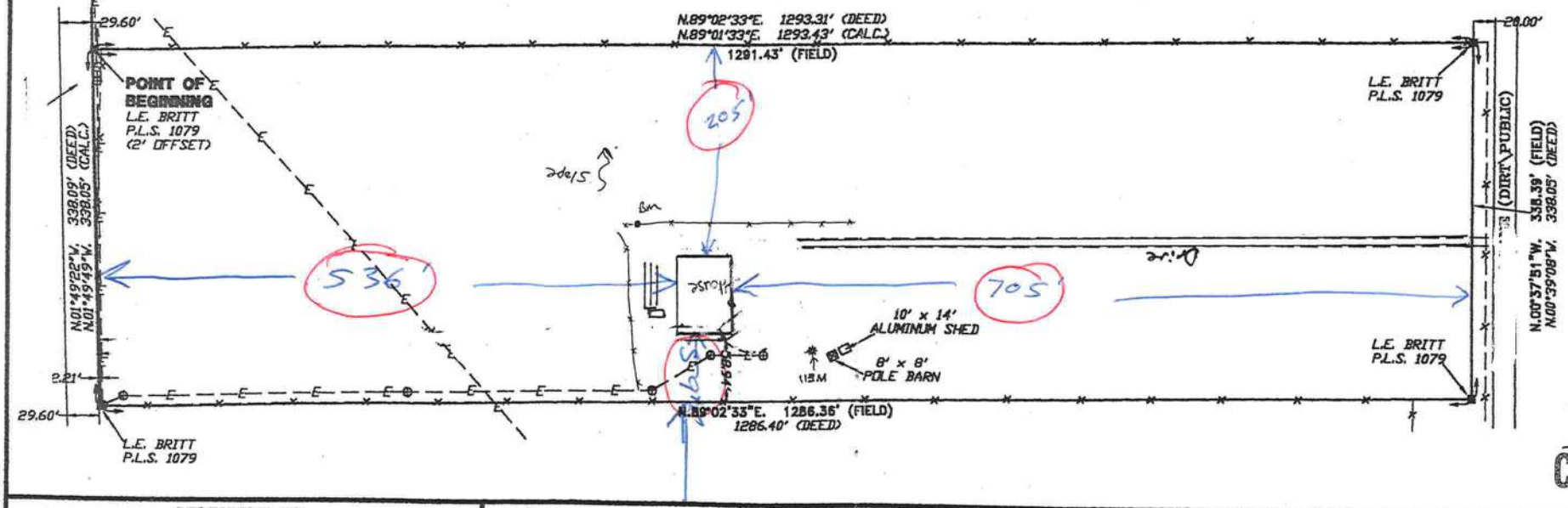
DESCRIPTION:
A PART OF THE NW 1/4 OF THE SE 1/4 OF SECTION 24, TOWNSHIP 7 SOUTH, RANGE 16 EAST, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE NORTHWEST CORNER OF THE SW 1/4 OF THE NE 1/4 OF SAID SECTION 24 AND RUN N.89°02'33"E., ALONG THE NORTH LINE THEREOF, 11.16 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF SHILOH CHURCH ROAD; THENCE S.01°05'04"E., ALONG SAID EAST RIGHT-OF-WAY LINE, 1677.53 FEET FOR A POINT OF BEGINNING; THENCE N.89°02'33"E., 1293.31 FEET TO A POINT ON THE EAST LINE OF THE NW 1/4 OF SAID SE 1/4; THENCE S.00°39'08"E., ALONG THE EAST LINE THEREOF, 338.05 FEET; THENCE S.89°02'33"W., 1286.40 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF SAID SHILOH CHURCH ROAD; THENCE N.01°49'22"W., ALONG SAID EAST RIGHT-OF-WAY LINE, 389.09 FEET TO THE POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA. CONTAINING 10.01 ACRES, MORE OR LESS.

SURVEYOR'S NOTES:
1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF PREVIOUS SURVEYS BY THIS OFFICE.
2. BEARINGS ARE BASED ON SECTION BREAKDOWN BY THIS OFFICE.
3. THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 120070 0270 B. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
4. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
5. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
6. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.

SYMBOL LEGEND:
- ■ 4"X4" CONCRETE MONUMENT FOUND
- □ 4"X4" CONCRETE MONUMENT SET
- ● IRON PIPE FOUND
- ○ IRON PIN AND CAP SET
- ⊕ POWER POLE
- ▲ WATER METER
- ℄ CENTERLINE
- ✱ WELL
- ⊛ SATELLITE DISH
- ⊠ TELEPHONE BOX
- ---E--- ELECTRIC LINES
- ---X--- WIRE FENCE
- ---⊕--- CHAIN LINK FENCE
- ---⊟--- WOODEN FENCE

N

SCALE: 1" = 100'



Ron Mon 2/12/08

APPROVED
Columbia CH
2/21/8

CERTIFIED TO:
TERRENCE E. MUNN
WACHOVIA BANK, N.A.
TITLE OFFICES, LLC
OLD REPUBLIC NATIONAL TITLE ISURANCE COMPANY

FIELD BOOK: 254 PAGE(S): 23

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

04/28/03 FIELD SURVEY DATE
04/30/03 DRAWING DATE
J. SCOTT BRITT, P.S.M. CERTIFICATION # 5757

NOTED UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.

BRITT SURVEYING
LAND SURVEYORS AND MAPPERS
830 WEST DUVAL STREET LAKE CITY, FLORIDA 32055
(386)752-7163 FAX (386)752-5573

WORK ORDER # L-13730

Recording Fees: $_____
Documentary Stamps: +_____
Total: $

Prepared By And Return To.
TITLE OFFICES, LLC
1089 SW MAIN BLVD.,
LAKE CITY, FL.. 32025

File #03Y-04074KW/BARBARA FRADDOSIO

Property Appraisers Parcel I.D. Number(s):
24-3S-16-04309-000

nst:2003010304 Date:05/16/2003 Time:16:19
oc Stamp-Deed : 70.00
DC,P.DeWitt Cason,Columbia County B:983 P:1365

WARRANTY DEED

THIS WARRANTY DEED made and executed the 7th day of May, 2003 by MARK WALSH, _____, hereinafter called the Grantor, to TERENCE E. MUNN A Married Man, whose post office address is: ~~14216 NW 195 STREET, ALACHUA, FL 32615,~~ 744 SW Unity Ct., Ft. White, FL 32038 hereinafter called the Grantee:

(Wherever used herein the terms "Grantor" and "Grantee" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

WITNESSETH: That the Grantor, for and in consideration of the sum of TEN DOLLARS ($10.00) and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee all that certain land situate, lying and being in COLUMBIA County, State of Florida, viz:

A part of the NW ¼ of the SE ¼ of Section 24, Township 7 South, Range 16 East, more particularly described as: Commence at the NW corner of the SW ¼ of the NE ¼ of said Section 24 and run N 89°02'33"E, along the North line thereof, 11.16 feet to a point on the East right of way line of Shiloh Church Road; thence S 1°05'04"E, along said East right of way line, 1677.53 feet for a POINT OF BEGINNING; thence N 89°02'33"E, 1293.31 feet to a point on the East line of the NW ¼ of said SE ¼; thence S 0°39'08"E, along the East line thereof 338.05 feet; thence S 89°02'33"W, 1286.40 feet to a point on the East right of way line of said Shiloh Church Road; thence N 1°49'22"W, along said East right of way line 338.09 feet to the POINT OF BEGINNING, Columbia County, Florida.

THE ABOVE DESCRIBED PROPERTY IS NOT THE HOMESTEAD OF THE GRANTOR.

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

TO HAVE AND TO HOLD the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land, and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except easements, restrictions and reservations of record, if any, and taxes accruing subsequent to December 31, 2002.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in the presence of:

X _____
Witness:

X _____
Witness:

X _____
MARK WALSH
Address:6430 BUTTERNUT DRIVE
LAKELAND, FLORIDA 33813

STATE OF FLORIDA
COUNTY OF POLK

I hereby certify that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgments, personally appeared MARK WALSH, who produced the identification described below, and who acknowledged before me that they executed the foregoing instrument.
Witness my hand and official seal in the county and state aforesaid this 7th day of May, 2003.

X _____
Notary Public
Identification Examined: FL DL# W420-656-75-061-0

Commission Expires: _____

JOY D. ATCHISON
MY COMMISSION # CC 851844
EXPIRES: July 12, 2003
Bonded Thru Notary Public Underwriters

Recording Fees: $_____
Documentary Stamps: +_____
Total: $_____

Prepared By And Return To
TITLE OFFICES, LLC
1089 SW MAIN BLVD.,
LAKE CITY, FL.. 32025

File #: 03Y-01374KW/BARBARA FRADDOSIO

Inst:2003010305 Date:05/16/2003 Time:16:19
Doc Stamp-Deed : 70.00
By _____DC,P.DeWitt Cason,Columbia County B:983 P:1366

Property Appraisers Parcel I.D. Number(s):
24-7S-16-04309-000

WARRANTY DEED

THIS WARRANTY DEED made and executed the 7th day of May, 2003 by JEAN WALTERS, Married, hereinafter called the Grantor, to TERENCE E. MUNN, married, whose post office address is: ~~14316 NW 195 STREET, ALACHUA, FL 32615~~, hereinafter called the Grantee: 746 Unity Ct. SW. Fort White, FL 32038

(Wherever used herein the terms "Grantor" and "Grantee" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

WITNESSETH: That the Grantor, for and in consideration of the sum of TEN DOLLARS ($10.00) and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee all that certain land situate, lying and being in COLUMBIA County, State of Florida, viz:

A part of the NW ¼ of the SE ¼ of Section 24, Township 7 South, Range 16 East, more particularly described as: Commence at the NW corner of the SW ¼ of the NE ¼ of said Section 24 and run N 89°02'33"E, along the North line thereof, 11.16 feet to a point on the East right of way line of Shiloh Church Road; thence S 1°05'04"E, along said East right of way line, 1677.53 feet for a POINT OF BEGINNING; thence N 89°02'33"E, 1293.31 feet to a point on the East line of the NW ¼ of said SE ¼; thence S 0°39'08"E, along the East line thereof 338.05 feet; thence S 89°02'33"W, 1286.40 feet to a point on the East right of way line of said Shiloh Church Road; thence N 1°49'22"W, along said East right of way line 338.09 feet to the POINT OF BEGINNING, Columbia County, Florida.

THE ABOVE DESCRIBED PROPERTY IS NOT THE HOMESTEAD OF THE GRANTOR. 243 SW Bramble Ct. Ft. White, FL 32038 -NK

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

TO HAVE AND TO HOLD the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land, and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except easements, restrictions and reservations of record, if any, and taxes accruing subsequent to December 31, 2002.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in the presence of:

Witness: Martha Bryan

Witness: Lisa S. Vanacore

JEAN WALTERS
Address:243 SW BRAMBLE COURT
FORT WHITE, FLORIDA 32038

STATE OF FLORIDA
COUNTY OF Columbia

I hereby certify that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgments, personally appeared JEAN WALTERS, who produced the identification described below, and who acknowledged before me that they executed the foregoing instrument.
Witness my hand and official seal in the county and state aforesaid this 7th day of May, 2003.

Martha Bryan
MY COMMISSION # CC856813 EXPIRES
August 10, 2003
BONDED THRU TROY FAIN INSURANCE, INC.

Notary Public: Martha Bryan
Identification Examined: Drivers License
Commission Expires: _____

Recording Fees: $_____
Documentary Stamps: +_____
Total: $

Prepared By And Return To
TITLE OFFICES, LLC
1089 SW MAIN BLVD.,
LAKE CITY, FL.. 32025

Title #03Y-04074KW/BARBARA FRADDOSIO

Property Appraisers Parcel I.D. Number(s):
24-7S-16-04309-000

Inst:2003010306 Date:05/16/2003 Time:16:19
Doc Stamp-Deed : 70.00
DC,P.DeWitt Cason,Columbia County B:983 P:1367

WARRANTY DEED

THIS WARRANTY DEED made and executed the 2nd day of May, 2003 by ROBERT WALSH, _____, hereinafter called the Grantor, to TERENCE E. MUNN A married man, whose post office address is: ~~14216 NW 195 STREET, ALACHUA, FL 32615;~~ 744 SW Unity Ct, Ft. White, FL 32038 hereinafter called the Grantee:

(Wherever used herein the terms "Grantor" and "Grantee" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

WITNESSETH: That the Grantor, for and in consideration of the sum of TEN DOLLARS ($10.00) and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee all that certain land situate, lying and being in COLUMBIA County, State of Florida, viz:

A part of the NW ¼ of the SE ¼ of Section 24, Township 7 South, Range 16 East, more particularly described as: Commence at the NW corner of the SW ¼ of the NE ¼ of said Section 24 and run N 89°02'33"E, along the North line thereof, 11.16 feet to a point on the East right of way line of Shiloh Church Road; thence S 1°05'04"E, along said East right of way line, 1677.53 feet for a POINT OF BEGINNING; thence N 89°02'33"E, 1293.31 feet to a point on the East line of the NW ¼ of said SE ¼; thence S 0°39'08"E, along the East line thereof 338.05 feet; thence S 89°02'33"W, 1286.40 feet to a point on the East right of way line of said Shiloh Church Road; thence N 1°49'22"W, along said East right of way line 338.09 feet to the POINT OF BEGINNING, Columbia County, Florida.

THE ABOVE DESCRIBED PROPERTY IS NOT THE HOMESTEAD OF THE GRANTOR.

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

TO HAVE AND TO HOLD the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land, and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except easements, restrictions and reservations of record, if any, and taxes accruing subsequent to December 31, 2002.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in the presence of:

_____
Witness:

_____
Witness:

_____
ROBERT WALSH
Address:6737 SW 46TH AVENUE
GAINESVILLE, FLORIDA 32608

STATE OF FLORIDA
COUNTY OF Alachua

I hereby certify that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgments, personally appeared ROBERT WALSH, who produced the identification described below, and who acknowledged before me that they executed the foregoing instrument.
Witness my hand and official seal in the county and state aforesaid this 2nd day of May, 2003.

Julee Kienast
MY COMMISSION # DD188858 EXPIRES
April 23, 2007
BONDED THRU TROY FAIN INSURANCE, INC

_____
Notary Public:
Identification Examined: _____

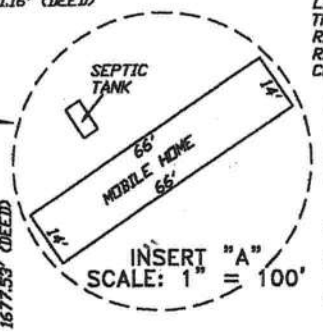
Commission Expires: _____

BOUNDARY SURVEY IN SECTION 24, TOWNSHIP 7 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.

POINT OF COMMENCEMENT
NW CORNER OF SW 1/4 OF NE 1/4 OF SECTION 24, TOWNSHIP 7 SOUTH, RANGE 16 EAST

N.89°02'33"E. 11.16' (DEED)

S.01°05'04"E. 1677.53' (DEED)



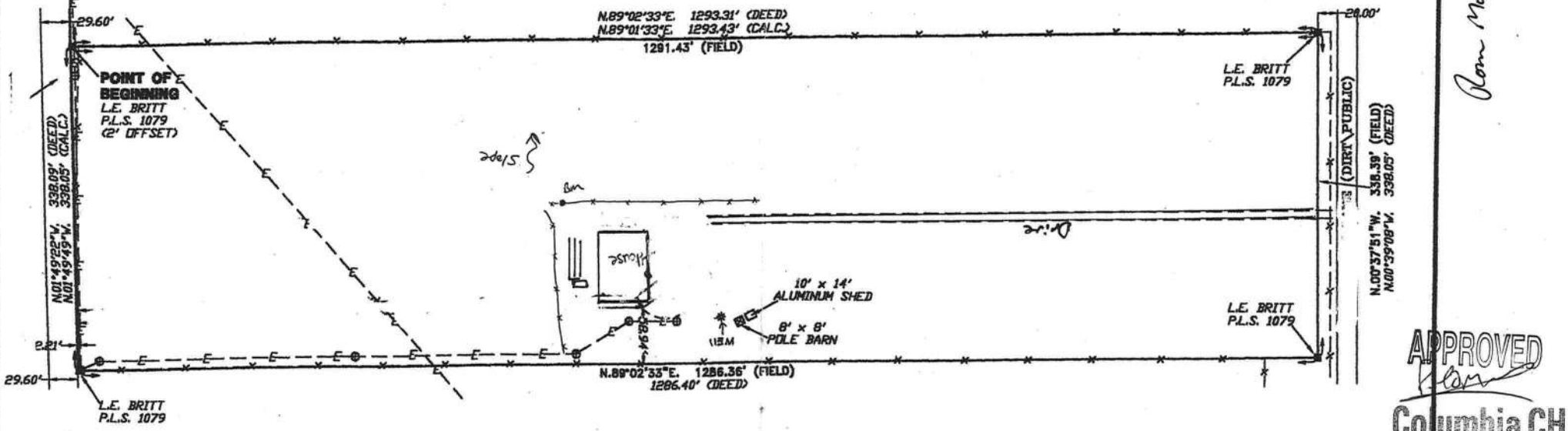
DESCRIPTION:
A PART OF THE NW 1/4 OF THE SE 1/4 OF SECTION 24, TOWNSHIP 7 SOUTH, RANGE 16 EAST, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE NORTHWEST CORNER OF THE SW 1/4 OF THE NE 1/4 OF SAID SECTION 24 AND RUN N.89°02'33"E., ALONG THE NORTH LINE THEREOF, 11.16 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF SHILOH CHURCH ROAD; THENCE S.01°05'04"E., ALONG SAID EAST RIGHT-OF-WAY LINE, 1677.53 FEET FOR A POINT OF BEGINNING; THENCE N.89°02'33"E., 1293.31 FEET TO A POINT ON THE EAST LINE OF THE NW 1/4 OF SAID SE 1/4; THENCE S.00°39'08"E., ALONG THE EAST LINE THEREOF, 338.05 FEET; THENCE S.89°02'33"W., 1286.40 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF SAID SHILOH CHURCH ROAD; THENCE N.01°49'22"W., ALONG SAID EAST RIGHT-OF-WAY LINE, 389.09 FEET TO THE POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA. CONTAINING 10.01 ACRES, MORE OR LESS.

SURVEYOR'S NOTES:
1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF PREVIOUS SURVEYS BY THIS OFFICE.
2. BEARINGS ARE BASED ON SECTION BREAKDOWN BY THIS OFFICE.
3. THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 120070 0270 B. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
4. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
5. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
6. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.

SYMBOL LEGEND:
- ■ 4"X4" CONCRETE MONUMENT FOUND
- □ 4"X4" CONCRETE MONUMENT SET
- ● IRON PIPE FOUND
- ○ IRON PIN AND CAP SET
- ⊕ POWER POLE
- ▲ WATER METER
- ℄ CENTERLINE
- ✱ WELL
- ⊛ SATELLITE DISH
- ⊡ TELEPHONE BOX
- ---E--- ELECTRIC LINES
- ---x--- WIRE FENCE
- ---o--- CHAIN LINK FENCE
- ---□--- WOODEN FENCE

N

SCALE: 1" = 100'



Ron Mon 2/12/08

APPROVED
Columbia CH
2/21/8

CERTIFIED TO:
TERRENCE E. MUNN
WACHOVIA BANK, N.A.
TITLE OFFICES, LLC
OLD REPUBLIC NATIONAL TITLE ISURANCE COMPANY

FIELD BOOK: 254 PAGE(S): 23

SURVEYOR'S CERTIFICATION:
I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

04/28/03 FIELD SURVEY DATE
04/30/03 DRAWING DATE
L. SCOTT BRITT, PSM
CERTIFICATION # 5757

NOTE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.

BRITT SURVEYING
LAND SURVEYORS AND MAPPERS
830 WEST DUVAL STREET LAKE CITY, FLORIDA 32055
(386)752-7163 FAX (386)752-5573

WORK ORDER # L-13730

03-30-2006

TOM GALLAGHER
CHIEF FINANCIAL OFFICER

STATE OF FLORIDA
DEPARTMENT OF FINANCIAL SERVICES
DIVISION OF WORKERS' COMPENSATION

** CERTIFICATE OF EXEMPTION FROM FLORIDA WORKERS' COMPENSATION LAW **

CONSTRUCTION INDUSTRY EXEMPTION

This certifies that the individual listed below has elected to be exempt from Florida Workers' Compensation Law.

EFFECTIVE DATE: 03/30/2006 ** EXPIRATION DATE: 03/29/2008

PERSON: WHITTED JAMES D

FEIN: 202795745

BUSINESS NAME AND ADDRESS: DOUG WHITTED CONSTRUCTION COMPANY LLC
5537 SW 37TH DRIVE
GAINESVILLE FL 32608

SCOPE OF BUSINESS OR TRADE: 1- CERTIFIED RESIDENTIAL CONTRACT

IMPORTANT: Pursuant to Chapter 440 . 05(14), F.S., an officer of a corporation who elects exemption from this chapter by filing a certificate of election under this section may not recover benefits or compensation under this chapter.

QUESTIONS? (850) 413-1609

DWC-252 CERTIFICATE OF ELECTION TO BE EXEMPT REVISED 01-04

3043665

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD SEQ# L07012400411

DATE	BATCH NUMBER	LICENSE NBR
01/24/2007	000000000	CRC1328145

The RESIDENTIAL CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2008

WHITTED, JAMES DOUGLAS
DOUG WHITTED CONSTRUCTION COMPANY LLC
5547 SW 37TH DR
GAINESVILLE FL 32608

CHARLIE CRIST
GOVERNOR

HOLLY BENSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

Recording Fees: $_____
Documentary Stamps: +_____
Total: $

Prepared By And Return To
TITLE OFFICES, LLC
1089 SW MAIN BLVD.,
LAKE CITY, FL.. 32025

File #03Y-04074KW/BARBARA FRADDOSIO

Property Appraisers Parcel I.D. Number(s):
24-7S-16-04309-000

Inst:2003010302 Date:05/16/2003 Time.16:19
DC Stamp-Deed : 70.00
DC,P.DeWitt Cason,Columbia County B:983 P:1363

WARRANTY DEED

THIS WARRANTY DEED made and executed the 7th day of May, 2003 by SHARON BUNDY, hereinafter called the Grantor, to TERENCE E. MUNN A Married Man, whose post office address is: ~~14216 NW 195 STREET, ALACHUA, FL 32615~~, 744 Unity Ct., Ft. White, FL 32038 hereinafter called the Grantee:

(Wherever used herein the terms "Grantor" and "Grantee" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

WITNESSETH: That the Grantor, for and in consideration of the sum of TEN DOLLARS ($10.00) and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee all that certain land situate, lying and being in COLUMBIA County, State of Florida, viz:

A part of the NW ¼ of the SE ¼ of Section 24, Township 7 South, Range 16 East, more particularly described as: Commence at the NW corner of the SW ¼ of the NE ¼ of said Section 24 and run N 89°02'33"E, along the North line thereof, 11.16 feet to a point on the East right of way line of Shiloh Church Road; thence S 1°05'04"E, along said East right of way line, 1677.53 feet for a POINT OF BEGINNING; thence N 89°02'33"E, 1293.31 feet to a point on the East line of the NW ¼ of said SE ¼; thence S 0°39'08"E, along the East line thereof 338.05 feet; thence S 89°02'33"W, 1286.40 feet to a point on the East right of way line of said Shiloh Church Road; thence N 1°49'22"W, along said East right of way line 338.09 feet to the POINT OF BEGINNING, Columbia County, Florida.

THE ABOVE DESCRIBED PROPERTY IS NOT THE HOMESTEAD OF THE GRANTOR.

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

TO HAVE AND TO HOLD the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land, and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except easements, restrictions and reservations of record, if any, and taxes accruing subsequent to December 31, 2002.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in the presence of:

X _____
Witness:

X _____
Witness:

X _____
SHARON BUNDY
Address:5050 NE 80TH AVENUE
HIGH SPRINGS, FLORIDA 32643

STATE OF FLORIDA
COUNTY OF Alachua

I hereby certify that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgments, personally appeared SHARON BUNDY, who produced the identification described below, and who acknowledged before me that they executed the foregoing instrument.
Witness my hand and official seal in the county and state aforesaid this 7 day of May, 2003.

X Barbara G. Estes
Notary Public:
Identification Examined: Dr. Lic.
Commission Expires: 6/2/06

Barbara J. Estes
Commission #DD168474
Expires: Dec 02, 2006
Bonded Thru
Atlantic Bonding Co., Inc.

Recording Fees: $________
Documentary Stamps: +________
Total: $
Prepared By And Return To:
TITLE OFFICES, LLC
1089 SW MAIN BLVD.,
LAKE CITY, FL. 32025

File #03Y-04074KW/BARBARA FRADDOSIO

Inst:2003010303 Date:05/16/2003 Time:16:19
Property Appraisers Parcel I.D. Number(s): Doc Stamp-Deed : 70.00
-16-04309-000 ________DC,P.DeWitt Cason,Columbia County B:983 P:1364

WARRANTY DEED

THIS WARRANTY DEED made and executed the 7th day of May, 2003 by SUSAN HANNAH, ______________, hereinafter called the Grantor, to TERENCE E. MUNN A married man, whose post office address is: ~~14216 NW 195 STREET, ALACHUA, FL 32615~~, 744 SW Unity Ct., Ft. White, FL 32038 hereinafter called the Grantee:

(Wherever used herein the terms "Grantor" and "Grantee" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations wherever the context so admits or requires.)

WITNESSETH: That the Grantor, for and in consideration of the sum of TEN DOLLARS ($10.00) and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee all that certain land situate, lying and being in COLUMBIA County, State of Florida, viz:

A part of the NW ¼ of the SE ¼ of Section 24, Township 7 South, Range 16 East, more particularly described as: Commence at the NW corner of the SW ¼ of the NE ¼ of said Section 24 and run N 89°02'33"E, along the North line thereof, 11.16 feet to a point on the East right of way line of Shiloh Church Road; thence S 1°05'04"E, along said East right of way line, 1677.53 feet for a POINT OF BEGINNING; thence N 89°02'33"E, 1293.31 feet to a point on the East line of the NW ¼ of said SE ¼; thence S 0°39'08"E, along the East line thereof 338.05 feet; thence S 89°02'33"W, 1286.40 feet to a point on the East right of way line of said Shiloh Church Road; thence N 1°49'22"W, along said East right of way line 338.09 feet to the POINT OF BEGINNING, Columbia County, Florida.

THE ABOVE DESCRIBED PROPERTY IS NOT THE HOMESTEAD OF THE GRANTOR.

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

TO HAVE AND TO HOLD the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land, and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except easements, restrictions and reservations of record, if any, and taxes accruing subsequent to December 31, 2002.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in the presence of:

X ________________
Witness:

X ________________
Witness:

X Susan Hannah
SUSAN HANNAH
Address: 1730 SW 40TH TERRACE, APT. G
GAINESVILLE, FLORIDA 32608

Thomas Francella
Commission # CC 884319
Expires Oct. 31, 2003
Bonded Thru
Atlantic Bonding Co., Inc.

STATE OF FLORIDA
COUNTY OF Alachua

I hereby certify that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgments, personally appeared SUSAN HANNAH, who produced the identification described below, and who acknowledged before me that they executed the foregoing instrument.

Witness my hand and official seal in the county and state aforesaid this 7 day of May, 2003.

X ________________
Notary Public:
Identification Examined: ________
Florida Driver License
Commission Expires: Oct 31, 2003

Midstate Roof Truss & Timber, Inc.
1903 NW MLK Jr. Ave.
Ocala Fl 34471
352-622-7252 Phone
352-622-9338 Fax

TRUSS PERMITTING PACKET
All Trusses Are Designed To Withstand 110 MPH Wind As Per ASCE 7-02.

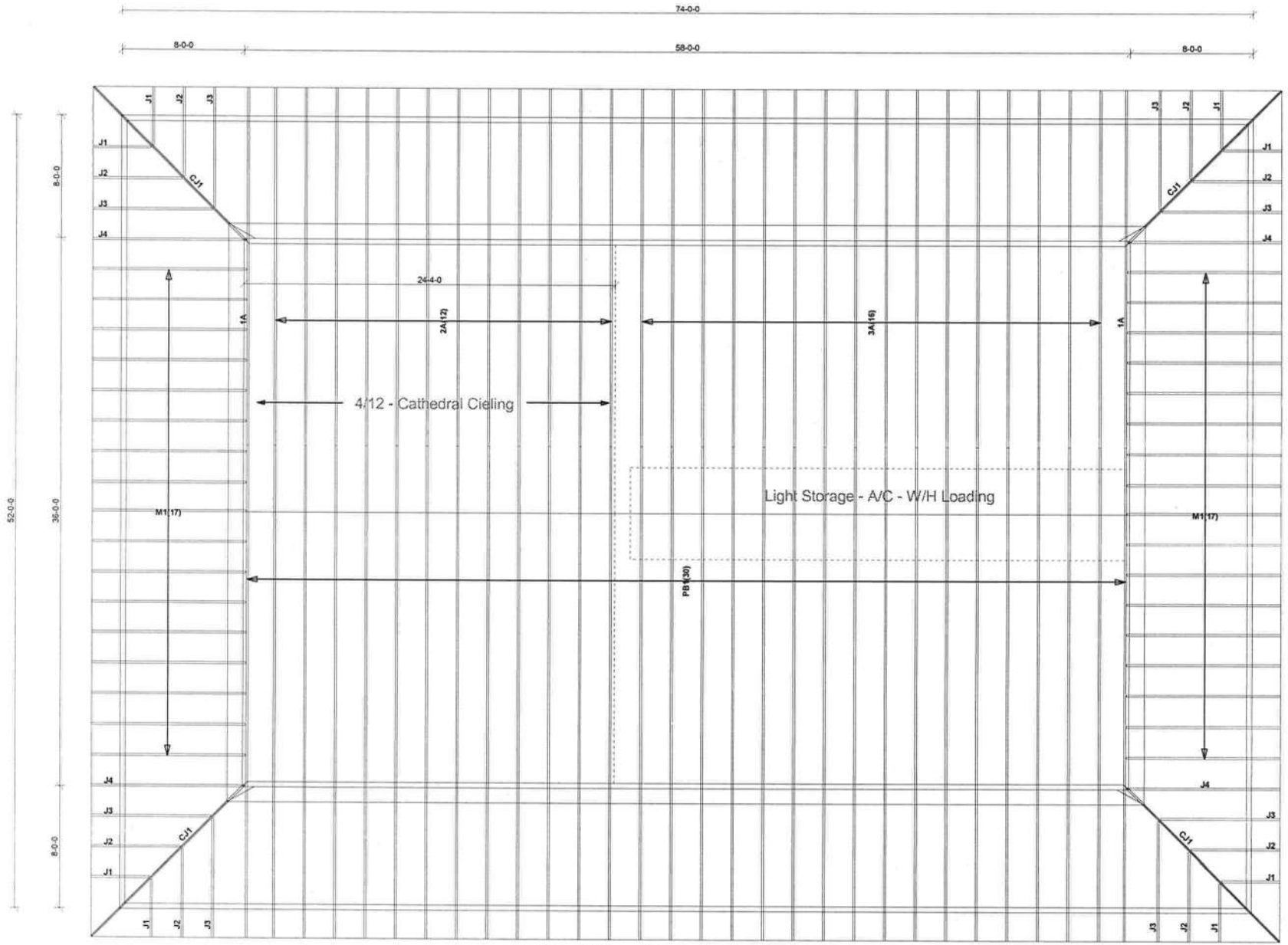
Job Name: T Munn Residence Date: 02-06-08

MSRT

MSRT

Prepared By: Tim Bennett

Midstate Roof Truss & Timber, Inc.



No Truss To Truss Connectors Required

Robbins Truss Plates - FL# 2934.1 & 2934.2

MiTek Truss Plates - FL# 2197.3 & 2197.4

Midstate Roof Truss & Timber
1903 N.W . MLK Jr. Ave.
Ocala, Fl. 34475
352-622-7252

" T. Munn Residence "

4 & 7/12 w/ 1-10-8" O/H

" Roof System "

Roof Loading
TC Live: 30.00 psf
TC Dead: 7.00 psf
BC Live: 0.00 psf
BC Dead: 10.00 psf
TC Stress Inc: 33.00
BC Stress Inc: 33.00
Spacing: 2- 0- 0 o.c.

Account: MISC - 2007 - 200
Job: Whitted-MunnRf
Designer: NONE ASSIGNE
Checker: NONE ASSIGNE
Date: 02-06-08

RE: Whitted-MunnRf -

Site Information:
Project Customer: MISC - 2007 - 2008
Project Name: Whitted - Munn Roof

Cty: Alachua State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: Unknown License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2004/TPI2002 Design Program: Robbins OnLine Plus 22.0.002□
Wind Code: ASCE 7-02 Wind Speed: 110 mph Floor Load: N/A psf
Roof Load: 47.0 psf

This package includes 10 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T2880992	1A	2/4/08
2	T2880993	2A	2/4/08
3	T2880994	3A	2/4/08
4	T2880995	M1	2/4/08
5	T2880996	PB1	2/4/08
6	T2880997	CJ1	2/4/08
7	T2880998	J1	2/4/08
8	T2880999	J2	2/4/08
9	T2881000	J3	2/4/08
10	T2881001	J4	2/4/08

The truss drawing(s) referenced above have been prepared by Robbins Engineering, Inc. under my direct supervision based on the parameters provided by Midstate Roof Truss & Timber.

Truss Design Engineer's Name: Schmidt, Lyndon
My license renewal date for the state of Florida is February 28, 2009.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Sec. 2.

Lyndon F. Schmidt, FL Lic #43409
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
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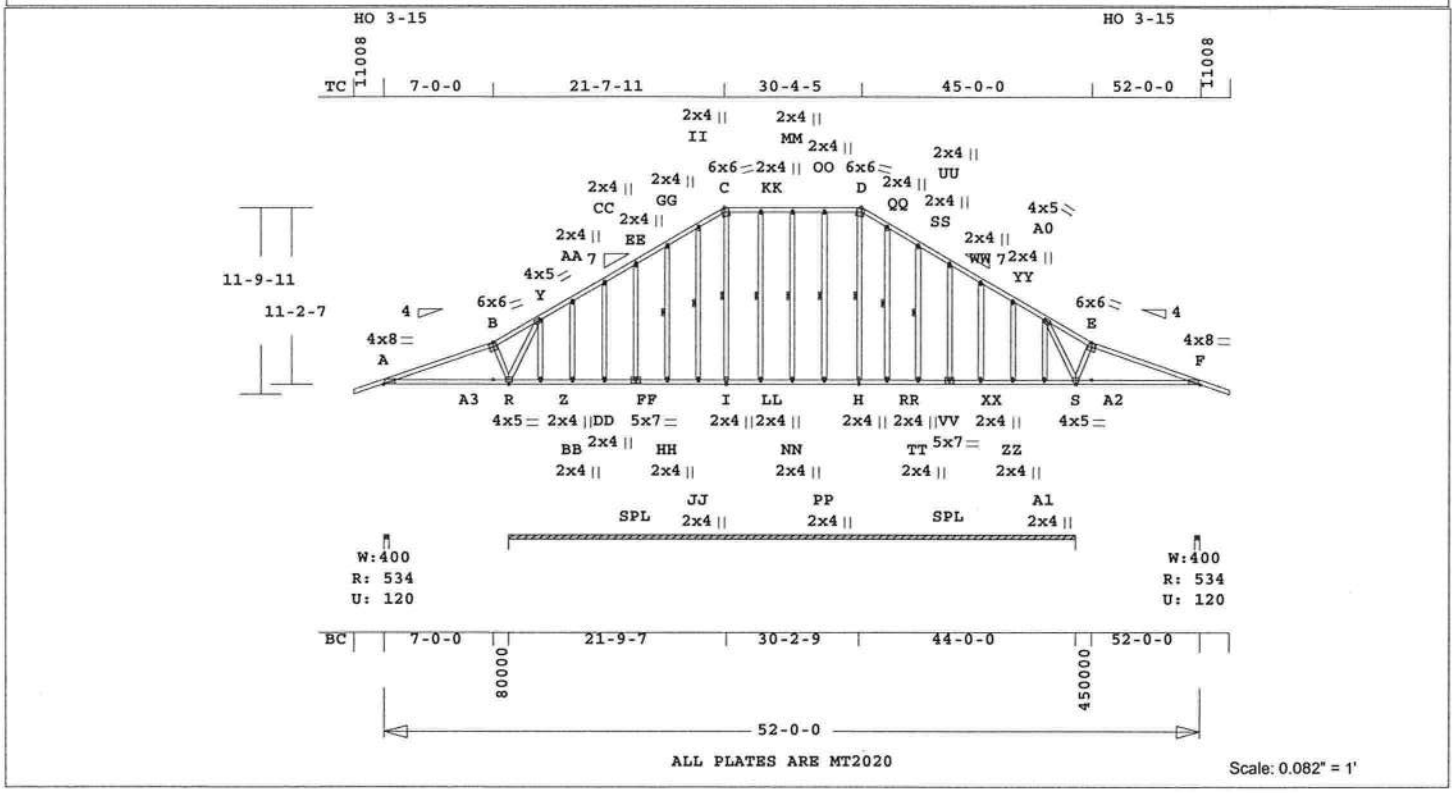
February 4,2008

DALLAS • **TAMPA** • FT. WORTH

Schmidt. Lyndon

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
Whitted-MunnRf	*1A*	2	HAWI	520000	4	1-10- 8	1-10- 8	*T2880992*

Whitted - Munn Roof



Scale: 0.082" = 1'

Robbins Engineering, Inc./Online Plus™

Online Plus -- Version 22.0.002
RUN DATE: 04-FEB-08

	CSI	-Size-	----Lumber----
TC	0.42	2x 4	SP-#2D
BC	0.32	2x 4	SP-#2D
WB	0.07	2x 4	SP-#3
GW	0.12	2x 4	SP-#3

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	52- 0- 0
BC	Cont.	0- 0- 0	52- 0- 0

One Continuous Lateral Brace
I -C H -D HH-GG JJ-II
LL-KK NN-MM PP-OO RR-QQ
TT-SS
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	7.0	30.0
BC	10.0	0.0
TC+BC	17.0	30.0

Total 47.0 Spacing 24.0"
Lumber Duration Factor 1.33
Plate Duration Factor 1.33
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	534	121 U	345 R
S	4112	1158 U	
F	534	121 U	345 R

Jt	Brg Size	Required
A	4.0"	1.5"
S	432.0"	96"-to- 528"
F	4.0"	1.5"

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.42	247 C	0.00 0.42
B -Y	0.18	145 T	0.00 0.18
Y -AA	0.04	183 T	0.00 0.04
AA-CC	0.04	155 T	0.00 0.04
CC-EE	0.04	167 T	0.02 0.02
EE-GG	0.04	228 T	0.02 0.02
GG-II	0.05	293 T	0.03 0.02
II-C	0.06	339 T	0.04 0.02
C -KK	0.04	321 T	0.00 0.04
KK-MM	0.04	321 T	0.00 0.04
MM-OO	0.04	321 T	0.00 0.04
OO-D	0.04	321 T	0.00 0.04
D -QQ	0.06	339 T	0.04 0.02
QQ-SS	0.05	293 T	0.03 0.02
SS-UU	0.04	228 T	0.02 0.02
UU-WW	0.04	167 T	0.02 0.02
WW-YY	0.04	155 T	0.00 0.04
YY-A0	0.04	183 T	0.00 0.04
A0-E	0.18	145 T	0.00 0.18
E -F	0.42	247 C	0.00 0.42
--------Bottom Chords---------			
A -R	0.32	238 T	0.03 0.29
R -Z	0.29	168 T	0.00 0.29
Z -BB	0.04	168 T	0.00 0.04
BB-DD	0.02	168 T	0.00 0.02
DD-FF	0.02	168 T	0.02 0.00
FF-HH	0.02	168 T	0.02 0.00
HH-JJ	0.02	168 T	0.02 0.00
JJ-I	0.02	168 T	0.02 0.00
I -LL	0.02	168 T	0.00 0.02
LL-NN	0.02	168 T	0.00 0.02
NN-PP	0.02	168 T	0.00 0.02
PP-H	0.02	168 T	0.00 0.02
H -RR	0.02	168 T	0.02 0.00
RR-TT	0.02	168 T	0.02 0.00
TT-VV	0.02	168 T	0.02 0.00
VV-XX	0.02	168 T	0.02 0.00
XX-ZZ	0.02	168 T	0.00 0.02
ZZ-A1	0.04	168 T	0.00 0.04
A1-S	0.29	168 T	0.00 0.29
S -F	0.32	238 T	0.03 0.29
-------------Webs-------------			
B -R	0.07	411 C	
R -Y	0.02	117 T	
I -C	0.04	103 C	1 Br
H -D	0.04	103 C	1 Br
A0-S	0.02	117 T	
S -E	0.07	411 C	
----------Gable Webs----------			
Z -Y	0.04	162 T	
BB-AA	0.06	159 C	
DD-CC	0.08	146 C	
FF-EE	0.12	147 C	
HH-GG	0.04	150 C	1 Br
JJ-II	0.05	137 C	1 Br
LL-KK	0.07	162 C	1 Br
NN-MM	0.06	144 C	1 Br
PP-OO	0.07	162 C	1 Br
RR-QQ	0.05	137 C	1 Br
TT-SS	0.04	150 C	1 Br
VV-UU	0.12	147 C	
XX-WW	0.08	146 C	
ZZ-YY	0.06	159 C	
A1-A0	0.04	162 T	

APPROX. TRUSS WEIGHT: 493.5 LBS

TL Defl	-0.18" in S -F	L/515	
LL Defl	-0.09" in S -F	L/999	
Shear // Grain	in A -B	0.27	

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 8.0	Ctr	0.1	0.82
B	MT20	6.0x 6.0	Ctr	Ctr	0.87
Y	MT20	4.0x 5.0	Ctr	Ctr	0.62
AA	MT20	2.0x 4.0	Ctr	Ctr	0.55
CC	MT20	2.0x 4.0	Ctr	Ctr	0.55
EE	MT20	2.0x 4.0	Ctr	Ctr	0.55
GG	MT20	2.0x 4.0	Ctr	Ctr	0.55
II	MT20	2.0x 4.0	Ctr	Ctr	0.55
C	MT20	6.0x 6.0	1.0-3.7		0.75
KK	MT20	2.0x 4.0	Ctr	Ctr	0.55
MM	MT20	2.0x 4.0	Ctr	Ctr	0.55
OO	MT20	2.0x 4.0	Ctr	Ctr	0.55
D	MT20	6.0x 6.0	1.0-3.7		0.75
QQ	MT20	2.0x 4.0	Ctr	Ctr	0.55
SS	MT20	2.0x 4.0	Ctr	Ctr	0.55
UU	MT20	2.0x 4.0	Ctr	Ctr	0.55
WW	MT20	2.0x 4.0	Ctr	Ctr	0.55
YY	MT20	2.0x 4.0	Ctr	Ctr	0.55
A0	MT20	4.0x 5.0	Ctr	Ctr	0.62
E	MT20	6.0x 6.0	Ctr	Ctr	0.87
F	MT20	4.0x 8.0	Ctr	0.1	0.82
R	MT20	4.0x 5.0	Ctr	Ctr	0.60
Z	MT20	2.0x 4.0	Ctr	Ctr	0.55
BB	MT20	2.0x 4.0	Ctr	Ctr	0.55
DD	MT20	2.0x 4.0	Ctr	Ctr	0.55
FF	MT20	5.0x 7.0	Ctr-0.5		0.88
HH	MT20	2.0x 4.0	Ctr	Ctr	0.55
JJ	MT20	2.0x 4.0	Ctr	Ctr	0.55
I	MT20	2.0x 4.0	Ctr	Ctr	0.55
LL	MT20	2.0x 4.0	Ctr	Ctr	0.55
NN	MT20	2.0x 4.0	Ctr	Ctr	0.55
PP	MT20	2.0x 4.0	Ctr	Ctr	0.55
H	MT20	2.0x 4.0	Ctr	Ctr	0.55
RR	MT20	2.0x 4.0	Ctr	Ctr	0.55
TT	MT20	2.0x 4.0	Ctr	Ctr	0.55
VV	MT20	5.0x 7.0	Ctr-0.5		0.88
XX	MT20	2.0x 4.0	Ctr	Ctr	0.55
ZZ	MT20	2.0x 4.0	Ctr	Ctr	0.55
A1	MT20	2.0x 4.0	Ctr	Ctr	0.55
S	MT20	4.0x 5.0	Ctr	Ctr	0.60

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

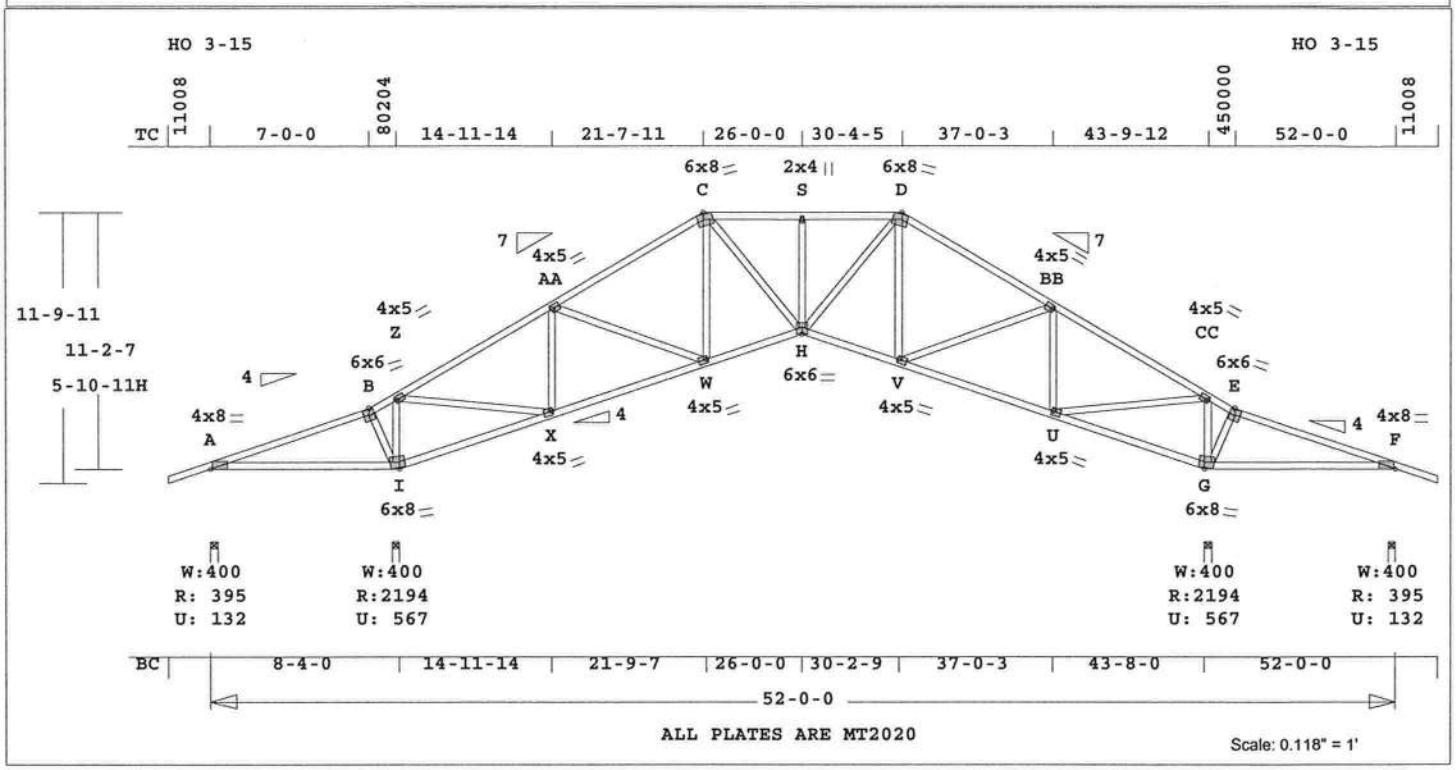
NOTES:
Trusses Manufactured by:
MIDSTATE ROOF TRUSS
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: C
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 411 Lbs
Max tens. force 339 Lbs
Quality Control Factor 1.25

Lyndon F. Schmidt, FL Lic #43409
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

February 4,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
Whitted-MunnRf	*2A*	11	SP	520000	4	1-10- 8	1-10- 8	*T2880993*

Whitted - Munn Roof



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 362.1 LBS

Online Plus -- Version 22.0.002
RUN DATE: 04-FEB-08

	CSI	-Size-	----Lumber----
TC	0.55	2x 4	SP-#2D
BC	0.72	2x 4	SP-#2D
WB	0.59	2x 4	SP-#3

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	52- 0- 0
BC	Cont.	0- 0- 0	52- 0- 0

psf-Ld	Dead	Live
TC	7.0	30.0
BC	10.0	0.0
TC+BC	17.0	30.0
Total	47.0	Spacing 24.0"

Lumber Duration Factor 1.33
Plate Duration Factor 1.33
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	396	132 U	345 R
I	2194	568 U	
G	2194	568 U	
F	396	132 U	345 R

Jt	Brg Size	Required
A	4.0"	1.5"
I	4.0"	2.0"
G	4.0"	2.0"
F	4.0"	1.5"

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -B	0.55	321 T	0.04	0.51
B -Z	0.36	445 T	0.06	0.30
Z -AA	0.49	1863 C	0.01	0.48
AA-C	0.50	2271 C	0.02	0.48
C -S	0.16	2659 C	0.03	0.13
S -D	0.16	2659 C	0.03	0.13
D -BB	0.50	2271 C	0.02	0.48
BB-CC	0.49	1863 C	0.01	0.48
CC-E	0.36	445 T	0.06	0.30
E -F	0.55	321 T	0.04	0.51
--------Bottom Chords---------				
A -I	0.51	291 C	0.00	0.51
I -X	0.72	394 C	0.00	0.72
X -W	0.41	1714 T	0.25	0.16
W -H	0.45	2046 T	0.30	0.15
H -V	0.45	2046 T	0.30	0.15
V -U	0.41	1714 T	0.25	0.16
U -G	0.72	394 C	0.00	0.72
G -F	0.51	291 C	0.00	0.51
----------Webs----------				
B -I	0.04	265 C		
I -Z	0.31	1636 C		
Z -X	0.59	1984 T		
X -AA	0.31	860 C		
AA-W	0.10	350 T		
W -C	0.07	120 T		
C -H	0.32	1075 T		
H -S	0.10	286 C		
H -D	0.32	1075 T		
V -D	0.06	120 T		
V -BB	0.10	350 T		
U -BB	0.31	860 C		
U -CC	0.59	1984 T		
G -CC	0.31	1636 C		
G -E	0.04	265 C		

TL Defl -0.45" in G -F L/202
LL Defl -0.26" in G -F L/360

Hz Disp	LL	DL	TL
Jt G	0.19"	0.11"	0.30"

Shear // Grain in A -B 0.31

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 8.0	Ctr	0.1	0.82
B	MT20	6.0x 6.0	Ctr	Ctr	0.87
Z	MT20	4.0x 5.0	Ctr	Ctr	0.69
AA	MT20	4.0x 5.0	Ctr	Ctr	0.69
C	MT20	6.0x 8.0	1.1-3.9		0.75
S	MT20	2.0x 4.0	Ctr	Ctr	0.55
D	MT20	6.0x 8.0	-1.1-3.9		0.75
BB	MT20	4.0x 5.0	Ctr	Ctr	0.69
CC	MT20	4.0x 5.0	Ctr	Ctr	0.69
E	MT20	6.0x 6.0	Ctr	Ctr	0.87
F	MT20	4.0x 8.0	Ctr	0.1	0.82
I	MT20	6.0x 8.0	-1.1	3.6	0.80
X	MT20	4.0x 5.0	Ctr	Ctr	0.76
W	MT20	4.0x 5.0	Ctr	Ctr	0.63
H	MT20	6.0x 6.0	Ctr	-0.7	0.75
V	MT20	4.0x 5.0	Ctr	Ctr	0.63
U	MT20	4.0x 5.0	Ctr	Ctr	0.76
G	MT20	6.0x 8.0	1.1	3.6	0.80

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

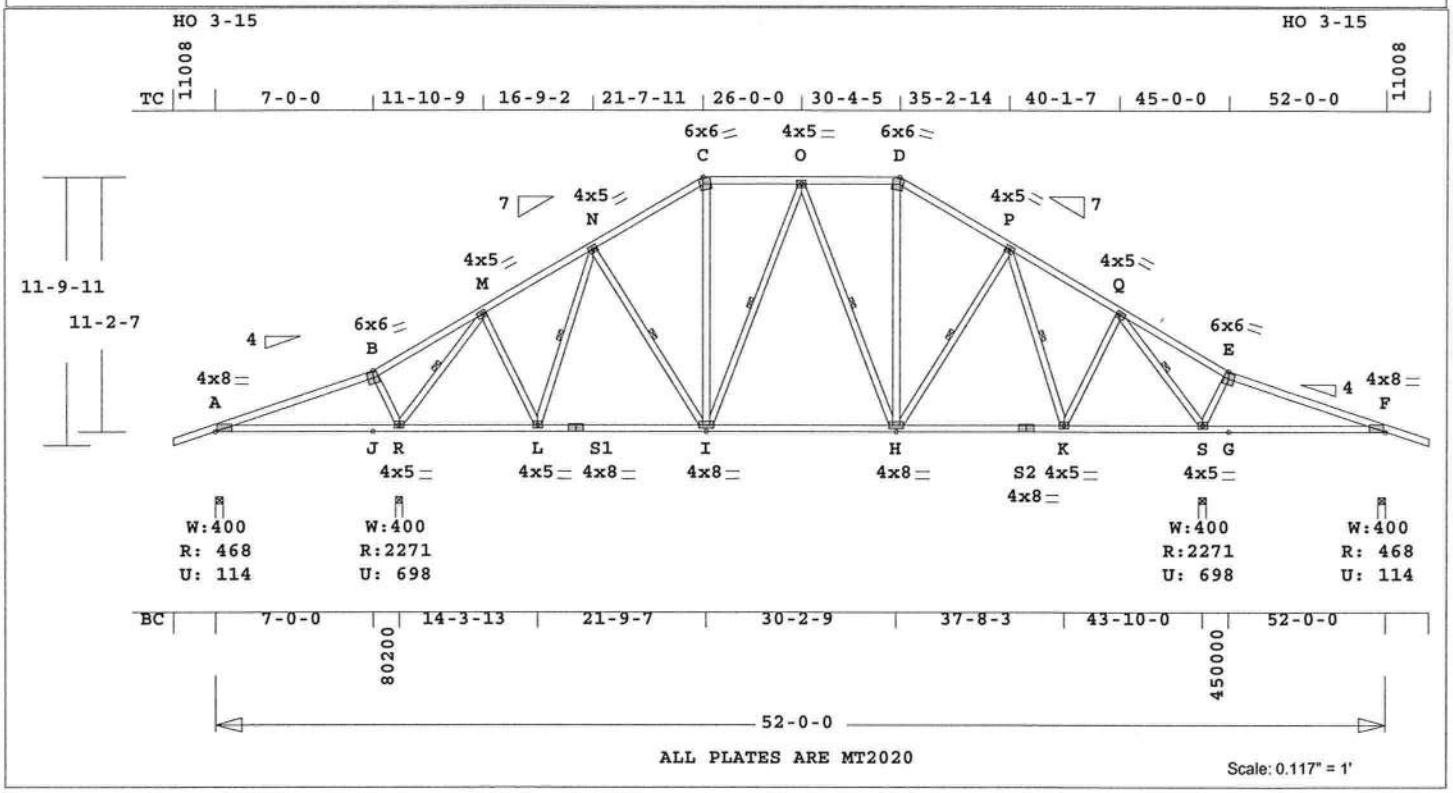
NOTES:
Trusses Manufactured by:
MIDSTATE ROOF TRUSS
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: C
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 2659 Lbs
Max tens. force 2046 Lbs
Quality Control Factor 1.25

Lyndon F. Schmidt, FL Lic #43409
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

February 4,2008

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
Whitted-MunnRf	*3A*	17	HAWI	520000	4	1-10- 8	1-10- 8	*T2880994*

Whitted - Munn Roof



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 416.0 LBS

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Online Plus -- Version 22.0.002
RUN DATE: 04-FEB-08

     CSI -Size- ----Lumber----
TC  0.48  2x 4  SP-#2D
BC  0.76  2x 4  SP-#2D
WB  0.43  2x 4  SP-#3

Brace truss as follows:
      O.C.      From       To
 TC  Cont.     0- 0- 0 52- 0- 0
 BC  Cont.     0- 0- 0 52- 0- 0
One Continuous Lateral Brace
  R -M   L -N   N -I   I -O
  O -H   H -P   P -K   Q -S
Attach CLB with (2)-10d nails
  at each web.

psf-Ld  Dead  Live
TC       7.0  30.0
BC      10.0   0.0
TC+BC   17.0  30.0
Total   47.0   Spacing  24.0"
Lumber Duration Factor  1.33
Plate  Duration Factor  1.33
TC Fb=1.00  Fc=1.00  Ft=1.00
BC Fb=1.00  Fc=1.00  Ft=1.00

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    468   115 U   345 R
R   2272   698 U
S   2272   698 U
F    468   115 U   345 R

Jt   Brg Size   Required
A       4.0"       1.5"
R       4.0"       2.1"
S       4.0"       2.1"
F       4.0"       1.5"

LC#  1  Standard Loading
Dur Fctrs - Lbr 1.33  Plt 1.33
plf - Dead  Live* From    To
TC V    14    60   0.0'  52.0'
BC V    20     0   0.0'  52.0'
BC V     0    50  23.0'  29.0'

Plus  6 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -B  0.48   125 T  0.00  0.48
B -M  0.25   149 T  0.03  0.22
M -N  0.26  1549 C  0.01  0.25
N -C  0.26  1701 C  0.01  0.25
C -O  0.21  1465 C  0.01  0.20
O -D  0.21  1465 C  0.01  0.20
D -P  0.26  1701 C  0.01  0.25
P -Q  0.26  1549 C  0.01  0.25
Q -E  0.25   149 T  0.03  0.22
E -F  0.48   125 T  0.00  0.48
--------Bottom Chords---------
A -R  0.35   214 T  0.00  0.35
R -L  0.50  1108 T  0.18  0.32
L -S1 0.30  1470 T  0.24  0.06
S1-I  0.73  1470 T  0.12  0.61
I -H  0.76  1531 T  0.25  0.51
H -S2 0.73  1470 T  0.12  0.61
S2-K  0.30  1470 T  0.24  0.06
K -S  0.50  1108 T  0.18  0.32
S -F  0.35   214 T  0.00  0.35
-------------Webs-------------
B -R  0.06   399 C
R -M  0.43  2085 C        1 Br
M -L  0.16   549 T
L -N  0.13   453 C        1 Br
N -I  0.04   134 C        1 Br
I -C  0.39   526 T
I -O  0.09   182 C        1 Br
O -H  0.09   182 C        1 Br
H -D  0.39   526 T
H -P  0.04   134 C        1 Br
P -K  0.13   453 C        1 Br
K -Q  0.16   549 T
Q -S  0.43  2085 C        1 Br
S -E  0.06   399 C

TL Defl  -0.19" in S -F  L/495
LL Defl  -0.09" in S -F  L/999
Shear // Grain  in I -H   0.34

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  4.0x 8.0 Ctr 0.1 0.82
B  MT20  6.0x 6.0 Ctr Ctr 0.87
M  MT20  4.0x 5.0-0.5-0.3 0.63
N  MT20  4.0x 5.0 Ctr Ctr 0.63
C  MT20  6.0x 6.0 1.0-3.7 0.75
O  MT20  4.0x 5.0 Ctr Ctr 0.61
D  MT20  6.0x 6.0-1.0-3.7 0.75
P  MT20  4.0x 5.0 Ctr Ctr 0.63
Q  MT20  4.0x 5.0 0.5-0.3 0.63
E  MT20  6.0x 6.0 Ctr Ctr 0.87
F  MT20  4.0x 8.0 Ctr 0.1 0.82
R  MT20  4.0x 5.0 Ctr Ctr 0.57
L  MT20  4.0x 5.0 Ctr Ctr 0.64
S1 MT20  4.0x 8.0 Ctr 0.2 0.75
I  MT20  4.0x 8.0 Ctr Ctr 0.61
H  MT20  4.0x 8.0 Ctr Ctr 0.61
S2 MT20  4.0x 8.0 Ctr 0.2 0.75
K  MT20  4.0x 5.0 Ctr Ctr 0.64
S  MT20  4.0x 5.0 Ctr Ctr 0.57

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610
```

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

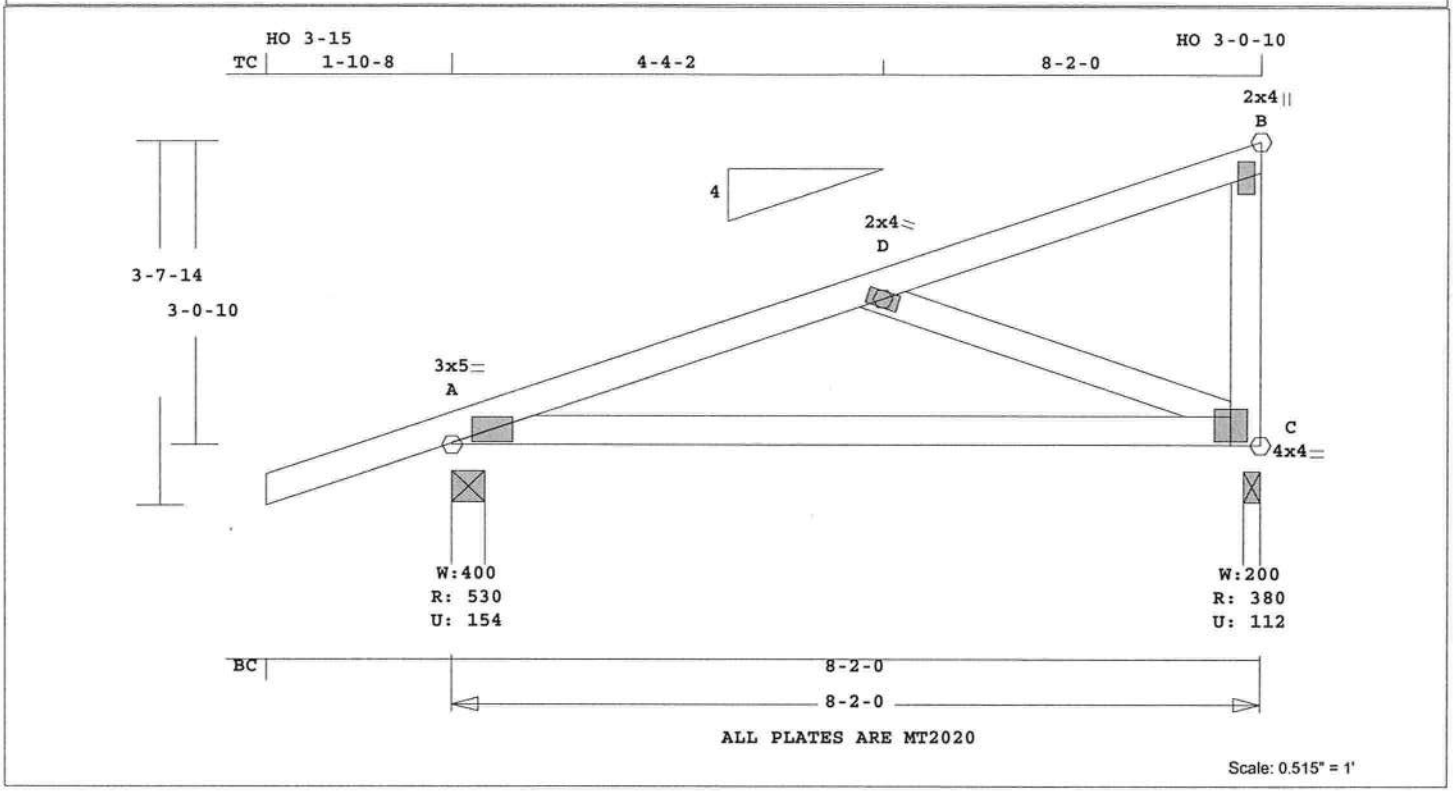
NOTES:
Trusses Manufactured by:
MIDSTATE ROOF TRUSS
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: C
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 2085 Lbs
Max tens. force 1531 Lbs
Quality Control Factor 1.25

Lyndon F. Schmidt, FL Lic #43409
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

February 4,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
Whitted-MunnRf	*M1*	34	MONO	80200'	4	1-10- 8	0	*T2880995*

Whitted - Munn Roof



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 47.6 LBS

Online Plus -- Version 22.0.002
RUN DATE: 04-FEB-08

	CSI	-Size-	----Lumber----
TC	0.22	2x 4	SP-#2D
BC	0.29	2x 4	SP-#2D
WB	0.16	2x 4	SP-#3

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	8- 2- 0
BC	Cont.	0- 0- 0	8- 2- 0

psf-Ld	Dead	Live
TC	7.0	30.0
BC	10.0	0.0
TC+BC	17.0	30.0
Total	47.0	Spacing 24.0"

Lumber Duration Factor 1.33
Plate Duration Factor 1.33
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	530	154 U	51 R
C	381	112 U	139 R

Jt	Brg Size	Required
A	4.0"	1.5"
C	2.0"	1.5"

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -D	0.22	550 C	0.00 0.22
D -B	0.20	49 C	0.00 0.20
--------Bottom Chords---------			
A -C	0.29	543 T	0.02 0.27
------------Webs------------			
D -C	0.16	577 C	
C -B	0.04	119 C	WindLd

TL Defl -0.20" in A -C L/469
LL Defl -0.10" in A -C L/960
Shear // Grain in A -D 0.22

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 5.0	Ctr	Ctr	0.58
D	MT20	2.0x 4.0	Ctr	Ctr	0.38
B	MT20	2.0x 4.0	Ctr	Ctr	0.38
C	MT20	4.0x 4.0	Ctr	-1.0	0.49

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
MIDSTATE ROOF TRUSS
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: C
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf

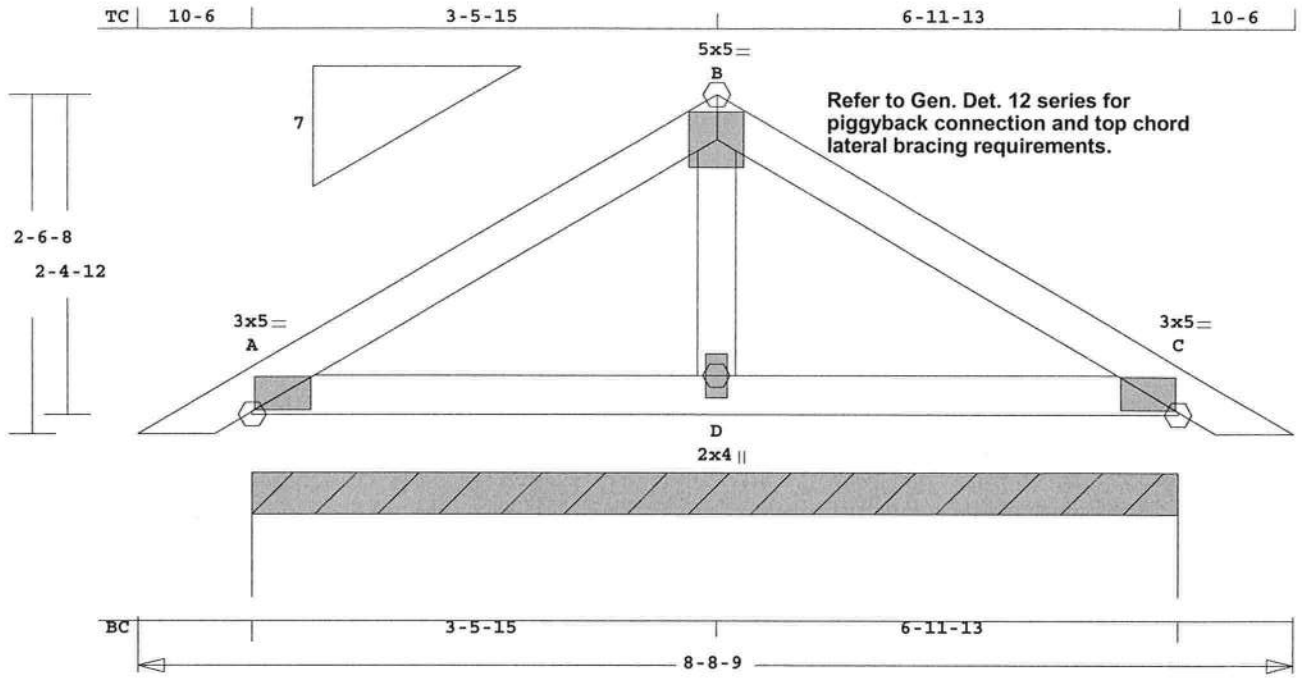
Max comp. force 577 Lbs
Max tens. force 543 Lbs
Quality Control Factor 1.25

Lyndon F. Schmidt, FL Lic #43409
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

February 4,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
Whitted-MunnRf	*PB1*	30	TR	80809	7	10- 6	10- 6	*T2880996*

Whitted - Munn Roof



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 35.6 LBS

Online Plus -- Version 22.0.002
RUN DATE: 04-FEB-08

	CSI	Size	Lumber
TC	0.08	2x 4	SP-#2D
BC	0.06	2x 4	SP-#2D
WB	0.00	2x 4	SP-#3

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	8- 8- 9
BC	Cont.	0- 0- 0	8- 8- 9

psf-Ld	Dead	Live
TC	7.0	30.0
BC	10.0	0.0
TC+BC	17.0	30.0
Total	47.0	Spacing 24.0"

Lumber Duration Factor 1.33
Plate Duration Factor 1.33
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	701	190 U	58 R

Jt	Brg Size	Required
A	83.8"	0"-to- 84"

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -B	0.08	204 C	0.00 0.08
B -C	0.08	204 C	0.00 0.08
Bottom Chords			
A -D	0.06	2 T	0.00 0.06
D -C	0.06	2 T	0.00 0.06
Webs			
D -B	0.00	37 C	

TL Defl 0.00" in A -D L/999
LL Defl 0.00" in A -D L/999
Shear // Grain in A -B 0.11

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 5.0	Ctr	Ctr	0.48
B	MT20	5.0x 5.0	Ctr	Ctr	0.36
C	MT20	3.0x 5.0	Ctr	Ctr	0.48
D	MT20	2.0x 4.0	Ctr	Ctr	0.38

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
MIDSTATE ROOF TRUSS
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: C
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf

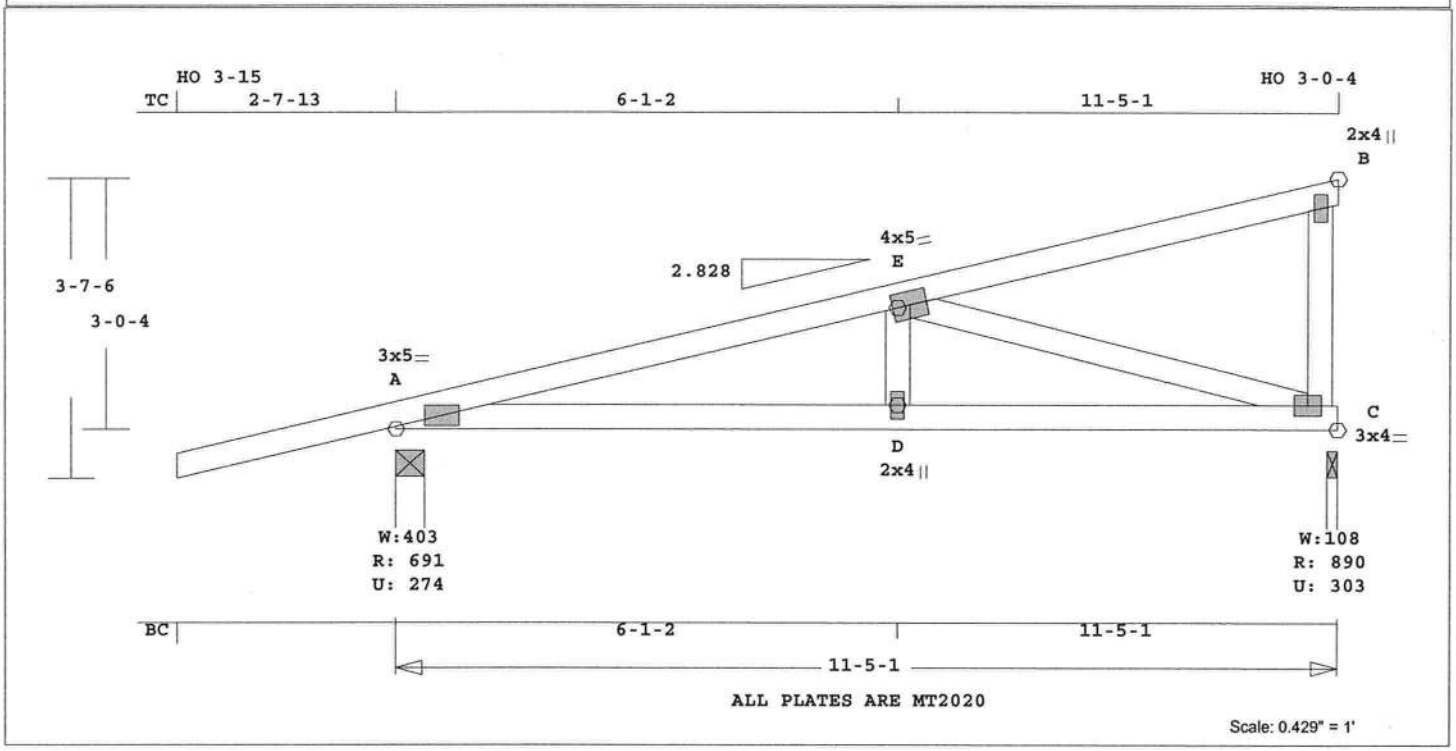
Max comp. force 204 Lbs
Max tens. force 104 Lbs
Quality Control Factor 1.25

Lyndon F. Schmidt, FL Lic #43409
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

February 4,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
Whitted-MunnRf	*CJ1*	4	KNG1	110501	2.828	2- 7-13	0	*T2880997*

Whitted - Munn Roof



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 65.3 LBS

Online Plus -- Version 22.0.002
RUN DATE: 04-FEB-08

	CSI	-Size-	----Lumber----
TC	0.58	2x 4	SP-#2D
BC	0.41	2x 4	SP-#2D
WB	0.62	2x 4	SP-#3

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	11- 5- 1
BC	Cont.	0- 0- 0	11- 5- 1

psf-Ld	Dead	Live
TC	7.0	30.0
BC	10.0	0.0
TC+BC	17.0	30.0

Total 47.0 Spacing 24.0"
Lumber Duration Factor 1.33
Plate Duration Factor 1.33
TC Fb=1.00 Fc=1.00 Ft=1.00
BC Fb=1.00 Fc=1.00 Ft=1.00

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	692	274 U	98 R
C	890	304 U	163 R

Jt	Brg Size	Required
A	4.2"	1.5"
C	1.5"	1.5"

LC# 1 Girder Loading
Dur Fctrs - Lbr 1.33 Plt 1.33

plf -	Dead	Live*	From	To
TC V	14	60	0.0'	11.4'
BC V	20	0	0.0'	11.4'
TC V	-14	-60	0.0'	
	21	90		11.4'
BC V	-20	0	0.0'	
	30	0		11.4'

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -E	0.47	1471 C	0.01 0.46
E -B	0.58	66 C	0.00 0.58
--------Bottom Chords---------			
A -D	0.33	1451 T	0.12 0.21
D -C	0.41	1451 T	0.23 0.18
------------Webs------------			
D -E	0.08	326 T	
E -C	0.62	1509 C	
C -B	0.06	368 C	WindLd

TL Defl -0.11" in D -C L/999
LL Defl -0.05" in A -D L/999
Shear // Grain in E -B 0.44

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 5.0	Ctr	Ctr	0.69
E	MT20	4.0x 5.0	Ctr	Ctr	0.62
B	MT20	2.0x 4.0	Ctr	Ctr	0.38
D	MT20	2.0x 4.0	Ctr	Ctr	0.38
C	MT20	3.0x 4.0	Ctr	Ctr	0.79

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

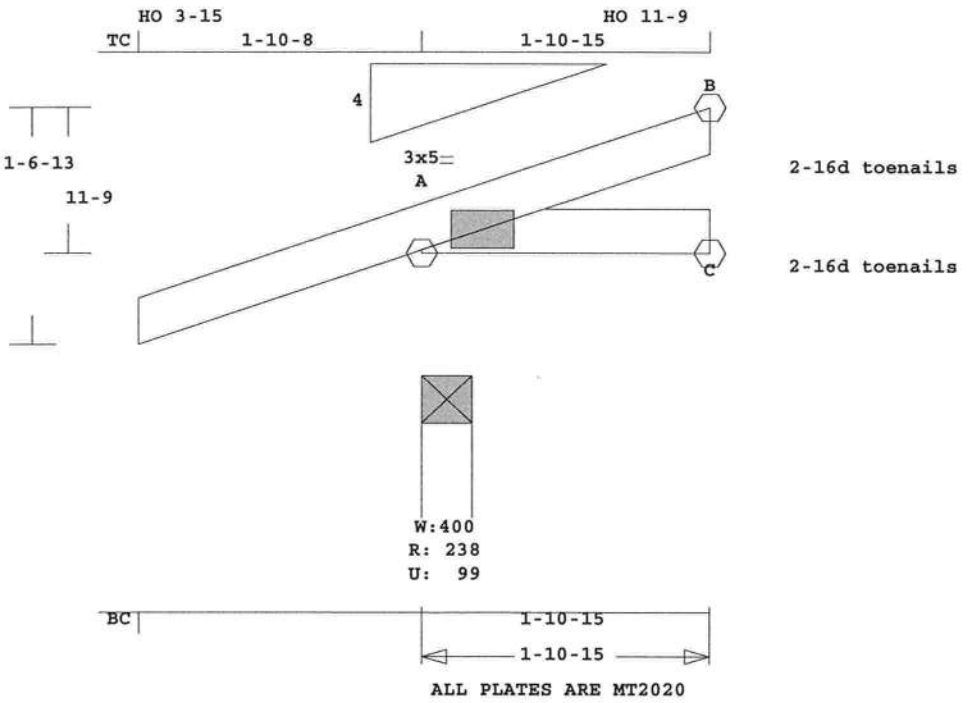
NOTES:
Trusses Manufactured by:
MIDSTATE ROOF TRUSS
Analysis Conforms To:
FBC2004
Girder King Jack
Loading TC and BC
Setback 8- 0- 0
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Use properly rated hangers for loads framing into girder truss.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: C
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1509 Lbs
Max tens. force 1451 Lbs
Quality Control Factor 1.25

Lyndon F. Schmidt, FL Lic #43409
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

February 4,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
Whitted-MunnRf	*J1*	8	ENDJ	11015'	4	1-10- 8	0	*T2880998*

Whitted - Munn Roof



Scale: 0.784" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 11.3 LBS

Online Plus -- Version 22.0.002
RUN DATE: 04-FEB-08

	CSI	-Size-	----Lumber----
TC	0.02	2x 4	SP-#2D
BC	0.02	2x 4	SP-#2D

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	1-10-15
BC	Cont.	0- 0- 0	1-10-15

psf-Ld	Dead	Live
TC	7.0	30.0
BC	10.0	0.0
TC+BC	17.0	30.0
Total	47.0	Spacing 24.0"

Lumber Duration Factor 1.33
Plate Duration Factor 1.33
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	238	99 U	27 R
B	61	30 U	
C	31		18 R

Jt	Brg Size	Required
A	3.5"	1.5"
B	1.5"	1.5"
C	1.5"	1.5"

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.02	11 C	0.00 0.02
--------Bottom Chords---------			
A -C	0.02	18 T	0.00 0.02

TL Defl 0.00" in A -C L/999
LL Defl 0.00" in A -C L/999
Shear // Grain in A -B 0.05

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 5.0	Ctr	Ctr	0.52

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

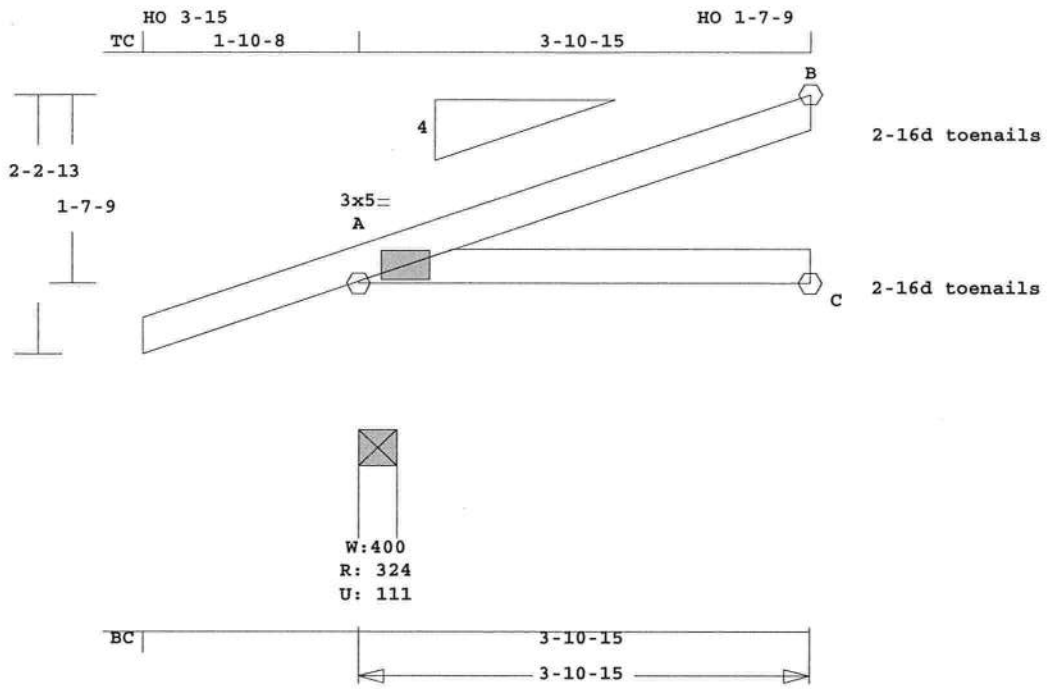
NOTES:
Trusses Manufactured by:
MIDSTATE ROOF TRUSS
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: C
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 11 Lbs
Max tens. force 18 Lbs
Quality Control Factor 1.25

Lyndon F. Schmidt, FL Lic #43409
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

February 4,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
Whitted-MunnRf	*J2*	8	ENDJ	31015'	4	1-10- 8	0	*T2880999*

Whitted - Munn Roof



ALL PLATES ARE MT2020

Scale: 0.600" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 19.1 LBS

Online Plus -- Version 22.0.002
RUN DATE: 04-FEB-08

	CSI	-Size-	----Lumber----
TC	0.12	2x 4	SP-#2D
BC	0.10	2x 4	SP-#2D

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	3-10-15
BC	Cont.	0- 0- 0	3-10-15

psf-Ld	Dead	Live
TC	7.0	30.0
BC	10.0	0.0
TC+BC	17.0	30.0
Total	47.0	Spacing 24.0"

Lumber Duration Factor 1.33
Plate Duration Factor 1.33
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	325	111 U	57 R
C	70		
B	136	68 U	39 R

Jt	Brg Size	Required
A	4.0"	1.5"
C	3.5"	1.5"
B	3.5"	1.5"

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.12	27 C	0.00 0.12
--------Bottom Chords---------			
A -C	0.10	0 T	0.00 0.10

TL Defl -0.02" in A -C L/999
LL Defl -0.01" in A -C L/999
Shear // Grain in A -B 0.13

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 5.0	Ctr	Ctr	0.52

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

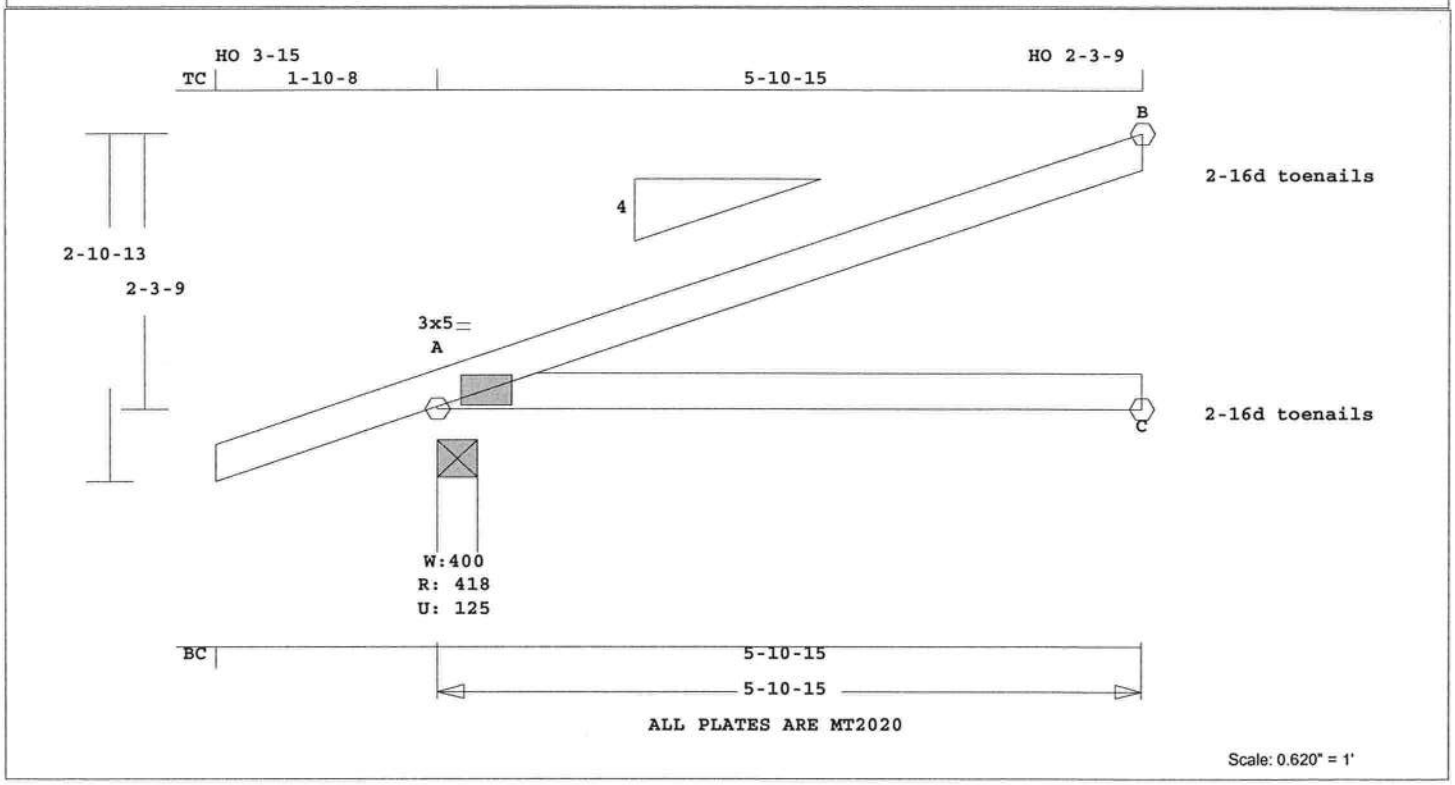
NOTES:
Trusses Manufactured by:
MIDSTATE ROOF TRUSS
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: C
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 27 Lbs
Max tens. force 22 Lbs
Quality Control Factor 1.25

Lyndon F. Schmidt, FL Lic #43409
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

February 4,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
Whitted-MunnRf	*J3*	8	ENDJ	51015	4	1-10- 8	0	*T2881000*

Whitted - Munn Roof



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 26.9 LBS

Online Plus -- Version 22.0.002
RUN DATE: 04-FEB-08

	CSI	-Size-	----Lumber----
TC	0.32	2x 4	SP-#2D
BC	0.23	2x 4	SP-#2D

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	5-10-15
BC	Cont.	0- 0- 0	5-10-15

psf-Ld	Dead	Live
TC	7.0	30.0
BC	10.0	0.0
TC+BC	17.0	30.0
Total	47.0	Spacing 24.0"

Lumber Duration Factor 1.33
Plate Duration Factor 1.33
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	419	125 U	87 R
C	107		
B	202	102 U	59 R

Jt	Brg Size	Required
A	4.0"	1.5"
C	3.5"	1.5"
B	3.5"	1.5"

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.32	40 C	0.00 0.32
--------Bottom Chords---------			
A -C	0.23	0 T	0.00 0.23

TL Defl -0.10" in A -C L/663
LL Defl -0.05" in A -C L/999

Shear // Grain in A -B 0.21

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt Type	Plt Size	X	Y	JSI
A MT20	3.0x 5.0	Ctr	Ctr	0.54

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

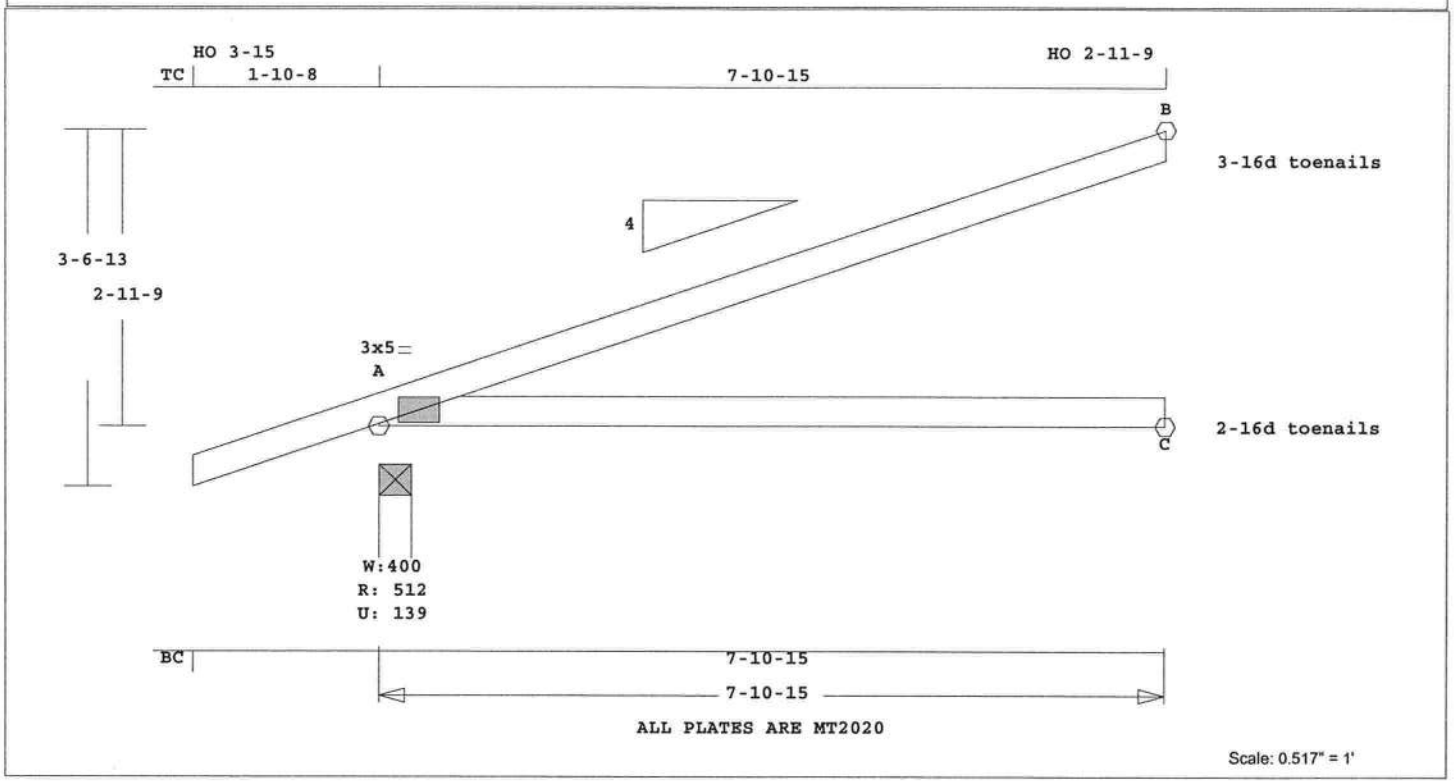
NOTES:
Trusses Manufactured by:
MIDSTATE ROOF TRUSS
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: C
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 40 Lbs
Max tens. force 35 Lbs
Quality Control Factor 1.25

Lyndon F. Schmidt, FL Lic #43409
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

February 4,2008

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
Whitted-MunnRf	*J4*	4	ENDJ	71015	4	1-10- 8	0	*T2881001*

Whitted - Munn Roof



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 34.6 LBS

Online Plus -- Version 22.0.002
RUN DATE: 04-FEB-08

	CSI	-Size-	----Lumber----
TC	0.61	2x 4	SP-#2D
BC	0.43	2x 4	SP-#2D

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	7-10-15
BC	Cont.	0- 0- 0	7-10-15

psf-Ld	Dead	Live
TC	7.0	30.0
BC	10.0	0.0
TC+BC	17.0	30.0
Total	47.0	Spacing 24.0"

Lumber Duration Factor 1.33
Plate Duration Factor 1.33
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	513	139 U	117 R
C	144		
B	269	136 U	80 R

Jt	Brg Size	Required
A	4.0"	1.5"
C	3.5"	1.5"
B	3.5"	1.5"

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.61	54 C	0.00 0.61
--------Bottom Chords---------			
A -C	0.43	0 T	0.00 0.43

TL Defl -0.32" in A -C L/271
LL Defl -0.17" in A -C L/505

Shear // Grain in A -B 0.30

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 5.0	Ctr	Ctr	0.57

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
MIDSTATE ROOF TRUSS
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: C
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 54 Lbs
Max tens. force 47 Lbs
Quality Control Factor 1.25

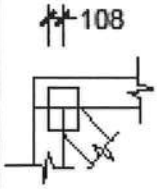
LYNDON F. SCHMIDT LICENSE No 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

Lyndon F. Schmidt, FL Lic #43409
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

February 4,2008

ROBBINS ENG. GENERAL NOTES & SYMBOLS

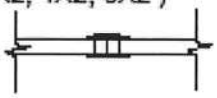
PLATE LOCATION



Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

FLOOR TRUSS SPLICE

(3X2, 4X2, 6X2)



(W) = Wide Face Plate
(N) = Narrow Face Plate

LATERAL BRACING

Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.

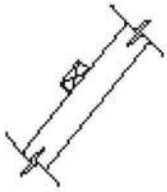
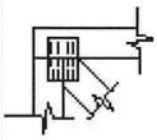


PLATE SIZE AND ORIENTATION

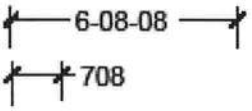
3x5 ||

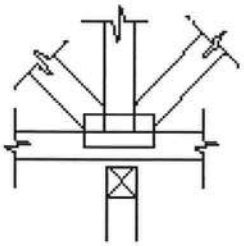


The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.

DIMENSIONS

All dimensions are shown in FT-IN-SX (i.e. 6' 8 1/2" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).





W = Actual Bearing Width (IN-SX)
R = Reaction (lbs.)
U = Uplift (lbs.)

BEARING

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before erecting this truss. If necessary, shim bearings to assure solid contact with truss.

ROBBINS connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on truss design drawings refer to common wire nails, except as noted.
The attached design drawings were prepared in accordance with " National Design Specifications for Wood Construction" (AF & PA)," National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

Robbins Eng. Co. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to BCSI 1-03 as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and " dominoing ". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records.

FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS FABRICATOR.

Robbins Engineering, Inc.

6904 Parke East Blvd.
Tampa, Fl 33610-4115
Tel: 813-972-1135 Fax: 813-971-6117

www.robbinseng.com

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST
FOR THE FLORIDA RESIDENTIAL BUILDING CODE 2004 with 2005 & 2006
Supplements and One (1) and Two (2) Family Dwellings

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current FLORIDA BUILDING CODES and the Current FLORIDA RESIDENTIAL CODE. ALL PLANS OR DRAWING SHALL PROVIDED 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 SPEEDS ARE PER FIGURE R301.2(4) of the Residential Code (Florida Wind speed map) **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

GENERAL REQUIREMENTS;

- Two (2) complete sets of plans containing the following:
- All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void
- Condition space (Sq. Ft.) and total (Sq. Ft.) under roof shall be shown on the plans.
- Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents per FBC 106.1.

Site Plan information including:

- Dimensions of lot or parcel of land
- Dimensions of all building set backs
- Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.
- Provide a full legal description of property.

Wind-load Engineering Summary, calculations and any details required:

- Plans or specifications must meet state compliance with FRC Chapter 3
- The following information must be shown as per section FRC
- Basic wind speed (3-second gust), miles per hour
- Wind importance factor and nature of occupancy
- Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
- The applicable internal pressure coefficient, 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 specifally designed by the registered design professional.

Elevations Drawing including:

- All side views of the structure
- Roof pitch
- Overhang dimensions and detail with attic ventilation
- Location, size and height above roof of chimneys
- Location and size of skylights with Florida Product Approval
- Number of stories
- e) Building height from the established grade to the roofs highest peak

WOOD WALL FRAMING CONSTRUCTION FRC CHAPTER 6

- Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls.
- Fastener schedule for structural members per table R602.3 (1) are to be shown.
- Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing
- Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems.
- Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FRC Table R502.5 (1)
- Indicate where pressure treated wood will be placed.
- Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas
- A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail

ROOF SYSTEMS:

- Truss design drawing shall meet section FRC R802.10 Wood trusses. Include a layout and truss details and be signed and sealed by Fl. Pro. Eng.
- Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters
- Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details
- Provide dead load rating of trusses

Conventional Roof Framing Layout Per FRC 802:

- Rafter and ridge beams sizes, span, species and spacing
- Connectors to wall assemblies' include assemblies' resistance to uplift rating.
- Valley framing and support details
- Provide dead load rating of rafter system.

ROOF SHEATHING FRC Table R602,3(2) FRC 803

- Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing on the edges & intermediate areas

ROOF ASSEMBLIES FRC Chapter 9

- Include all materials which will make up the roof assembles covering; with Florida Product Approval numbers for each component of the roof assembles covering.

FCB Chapter 13 Florida Energy Efficiency Code for Building Construction

- Residential construction shall comply with this code by using the following compliance methods in the FBC Subchapter 13-6, Residential buildings compliance methods. Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area
- Show the insulation R value for the following areas of the structure: Attic space, Exterior wall cavity and Crawl space (if applicable)

HVAC information shown

- Manual J sizing equipment or equivalent computation
- Exhaust fans locations in bathrooms

Plumbing Fixture layout shown

- All fixtures waste water lines shall be shown on the foundation plan

Electrical layout shown including:

- Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- Ceiling fans
- Smoke detectors
- Service panel, sub-panel, location(s) and total ampere ratings

PRODUCT APPROVAL SPECIFICATION SHEET

Location:_____ **Project Name:**_____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	REGIA-BUILT	METAL 30	FL-18
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	BETTER-BUILT	ALUMINUM	FL-8710
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding	HARDIE	7¼ LAP	FL-MER-405
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	~~GEORGIA PACIFIC~~	~~Asphalt Architectural~~	~~FL-250-6~~
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf	GULF COAST	SM-RIB	FL-7099.1
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12 Roofing Slate			

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor	Simpson	H2.5T, MSTAM-36	FL-625.5 FL-837.2
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection

Contractor or Contractor's Authorized Agent Signature

Doug Wetherell 2-27-08

Print Name Date

Location

Permit # **(FOR STAFF USE ONLY)**

Columbia County 9-1-1 Addressing / GIS Department
P.O. Box 1787, Lake City, FL 32056
Telephone: (386) 758-1125 * Fax: (386) 758-1365 * E-mail: ron_croft@columbiacountyfla.com

9-1-1 Address Request Form

N.A.

NOTE: ADDRESS ASSIGNMENT MAY REQUIRE UP TO 10 WORKING DAYS. IF THE ADDRESSING DEPARTMENT NEEDS TO CONDUCT ON SITE GPS LOCATION IDENTIFICATION, ADDITIONAL TIME MAY BE REQUIRED.

Date of Request: _____

Requester Last Name: _____

First Name: _____

Contact Telephone Number: _____

(Cell Phone Number if Provided): _____

Requested for Self: _____ or Requested for Company: _____
(check one)
If Address is Requested by a Company, Provide Name of Requesting Company:

_____

Parcel Identification Number: ____ - ____ - ____ - ____

If in Subdivision, Provide Name Of Subdivision:

_____

Phase or Unit Number (if any): _____ Block Number (if any): _____

Lot Number: _____

Attach Site Plan or you may use back of Request Form for Site Plan:

Requirements for Site Plan Are Listed on Back of Request From:
(NOTE: Site Plan Does NOT have to be a survey or to scale; FURTHER a Environmental Health Dept. Site Plan showing only a 210 by 210 cutout of a property will NOT suffice for Addressing Requirements.)

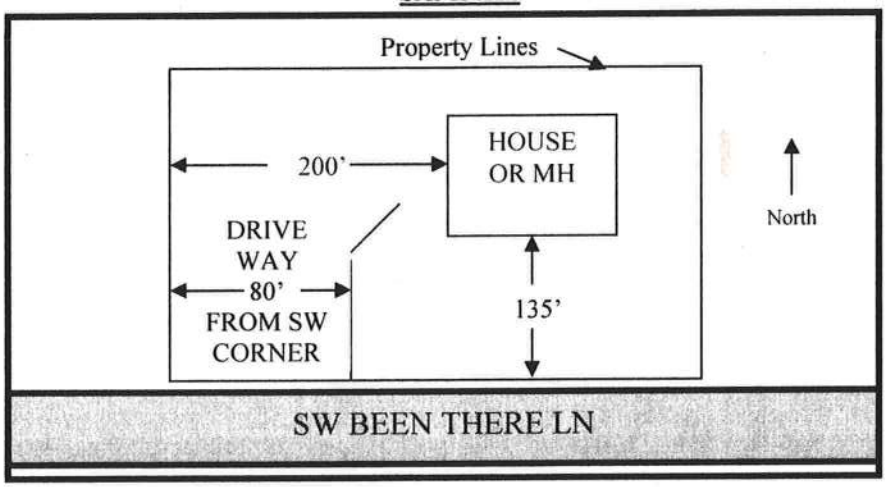
Addressing / GIS Department Use Only:

Date Received: _____ Date Assigned: _____

ID Number: _____

1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
3. 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).
4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



SITE PLAN BOX:

SEE ATTACHED

Terence Munn
HVAC Load Calculations

for

Terry Munn
744 S.W Unity Court
Fort White Florida 32038

Elite Software

RHVAC RESIDENTIAL HVAC LOADS

Prepared By:

Chuck Fischer
North Central Florida Air Conditioning I
P. O. Box 700
High Springs Fl 32655-0700
(386) 454-4767
Tuesday, February 26, 2008

Project Report

General Project Information

Project Title:	Terence Munn
Designed By:	Chuck Fischer
Project Date:	February 27, 2008
Client Name:	Terry Munn
Client Address:	744 S.W Unity Court
Client City:	Fort White Florida 32038
Client Phone:	386-454-2128
Company Name:	North Central Florida Air Conditioning I
Company Representative:	Chuck Fischer
Company Address:	P. O. Box 700
Company City:	High Springs Fl 32655-0700
Company Phone:	(386) 454-4767
Company Fax:	(386) 454-4854
Company Comment:	heat load for addition

Design Data

Reference City:		Gainesville, Florida
Daily Temperature Range:		Medium
Latitude:	29	Degrees
Elevation:	152	ft.
Altitude Factor:	0.995	
Elevation Sensible Adj. Factor:	1.000	
Elevation Total Adj. Factor:	1.000	
Elevation Heating Adj. Factor:	1.000	
Elevation Heating Adj. Factor:	1.000	

	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	31	0	50	72	38
Summer:	93	77	50	75	50

Check Figures

Total Building Supply CFM:	1,430	CFM Per Square ft.:	0.685
Square ft. of Room Area:	2,088	Square ft. Per Ton:	617
Volume (ft³) of Cond. Space:	18,798	Air Turnover Rate (per hour):	4.6

Building Loads

Total Heating Required With Outside Air:	44,426 Btuh	44.426	MBH
Total Sensible Gain:	31,292 Btuh	85	%
Total Latent Gain:	5,393 Btuh	15	%
Total Cooling Required With Outside Air:	36,685 Btuh	3.06	Tons (Based On Sensible + Latent)
		3.39	Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

Load Preview Report

Scope	Area	Sens Gain	Lat Gain	Net Gain	Sens Loss	Win CFM	Sum CFM	Sys CFM	Duct Size
Building: 3.06 Net Tons, 3.39 Recommended Tons, 617 ft.²/Ton, 44.43 MBH Heating									
Building	2,088	31,292	5,393	36,685	44,426	580	1,430	1,430	
System 1: 3.06 Net Tons, 3.39 Recommended Tons, 617 ft.²/Ton, 44.43 MBH Heating									
System 1	2,088	31,292	5,393	36,685	44,426	580	1,430	1,430	17x16
AED Excursion		243		243					
Zone 1	2,088	31,048	5,393	36,441	44,426	580	1,430	1,430	
1-Master Bedroom	315	4,482	1,273	5,755	8,902	116	206	206	2-6
2-Master Bath	146	2,875	553	3,428	4,487	59	132	132	1-7
3-Master W.I.C	96	848	216	1,064	1,478	19	39	39	1-4
4-Bath 2	76	676	0	676	307	4	31	31	1-3
5-Bedroom 2	213	2,774	558	3,332	3,144	41	128	128	1-7
6-Bedroom 3	193	2,980	513	3,493	3,341	44	137	137	1-7
7-Utility Room	140	1,788	216	2,004	1,856	24	82	82	1-5
8-Kitchen	169	3,847	491	4,338	2,470	32	177	177	1-8
9-Dining Room	184	4,984	611	5,595	8,290	108	230	230	2-6
10-Living Room	458	5,552	962	6,514	9,755	127	256	256	2-7
11-Hall	98	239	0	239	396	5	11	11	1-2

Total Building Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	324	8,635	0	5,655	5,655
1D-cm-o: Glazing-Double pane, operable window, clear, metal frame no break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	12	428	0	252	252
10B-m: Glazing-French door, double pane clear glass, metal frame no break, ground reflectance = 0.23, light color blinds at 45° with 25% coverage	40.8	2,426	0	1,339	1,339
11P: Door-Polyurethane Core	58.5	695	0	492	492
12C-3sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, R-3 board insulation, siding finish, wood studs	1263.9	3,887	0	1,933	1,933
16E-38: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, Light Tile, Slate or Concrete, R-38 insulation	315.4	336	0	230	230
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1773.4	2,328	0	2,440	2,440
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	36	2,004	0	0	0
20P-19: Floor-Over open crawl space or garage, Passive, R-19 blanket insulation, any cover	1773.4	3,635	0	1,153	1,153
Subtotals for structure:		24,374	0	13,494	13,494
People:	5		1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	2115			7,212	7,212
Ductwork:		7,405	0	5,174	5,174
Infiltration: Winter CFM: 282, Summer CFM: 125		12,647	4,243	2,468	6,711
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
AED Excursion:		0	0	243	243
Total Building Load Totals:		44,426	5,393	31,292	36,685

Check Figures

Total Building Supply CFM:	1,430	CFM Per Square ft.:	0.685
Square ft. of Room Area:	2,088	Square ft. Per Ton:	617
Volume (ft³) of Cond. Space:	18,798	Air Turnover Rate (per hour):	4.6

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Total Latent Gain:	5,393 Btuh	15 %	
Total Cooling Required With Outside Air:	36,685 Btuh	3.06 Tons (Based On Sensible + Latent)	
		3.39 Tons (Based On 77% Sensible Capacity)	

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1 Main Floor Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	324	8,635	0	5,655	5,655
1D-cm-o: Glazing-Double pane, operable window, clear, metal frame no break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	12	428	0	252	252
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11P: Door-Polyurethane Core	58.5	695	0	492	492
12C-3sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, R-3 board insulation, siding finish, wood studs	1263.9	3,887	0	1,933	1,933
16E-38: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, Light Tile, Slate or Concrete, R-38 insulation	315.4	336	0	230	230
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1773.4	2,328	0	2,440	2,440
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	36	2,004	0	0	0
20P-19: Floor-Over open crawl space or garage, Passive, R-19 blanket insulation, any cover	1773.4	3,635	0	1,153	1,153
Subtotals for structure:		24,374	0	13,494	13,494
People:	5		1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	2115			7,212	7,212
Ductwork:		7,405	0	5,174	5,174
Infiltration: Winter CFM: 282, Summer CFM: 125		12,647	4,243	2,468	6,711
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
AED Excursion:		0	0	243	243
System 1 Main Floor Load Totals:		44,426	5,393	31,292	36,685

Check Figures

Supply CFM:	1,430	CFM Per Square ft.:	0.685
Square ft. of Room Area:	2,088	Square ft. Per Ton:	617
Volume (ft³) of Cond. Space:	18,798	Air Turnover Rate (per hour):	4.6

System Loads

Total Heating Required With Outside Air:	44,426 Btuh	44.426 MBH	
Total Sensible Gain:	31,292 Btuh	85 %	
Total Latent Gain:	5,393 Btuh	15 %	
Total Cooling Required With Outside Air:	36,685 Btuh	3.06	Tons (Based On Sensible + Latent)
		3.39	Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1, Zone 1 Summary Loads (Average Load Procedure for Rooms)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	324	8,635	0	5,655	5,655
1D-cm-o: Glazing-Double pane, operable window, clear, metal frame no break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	12	428	0	252	252
10B-m: Glazing-French door, double pane clear glass, metal frame no break, ground reflectance = 0.23, light color blinds at 45° with 25% coverage	40.8	2,426	0	1,339	1,339
11P: Door-Polyurethane Core	58.5	695	0	492	492
12C-3sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, R-3 board insulation, siding finish, wood studs	1263.9	3,887	0	1,933	1,933
16E-38: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, Light Tile, Slate or Concrete, R-38 insulation	315.4	336	0	230	230
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1773.4	2,328	0	2,440	2,440
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	36	2,004	0	0	0
20P-19: Floor-Over open crawl space or garage, Passive, R-19 blanket insulation, any cover	1773.4	3,635	0	1,153	1,153
Subtotals for structure:		24,374	0	13,494	13,494
People:	5		1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	2115			7,212	7,212
Ductwork:		7,405	0	5,174	5,174
Infiltration: Winter CFM: 282, Summer CFM: 125		12,647	4,243	2,468	6,711
System 1, Zone 1 Load Totals:		44,426	5,393	31,048	36,441

Check Figures

Supply CFM:	1,430	CFM Per Square ft.:	0.685
Square ft. of Room Area:	2,088	Square ft. Per Ton:	620
Volume (ft³) of Cond. Space:	18,798	Air Turnover Rate (per hour):	4.6

Zone Loads

Total Heating Required:	44,426 Btuh	44.426 MBH	
Total Sensible Gain:	31,048 Btuh	85 %	
Total Latent Gain:	5,393 Btuh	15 %	
Total Cooling Required:	36,441 Btuh	3.04	Tons (Based On Sensible + Latent)
		3.37	Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Air Sys CFM
---Zone 1---										
1	Master Bedroom	315	8,902	116	2-6	526	4,482	1,273	206	206
2	Master Bath	146	4,487	59	1-7	496	2,875	553	132	132
3	Master W.I.C	96	1,478	19	1-4	447	848	216	39	39
4	Bath 2	76	307	4	1-3	635	676	0	31	31
5	Bedroom 2	213	3,144	41	1-7	478	2,774	558	128	128
6	Bedroom 3	193	3,341	44	1-7	514	2,980	513	137	137
7	Utility Room	140	1,856	24	1-5	604	1,788	216	82	82
8	Kitchen	169	2,470	32	1-8	508	3,847	491	177	177
9	Dining Room	184	8,290	108	2-6	585	4,984	611	230	230
10	Living Room	458	9,755	127	2-7	479	5,552	962	256	256
11	Hall	98	396	5	1-2	505	239	0	11	11
	AED Excursion						243			
	System 1 total	2,088	44,426	580			31,292	5,393	1,430	1,430

System 1 Main Trunk Size: 17x16 in.
Velocity: 809 ft./min
Loss per 100 ft.: 0.069 in.wg

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	3.06	85% / 15%	31,292	5,393	36,685
Recommended:	3.39	77% / 23%	31,292	9,347	40,638
Actual:	3.33	76% / 24%	30,400	9,600	40,000

Equipment Data

	Heating System	Cooling System
Type:	air source heat pump	Air Source Heat Pump
Model:	ASH130421+ARPF364216+HKR-10	ASH130421+ARPF364216
Brand:	Amana	Amana
Efficiency:	8.0 HSPF	13 seer
Sound:	0	
Capacity:	39.000	40000
Sensible Capacity:	n/a	30,400 Btuh
Latent Capacity:	n/a	9,600 Btuh

Schafer Engineering, LLC

14952 Main St. Alachua FL 32615

Prepared for:

MUNN & TANHAUSER RESIDENCE
744 SW UNITY CT
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By:

Schafer Engineering, LLC

386-462-1340 / 352-375-6329

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Trusses: Pre-engineered with manufacturer's required bracing system installed.
Roof sheathing: Type OSB Size 7/16 Fastener type nails 8d/.113 Ring Shank

Interior zone spacing: Interior 6 in. Periphery 3 in.
Edge and end zone spacing: Interior 6 in. Periphery 3 in.

Top double pl: Type Spruce Grade #1 #2 Size 2 x 4 Nail spacing 8 in.

Studs: Type Spruce Grade #1 #2 Size 2 x 4
Interior stud spacing 16 in. Composite (yes or no) Y
End stud spacing 16 in. Composite (yes or no) Y

Shearwall siding: Type OSB Thickness 7/16 in.
40' — Trans: Fastener 8d / 131 Spacing: Int 8 in. Edge 3 in.
39' — Long: Fastener 8d / 131 Spacing: Int 8 in. Edge 3 in.

Allowable unit shear on shearwalls: 418 **pounds per linear foot**
Unit shear transferred from diaphragm: Trans: 385 Long: 127

Wall tension transferred by: Siding nails 8d/131 @ 3 O.C. edges

Foundation anchor bolts: Concrete strength 3000 psi Size 1/2 in. Shape L
Washer 2" Embedment 7 in. Location of first anchor bolt from corner 8 in.

Anchor Bolts @ 48" O.C. Model A307 Loc. from corner 8 in.

Type of foundation: 1 #5 rebar continuous required in bond beam.
Floor slab 4 in. CMU: Size 8 x 16 in. Height 24 in. Reinf. # 5 at 72 in.
Monolithic footing: Depth 20 in. Bottom width 12 in. Reinf. 2 # 5 bars

Footing: Width 20 in. Depth 10 in. Reinforcing 2 # 5 bars
Interior Footings: 16" W X 10" D

Porch Columns: 6X6X9'SYP #4PT @ 144" OC MAX **Column Fasteners:** Simpson CC66/PA42 OR EQUAL

Special Comments: Install ceiling diaphragm on open porch using same grade material nail size & nail pattern as roof sheathing. Install 24"x24"x16" deep w/3 #5 rebar each way.

NOTE:
1. Balloon frame ALL gable ends unless this summary is accompanied by Gable End Wall Brace detail.
2. All trusses must bear on exterior walls & porch beams.
3. All walls to be nailed with same nailing pattern as shear walls.
4. This is a wind load only, NOT a structural analysis.
5. This wind load is not valid without a raised, embossed seal.
6. It is assumed that ideal soil conditions and pad preparations are provided.
7. Fiber mesh or WWM may be used in concrete slab.
8. Trusses must be anchored and supported in accordance to the truss engineering.
9. Wind design and analysis valid for one use only, no copies permitted.
10. The foundation is for minimum design use and may be increased.
11. All headers over 12 feet to be pre-engineered.

1-28-04

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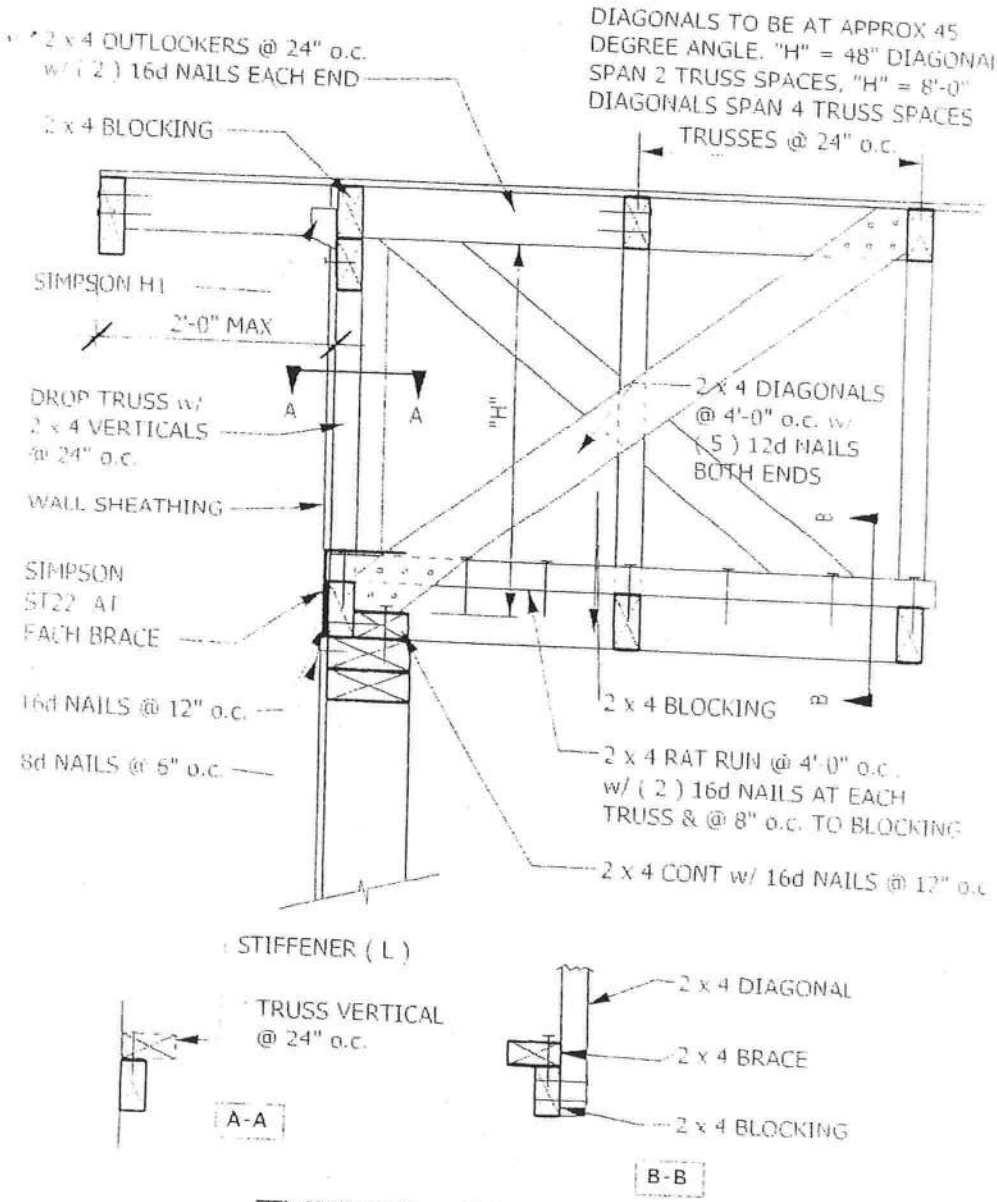

TYPICAL GABLE END BRACING

1-28-08

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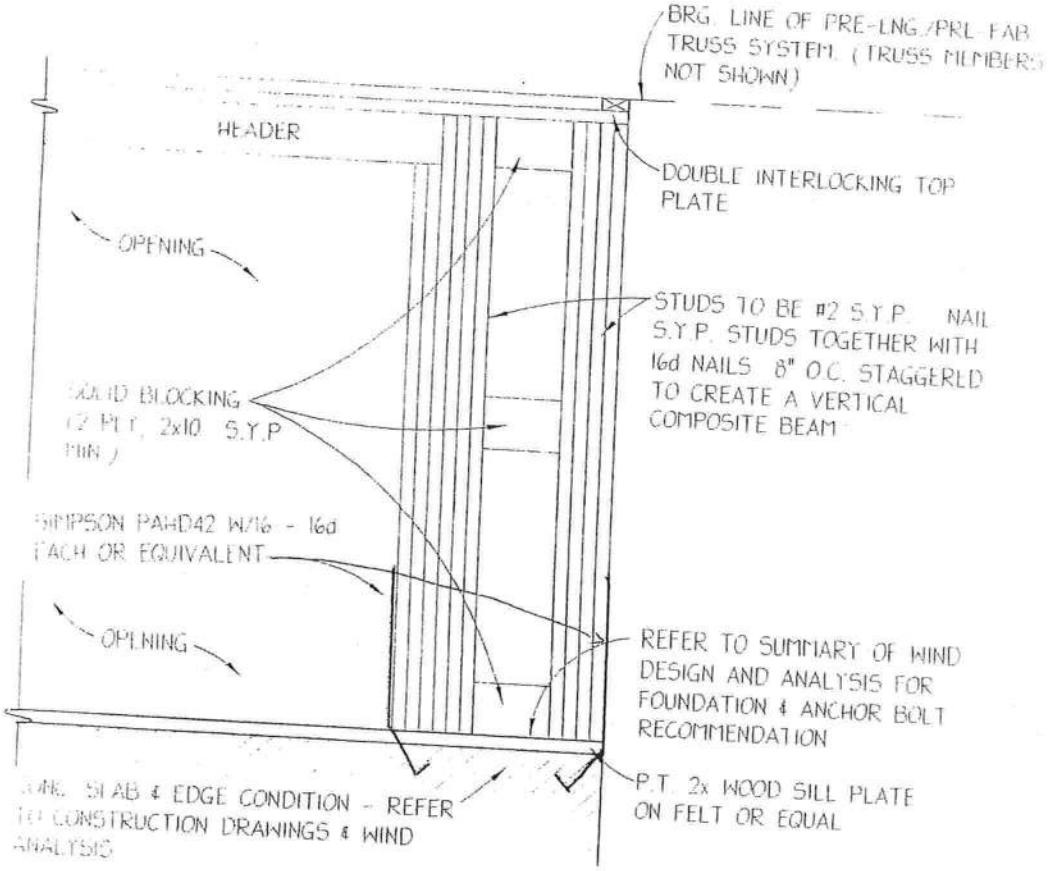

MINIMUM 2'-0" SHEAR WALL SEGMENT

ACTIONABLE EQUIVALENT SHEAR WALL EQUAL TO 1.5 TIMES THE ACTUAL WALL SEGMENT LENGTH. MINIMUM WALL SEGMENT LENGTH OF 2'-0" WHICH EQUATES TO A 3'-0" SHEAR WALL SEGMENT. SEE WINDLOAD ANALYSIS FOR NAIL SIZES AND SPACING ON SHEATHING.

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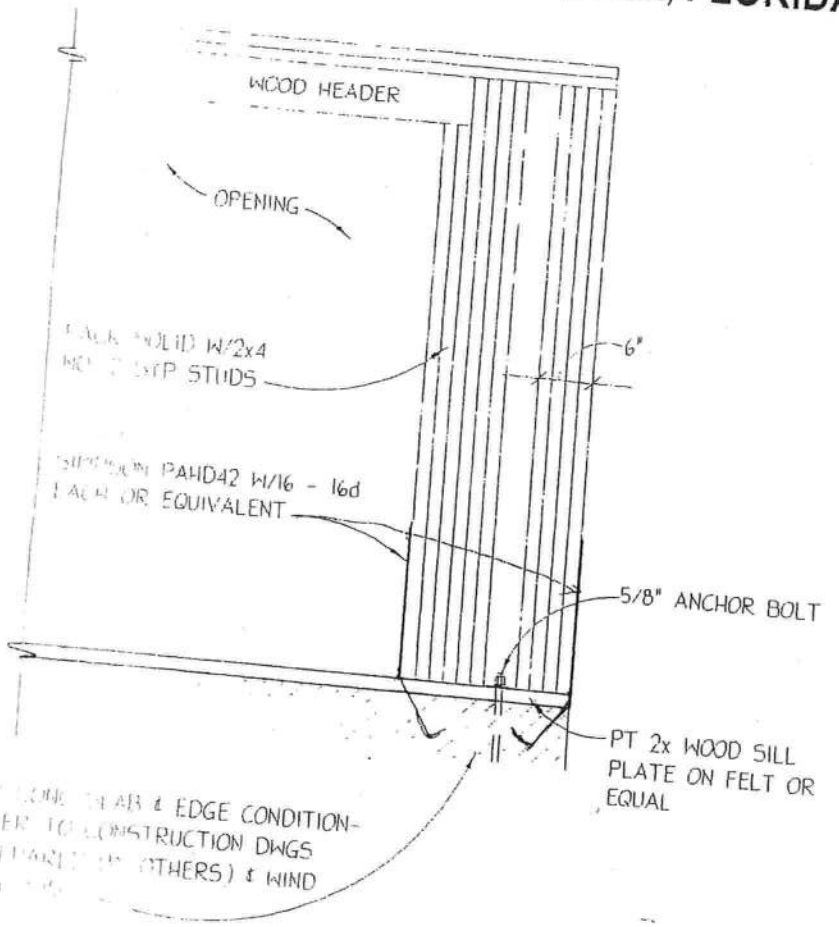

FRONT VIEW

SIDE VIEW

EQUIVALENT 3'-0" SHEAR WALL SEGMENT

1-28-08

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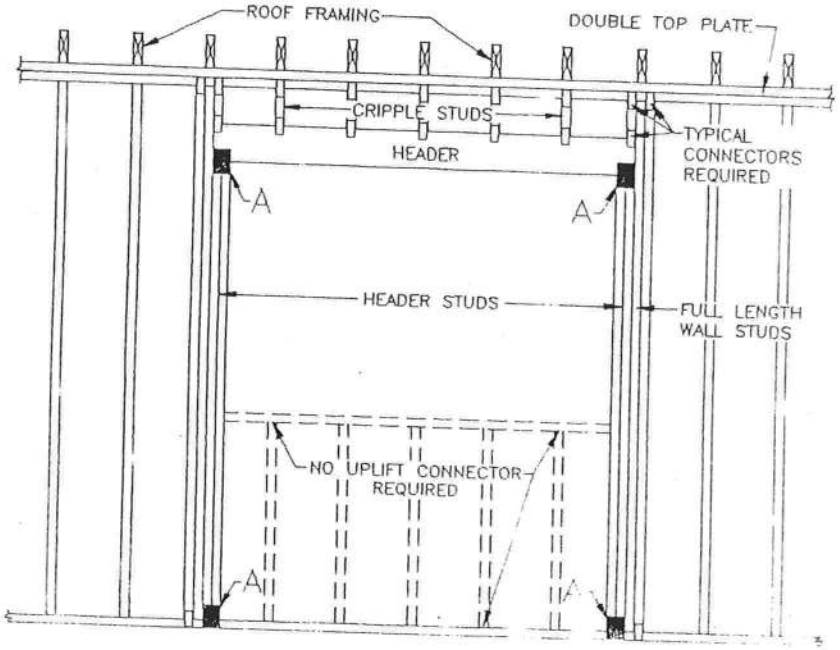
Unsupported Wall Height	Stud Spacing	Maximum Header Span (ft.)					
		3'	6'	9'	12'	15'	18'
		Number of Header Studs Supporting End of Header					
		1[1]	1	2	2	2	2
		Number of Full-Length Studs at Each End of Header					
10' or less	12 in.	2	2	3	3	3	3
	16 in.	2	2	3	3	3	3
	24 in.	1	2	2	2	2	2
greater than 10'	12 in.	2	2	3	4	5	5
	16 in.	2	2	3	3	4	4
	24 in.	1	2	2	2	3	3

1. The header stud shall not be required if the header is supported by a suitable framing anchor.

Uplift connection requirement at points A (top and bottom of header studs). Uplift load per framing member above the header from Table 307F1 or 307A, as appropriate, multiplied by the number of framing members displaced divided by two

NOTE. Uplift connection is required at each end of header and at bottom of header studs in addition to connectors at wall studs and at top and bottom of cripples



TIE-DOWN TABLES

HEADERS				
Uplift Force Lbs	Top Connector **	Rating Lbs	Bottom Connector **	Rating Lbs
to 455	LSTA9	725	H3	455
to 910	LSTA12	905	2-H3	910
to 1265	LSTA18	1265	LTT19	1350
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2565
to 2865	3-LSTA18	3255	HD2A-3.5	2865
to 3700	3-LSTA24	3880	HD5A-3	3700

Total uplift for each truss resting on the header and divide by 2 to determine the uplift force.
Use proper bolt anchors sufficient to support required load.

TRUSSES/GIRDERS		
Uplift Force Lbs	Top Connector **	Bottom Connector **
to 500	H2.5	N/A
501-1049	H10	N/A
1050-1350	TS22	LTT19
1351-1750	2-TS22	LTT20
1751-2570	2-TS22	HD2A
2571-3665	3-TS22	HD5A
3666-5260	2-MST148	HTT22
5261-8300	2-MST48	HD10A

Two 12d common toenails are required per truss/rafter per bearing point into plate.
Use proper bolt anchors.
Strap rafters to truss or at each end with minimum uplift resistance of 450# each end.
Strap ridge beam at each end with minimum uplift resistance of 1000#.
It is the contractors' responsibility to provide a continuous load path from truss/rafter/ridge beam to foundation.

	Top Connector **	Rating Lbs	Bottom Connector **	Rating
BEAM SEATS	LSTA18*	1200	LTT19*	1250
POSTS (max 17' spacing)	2-LSTA18	2400	ABU44	2300

*or per truss engineering
Use proper bolt anchors
All beams to be sheathed or strapped to Double Top Plate when applicable.

CRIPPLES	Sheathing nailing alone adequate w/8d nails @ 3" O.C.

STUDS
Wall sheathing nailing Adequate exterior walls bottom w/8d nails.
Use SP1 & SP2 @32" O.C. on all interior non-sheathed bearing walls.
Interior anchor bolts to be ½" x 8" A307 or ½" x 7" wedge anchor or equivalent.

** Equivalent Simpson hardware, or other manufacturer, may be substituted for any of the hardware specified on this page as long as it meets the required load capacities/uplift resistance.

NOTE:

1. For nailing into SPF members, multiply table values by .86
2. See truss engineering for anchor tie-down values.

ASCE 7-02

1/18/08

Wind Load Design per ASCE 7-02

User Input Data		
Structure Type	Building	
Basic Wind Speed (V)	110	mph
Structural Category	II	
Exposure	B	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof (Theta)	30.3	Deg
Type of Roof	Gabled	
Eave Height (Eht)	9.00	ft
Ridge Height (RHt)	24.97	ft
Mean Roof Height (Ht)	17.98	ft
Width Perp. to Wind (B)	52.00	ft
Width Parallel to Wind (L)	74.00	ft
Damping Ratio (beta)	0.01	

Red values should be changed only through "Main Menu"

Calculated Parameters		
Type of Structure		
Height/Least Horizontal Dim	0.35	
Flexible Structure	No	

Calculated Parameters		
Importance Factor	1	
Hurricane Prone Region (V>100 mph)		
Table C6-4 Values		
Alpha =	7.000	
zg =	1200.000	
At =	0.143	
Bt =	0.840	
Am =	0.250	
Bm =	0.450	
Cc =	0.300	
l =	320.00	ft
Epsilon =	0.333	
Zmin =	30.00	ft

Gust Factor Category I: Rigid Structures - Simplified Method			
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85	
Gust Factor Category II: Rigid Structures - Complete Analysis			
Zm	Zmin	30.00	ft
Izm	Cc * (33/z)^0.167	0.3048	
Lzm	l*(zm/33)^Epsilon	309.99	ft
Q	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	0.8956	
Gust2	0.925*((1+1.7*Izm*3.4*Q)/(1+1.7*3.4*Izm))	0.8634	
Gust Factor Category III: Flexible or Dynamically Sensitive Structures			
Vhref	V*(5280/3600)	161.33	ft/s
Vzm	bm*(zm/33)^Am*Vhref	70.89	ft/s
NF1	NatFreq*Lzm/Vzm	4.37	Hz
Rn	(7.47*NF1)/(1+10.302*NF1)^1.667	0.0552	
Nh	4.6*NatFreq*Ht/Vzm	1.17	
Nb	4.6*NatFreq*B/Vzm	3.37	
Nd	15.4*NatFreq*Depth/Vzm	16.08	
Rh	1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))	0.5254	
Rb	1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))	0.2525	
Rd	1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))	0.0603	
RR	((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^0.5	0.6393	
gg	+(2*LN(3600*n1))^0.5+0.577/(2*LN(3600*n1))^0.5	4.19	
Gust3	0.925*((1+1.7*Izm*(3.4^2*Q^2+GG^2*RR^2)^0.5)/(1+1.7*3.4*Izm))	1.04	

Gust Factor Summary			
Main Wind-force resisting system:		**Components and Cladding:**	
Gust Factor Category:	I	Gust Factor Category:	I
Gust Factor (G)	0.86	Gust Factor (G)	0.86

ASCE 7-02

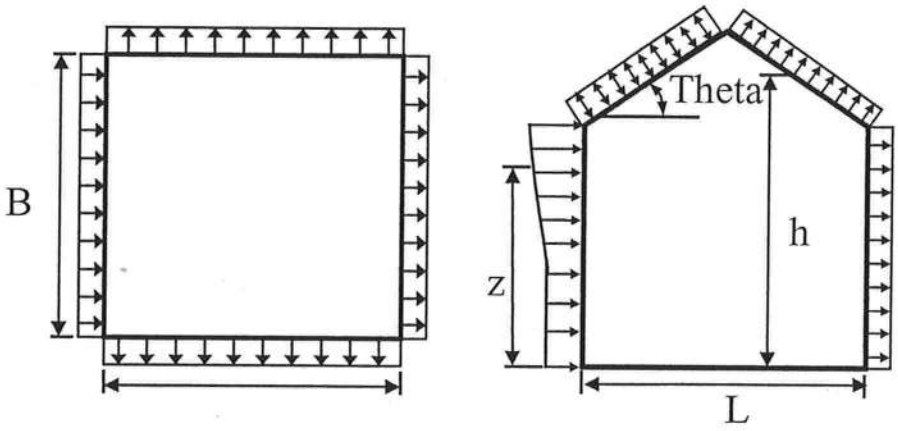
Wind Load Design per ASCE 7-02

6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev. ft	Kz	Kzt	Kd 1.00	qz lb/ft^2	Pressure (lb/ft^2) Windward Wall* +GCpi	-GCpi
24.97	0.70	1.00	1.00	21.70	11.62	18.36
20	0.70	1.00	1.00	21.70	11.62	18.36
17.98	0.70	1.00	1.00	21.70	11.62	18.36
15	0.70	1.00	1.00	21.70	11.62	18.36

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	2.01*(Ht/zg)^(2/Alpha)	0.61	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	.00256*(V)^2*ImpFac*Kh*Kht*Kd	18.75	psf

Wall Pressure Coefficients, Cp	
Surface	Cp
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80

Roof Pressure Coefficients, Cp	
Roof Area (sq. ft.)	-
Reduction Factor	1.00

Description	Cp	Pressure (psf) +GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 52 ft wall)	-0.42	-10.10	-3.35
Leeward Walls (Wind Dir Parallel to 74 ft wall)	-0.50	-11.47	-4.72
Side Walls	-0.70	-14.71	-7.96
Roof - Normal to Ridge (Theta>=10)			
Windward - Max Negative	-0.19	-6.42	0.33
Windward - Max Positive	0.31	1.58	8.33
Leeward Normal to Ridge	-0.60	-13.09	-6.34
Overhang Top	-0.19	-3.04	-3.04
Overhang Bottom	0.80	0.69	0.69
Roof - Parallel to Ridge (All Theta)			
Dist from Windward Edge: 0 ft to 8.99 ft	-0.90	-17.94	-11.19

ASCE 7-02

Wind Load Design per ASCE 7-02

Dist from Windward Edge: 8.99 ft to 17.98 ft	-0.90	-17.94	-11.19
Dist from Windward Edge: 17.98 ft to 35.96 ft	-0.50	-11.47	-4.72
Dist from Windward Edge: > 35.96 ft	-0.30	-8.23	-1.48

* Horizontal distance from windward edge

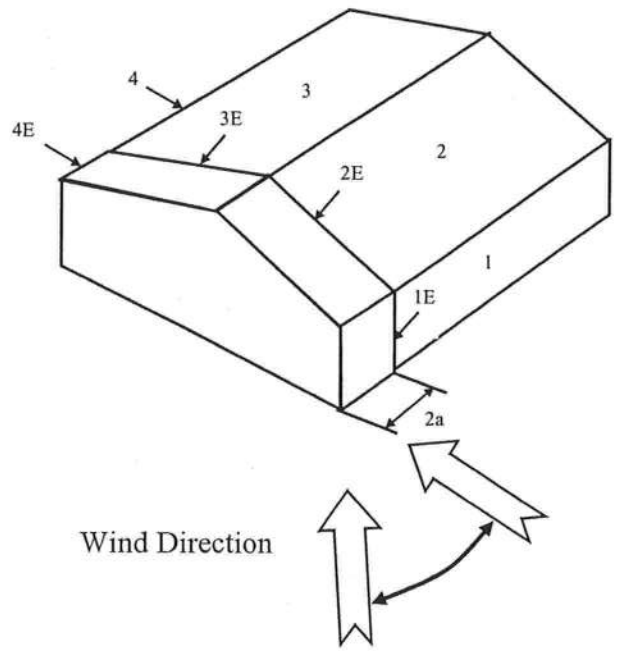
Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.61
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	18.75

Case A						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	0.56	0.18	-0.18	21.70	8.25	16.06
2	0.21	0.18	-0.18	21.70	0.65	8.46
3	-0.43	0.18	-0.18	21.70	-13.24	-5.43
4	-0.37	0.18	-0.18	21.70	-11.94	-4.12
5	0.00	0.18	-0.18	21.70	-3.91	3.91
6	0.00	0.18	-0.18	21.70	-3.91	3.91
1E	0.69	0.18	-0.18	21.70	11.07	18.88
2E	0.27	0.18	-0.18	21.70	1.95	9.77
3E	-0.53	0.18	-0.18	21.70	-15.41	-7.60
4E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
5E	0.00	0.18	-0.18	21.70	-3.91	3.91
6E	0.00	0.18	-0.18	21.70	-3.91	3.91

* p = qh * (GCpf - GCpi)



ASCE 7-02

Wind Load Design per ASCE 7-02

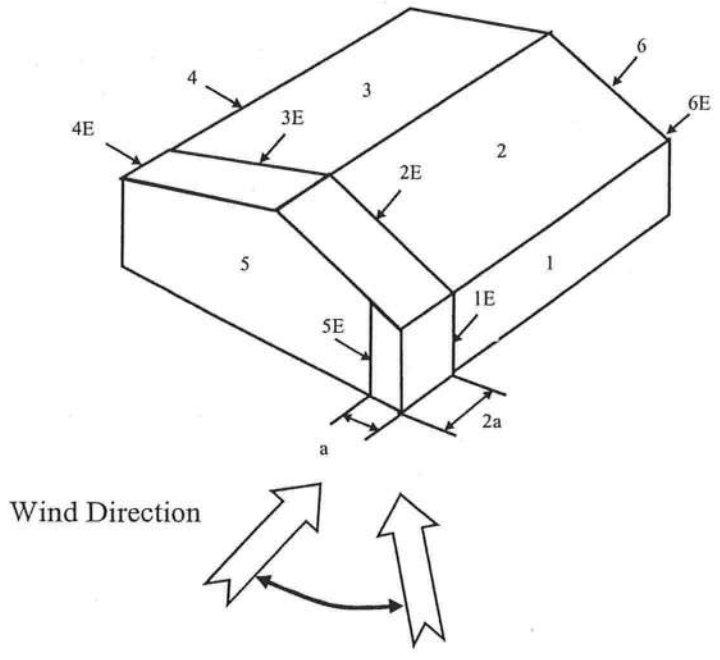
Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.61
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	18.75

Case B						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	-0.45	0.18	-0.18	21.70	-13.67	-5.86
2	-0.69	0.18	-0.18	21.70	-18.88	-11.07
3	-0.37	0.18	-0.18	21.70	-11.94	-4.12
4	-0.45	0.18	-0.18	21.70	-13.67	-5.86
5	0.40	0.18	-0.18	21.70	4.77	12.59
6	-0.29	0.18	-0.18	21.70	-10.20	-2.39
1E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
2E	-1.07	0.18	-0.18	21.70	-27.13	-19.31
3E	-0.53	0.18	-0.18	21.70	-15.41	-7.60
4E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
5E	0.61	0.18	-0.18	21.70	9.33	17.14
6E	-0.43	0.18	-0.18	21.70	-13.24	-5.43

* p = qh * (GCpf - GCpi)

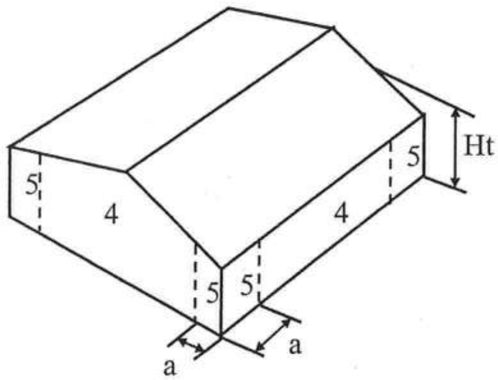


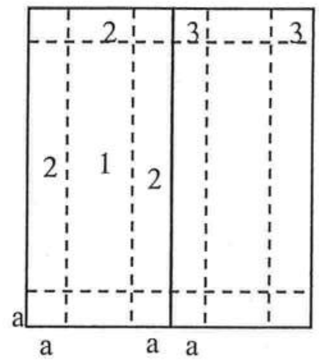
ASCE 7-02

Wind Load Design per ASCE 7-02

Figure 6-5 - External Pressure Coefficients, GCp

Loads on Components and Cladding for Buildings w/ Ht <= 60 ft





Gabled Roof
10 < Theta <= 45

a = 5.2 ==> 5.20 ft

Component	Width (ft)	Length (ft)	Area (ft^2)	Zone	GCp Max	GCp Min	Wind Press (lb/ft^2) Max	Wind Press (lb/ft^2) Min
	16	7	112.00	5	0.81	-1.03	18.65	-22.67
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
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	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					

Note: * Enter Zone 1 through 5, or 1H through 3H for overhangs.

Table 6-7 Internal Pressure Coefficients for Buildings, Gcpi

ASCE 7-02

Wind Load Design per ASCE 7-02

Condition	Gcpi	
	Max +	Max -
Open Buildings	0.00	0.00
Partially Enclosed Buildings	0.55	-0.55
Enclosed Buildings	0.18	-0.18
Enclosed Buildings	**0.18**	**-0.18**

Table 6-8 External Pressure Coefficients for Arched Roofs, Cp

r (Rise-to-Span Ratio) = 0.3

Condition	Variable	Cp		
		Windward Quarter	Center Half	Leeward Quarter
Roof on Elevated Structure	Cp	0.13	-1	-0.5
	P (+GCpi) - psf	-1.35	-19.56	-11.47
	P (-GCpi) -psf	5.40	-12.81	-4.72
Roof Springing from Ground	Cp	0.42	-1	-0.5
	P (+GCpi) - psf	3.42	-19.56	-11.47
	P (-GCpi) -psf	3.42	-19.56	-11.47

Table 6-9 Force Coefficients for Monoslope Roofs over Open Buildings, Cf

Variable	Description	Value	
L	Roof dimension normal to wind direction	74.00	ft
B	Roof dimension parallel to wind direction	52.00	ft
L/B	Ratio of L to B	1.423	
Theta	Slope of Roof	30.3	Deg
Cf	Force Coefficient	0.00	
X	Distance to center of pressure from windward edge	0.00	ft

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 24-7S-16-04309-000 **Building permit No.** 000026863

Use Classification SFD/UTILITY **Fire:** 0.00

Permit Holder J. DOUG WHITTED **Waste:**

Owner of Building TERRENCE MUNN **Total:** 0.00

Location: 744 SW UNITY COURT, FT. WHITE, FL

Date: 08/08/2008

Wayne A. Russ

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

26863

PREPARED BY:
Brenda Mayweather
Robertson & Anschutz
10333 Richmond Avenue, Suite 550
Houston, TX 77042

AFTER RECORDED RETURN TO:

Bank of America, N.A.
9000 Southside Blvd., Ste. 700
Jacksonville, FL 32256

Inst 200812006047 Date 3/27/2008 Time 12:58 PM
DC,P DeWitt Cason,Columbia County Page 1 of 4 B 1146 P 1670

NOTICE OF COMMENCEMENT

Permit No. _____ Tax Folio No. _____

State of Florida
County of Columbia

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

1. Description of Property: Parcel No. _____
744 Southwest Unity Court
Fort White, FL 32038

See Exhibit "A" attached hereto and made a part hereof for all purposes
(Legal description of the property and street address if available)

2. General Description of Improvement:

construction of house

3. Owner Information:
Name: **Susan Tanhauser, a single person and Terence E. Munn, a single person**
Address: **1210 SW 218th Street**
Newberry, FL 32669
Interest in Property: _____

Fee Simple Titleholder (if other than owner):
Name: **Susan Tanhauser, a single person and Terence E. Munn, a single person**
Address: **1210 SW 218th Street**
Newberry, FL 32669

4. Contractor:
Name: **Doug Whitted Construction Company, LLC**
Address: **221 Riley Lake Drive**
Hawthorne FL 32640
Phone: **352-262-8337**

5. Surety:
Name: _____
Address: _____
_____
Phone: _____ Amount of Bond: $ _____

6. Lender:
Name: **Bank of America, N.A.**
Address: **1201 Main Street, 11th Floor, Dallas, TX 75202-0000**
Phone: **877-719-6142**

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)(7), Florida Statutes
Name: _____
Address: _____
Phone numbers of designated persons: _____

8. In addition to himself or herself, Owner designates _____ of _____ to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
Phone number of person or entity designated by owner: _____

9. Expiration date of Notice of Commencement (the expiration date is (1) year from the date of recording unless specified): _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 71 3.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMITMENT.

Susan Tanhauser
Signature of Owner or Owner's Authorized Officer/Director/Partner/Manager

Signatory's Title/Office

State of FL
County of Alachua

The foregoing instrument was acknowledged before me this 18 day of March 2008 by Terrence Munn & Susan Tanhauser who is personally known to me or has produced FL DL as identification.

Lisa E. Davis
Notary Public

Lisa E. Davis
Printed Name
My Commission Expires:

NOTARY PUBLIC * STATE OF FLORIDA *
Lisa E. Davis
Commission # DD536598
Expires June 2, 2010
Bonded Troy Fain - Insurance Inc 800-365-7019

Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Terrence E. Munn / Susan Tanhauser
Signature of Natural Person Signing Above

Loan No.: 6107296441

EXHIBIT "A"

EXHIBIT A

A part of the NW ¼ of the SE ¼ of Section 24, Township 7 South, Range 16 East, more particularly described as follows: Commence at the NW corner of the SW ¼ of the NE ¼ of said Section 24 and run N 89° 02' 33" E, along the North line thereof, 11.16 feet to a point on the East right-of-way line of Shiloh Church Road; thence S 01° 05' 04" E, along said East right-of-way line, 1677.53 feet for a POINT OF BEGINNING; thence N 89° 02' 33" E, 1293.31 feet to a point on the East line of the NW ¼ of said SE ¼; thence S 00° 39' 08" E, along the East line thereof 338.05 feet; thence S 89° 02' 33" W, 1286.40 feet to a point on the East right-of-way line of said Shiloh Church Road; thence N 01° 49' 22" W. along said East right-of-way line 338.09 feet to the POINT OF BEGINNING, Columbia County, Florida.

TBM ST

26863

Notice of Treatment 44971

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 116 NW 16 AVE
City GVILLE Phone 376-2661

Site Location: Subdivision
Lot # Block# Permit #
Address 744 UNITY CT FORT WHITE

Product used	Active Ingredient	% Concentration
☐ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☐ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
FOOTERS/PIER PADS	408	252	21

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

3/27/08 Date | 11:37 Time | BILL E. Print Technician's Name

Remarks:

Applicator - White Permit File - Canary Permit Holder - Pink

10/05 ©