DATE 04/08/2010

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000028471

APPLICANT JAMES O'STEEN PHONE 497-2436

ADDRESS 479 SW SEDGEFIELD LANE FORT WHITE FL 32038

OWNER JAMES O'STEEN PHONE 497-2436

ADDRESS 479 SW SEDGEFIELD LANE FORT WHITE FL 32038

CONTRACTOR OWNER BUILDER PHONE

LOCATION OF PROPERTY 47 S, L SEDGEFIELD LN, AT CUL-DE-SAC DRIVE THROUGH WOODED LANE TO RESIDENCE

TYPE DEVELOPMENT ADDITION TO SFD ESTIMATED COST OF CONSTRUCTION 28350.00

HEATED FLOOR AREA 525.00 TOTAL AREA 567.00 HEIGHT 19.00 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING AG-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 X DEVELOPMENT PERMIT NO.

PARCEL ID 03-6S-16-03767-122 SUBDIVISION SEDGEFIELD S/D

LOT 22 BLOCK PHASE 1 UNIT TOTAL ACRES 5.14

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
EXISTING	09-0637-E	BK	HD	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: HABITABLE FLOOR ONE FOOT ABOVE THE ROAD OR MATCH EXISTING HOUSE IF HOUSE IS MORE THAN ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash CASH

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 | Insulation _____ 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 | Pool _____ date/app. by

Permanent power _____ date/app. by | C.O. Final _____ date/app. by | Culvert _____ date/app. by

Pump pole _____ date/app. by | Utility Pole _____ date/app. by | M/H tie downs, blocking, electricity and plumbing _____ date/app. by

Reconnection _____ date/app. by | RV _____ date/app. by | Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 145.00 CERTIFICATION FEE $ 2.83 SURCHARGE FEE $ 2.83

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** 225.66

INSPECTORS OFFICE L. H. 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 NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

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

Columbia County Building Permit Application

For Office Use Only Application # 1002-21 Date Received 2-15-10 By LH Permit # 28471

Zoning Official BLK Date 18-02-10 Flood Zone X Land Use A-3 Zoning A-3

FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner HD Date 2-24-10

Comments ☐ Product Approval

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

☐ Dev Permit # ☐ In Floodway ☑ Letter of Auth. from Contractor ☐ F W Comp. letter

IMPACT FEES: EMS Fire Corr Road/Code ☑ Existing Well

School = TOTAL N/A addition to existing dwelling ☑ Owner Disclosure Statement

Septic Permit No. 09-0637-E (352) 225-6920 Fax ☑ App. Fee Paid

Name Authorized Person Signing Permit James O'Steen Phone 497-2436

Address 479 SW Sedgefield Ln, Ft. White, FL 32038

Owners Name JAMES OSTEEN Phone 386-497-2436

911 Address 479 SW SEDGEFIELD LANE FORT WHITE, FLA. 32038

Contractors Name OWNER/BUILDER Phone

Address

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Driscoll Engineering, Inc. PO Box 357577 Gville, FL 352-331-1213

Mortgage Lenders Name & Address N/A 3261

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

Property ID Number 03-6S-16-03767-122 Estimated Cost of Construction 20,000.00

Subdivision Name Sedgefield S/D Lot 22 Block Unit Phase 1

Driving Directions HWY 47 SOUTH TO SEDGEFIELD LANE, TURN LEFT, GO TO CULDE-SAC, DRIVE THROUGH WOODED LANE TO RESIDENCE

Number of Existing Dwellings on Property 1

Construction of Addition to SFD (East only) Total Acreage 5.14 Lot Size 5.14

Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive) Total Building Height 19'

Actual Distance of Structure from Property Lines - Front 230' Side 265' Side 308' Rear 230'

Number of Stories 1 Heated Floor Area 525 Total Floor Area 567 Roof Pitch 6/12

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

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: 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 work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

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.

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.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. It may be to your advantage to check and see if your property is encumbered by any restrictions.

(Owners Must Sign All Applications Before Permit Issuance.)

_____
Owners Signature ****OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

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 including all application and permit time limitations.

(Owner Builder) Has Disclosure on file.

_____ **Contractor's License Number**_____
Contractor's Signature (Permitee) **Columbia County**
Competency Card Number_____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this ____ day of _____ 20___.

Personally known_____ or Produced Identification_____

_____ **SEAL:**

State of Florida Notary Signature (For the Contractor)

PRODUCT APPROVAL SPECIFICATION SHEET

Location: D'steen **Project Name:** 1002-21

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 www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	RELIABUILT	STEEL PREHUNG ENTRY DOOR	FL 18
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider	PELLA	VINYL SLIDING WINDOW (CLEAR)	FL11161-R1 HSR30 DP+30/-30
3. Casement	PGE		
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			
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	OWENS/CORNING	ALGAE RESISTANT SHINGLE 20YR	FL10674-R2
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
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	ANCHORS	FL2355-R3
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 inspectio

Contractor or Contractor's Authorized Agent Signature

Print Name

Date

Location

Permit # (FOR STAFF USE ONLY)

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1002-21 CONTRACTOR OWNER/BUILDER PHONE 386 497 2436

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name JAMES OSTEEN License #:	Signature James OSteen Phone #:
MECHANICAL/ A/C	Print Name Timothy E. Hough License #: CAC 1814667	Signature Phone #: 352 494 6984
PLUMBING/ GAS	Print Name JAMES OSTEEN License #:	Signature Phone #:
ROOFING	Print Name License #:	Signature Phone #:
SHEET METAL	Print Name License #:	Signature Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name License#:	Signature Phone #:
SOLAR	Print Name License #:	Signature Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	00310	Larry Parrish	Larry Parrish
CONCRETE FINISHER	00310	Larry Parrish	
FRAMING	FYI: (W/C Exemption Expires 2/25/10)	JAMES OSTEEN	James OSteen
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST REQUIRMENTS

MINIMUM PLAN REQUIREMENTS FOR THE FLORIDA BUILDING CODE RESIDENTIAL 2007 ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current 2007 FLORIDA BUILDING CODES RESIDENTIAL. ALL PLANS OR DRAWINGS SHALL PROVIDE 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 FLORIDA BUILDING CODES RESIDENTIAL (Florida Wind speed map) **SHALL BE USED.**

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

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

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			Items to Include- Each Box shall be Circled as Applicable		
				Yes	No	N/A
1	Two (2) complete sets of plans containing the following:			✓		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void			✓		
3	Condition space (Sq. Ft.)		Total (Sq. Ft.) under roof	IIIIIIII	IIIIIIII	IIIII

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 as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

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

Wind-load Engineering Summary, calculations and any details required

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	IIIIII	IIIII	IIIIII
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	✓		
11	Wind importance factor and nature of occupancy	✓		
12	The applicable internal pressure coefficient, Components and Cladding	✓		
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	✓		

Elevations Drawing including:

14	All side views of the structure	✓		
15	Roof pitch	✓		
16	Overhang dimensions and detail with attic ventilation	✓		
17	Location, size and height above roof of chimneys	✓		
18	Location and size of skylights with Florida Product Approval	✓		
18	Number of stories	✓		
20A	Building height from the established grade to the roofs highest peak	✓		

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	✓		
21	Raised floor surfaces located more than 30 inches above the floor or grade	✓		
22	All exterior and interior shear walls indicated	✓		
23	Shear wall opening shown (Windows, Doors and Garage doors)	✓		
24	Emergency escape and rescue opening shown in each bedroom (net clear opening shown)	✓		
25	Safety glazing of glass where needed	✓		
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FBCR)			
27	Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FBCR SECTION 311)			
28	Identify accessibility of bathroom (see FBCR SECTION 322)			

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plan (see Florida product approval form)

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable

FBCR 403: Foundation Plans

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.			
30	All posts and/or column footing including size and reinforcing			
31	Any special support required by soil analysis such as piling.			
32	Assumed load-bearing valve of soil_____ Pound Per Square Foot			
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type)			

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)			
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports			

FBCR 320: PROTECTION AGAINST TERMITES

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. **Protection shall be provided by registered termiticides**			

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type			
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement			

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer			
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers			
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers			
42	Attachment of joist to girder			
43	Wind load requirements where applicable			
44	Show required under-floor crawl space			
45	Show required amount of ventilation opening for under-floor spaces			
46	Show required covering of ventilation opening			
47	Show the required access opening to access to under-floor spaces			
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &			

48	intermediate of the areas structural panel sheathing	✓		
49	Show Draftstopping, Fire caulking and Fire blocking	✓		
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 309	✓		
51	Provide live and dead load rating of floor framing systems (psf).	✓		

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	✓		
53	Fastener schedule for structural members per table FBCR 602.3 are to be shown			
54	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	✓		
55	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	✓		
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCR Table 502.5 (1)	✓		
57	Indicate where pressure treated wood will be placed	✓		
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	✓		
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	✓		

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.10 Wood trusses	✓		
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	✓		
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	✓		
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	✓		
64	Provide dead load rating of trusses	✓		

FBCR 802:Conventional Roof Framing Layout

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

FBCR Table 602,3(2) & FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	✓		
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	✓		

FBCR ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assembles covering			
72	Submit Florida Product Approval numbers for each component of the roof assembles covering			

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter11 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*

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure			
74	Attic space			
75	Exterior wall cavity			
76	Crawl space			

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study			
78	Exhaust fans locations in bathrooms			
79	Show clothes dryer route and total run of exhaust duct			

Plumbing Fixture layout shown

80	All fixtures waste water lines shall be shown on the foundation plan			
81	Show the location of water heater			

Private Potable Water

82	Pump motor horse power			
83	Reservoir pressure tank gallon capacity			
84	Rating of cycle stop valve if used			

Electrical layout shown including

85	Switches, outlets/receptacles, lighting and all required GFCI outlets identified			
86	Ceiling fans			
87	Smoke detectors & Carbon dioxide detectors			
88	Service panel, sub-panel, location(s) and total ampere ratings			
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.			

90	Appliances and HVAC equipment and disconnects			
91	Arc Fault Circuits (AFCI) in bedrooms			

Disclosure Statement for Owner Builders *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	**Building Permit Application** A current Building Permit Application form is to be completed and submitted for all residential projects			
93	**Parcel Number** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested			
94	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058			
95	**City of Lake City** A permit showing an approved waste water sewer tap			
96	**Toilet facilities shall be provided for all construction sites**			
97	**Town of Fort White** (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			
98	**Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations			
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the base flood elevation (100 year flood) has been established			
100	A development permit will also be required. Development permit cost is **$50.00**			
101	**Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (**$25.00**) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (**$50.00**). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.			
102	**911 Address:** If the project is located in an area where a 911 address has not been issued, then application for a 911address must be applied for and **received** through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125			

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code, Building shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the applicati or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became nu and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

When the submitted application is approved for permitting the applican will be notified by phone as to the date and time a building permit will b prepared and issued by the Columbia County Building & Zoning Department

Rec 6.00
Doc $ 196.00

RETURN TO
U. S. Title
642 N.E. Santa Fe Blvd.
High Springs, FL 32643
USH 2057

Inst: [redacted] Date:09/20/2002 Time:09:37
Doc Stamp-Deed : 196.00
DC,P.DeWitt Cason,Columbia County B:962 P:2172

PARCEL ID# PART OF 03767-000
BUYER'S TIN#

WARRANTY DEED

THIS INDENTURE, Made this 15th day of **September, 2002,** BETWEEN **SEDGFIELD LAND COMPANY, a Florida Corporation** grantor whose address is **5345 OTEGA BLVD., #7, JACKSONVILLE, FL 32210,** and **JAMES C. O'STEEN and CHARLENE M. O'STEEN, HUSBAND AND WIFE** grantee, whose post-office address is: **5950 NE 62ND PLACE, HIGH SPRINGS, FL 32643.**

[The terms "grantor" and "grantee" herein shall be construed to include all genders and singular or plural as the context indicates.]

WITNESSETH: That said grantor, for and in consideration of the sum of Ten ($10.00) Dollars, and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs, successors and assigns forever, the following described land, situate, lying and being in **COLUMBIA** County, Florida, to wit:

Lot 22, SEDGEFIELD PHASE ONE, as per plat thereof recorded in Plat Book 7, Pages 87-92, of the Public Records of Columbia County, Florida.

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

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

Signed, sealed and delivered in the presence of:

WITNESS NAIME HADLEY

WITNESS Mimi ALBRITTON

SEDGFIELD LAND COMPANY

BY _____
Lee D. Wedekind, Jr.
President

STATE OF **FLORIDA**
COUNTY OF **DUVAL**

[CORPORATE SEAL]

The foregoing instrument was acknowledged before me this 15th day of September, 2002, by Lee D. Wedekind, Jr., President of SEDGFIELD LAND COMPANY on behalf of the corporation. She/He is personally known to me or who has produced a driver's license as identification and who did take an oath.

_____
Notary Public, State of Florida
My Commission Expires:
My Commission Number:

RECORD & RETURN TO:
THIS INSTRUMENT WAS PREPARED BY: JANNETTE S. BOYD, an employee of U.S. TITLE, 642 N.E. SANTA FE BLVD., HIGH SPRINGS, FLORIDA 32643, as a necessary incident to fulfill the requirements of a Title Insurance Binder issued by it. USH-2057.

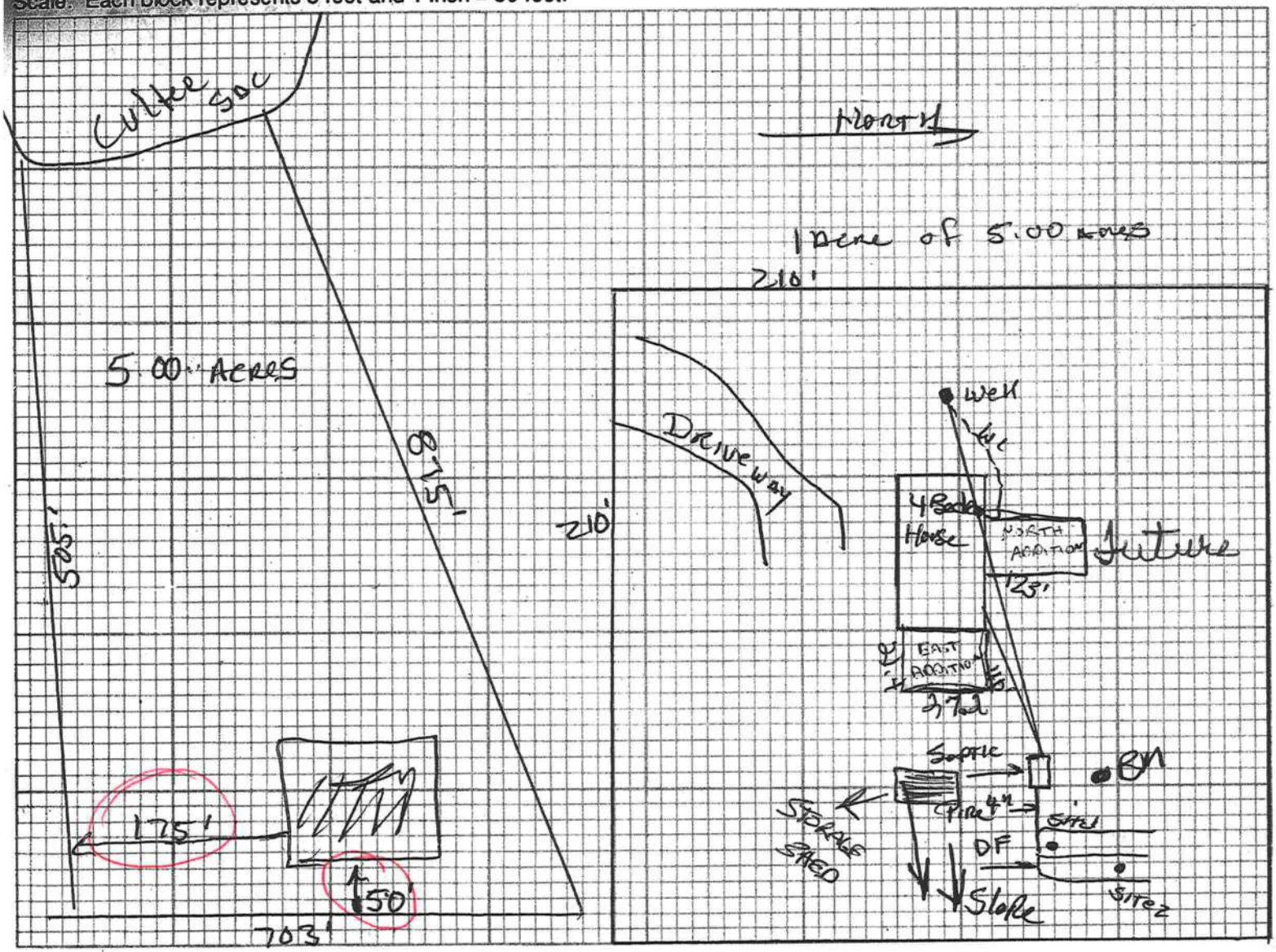
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 09-0637E

PART II - SITE PLAN

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



Notes: James & Charlene O'Steen

Lot 22 Sedgefield

03-65-16-03747-000

Site Plan submitted by JAMES OSTEEN Signature Owner Title

Plan Approved ✓ Not Approved ____ Date 12/28/09

By _____ County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 10/96 (Replaces HRS-H Form 4015 which may be used)

Columbia County Property Appraiser

DB Last Updated: 11/13/2009

2009 Tax Year

Tax Record | Property Card | Interactive GIS Map | Print

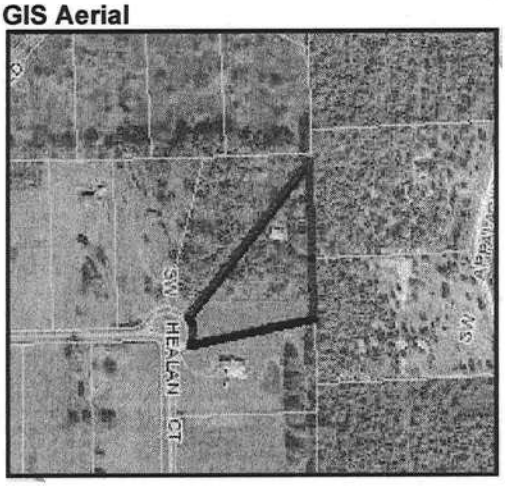
Parcel: 03-6S-16-03767-122 HX

<< Prev Search Result: 3 of 4 Next >>

Owner & Property Info

Owner's Name	O'STEEN JAMES & CHARLENE M		
Site Address	SEDGEFIELD		
Mailing Address	479 SW SEDGEFIELD LN FT WHITE, FL 32038		
Use Desc. (code)	SINGLE FAM (000100)		
Neighborhood	003616.00	**Tax District**	3
UD Codes	MKTA02	**Market Area**	02
Total Land Area	5.140 ACRES		
Description	LOT 22 SEDGEFIELD S/D PHASE 1. ORB 962-2172.		

GIS Aerial



Property & Assessment Values

Mkt Land Value	cnt: (1)	$44,631.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (1)	$98,874.00
XFOB Value	cnt: (0)	$0.00
Total Appraised Value		$143,505.00

Just Value		$143,505.00
Class Value		$0.00
Assessed Value		$143,505.00
Exemptions	(code: HX)	$50,000.00
Total Taxable Value		County: $93,505.00 | City: $93,505.00 Other: $93,505.00 | School: $118,505.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
9/15/2002	962/2172	WD	V	Q		$28,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	2008	(32)	1664	1760	$98,874.00
	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
000100	SFR (MKT)	0000001.000 LT - (0000005.140AC)	1.00/1.00/1.00/1.00	$44,631.00	$44,631.00

Columbia County Property Appraiser DB Last Updated: 11/13/2009

Inst:201012002242 Date:2/15/2010 Time:2:12 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1189 P:304

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 03-6S-16-03767-122

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this **NOTICE OF COMMENCEMENT.**

1. Description of property *(legal description):* LOT 22 SEDGEFIELD S/D PHASE I. ORB 962-2172
   a) Street *(Job)* Address: 479 SW SEDGEFIELD LANE FORT WHITE FLA. 32038
2. General description of improvements: OFFICE/DEN ADDITION TO EXISTING RESIDENCE.
3. Owner Information
   a) Name and address: JAMES OSTEEN 479 SW SEDGEFIELD LANE FORT WHITE FLA. 32038
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property OWNER
4. Contractor Information
   a) Name and address: OWNER/BUILDER
   b) Telephone No.: 386-497-2436 Fax No. (Opt.) _____
5. Surety Information
   a) Name and address: _____
   b) Amount of Bond: _____
   c) Telephone No.: _____ Fax No. (Opt.) _____
6. Lender
   a) Name and address: N/A
   b) Phone No. _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: _____
   b) Telephone No.: _____ Fax No. (Opt.) _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b). Florida Statutes:
   a) Name and address: CHARLENE OSTEEN 479 SW SEDGEFIELD LANE FORT WHITE FLA. 32038
   b) Telephone No.: 386-497-2436 Fax No. (Opt.) _____
9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is 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 I, SECTION 713.13, 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 YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. _____
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

JAMES OSTEEN
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 15 day of February, 2010, by:
James O'steen as Owner (type of authority, e.g. officer, trustee, attorney fact) for Owner (name of party on behalf of whom instrument was executed).

Personally Known ____ OR Produced Identification ✓ Type FL DL

Notary Signature _____ Notary Stamp or Seal:

LAURIE HODSON
MY COMMISSION # DD 805657
EXPIRES: July 14, 2012
Bonded Thru Notary Public Underwriters

—AND—

11. Verification pursuant to Section 92.525, Florida Statutes. 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.

_____
Signature of Natural Person Signing (in line #10 above.)

COLUMBIA COUNTY BUILDING DEPARTMENT
135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Office: 386-758-1008 Fax: 386-758-2160

OWNER BUILDER DISCLOSURE STATEMENT

I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.

I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.

I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed and bonded in Florida and to list his or her license numbers on permits and contracts.

I understand that I may build or improve a one-family or two-family residence or farm outbuilding. I may also build or improve a commercial building if the costs do not exceed $75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased with in 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.

I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.

I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.

I understand that it is frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.

I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.

I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at 850-487-1395 or Internet website address http://www.myflorida.com/dbpr/pro/cilb/index.html for more information about licensed contractors.

I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

_____.

I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual of firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

I understand that if I hire subcontractors they must be licensed for that type of work in Columbia County, ex: framing, stucco, masonry, and state registered builders. Registered Contractors must have a minimum of $300,000.00 in General Liability insurance coverage and the proper workers' compensation. Specialty Contractors must have a minimum of $100,000.00 in General Liability insurance coverage and the proper workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to Columbia County Building Department.

TYPE OF CONSTRUCTION

(X) Single Family Dwelling ( ) Two-Family Residence ( ) Farm Outbuilding

(X) Addition, Alteration, Modification or other Improvement

( ) Commercial, Cost of Construction_____ Construction of_____

( ) Other_____

I JAMES O'STEEN, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes allowing this exception for the construction permitted by Columbia County Building Permit.

James O'Steen James O'Steen 12/22/09

Owner Builder Signature Date

NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification DL

Notary Signature Gale Tedder Date 1/6/10

(Seal)

GALE TEDDER
MY COMMISSION # DD 805686
EXPIRES: July 14, 2012
Bonded Thru Notary Public Underwriters

FOR BUILDING DEPARTMENT USE ONLY

I hereby certify that the above listed owner builder has been given notice of the restriction stated above.

Building Official/Representative L. Wadsworth

Revised: 7-23-09
DISCLOSURE STATEMENT 09
Documents: B&Z Forms

FORM 1100A-08

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name:	jamie osteen addition	Builder Name:	TIMMY'S HEATING & AIR INC.
Street:		Permit Office:	Columbia County
City, State, Zip:	fort white , fl , 32038-	Permit Number:	28471
Owner:	jamie osteen addition	Jurisdiction:	221000
Design Location:	FL, Gainesville		

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	1
5. Is this a worst case?	No
6. Conditioned floor area (ft²)	525

7. Windows	Description	Area
a. U-Factor:	Dbl, U=0.57	41.00 ft²
SHGC:	SHGC=0.60	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
e. U-Factor:	N/A	ft²
SHGC:		

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	525.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	603.04 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=31.0	525.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts
a. Sup: Interior Ret: Interior AH: Attic Sup. R= 6, 50 ft²

12. Cooling systems
a. Central Unit — Cap: 500 kBtu/hr, SEER: 13

13. Heating systems
a. Electric Heat Pump — Cap: 500 kBtu/hr, HSPF: 7.7

14. Hot water systems
a. Electric — Cap: 40 gallons, EF: 0.9
b. Conservation features
None

15. Credits — Pstat

Glass/Floor Area: 0.078

Total As-Built Modified Loads: 11.38
Total Baseline Loads: 17.19

PASS

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

PREPARED BY: Timmy's Heating & Air Inc
DATE: 1-21-10

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: _____

- Compliance requires an envelope leakage test report, by a Florida Class 1 Rater, in accordance with N1113.A.1.

PROJECT

Title:	jamie osteen addition	Bedrooms:	1	Adress Type:	Street Address
Building Type:	FLAsBuilt	Bathrooms:	0	Lot #	
Owner:	jamie osteen addition	Conditioned Area:	525	SubDivision:	
# of Units:	1	Total Stories:	1	PlatBook:	
Builder Name:	TIMMY'S HEATING & AIR IN	Worst Case:	No	Street:	
Permit Office:		Rotate Angle:	0	County:	columbia
Jurisdiction:		Cross Ventilation:	No	City, State, Zip:	fort white ,
Family Type:	Single-family	Whole House Fan:	No		fl , 32038-
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS

√	#	Floor Type	Perimeter	R-Value	Area	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	67 ft	0	525 ft²	0	0	1

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Hip	Composition shingles	569 ft²	0 ft²	Medium	0.96	No	0	22.6 deg

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	525 ft²	N	N

CEILING

√	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	31	525 ft²	0.11	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	1	NE	Exterior	Frame - Wood	13	183.04 ft²	0	0.23	0.75
_____	2	SE	Exterior	Frame - Wood	13	160 ft²	0	0.23	0.75
_____	3	NW	Exterior	Frame - Wood	13	130 ft²	0	0.23	0.75
_____	4	SW	Exterior	Frame - Wood	13	130 ft²	0	0.23	0.75

DOORS

√	#	Ornt	Door Type	Storms	U-Value	Area
_____	1	NE	Wood	None	0.46	21 ft²
_____	2	SE	Wood	None	0.46	21 ft²

WINDOWS

Window orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.

√	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	NE	Metal	Double (Clear)	Yes	0.57	0.6		32 ft²	0 ft 0 in	0 ft 0 in	HERS 2006	None
_____	2	SE	Metal	Double (Clear)	Yes	0.57	0.6		9 ft²	0 ft 0 in	0 ft 0 in	HERS 2006	None

INFILTRATION & VENTING

√	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ---- Supply CFM	Exhaust CFM	Run Time Fraction	Fan Watts
_____	Proposed ACH	0.00036	496	7.08	27.2	51.2	0 cfm	0 cfm	0	0

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ductless
_____	1	Central Unit	Split System	SEER: 13	500 kBtu/hr	15000 cfm	0.75	False

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Ductless
_____	1	Electric Heat Pump	None	HSPF: 7.7	500 kBtu/hr	False

HOT WATER SYSTEM

√	#	System Type	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	0.9	40 gal	40 gal	120 deg	None

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

√	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF
_____	1	Interior	6	50 ft²	Interior	50 ft²	Default Leakage	Attic				

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec
Heating	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec
Venting	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

FORM 1100A-08

Code Compliance Cheklist

Residential Whole Building Performance Method A - Details

ADDRESS:	PERMIT #:
fort white, fl, 32038-	

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.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	N1106.AB.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	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to 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	N1106.AB.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 with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	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%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Project Summary
Entire House
TIMMY'S HEATING & AIR INC.

Job:
Date: Jan 19, 2010
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

Project Information

For: jamie osteen addition

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33	°F
Inside db	68	°F
Design TD	35	°F

Summer Design Conditions

Outside db	92	°F
Inside db	75	°F
Design TD	17	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	52	gr/lb

Heating Summary

Structure	8659	Btuh
Ducts	0	Btuh
Central vent (25 cfm)	950	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	9609	Btuh

Sensible Cooling Equipment Load Sizing

Structure	4951	Btuh
Ducts	0	Btuh
Central vent (25 cfm)	461	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.97	
Equipment sensible load	5250	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	525	525
Volume (ft³)	4725	4725
Air changes/hour	0.61	0.32
Equiv. AVF (cfm)	48	25

Latent Cooling Equipment Load Sizing

Structure	886	Btuh
Ducts	0	Btuh
Central vent (25 cfm)	872	Btuh
Equipment latent load	1758	Btuh
Equipment total load	7008	Btuh
Req. total capacity at 0.70 SHR	0.6	ton

Heating Equipment Summary

Make		
Trade		
Model		
ARI ref no.		
Efficiency	0	HSPF
Heating input		
Heating output	0	Btuh @ 47°F
Temperature rise	0	°F
Actual air flow	226	cfm
Air flow factor	0.026	cfm/Btuh
Static pressure	0.10	in H2O
Space thermostat		

Cooling Equipment Summary

Make		
Trade		
Cond		
Coil		
ARI ref no.		
Efficiency	0	EER
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual air flow	226	cfm
Air flow factor	0.046	cfm/Btuh
Static pressure	0.10	in H2O
Load sensible heat ratio	0.75	

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

AED Assessment
Entire House
TIMMY'S HEATING & AIR INC.

Job:
Date: Jan 19, 2010
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

Project Information

For: jamie osteen addition

Design Conditions

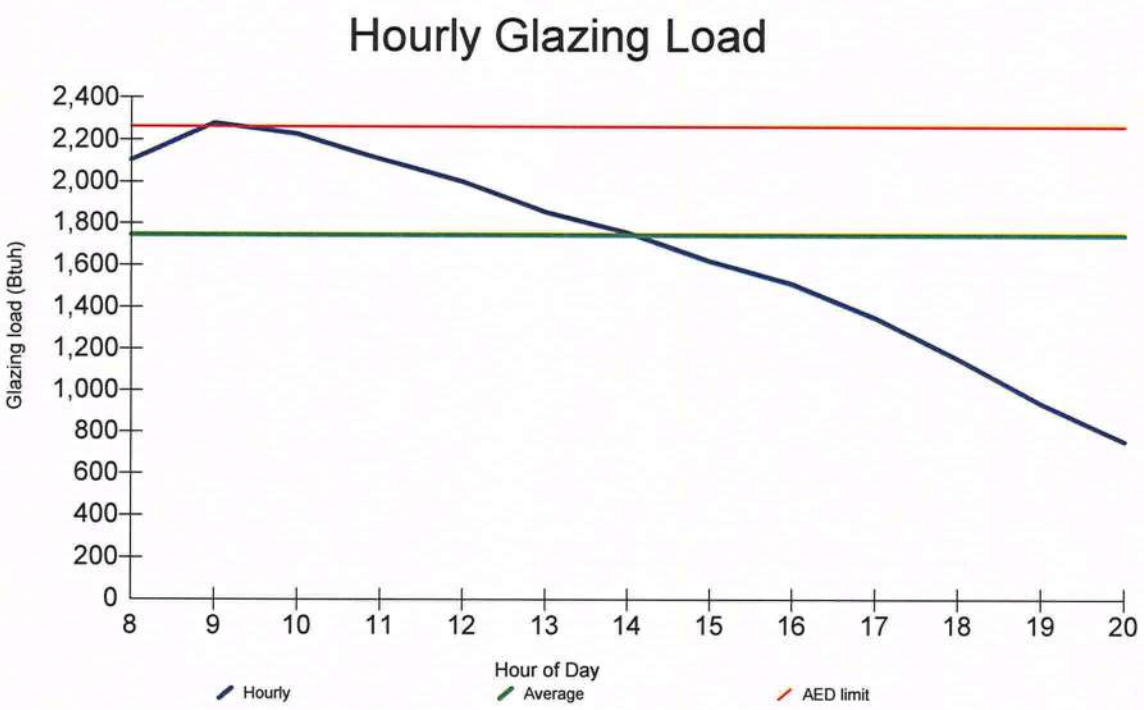
Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	68	75
Design TD (°F)	35	17
Relative humidity (%)	50	50
Moisture difference (gr/lb)	29.0	52.0

Infiltration:

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 31.0%.

House does not have adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 18 Btuh (PFG - 1.3*AFG)

Timmy's Heating & Air Inc.
We Rule Cool !

Right-J® Worksheet
Entire House
TIMMY'S HEATING & AIR INC.

Job:
Date: Jan 19, 2010
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

1	Room name						Entire House				bath				
2	Exposed wall						67.0 ft				7.0 ft				
3	Ceiling height						9.0 ft		d		9.0 ft		heat/cool		
4	Room dimensions										7.0	x	9.0 ft		
5	Room area						525.0 ft²				63.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.18	2.20	225	193	615	424	0	0	0	0	
.	G	1D-c2ow	0.570	ne	19.95	47.40	32	0	638	1517	0	0	0	0	
.	W	12C-0sw	0.091	se	3.18	2.20	189	159	506	349	0	0	0	0	
.	G	1D-c2ow	0.570	se	19.95	49.26	9	0	180	443	0	0	0	0	
11	D	11D0	0.390	se	13.65	11.37	21	21	287	239	0	0	0	0	
	W	12C-0sw	0.091	nw	3.18	2.20	189	168	535	369	63	42	134	92	
	D	11D0	0.390	nw	13.65	11.37	21	21	287	239	21	21	287	239	
	C	16B-30ad	0.032	-	1.12	1.68	525	525	588	885	63	63	71	106	
	F	22A-tph	1.358	-	47.53	0.00	525	67	3185	0	63	7	333	0	
6	c) AED excursion									18				-10	
	Envelope loss/gain								6820	4483			824	427	
12	a) Infiltration								1839	469			192	49	
	b) Room ventilation								0	0			0	0	
13	Internal gains:	Occupants @	230				0			0	0			0	
		Appliances @	1200				0			0	0			0	
	Subtotal (lines 6 to 13)								8659	4951			1016	476	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								8659	4951			1016	476	
15	Duct loads						0%	0%	0	0	0%	0%	0	0	
	Total room load								8659	4951			1016	476	
	Air required (cfm)								226	226			27	22	

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Timmy's Heating & Air Inc.
We Rule Cool !

Right-J® Worksheet
Entire House
TIMMY'S HEATING & AIR INC.

Job:
Date: Jan 19, 2010
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

1	Room name						den				gameroom			
2	Exposed wall						26.0 ft				25.0 ft			
3	Ceiling height						9.0 ft		heat/cool		9.0 ft		heat/cool	
4	Room dimensions						14.0 x 12.0 ft				12.0 x 13.0 ft			
5	Room area						168.0 ft²				156.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	ne	3.18	2.20	108	92	293	202	117	101	322	222
.	└G	1D-c2ow	0.570	ne	19.95	47.40	16	0	319	758	16	0	319	758
.	W	12C-0sw	0.091	se	3.18	2.20	0	0	0	0	108	87	277	191
.	└G	1D-c2ow	0.570	se	19.95	49.26	0	0	0	0	0	0	0	0
11	└D	11D0	0.390	se	13.65	11.37	0	0	0	0	21	21	287	239
	W	12C-0sw	0.091	nw	3.18	2.20	126	126	401	277	0	0	0	0
	└D	11D0	0.390	nw	13.65	11.37	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.12	1.68	168	168	188	283	156	156	175	263
	F	22A-tph	1.358	-	47.53	0.00	168	26	1236	0	156	25	1188	0
6	c) AED excursion									-1				-4
	Envelope loss/gain								2437	1519			2568	1669
12	a) Infiltration								714	182			686	175
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances @ 1200					0			0	0			0
	Subtotal (lines 6 to 13)								3151	1701			3254	1844
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								3151	1701			3254	1844
15	Duct loads						0%	0%	0	0	0%	0%	0	0
	Total room load								3151	1701			3254	1844
	Air required (cfm)								82	78			85	84

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Timmy's Heating & Air Inc.
We Rule Cool !

Right-J® Worksheet
Entire House
TIMMY'S HEATING & AIR INC.

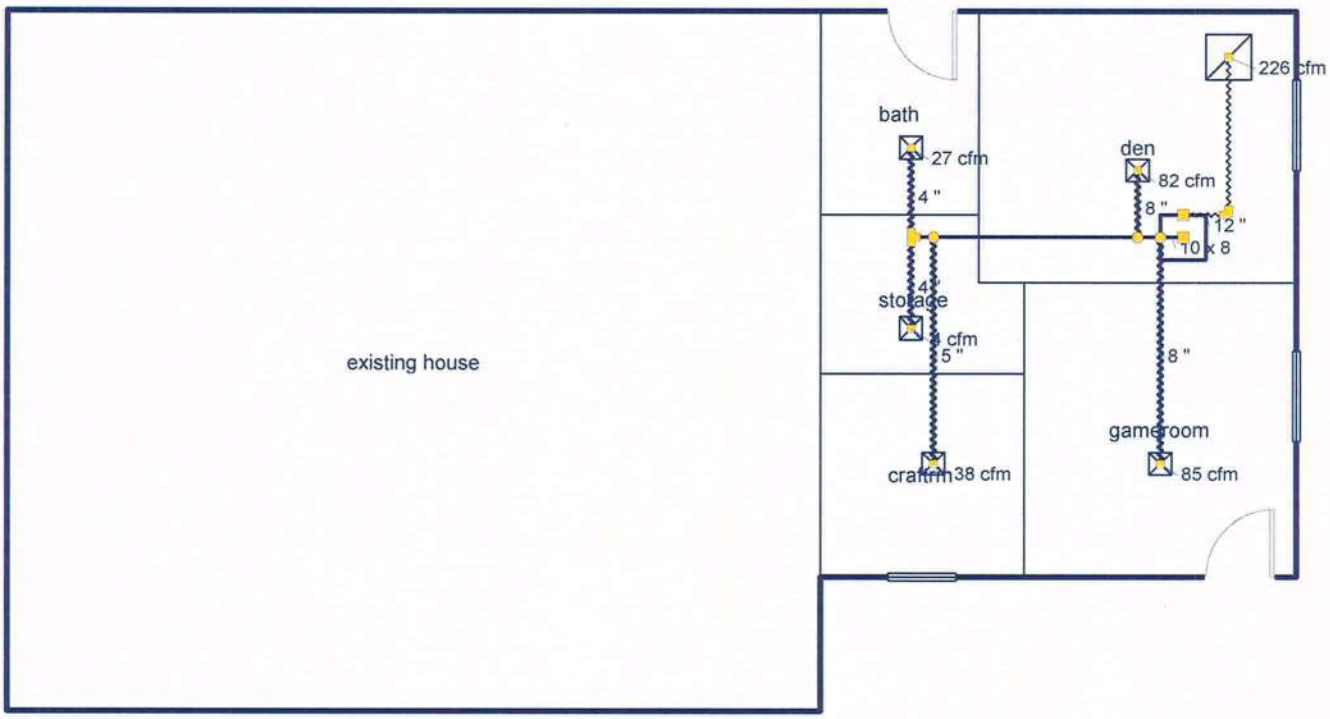
Job:
Date: **Jan 19, 2010**
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

		craftrm 9.0 ft 9.0 ft x 9.0 ft heat/cool 81.0 ft²				storage 0 ft 9.0 ft x 1.0 ft heat/cool 57.0 ft²			
	Ty / Construction number	Area (ft²) or perimeter (ft) Gross	N/P/S	Load (Btuh) Heat	Cool	Area (ft²) or perimeter (ft) Gross	N/P/S	Load (Btuh) Heat	Cool
1	Room name								
2	Exposed wall								
3	Ceiling height								
4	Room dimensions								
5	Room area								
6	W 12C-0sw	0	0	0	0	0	0	0	0
.	G 1D-c2ow	0	0	0	0	0	0	0	0
.	W 12C-0sw	81	72	229	158	0	0	0	0
.	G 1D-c2ow	9	0	180	443	0	0	0	0
11	D 11D0	0	0	0	0	0	0	0	0
	W 12C-0sw	0	0	0	0	0	0	0	0
	D 11D0	0	0	0	0	0	0	0	0
	C 16B-30ad	81	81	91	136	57	57	64	96
	F 22A-tph	81	9	428	0	57	0	0	0
6	c) AED excursion				35				-2
	Envelope loss/gain			927	773			64	94
12	a) Infiltration			247	63			0	0
	b) Room ventilation			0	0			0	0
13	Internal gains: Occupants @ 230	0			0	0			0
	Appliances @ 1200	0			0	0			0
	Subtotal (lines 6 to 13)			1174	836			64	94
	Less external load			0	0			0	0
	Less transfer			0	0			0	0
	Redistribution			0	0			0	0
14	Subtotal			1174	836			64	94
15	Duct loads	0%	0%	0	0	0%	0%	0	0
	Total room load			1174	836			64	94
	Air required (cfm)			31	38			2	4

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Main floor



Job #: **Performed for:** jamie osteen addition	**TIMMY'S HEATING & AIR INC.** 1637 SW LONCALA LOOP FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 timothyhough@alltel.net	Scale: 1 : 102 Page 1 Right-Suite® Universal 7.1.09 RSU05314 2010-Jan-19 14:15:01 C:\Documents and Settings\All User...

Timmy's Heating & Air Inc.
We Rule Cool !

Duct System Summary
Entire House
TIMMY'S HEATING & AIR INC.

Job:
Date: Jan 19, 2010
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

Project Information

For: jamie osteen addition

	Heating	Cooling
External static pressure	0.10 in H2O	0.10 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0.10 in H2O	0.10 in H2O
Supply / return available pressure	0.07 / 0.03 in H2O	0.07 / 0.03 in H2O
Lowest friction rate	0.036 in/100ft	0.036 in/100ft
Actual air flow	226 cfm	226 cfm
Total effective length (TEL)	275 ft	

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
bath	h	1016	27	22	0.042	4.0	0x0	VlFx	16.0	160.0	st1
craftrm	c	836	31	38	0.038	5.0	0x0	VlFx	21.0	170.0	st1
den	h	3151	82	78	0.040	8.0	0x0	VlFx	5.0	180.0	st1
gameroom	h	3254	85	84	0.036	8.0	0x0	VlFx	11.0	190.0	st1
storage	c	94	2	4	0.042	4.0	0x0	VlFx	16.0	160.0	st1

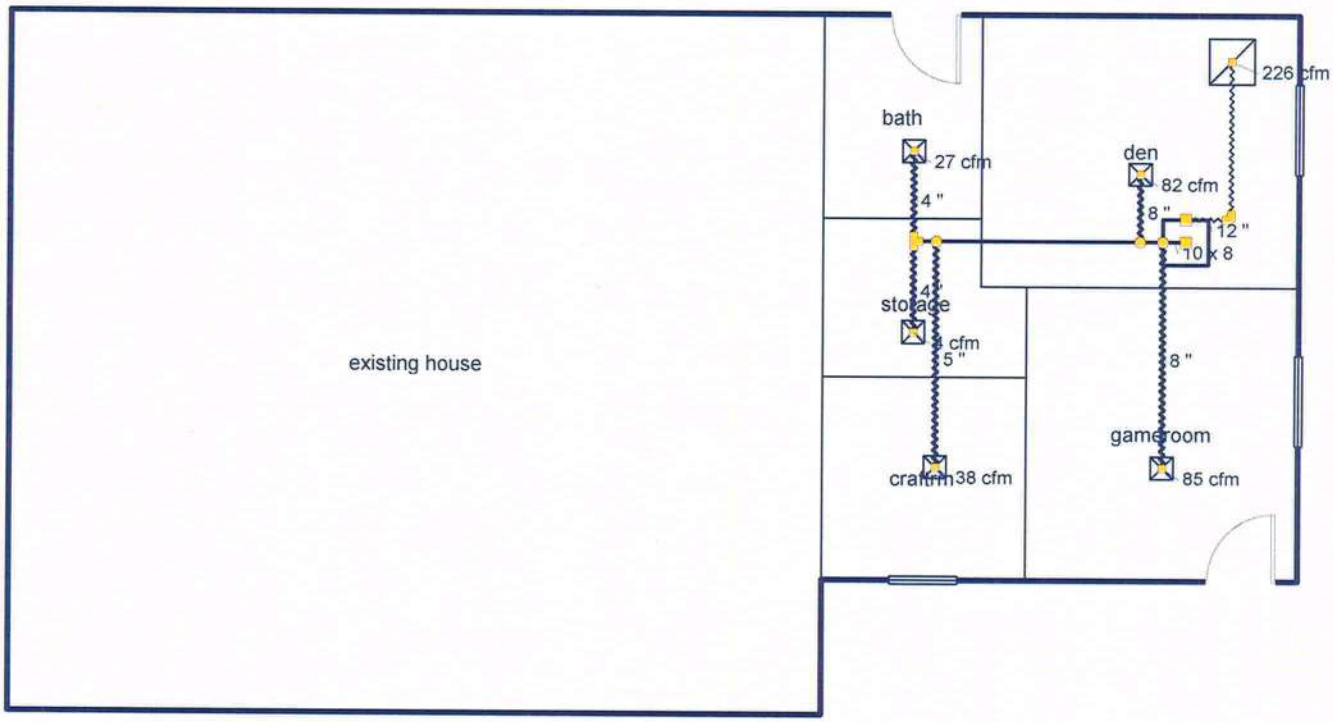
Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	226	226	0.036	407	10.2	8 x 10	RectFbg	

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb2	0x0	226	226	74.0	0.036	288	12.0	0x 0		VlFx	

Main floor



Job #: **Performed for:** jamie osteen addition	**TIMMY'S HEATING & AIR INC.** 1637 SW LONCALA LOOP FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 timothyhough@alltel.net	Scale: 1 : 102 Page 1 Right-Suite® Universal 7.1.09 RSU05314 2010-Jan-19 14:15:01 C:\Documents and Settings\All User...

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 66

The lower the EnergyPerformance Index, the more efficient the home.

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Single-family
3. Number of units, if multiple family		1
4. Number of Bedrooms		1
5. Is this a worst case?		No
6. Conditioned floor area (ft²)		525

7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.57	41.00 ft²
SHGC:	SHGC=0.60	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
e. U-Factor:	N/A	ft²
SHGC:		

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	525.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	603.04 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=31.0	525.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts
a. Sup: Interior Ret: Interior AH: Attic Sup. R= 6, 50 ft²

12. Cooling systems
a. Central Unit — Cap: 500 kBtu/hr, SEER: 13

13. Heating systems
a. Electric Heat Pump — Cap: 500 kBtu/hr, HSPF: 7.7

14. Hot water systems
a. Electric — Cap: 40 gallons, EF: 0.9

b. Conservation features
None

15. Credits — Pstat

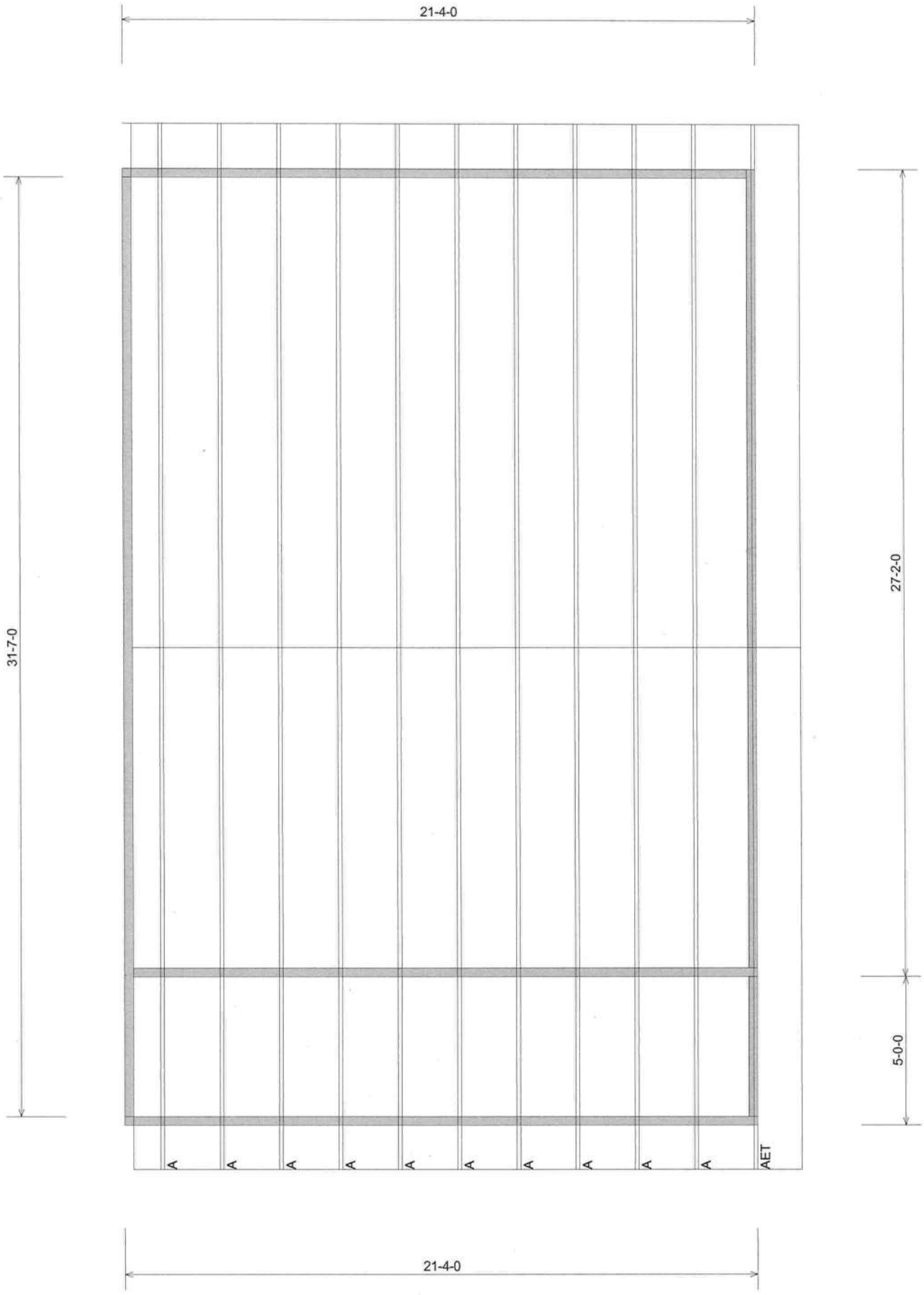
I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant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

Builder Signature: _____ Date: _____

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

*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for 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 energygauge.com 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.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

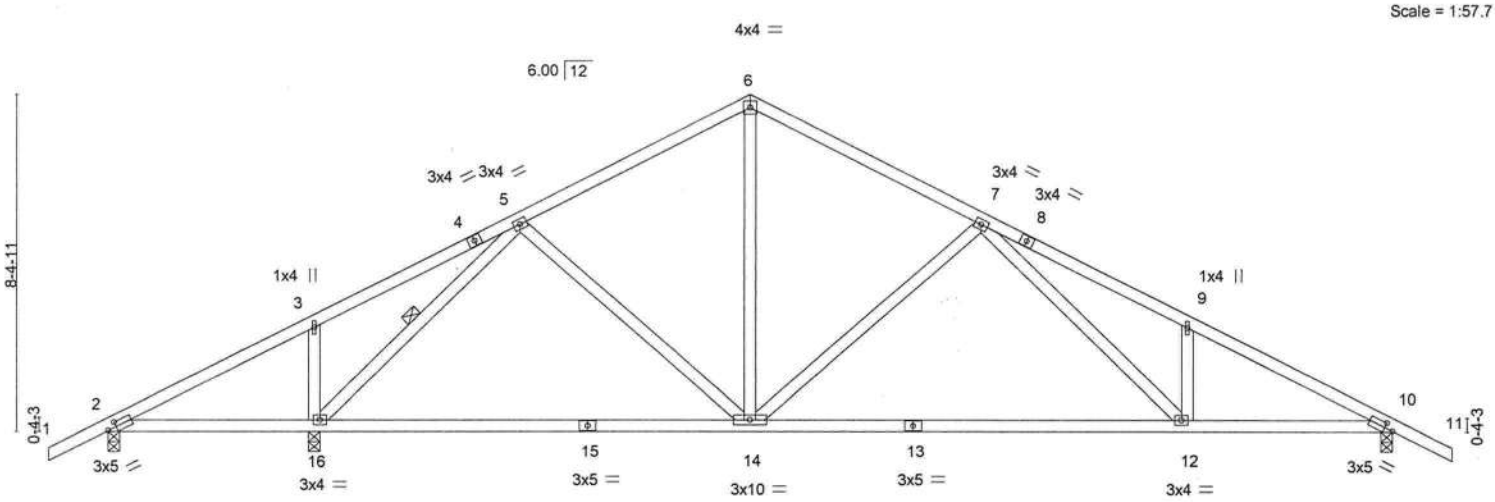

21-4-0
31-7-0
27-2-0
5-0-0
A
A
A
A
A
A
A
A
A
A
AET
21-4-0

Job	Truss	Truss Type	Qty	Ply	ADDITION	E5543499
OSTEENJ1	A	COMMON	10	1	Job Reference (optional)	

SANTA FE TRUSS COMPANY, INC., HIGH SPRINGS, FL — 7.140 s Oct 1 2009 MiTek Industries, Inc. Fri Dec 11 09:00:29 2009 Page 1

-1-6-0	5-1-12	10-3-11	16-1-0	21-10-5	27-0-4	32-2-0	33-8-0
1-6-0	5-1-12	5-1-15	5-9-5	5-9-5	5-1-15	5-1-12	1-6-0

Scale = 1:57.7



5-1-12	16-1-0	27-0-4	32-2-0
5-1-12	10-11-4	10-11-4	5-1-12

Plate Offsets (X,Y): [2:0-2-10,0-1-8], [10:0-2-10,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.33	12-14	>978	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.61	12-14	>526	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.05	10	n/a	n/a		
BCDL	10.0	Code FBC2007/TPI2002		(Matrix)							Weight: 168 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=119/0-3-8, 16=1488/0-3-8, 10=1140/0-3-8
Max Horz 2=122(LC 5)
Max Uplift 2=-47(LC 5), 16=-693(LC 5), 10=-536(LC 6)
Max Grav 2=178(LC 7), 16=1488(LC 1), 10=1140(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-200/364, 3-5=-108/360, 5-6=-1006/506, 6-7=-1007/491, 7-9=-1926/950, 9-10=-1952/871, 10-11=0/39
BOT CHORD 2-16=-258/251, 14-16=-250/718, 12-14=-403/1237, 10-12=-679/1667
WEBS 6-14=-357/531, 7-14=-562/303, 7-12=-399/612, 9-12=-250/111, 5-14=-118/250, 5-16=-1385/528, 3-16=-314/142

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise); porch left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2, 693 lb uplift at joint 16 and 536 lb uplift at joint 10.
5) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

FL Cert. #7239

December 11,2009

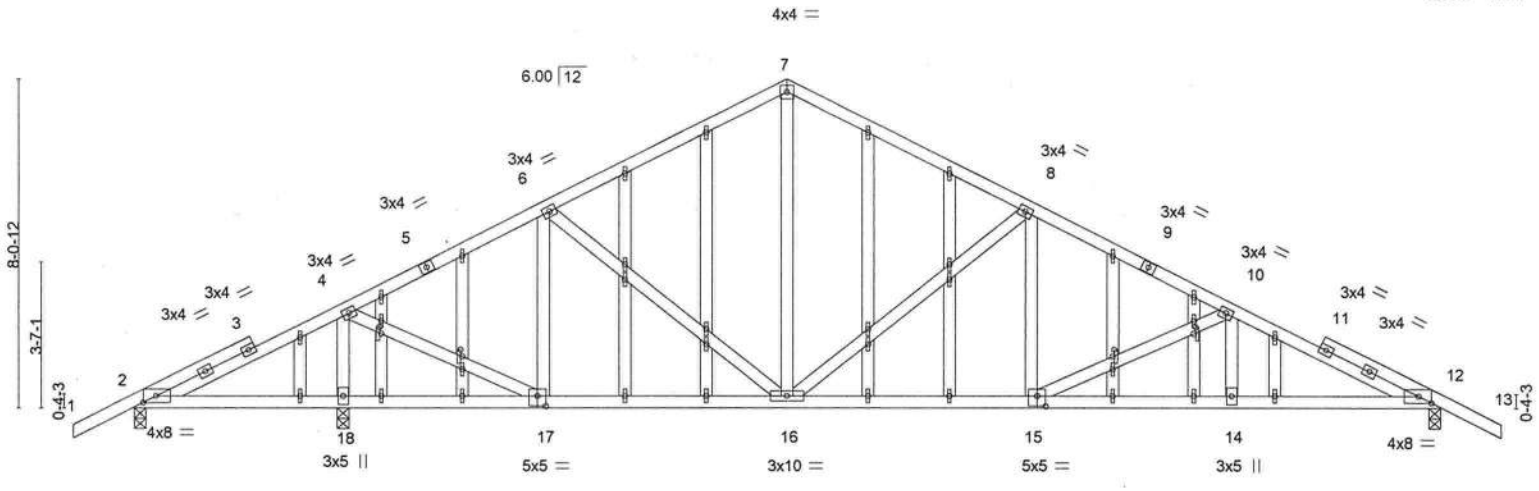
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ADDITION	E5543500
OSTEENJ1	AET	GABLE	1	1	Job Reference (optional)	

SANTA FE TRUSS COMPANY, INC., HIGH SPRINGS, FL — 7.140 s Oct 1 2009 MiTek Industries, Inc. Fri Dec 11 09:00:32 2009 Page 1

-1-6-0	5-1-12	10-1-0	16-1-0	22-1-0	27-0-4	32-2-0	33-8-0
1-6-0	5-1-12	4-11-4	6-0-0	6-0-0	4-11-4	5-1-12	1-6-0

Scale = 1:56.7



5-1-12	10-1-0	16-1-0	22-1-0	27-0-4	32-2-0
5-1-12	4-11-4	6-0-0	6-0-0	4-11-4	5-1-12

Plate Offsets (X,Y): [2:0-3-12,0-2-0], [12:0-3-12,0-2-0], [15:0-2-8,0-3-0], [17:0-2-8,0-3-0], [25:0-2-0,0-0-8], [29:0-2-0,0-0-8], [40:0-2-0,0-0-8], [46:0-2-0,0-0-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	0.12	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.17	15-16	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.05	12	n/a	n/a		
BCDL	10.0	Code FBC2007/TPI2002		(Matrix)							Weight: 238 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=54/0-3-8, 18=1565/0-3-8, 12=1128/0-3-8
Max Horz 2=137(LC 5)
Max Uplift 2=-75(LC 10), 18=-964(LC 5), 12=-734(LC 6)
Max Grav 2=132(LC 9), 18=1565(LC 1), 12=1128(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-4=-392/612, 4-6=-874/549, 6-7=-999/683, 7-8=-999/664, 8-10=-1570/985, 10-12=-2083/1259, 12-13=0/39
BOT CHORD 2-18=-492/416, 17-18=-492/416, 16-17=-381/727, 15-16=-665/1348, 14-15=-1040/1844, 12-14=-1040/1844
WEBS 7-16=-435/499, 8-16=-682/541, 8-15=-278/398, 10-15=-546/413, 10-14=-96/197, 6-16=-53/211, 6-17=-467/219, 4-17=-754/1344, 4-18=-1449/861

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; porch left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2, 964 lb uplift at joint 18 and 734 lb uplift at joint 12.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

FL Cert. #7239

December 11,2009

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Project Summary
Entire House
TIMMY'S HEATING & AIR INC.

Job:
Date: Jan 19, 2010
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

Project Information

For: jamie osteen addition

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33	°F
Inside db	68	°F
Design TD	35	°F

Summer Design Conditions

Outside db	92	°F
Inside db	75	°F
Design TD	17	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	52	gr/lb

Heating Summary

Structure	8659	Btuh
Ducts	0	Btuh
Central vent (25 cfm)	950	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	9609	Btuh

Sensible Cooling Equipment Load Sizing

Structure	4951	Btuh
Ducts	0	Btuh
Central vent (25 cfm)	461	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.97	
Equipment sensible load	5250	Btuh

Infiltration

Method	Simplified	
Construction quality	Average	
Fireplaces	0	

	Heating	Cooling
Area (ft²)	525	525
Volume (ft³)	4725	4725
Air changes/hour	0.61	0.32
Equiv. AVF (cfm)	48	25

Latent Cooling Equipment Load Sizing

Structure	886	Btuh
Ducts	0	Btuh
Central vent (25 cfm)	872	Btuh
Equipment latent load	1758	Btuh
Equipment total load	7008	Btuh
Req. total capacity at 0.70 SHR	0.6	ton

Heating Equipment Summary

Make		
Trade		
Model		
ARI ref no.		
Efficiency	0	HSPF
Heating input		
Heating output	0	Btuh @ 47°F
Temperature rise	0	°F
Actual air flow	226	cfm
Air flow factor	0.026	cfm/Btuh
Static pressure	0.10	in H2O
Space thermostat		

Cooling Equipment Summary

Make		
Trade		
Cond		
Coil		
ARI ref no.		
Efficiency	0	EER
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual air flow	226	cfm
Air flow factor	0.046	cfm/Btuh
Static pressure	0.10	in H2O
Load sensible heat ratio	0.75	

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

AED Assessment
Entire House
TIMMY'S HEATING & AIR INC.

Job:
Date: Jan 19, 2010
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

Project Information

For: jamie osteen addition

Design Conditions

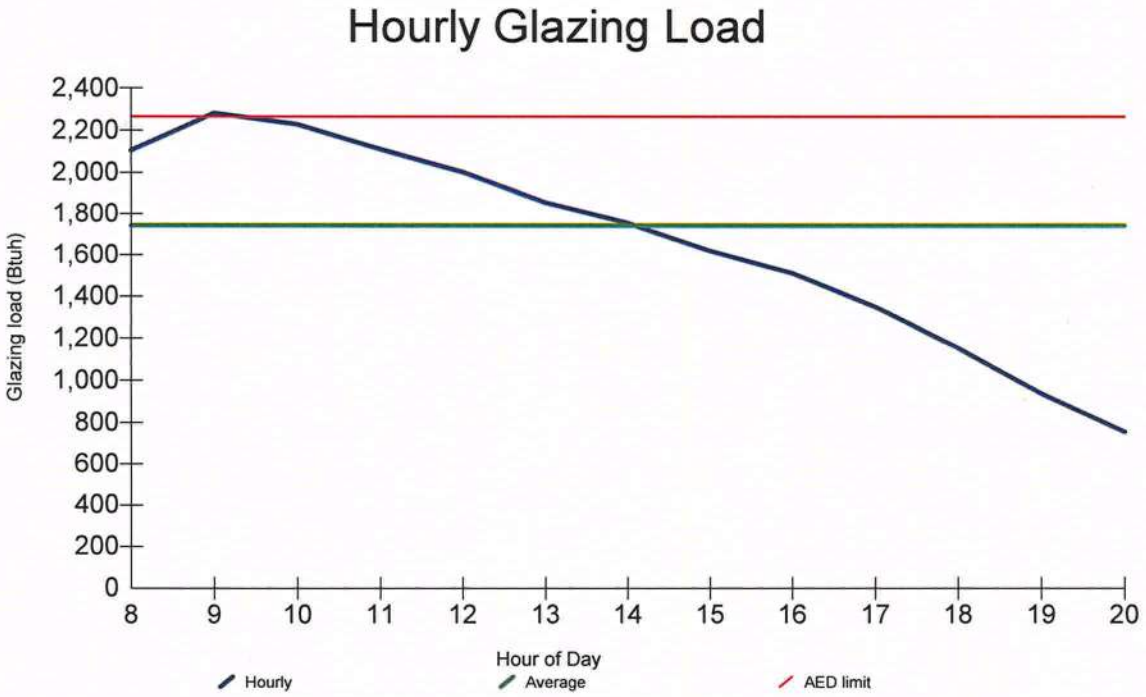
Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	68	75
Design TD (°F)	35	17
Relative humidity (%)	50	50
Moisture difference (gr/lb)	29.0	52.0

Infiltration:

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 31.0%.

House does not have adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 18 Btuh (PFG - 1.3*AFG)

Timmy's Heating & Air Inc.
We Rule Cool !

Right-J® Worksheet
Entire House
TIMMY'S HEATING & AIR INC.

Job:
Date: Jan 19, 2010
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

1	Room name						Entire House				bath			
2	Exposed wall						67.0 ft				7.0 ft			
3	Ceiling height						9.0 ft		d		9.0 ft		heat/cool	
4	Room dimensions										7.0 x 9.0 ft			
5	Room area						525.0 ft²				63.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	ne	3.18	2.20	225	193	615	424	0	0	0	0
.	G	1D-c2ow	0.570	ne	19.95	47.40	32	0	638	1517	0	0	0	0
.	W	12C-0sw	0.091	se	3.18	2.20	189	159	506	349	0	0	0	0
.	G	1D-c2ow	0.570	se	19.95	49.26	9	0	180	443	0	0	0	0
11	D	11D0	0.390	se	13.65	11.37	21	21	287	239	0	0	0	0
	W	12C-0sw	0.091	nw	3.18	2.20	189	168	535	369	63	42	134	92
	D	11D0	0.390	nw	13.65	11.37	21	21	287	239	21	21	287	239
	C	16B-30ad	0.032	-	1.12	1.68	525	525	588	885	63	63	71	106
	F	22A-tph	1.358	-	47.53	0.00	525	67	3185	0	63	7	333	0
6	c) AED excursion									18				-10
	Envelope loss/gain								6820	4483			824	427
12	a) Infiltration								1839	469			192	49
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances @ 1200					0			0	0			0
	Subtotal (lines 6 to 13)								8659	4951			1016	476
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								8659	4951			1016	476
15	Duct loads						0%	0%	0	0	0%	0%	0	0
	Total room load								8659	4951			1016	476
	Air required (cfm)								226	226			27	22

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Timmy's Heating & Air Inc.
We Rule Cool !

Right-J® Worksheet
Entire House
TIMMY'S HEATING & AIR INC.

Job:
Date: Jan 19, 2010
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

1	Room name						den				gameroom			
2	Exposed wall						26.0 ft				25.0 ft			
3	Ceiling height						9.0 ft		heat/cool		9.0 ft		heat/cool	
4	Room dimensions						14.0 x 12.0 ft				12.0 x 13.0 ft			
5	Room area						168.0 ft²				156.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	ne	3.18	2.20	108	92	293	202	117	101	322	222
.	└G	1D-c2ow	0.570	ne	19.95	47.40	16	0	319	758	16	0	319	758
.	W	12C-0sw	0.091	se	3.18	2.20	0	0	0	0	108	87	277	191
.	└G	1D-c2ow	0.570	se	19.95	49.26	0	0	0	0	0	0	0	0
11	└D	11D0	0.390	se	13.65	11.37	0	0	0	0	21	21	287	239
	W	12C-0sw	0.091	nw	3.18	2.20	126	126	401	277	0	0	0	0
	└D	11D0	0.390	nw	13.65	11.37	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.12	1.68	168	168	188	283	156	156	175	263
	F	22A-tph	1.358	-	47.53	0.00	168	26	1236	0	156	25	1188	0
6	c) AED excursion									-1				-4
	Envelope loss/gain								2437	1519			2568	1669
12	a) Infiltration								714	182			686	175
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances @ 1200					0			0	0			0
	Subtotal (lines 6 to 13)								3151	1701			3254	1844
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								3151	1701			3254	1844
15	Duct loads						0%	0%	0	0	0%	0%	0	0
	Total room load								3151	1701			3254	1844
	Air required (cfm)								82	78			85	84

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Timmy's Heating & Air Inc.
We Rule Cool !

Right-J® Worksheet
Entire House
TIMMY'S HEATING & AIR INC.

Job:
Date: Jan 19, 2010
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

		craftrm	storage
1	Room name		
2	Exposed wall	9.0 ft	0 ft
3	Ceiling height	9.0 ft	9.0 ft
4	Room dimensions	9.0 x 9.0 ft	1.0 x 57.0 ft
5	Room area	81.0 ft²	57.0 ft²
		heat/cool	heat/cool

	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	ne	3.18	2.20	0	0	0	0	0	0	0	0
.	G	1D-c2ow	0.570	ne	19.95	47.40	0	0	0	0	0	0	0	0
.	W	12C-0sw	0.091	se	3.18	2.20	81	72	229	158	0	0	0	0
.	G	1D-c2ow	0.570	se	19.95	49.26	9	0	180	443	0	0	0	0
11	D	11D0	0.390	se	13.65	11.37	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.18	2.20	0	0	0	0	0	0	0	0
	D	11D0	0.390	nw	13.65	11.37	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.12	1.68	81	81	91	136	57	57	64	96
	F	22A-tph	1.358	-	47.53	0.00	81	9	428	0	57	0	0	0
6	c) AED excursion									35				-2
	Envelope loss/gain								927	773			64	94
12	a) Infiltration								247	63			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances @ 1200					0			0	0			0
	Subtotal (lines 6 to 13)								1174	836			64	94
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1174	836			64	94
15	Duct loads						0%	0%	0	0	0%	0%	0	0
	Total room load								1174	836			64	94
	Air required (cfm)								31	38			2	4

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Timmy's Heating & Air Inc.
We Rule Cool !

Duct System Summary
Entire House
TIMMY'S HEATING & AIR INC.

Job:
Date: Jan 19, 2010
By:

1637 SW LONCALA LOOP, FORT WHITE, FL 32038 Phone: 386-497-4659 Fax: 386-497-2852 Email: timothyhough@alltel.net

Project Information

For: jamie osteen addition

	Heating	Cooling
External static pressure	0.10 in H2O	0.10 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0.10 in H2O	0.10 in H2O
Supply / return available pressure	0.07 / 0.03 in H2O	0.07 / 0.03 in H2O
Lowest friction rate	0.036 in/100ft	0.036 in/100ft
Actual air flow	226 cfm	226 cfm
Total effective length (TEL)	275 ft	

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
bath	h	1016	27	22	0.042	4.0	0x0	VlFx	16.0	160.0	st1
craftrm	c	836	31	38	0.038	5.0	0x0	VlFx	21.0	170.0	st1
den	h	3151	82	78	0.040	8.0	0x0	VlFx	5.0	180.0	st1
gameroom	h	3254	85	84	0.036	8.0	0x0	VlFx	11.0	190.0	st1
storage	c	94	2	4	0.042	4.0	0x0	VlFx	16.0	160.0	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	226	226	0.036	407	10.2	8 x 10	RectFbg	

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb2	0x0	226	226	74.0	0.036	288	12.0	0x 0		VlFx	

ENGINEERING BY
TRENCO
A MiTek Affiliate

RE: OSTEENJ1 - ADDITION

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:
Project Customer: JAMES OSTEEN Project Name: OSTEENJ1
Lot/Block: Subdivision:
Address: 479 S.W. SEDGEFIELD LANE
City: FT. WHITE State: FL.

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

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2007/TPI2002❑ Design Program: MiTek 20/20 7.1
Wind Code: ASCE 7-05 Wind Speed: 110 mph Floor Load: N/A psf
Roof Load: 40.0 psf

This package includes 2 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.
This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

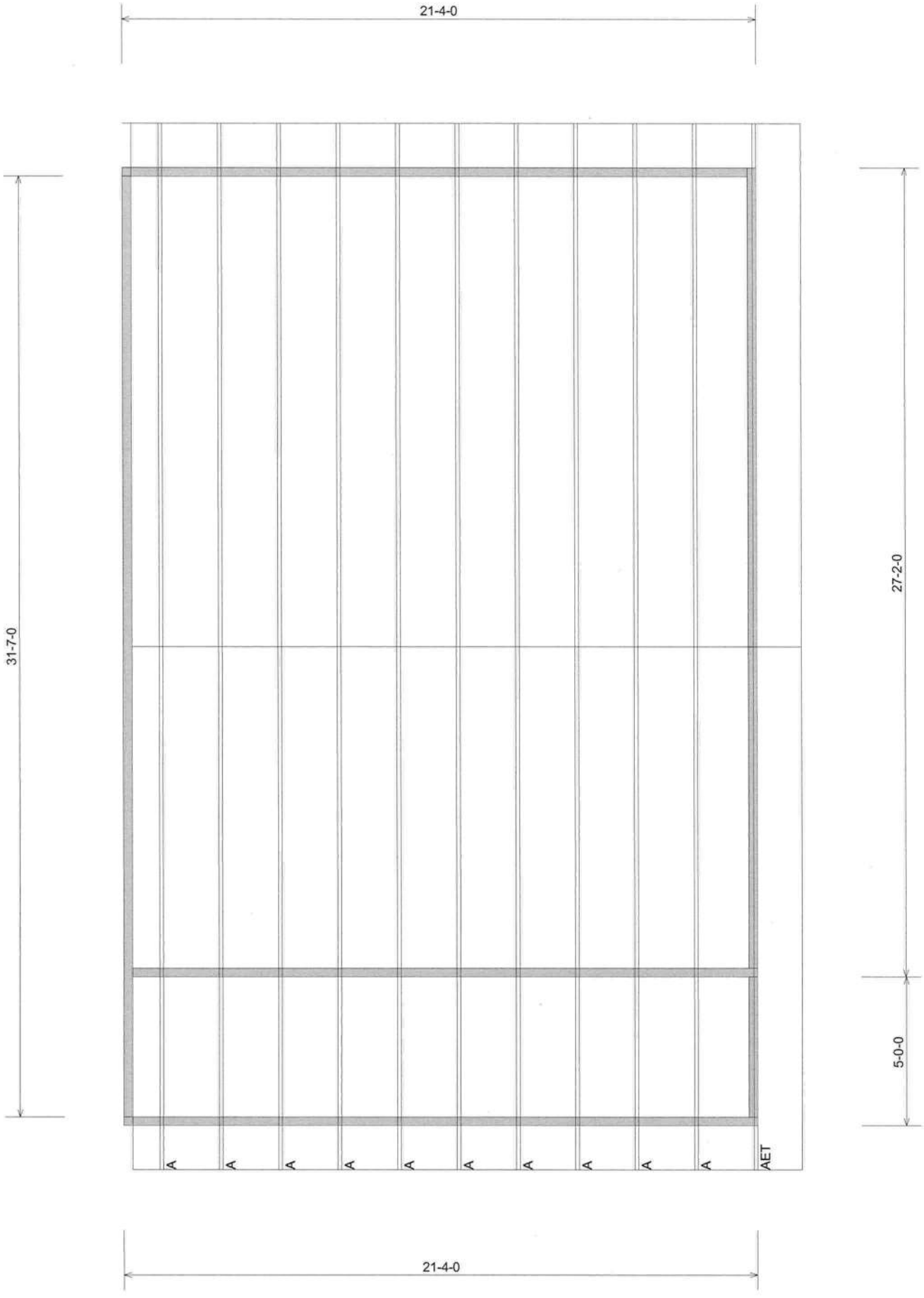
No.	Seal#	Truss Name	Date
1	E5543499	A	12/11/09
2	E5543500	AET	12/11/09

The truss drawing(s) referenced above have been prepared by TRENCO under my direct supervision based on the parameters provided by Santa Fe Truss.
Truss Design Engineer's Name: Strzyzewski, Marvin
My license renewal date for the state of is February 28, 2011.

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 Chapter 2.

FL Cert. #7239

December 11,2009
Strzyzewski, Marvin

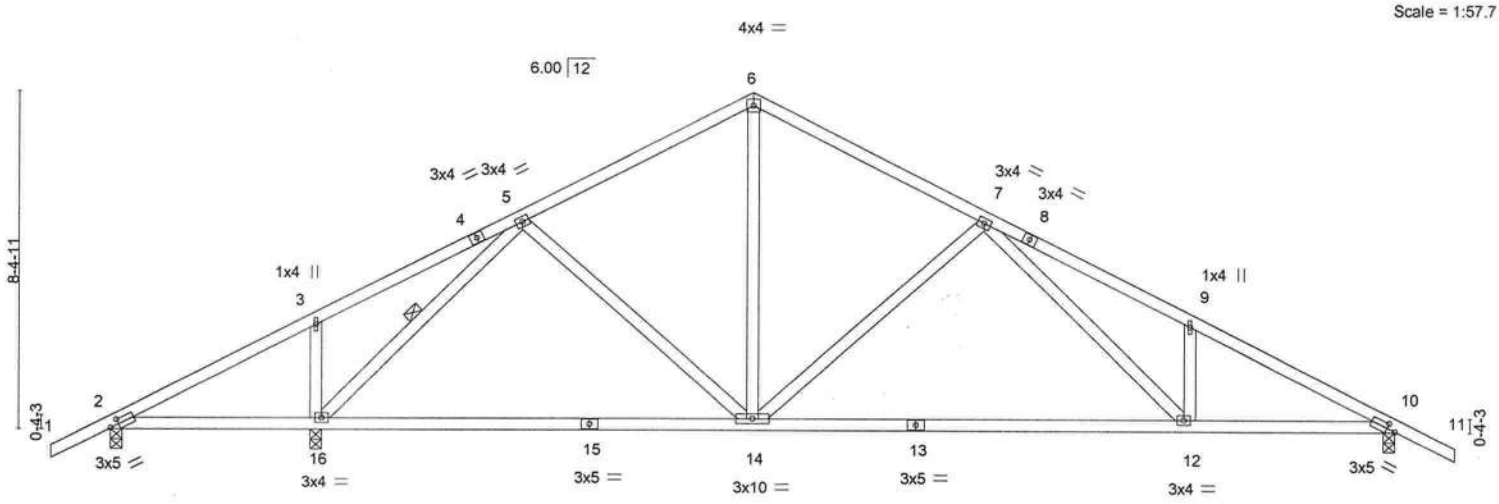

21-4-0
31-7-0
27-2-0
5-0-0
A
A
A
A
A
A
A
A
A
A
AET
21-4-0

Job	Truss	Truss Type	Qty	Ply	ADDITION	
OSTEENJ1	A	COMMON	10	1	Job Reference (optional)	E5543499

SANTA FE TRUSS COMPANY, INC., HIGH SPRINGS, FL — 7.140 s Oct 1 2009 MiTek Industries, Inc. Fri Dec 11 09:00:29 2009 Page 1

-1-6-0	5-1-12	10-3-11	16-1-0	21-10-5	27-0-4	32-2-0	33-8-0
1-6-0	5-1-12	5-1-15	5-9-5	5-9-5	5-1-15	5-1-12	1-6-0

Scale = 1:57.7



5-1-12	16-1-0	27-0-4	32-2-0
5-1-12	10-11-4	10-11-4	5-1-12

Plate Offsets (X,Y): [2:0-2-10,0-1-8], [10:0-2-10,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.33	12-14	>978	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.61	12-14	>526	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.05	10	n/a	n/a		
BCDL	10.0	Code FBC2007/TPI2002		(Matrix)							Weight: 168 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=119/0-3-8, 16=1488/0-3-8, 10=1140/0-3-8
Max Horz 2=122(LC 5)
Max Uplift 2=-47(LC 5), 16=-693(LC 5), 10=-536(LC 6)
Max Grav 2=178(LC 7), 16=1488(LC 1), 10=1140(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-200/364, 3-5=-108/360, 5-6=-1006/506, 6-7=-1007/491, 7-9=-1926/950, 9-10=-1952/871, 10-11=0/39
BOT CHORD 2-16=-258/251, 14-16=-250/718, 12-14=-403/1237, 10-12=-679/1667
WEBS 6-14=-357/531, 7-14=-562/303, 7-12=-399/612, 9-12=-250/111, 5-14=-118/250, 5-16=-1385/528, 3-16=-314/142

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise); porch left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2, 693 lb uplift at joint 16 and 536 lb uplift at joint 10.
5) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

FL Cert. #7239

December 11,2009

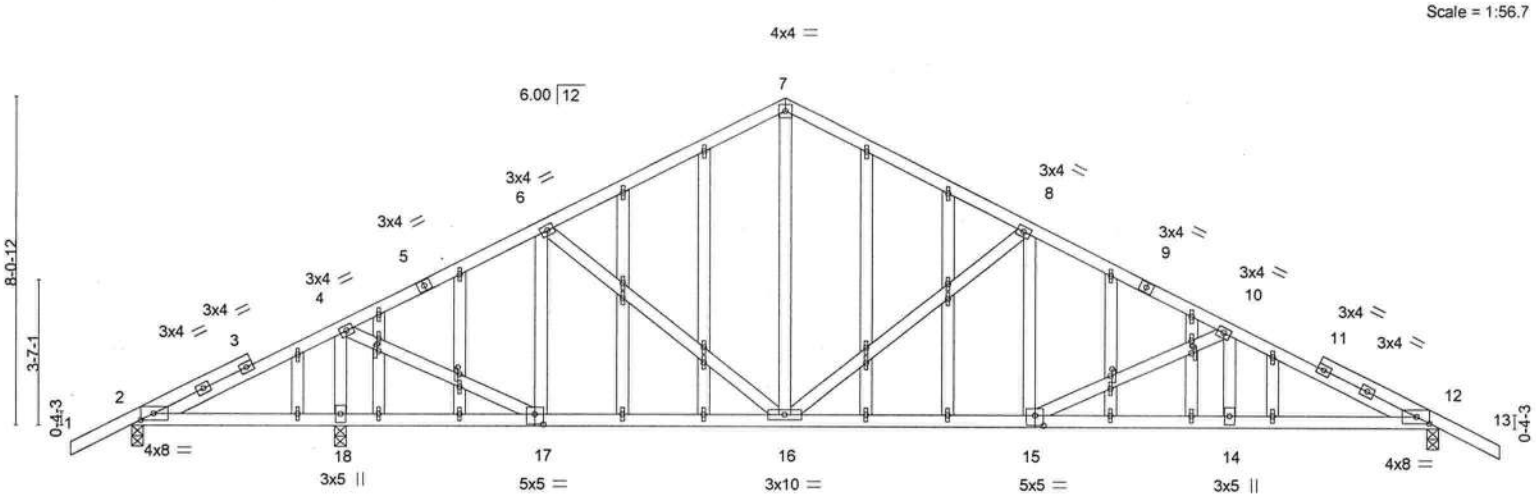
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ADDITION	E5543500
OSTEENJ1	AET	GABLE	1	1	Job Reference (optional)	

SANTA FE TRUSS COMPANY, INC., HIGH SPRINGS, FL — 7.140 s Oct 1 2009 MiTek Industries, Inc. Fri Dec 11 09:00:32 2009 Page 1

-1-6-0	5-1-12	10-1-0	16-1-0	22-1-0	27-0-4	32-2-0	33-8-0
1-6-0	5-1-12	4-11-4	6-0-0	6-0-0	4-11-4	5-1-12	1-6-0

Scale = 1:56.7



5-1-12	10-1-0	16-1-0	22-1-0	27-0-4	32-2-0
5-1-12	4-11-4	6-0-0	6-0-0	4-11-4	5-1-12

Plate Offsets (X,Y): [2:0-3-12,0-2-0], [12:0-3-12,0-2-0], [15:0-2-8,0-3-0], [17:0-2-8,0-3-0], [25:0-2-0,0-0-8], [29:0-2-0,0-0-8], [40:0-2-0,0-0-8], [46:0-2-0,0-0-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	0.12	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.17	15-16	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.05	12	n/a	n/a		
BCDL	10.0	Code FBC2007/TPI2002		(Matrix)							Weight: 238 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=54/0-3-8, 18=1565/0-3-8, 12=1128/0-3-8
Max Horz 2=137(LC 5)
Max Uplift 2=-75(LC 10), 18=-964(LC 5), 12=-734(LC 6)
Max Grav 2=132(LC 9), 18=1565(LC 1), 12=1128(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-4=-392/612, 4-6=-874/549, 6-7=-999/683, 7-8=-999/664, 8-10=-1570/985, 10-12=-2083/1259, 12-13=0/39
BOT CHORD 2-18=-492/416, 17-18=-492/416, 16-17=-381/727, 15-16=-665/1348, 14-15=-1040/1844, 12-14=-1040/1844
WEBS 7-16=-435/499, 8-16=-682/541, 8-15=-278/398, 10-15=-546/413, 10-14=-96/197, 6-16=-53/211, 6-17=-467/219, 4-17=-754/1344, 4-18=-1449/861

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; porch left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2, 964 lb uplift at joint 18 and 734 lb uplift at joint 12.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

FL Cert. #7239

December 11,2009

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

WINDLOAD ANALYSIS

PREPARED BY

DRISCOLL ENGINEERING,INC.

CONSULTING ENGINEERS

PO BOX 357577
GAINESVILLE, FL. 32606

CA 8690
PH (352) 331-1513

11-15-09

PREPARED FOR

CLIENT: OSTEEN ADDITION
479 SEDGEFIELD RD.
FT WHITE, FL

DS09-247

INDEX

PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE 2007 FLORIDA BUILDING CODE AND TO THE 2009 AMENDMENTS TO THE FLORIDA BUILDING CODE.

FOR WINDLOAD ANALYSIS ONLY

MICHAEL E. DRISCOLL P.E.
FL REG. #43922

11-20-09

WIND ANALYSIS SUMMARY

DRISCOLL ENGINEERING, Inc.
P.O. BOX 357577.
Gainesville, FL 32606
352-331-1513
C.A. 8690

Project No. **DS09-247**

Michael E. Driscoll, P.E.
FL Registration No. 43922

1. Name: OSTEEN ADDITION
2. Address: 479 SEDGEFIELD RD. FT WHITE, Fl
3. Description: New Addition

Certification

I hereby certify that the accompanying wind load analysis for the New Addition as described above demonstrates compliance with the FBC 2007 Section 1609, to the best of my knowledge.

Project Wind load Information

1. Basic wind speed for this design = 110 MPH
2. Wind importance factor use 1.0
3. Wind exposure for this design is Exposure B
4. Interior Pressure Coefficient or Gcpi = +/- 0.18
5. For design of MWFRS:
   a. Transverse on roof: end zone = 7.3 P.S.F., interior zone = 6.4 P.S.F.
   b. Longitudinal on wall: end zone = 19.2 P.S.F., interior zone = 12.7 P.S.F.
6. For design of Components & Cladding as follows:
   Zone 1 = +13.0 & -20.0 P.S.F.
   Zone 2 = +13.0 & - 35.0 P.S.F.
   Zone 3 = +13.0 & - 51.0 P.S.F.
   Zone 4 = +21.8 & - 23.6 P.S.F.
   Zone 5 = +21.8 & - 29.1 P.S.F.

Drawings

See drawings for additional details. In case of conflict, the more restrictive requirements of the drawings or these calculations govern.

Roof Structure

1. Trusses: Pre-engineered wood trusses at 24" o.c. The Truss engineering for this project was not available prior to the preparation of these wind-load calculations. A Typical Connector Schedule is provided for the convenience of the owner/builder as a selection guide only. If the truss uplift from the truss engineering exceeds the capacity of the specified connector, contact the Engineer immediately. Signed & Sealed Truss engineering shall be provided to Driscoll Engineering for review and confirmation of connector selection prior to beginning construction.

1. Roof Sheathing: Sheathing to be or 7/16" OSB min. to adequately resist exterior shear and uplift forces due to nailing. Panels to be facenailed w/ #8 ring shank @ 4" oc along edges and @ 8" oc along interior supports. Galv. metal edging to be nailed @ 4" oc.

   Asphalt shingles Asphalt shingle roofing shall be installed per mfg. specifications to meet 110 m.p.h. wind loading & in accord with the Florida Building Code 2007 & 2009 amendments.

Exterior load bearing & shearwalls

1 Studs: Studs: 2 x 4 @ 16" o.c.
Governing load combination: dead + wind
Fv D+W = 55 psi
Fb D-W = 1900 psi
Use: SPF No. 2 grade or better

2. Shearwall Sheathing Minimum 7/16 structural sheathing, sheathing grade; attach all edges to framing with 8d common nails @ 6" o.c. attach to intermediate framing with 8d common nails @ 12" o.c. Sheathing shall be applied to outside face of **all exterior frame walls.** Use same nail pattern referenced above for non-shearwall segments also. Note that 8d common nails have a min 0.131 diameter.

Headers

1. Provide headers in accordance with Section 2308 of the *Florida Building Code, 2007.u.n.o.*
2. All wood header & beam connections to trusses shall be designed & engineered by the roof truss mfg.

Gable End Walls

Construct a ceiling diaphragm using a minimum 5/8" thick gypsum board fastened directly to the bottom chord of each truss with 5d cooler nails or GWB-54 1 5/8" nails at 7" o.c. Install full depth blocking at 4 ft. maximum o.c. in the first four framing spaces from each end

Foundations (sizes based on wind load requirements only)

Stemwall footing:	10"T x 20"W; reinforce with (2) #5 continuous bars. Provide (2) #5x 25"x 25" bars at each corner or intersection. Lap bars 25".
Anchor Bolts	Anchor bolts shall be ½" dia. @ 32" max spacing & within 6" of each corner & each wall opening 7" min embed.

M.E. Driscoll, P.E.
Effective 01-01-09

+GENERAL NOTES

Design Criteria

1. Structure to meet wind load requirements of FBC 2007 & 2009 amendments to SEC. 1609 for a design wind speed of 110 mph.
2. Wood framing and fasteners to meet NDS-2005 requirements.
3. Fastener requirements: (1) All nails are Common galvanized; (2) all bolts are to be galvanized steel and include nuts and washers; and (3) all other hardware (Simpson, etc.) is to be installed according to manufacturer's specifications and recommendations. Nailing (size and number) shall satisfy Tables 2306.3.1, 2306.3.2 and 2306.4.1 FBC unless otherwise indicated. Note: fasteners exposed to the weather are to be treated for weather resistance and compatible with the type of pressure treated wood used (connectors, nails, bolts, nuts and washers).
4. Fasteners shall be driven flush with surface of sheathing.

Concrete Construction Notes

1. Concrete work shall conform to "Building Code Requirements for Reinforced Concrete" (ACI-318) and "Specifications for Structural Concrete" (ACI-301), Latest Edition.
2. Concrete Mix "A" shall be used for foundation walls, footings and interior slabs on grade. Concrete mix "B" shall be used for exterior slabs, curbs and all other exterior concrete. All concrete mixes shall contain a water-reducing admixture conforming to ASTM C-494. Air-entraining admixture shall conform to ASTM C-260.

	Mix A	Mix B
Ultimate Compressive Strength @ 28 days	3000 psi	3000 psi
Slump Range	4"+/-1"	3"+/-1"
Maximum Aggregate Size	1"	1"
Entrained Air	None	5-7%
Dry Weight per Cubic Foot	150#	150#

3. All concrete shall be cured for a minimum of 28 days. If forms for vertical surfaces are removed prior to the end of the curing period, spray surfaces with liquid membrane curing compound.
4. Reinforcing steel shall conform to ASTM A615, Grade 40 (Fy=40 ksi). Lap continuous bars for tension lap splice per ACI-318, unless otherwise noted. Provide corner bars of same size and spacing as horizontal wall reinforcement. Cover for concrete reinforcing steel shall be in accordance with ACI-318, Paragraph 7.7.
5. Welded wire fabric (WWF) shall conform to ASTM A185. Lap sheets on mesh space and wire tie adjacent sheets together securely. Cut alternate reinforcement at control joints.
6. All slabs on grade shall have construction or control joints not to exceed 15' – 0" spacing, unless otherwise noted.
7. Electrical conduit and other pipes to be embedded in structural concrete floor slabs or walls shall be placed in accordance with the requirements of ACI-318, Paragraph 6.3.

Masonry Construction Notes

1. Concrete masonry work shall conform to "Building Code Requirements for Masonry Structures" (ACI 530-02/ASCE5-02) and "Specifications for Masonry Structures: (ACI 530.1-02/ASCE6-02).
2. Concrete masonry units shall be Type 1 and comply with "Standard Specifications for Hollow Load-Bearing Concrete Masonry Units" (ASTM C90-90).
3. The minimum net area compressive strength of masonry (f'm), as determined by the unit strength method, shall be 1500 psi.
4. Mortar shall conform to ASTM C270. Type M Mortar shall be used unless otherwise noted. Type S Mortar shall be used with masonry in contact with earth.
5. Masonry column reinforcement shall have #2 ties in the bed joints at 8" oc, unless otherwise noted.
6. Grout for filling block cores and bond beams shall have a minimum compressive strength (f'c) of 3000 psi at the age of 28 days.

PROFESSIONAL SERVICES BY
DRISCOLL ENGINEERING,INC.
PO BOX 357577.
GAINESVILLE, FL 32609
PH (352)-331-1513
CA 8690

PLANS AND SPECIFICATIONS

The plans and specifications presented herein are applicable only for the anticipated construction at the locations shown. If construction plans change, the Design Professional should be notified so the plans and specifications can be re-evaluated. The Design Professional should be given the opportunity to review final plans and specifications to see if the intent of the plans and specifications has been followed and/or if supplemental details and recommendations are needed. The Design Professional warrants that the plans and specifications contained herein, have been prepared in accordance with generally accepted professional engineering practice. No other warranties are implied or expressed.

CORPORATE PROTECTION

It is understood and agreed that the Design Professional's Basic Services under this Agreement do not include project observation or review of the Contractor's performance or any other construction phase services, and that such services will be provided by the Client. The Client assumes all responsibility for interpretation of the contractor Documents and for construction observation and supervision and waives any claims against the Design Professional that may be in any way connected thereto.

In addition, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any loss, claim or cost, including reasonable attorney's fees and costs of defense, arising or resulting from the performance of such services by other person or entities and from any and all claims arising from modifications, clarifications, interpretations, adjustments or changes made to Contract Documents to reflect changed field or other conditions, except for claims arising from the sole negligence or willful misconduct to the Design Professional.

OWNERSHIP OF INSTRUMENTS OF SERVICE

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Design Professional as instruments of service shall remain the property of the Design Professional. The Design Professional shall retain all common law, statutory and other reserved rights, including the copyright thereto.

DEFECTS IN SERVICE

The Client shall promptly report to the Design Professional any defects or suspected defects in the Design Professional's work or services of which the Client becomes aware, so that the Design Professional may take measures to minimize the consequences of such a defect. The Client warrants that he or she will impose a similar notification requirement on all contractors in his or her Client/Contractor contract and shall require all subcontractors at any level to contain a like requirement. Failure by the Client, and the Client's contractors or subcontractors to notify the Design Professional, shall relieve the Design Professional of the costs of remedying the defects above the sum such remedy would have cost had prompt notification been given.

VERIFICATION OF EXISTING CONDITIONS

Inasmuch as the remodeling and/or rehabilitation of an existing building requires that certain assumptions be made regarding existing conditions, and because some of these assumptions may not be verifiable without expending additional sums of money or destroying otherwise adequate or serviceable portions of the building, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any claim, liability or cost (including reasonable attorney's fees and costs of defense) for injury or economic loss arising or allegedly arising out of the professional services provided under this Agreement, excepting only those damages, liabilities, or costs attributable to the sole negligence or willful misconduct of the Design Professional.

Driscoll Engineering Inc.
PO BOX 357577
Gainesville FL
352 331 1513
fx 352 333 6996

JOB TITLE	OSTEEN		
	279 SEDGEFIELD RD FT WHITE, FL		
JOB NO.	DS09-247	SHEET NO.	
CALCULATED BY	MED	DATE	11/17/2009
CHECKED BY		DATE	

WINDLOAD ANALYSIS ONLY

STRUCTURAL CALCULATIONS

FOR

OSTEEN

FT WHITE, FL

Driscoll Engineering Inc.
PO BOX 357577
Gainesville FL
352 331 1513
fx 352 333 6996

JOB TITLE OSTEEN
279 SEDGEFIELD RD FT WHITE, FL
JOB NO. DS09-247 SHEET NO.
CALCULATED BY MED DATE 11/17/09
CHECKED BY DATE

Code Search

I. Code: Florida Building Code 2007

II. Occupancy:

Occupancy Group = R Residential

III. Type of Construction:

Fire Rating:
Roof = 0.0 hr
Floor = 0.0 hr

IV. Live Loads:

Roof angle (θ) 6.00 / 12 26.6 deg

Roof	0 to 200 sf:	18 psf
	200 to 600 sf:	21.6 - 0.018Area, but not less than 12 psf
	over 600 sf:	12 psf
Floor		0 psf
Stairs & Exitways		100 psf
Balcony		0 psf
Mechanical		0 psf
Partitions		N/A

V. Wind Loads : ASCE 7 - 05

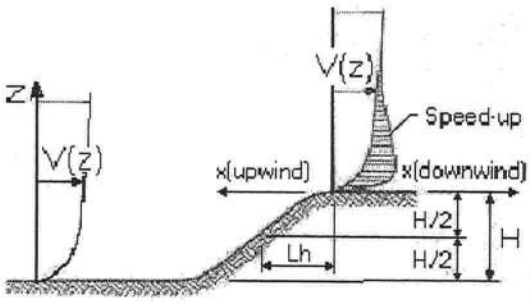
Importance Factor	1.00
Basic Wind speed	110 mph
Directionality (Kd)	0.85
Mean Roof Ht (h)	12.0 ft
Parapet ht above grd	0.0 ft
Exposure Category	B
Enclosure Classif.	Enclosed Building
Internal pressure	+/-0.18
Building length (L)	74.0 ft
Least width (B)	32.0 ft
Kh case 1	0.701
Kh case 2	0.575

Topographic Factor (Kzt)

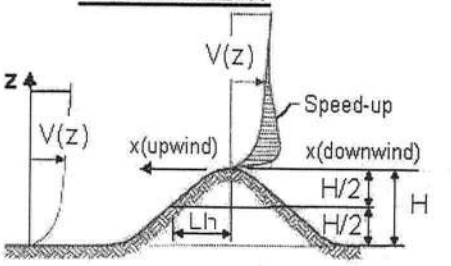
Topography	Flat	
Hill Height (H)	0.0 ft	H< 60ft;exp B
Half Hill Length (Lh)	0.0 ft	∴ Kzt=1.0
Actual H/Lh =	0.00	
Use H/Lh =	0.00	
Modified Lh =	0.0 ft	
From top of crest: x=	50.0 ft	
Bldg up/down wind?	downwind	

H/Lh= 0.00	K_1 =	0.000
x/Lh = 0.00	K_2 =	0.000
z/Lh = 0.00	K_3 =	1.000

At Mean Roof Ht:
$Kzt = (1+K_1K_2K_3)^2$ = 1.00



ESCARPMENT

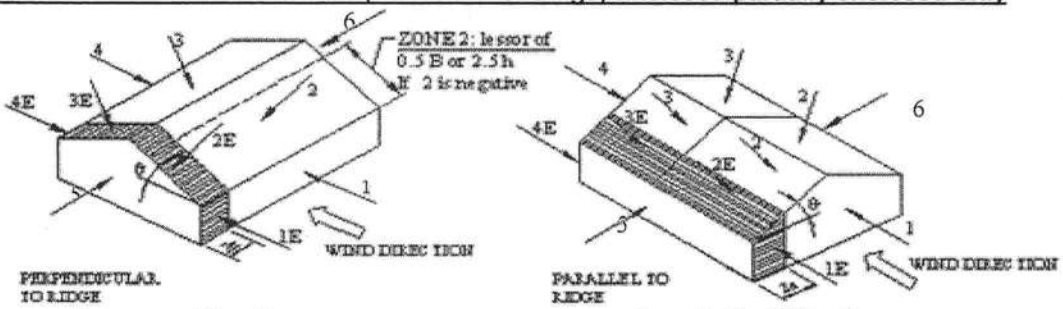


2D RIDGE or 3D AXISYMMETRICAL HILL

Driscoll Engineering Inc.
PO BOX 357577
Gainesville FL
352 331 1513
fx 352 333 6996

JOB TITLE OSTEEN
279 SEDGEFIELD RD FT WHITE, FL
JOB NO. DS09-247 **SHEET NO.**
CALCULATED BY MED **DATE** 11/17/09
CHECKED BY **DATE**

V. Wind Loads - MWFRS h≤60' (Low-rise Buildings) Enclosed/partially enclosed only



Torsional loads are 25% of zones 1 - 4. See code for loading diagram

Transverse Direction

Kz = Kh = 0.70 (case 1)
Base pressure (qh) = **18.4 psf**
GCpi = +/-0.18

Longitudinal Direction

Edge Strip (a) 3.2 ft
End Zone (2a) 6.4 ft
Zone 2 length = 16.0 ft

	Transverse Direction			Longitudinal Direction			
	Perpendicular θ = 26.6 deg			Parallel θ = 0deg			
Surface	GCpf	w/-GCpi	w/+GCpi	GCpf	w/-GCpi	w/+GCpi	
1	0.55	0.73	0.37	0.40	0.58	0.22	
2	-0.10	0.08	-0.28	-0.69	-0.51	-0.87	
3	-0.45	-0.27	-0.63	-0.37	-0.19	-0.55	
4	-0.39	-0.21	-0.57	-0.29	-0.11	-0.47	
5	-0.45	-0.27	-0.63	-0.45	-0.27	-0.63	
6	-0.45	-0.27	-0.63	-0.45	-0.27	-0.63	
1E	0.73	0.91	0.55	0.61	0.79	0.43	
2E	-0.19	-0.01	-0.37	-1.07	-0.89	-1.25	
3E	-0.58	-0.40	-0.76	-0.53	-0.35	-0.71	
4E	-0.53	-0.35	-0.71	-0.43	-0.25	-0.61	

Wind Surface pressures (psf) - use 10 psf minimum for zones 1 plus 4 and 5 plus 6

1	13.5	6.8	10.7	4.1	
2	1.5	-5.1	-9.4	-16.0	
3	-4.9	-11.6	-3.5	-10.1	
4	-3.9	-10.5	-2.0	-8.7	
5	-5.0	-11.6	-5.0	-11.6	
6	-5.0	-11.6	-5.0	-11.6	
1E	16.7	10.1	14.6	7.9	
2E	-0.2	-6.8	-16.4	-23.1	
3E	-7.5	-14.1	-6.5	-13.1	
4E	-6.5	-13.2	-4.6	-11.3	

MWFRS Simple Diaphragm Pressures (psf)

Transverse direction (normal to L)

Interior Zone: Wall 17.3 psf
Roof 6.4 psf
End Zone: Wall 23.3 psf
Roof 7.3 psf

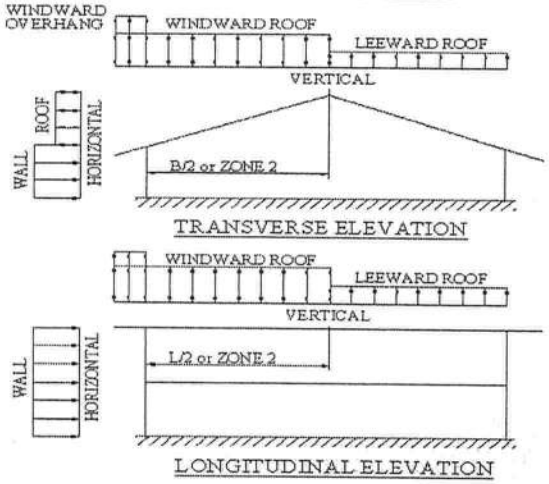
Longitudinal direction (parallel to L)

Interior Zone: Wall 12.7 psf
End Zone: Wall 19.2 psf

Windward roof overhangs: 12.5 psf (upward) add to windward roof pressure

Parapet

Windward parapet: 0.0 psf (GCpn = +1.8)
Leeward parapet: 0.0 psf (GCpn = -1.1)



Driscoll Engineering Inc.
PO BOX 357577
Gainesville FL
352 331 1513
fx 352 333 6996

JOB TITLE OSTEEN
279 SEDGEFIELD RD FT WHITE, FL
JOB NO. DS09-247 SHEET NO.
CALCULATED BY MED DATE 11/17/09
CHECKED BY DATE

V. Wind Loads - Components & Cladding: Buildings h≤60' & Alternate design 60'<h<90'

Kz = Kh (case 1) = 0.70 GCpi = +/-0.18
Base pressure (qh) = **18.4 psf** a = 3.2 ft
Minimum parapet height at building perimeter = 0.0 ft

NOTE: If tributary area is greater than 700sf, MWFRS pressure may be used.

Roof Angle = 26.6 deg
Type of roof = Gable

Roof	GCp +/- GCpi			Surface Pressure (psf)			**User input**	
Area	10 sf	50 sf	100 sf	10 sf	50 sf	100 sf	64 sf	70 sf
Negative Zone 1	-1.08	-1.01	-0.98	-20 psf	-19 psf	-18 psf	-18 psf	-18 psf
Negative Zone 2	-1.88	-1.53	-1.38	-35 psf	-28 psf	-25 psf	-27 psf	-27 psf
Negative Zone 3	-2.78	-2.36	-2.18	-51 psf	-44 psf	-40 psf	-42 psf	-42 psf
Positive All Zones	0.68	0.54	0.48	13 psf	10 psf	10 psf	10 psf	10 psf
Overhang Zone 2	-2.20	-2.20	-2.20	-41 psf	-41 psf	-41 psf	-41 psf	-41 psf
Overhang Zone 3	-3.70	-2.86	-2.50	-68 psf	-53 psf	-46 psf	-50 psf	-50 psf

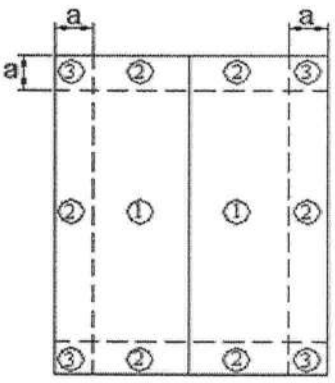
Walls	GCp +/- GCpi			Surface Pressure (psf)			**User input**	
Area	10 sf	100 sf	500 sf	10 sf	100 sf	500 sf	50 sf	200 sf
Negative Zone 4	-1.28	-1.10	-0.98	-23.6 psf	-20.4 psf	-18.1 psf	-21.3 psf	-19.4 psf
Negative Zone 5	-1.58	-1.23	-0.98	-29.1 psf	-22.6 psf	-18.1 psf	-24.6 psf	-20.7 psf
Positive Zone 4 & 5	1.18	1.00	0.88	21.8 psf	18.5 psf	16.2 psf	19.5 psf	17.5 psf

Parapet

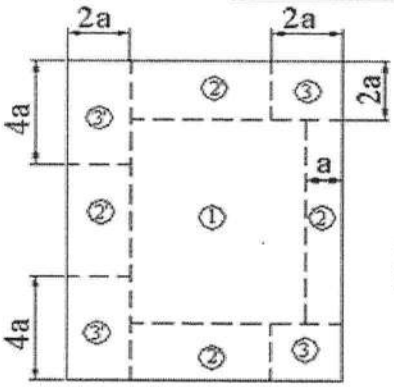
qp = 0.0 psf

CASE A = pressure towards building
CASE B = pressure away from building

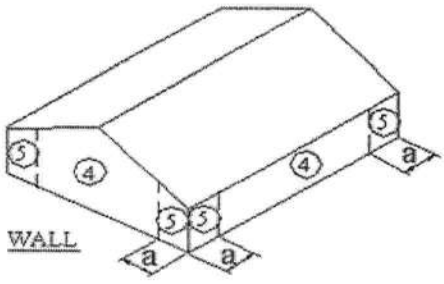
Solid Parapet Pressure	10 sf	100 sf	500 sf
CASE A : Interior zone :	0.0 psf	0.0 psf	0.0 psf
Corner zone :	0.0 psf	0.0 psf	0.0 psf
CASE B : Interior zone :	0.0 psf	0.0 psf	0.0 psf
Corner zone :	0.0 psf	0.0 psf	0.0 psf

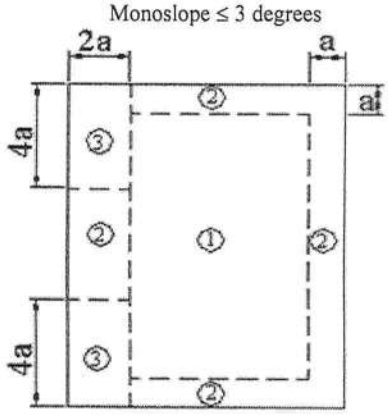


θ ≤ 7 degrees and
Monoslope ≤ 3 degrees

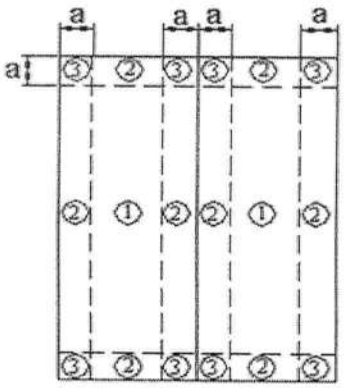


Monoslope roofs
3° < θ ≤ 10°

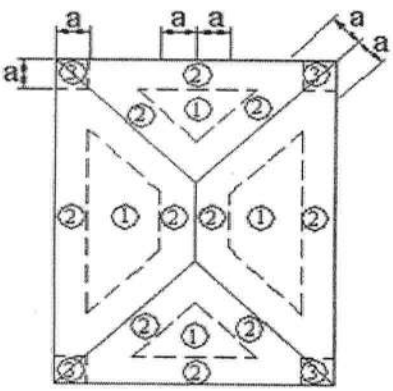




Monoslope roofs 10° < θ ≤ 30°



θ > 7 degrees



θ > 7 degrees

WoodWorks® Shearwalls 8.11

Untitled Nov. 17, 2009 10:53:36

Project Information

COMPANY AND PROJECT INFORMATION

Company	Project
DRISCOLL ENGINEERING INC PO BOX 357577 GAINESVILLE, FL CA 8690	OSTEEN ADDITION 479 SEDGEFIELD RD FT WHITE, FL REAR ADDITION

DESIGN SETTINGS

Design Code	Wind Standard	Seismic Standard
IBC 2006	ASCE 7-05 All heights	ASCE 7-05

Wind Capacity Increase		Load Combinations	Building Code Capacity Reduction	
Shear	C&C Panels		Wind	Seismic
1.40	1.60	1.00 Wind	1.00	1.00

Nail Withdrawal Modification				Max Shearwall Offset [ft]	
Duration Factor	Temperature Range	Moisture Content		Plan (within story)	Elevation (between stories)
		Fabrication	Service		
1.60	T<=100F	>19%	>19%	0.50	-

Maximum Height-to-width Ratio						
Plywood		Fiberboard	Lumber		Gypsum	
Wind	Seismic		Wind	Seismic	Blocked	Unblocked
3.5	-	-	-	-	2.0	1.5

Shearwall Relative Rigidity:	Designed capacity using flexible distribution
Hold-down Forces:	Based on applied shearline force
Seismic Materials:	-
Case 2 rigid diaphragm load distribution:	75% loads, torsional moment

SITE INFORMATION

IBC Occupancy	ASCE 7 Equivalent
Category II - All others	Category II - All others

Wind	Seismic
ASCE 7-05 General analytic method for all bldgs	-

Design Wind Speed	110mph	**Structure Type**	
Exposure	Exposure B	**Design Category**	-
Enclosure	Enclosed	**Site Class**	-

Topographic Information [ft]			Spectral Response Acceleration	
Shape	Height	Length	S1: -	Ss: -
-	-	-		
Site Location: -				
-				
-				

Fundamental Period	E-W	N-S
T Used	-	-
Approximate Ta	-	-
Maximum T	-	-
Response Factor R	-	-
Fa:	Fv:	

Structural Data

STORY INFORMATION

	Story Elev [ft]	Floor/Ceiling Depth [in]	Wall Height [ft]
Ceiling	10.83	0.0	
Level 1	2.83	10.0	8.00
Foundation	2.00		

BLOCK and ROOF INFORMATION

	Block Dimensions [ft]		Roof Panels			
			Face	Type	Slope	Overhang [ft]
Block 1	1 Story	N-S Ridge				
Location X,Y =	0.00	0.00	**North**	Gable	90.0	1.50
Extent X,Y =	19.00	31.00	**South**	Gable	90.0	1.50
Ridge X Location, Offset	9.50	0.00	**East**	Side	26.6	1.50
Ridge Elevation, Height	15.59	4.76	**West**	Side	26.6	1.50

MATERIALS by WALL GROUP

Wall		Sheathing [in]			Fasteners		Spcg [in]		Framing Members [in]				Apply
Grp	Surf	Material	Thick	Orient	Size	Type	Edg	Fld	Blkg	Species	G	Spc	Notes
1	Ext	Structural I	7/16	Vert	8d	Nail	4	12	yes	S-P-F	0.42	16	1,3
	Int	Gyp WB 1-ply	1/2	Horz	5d	Nail	7	7	yes	S-P-F	0.42	16	

Legend:
Grp - Wall Design Group; Surf - Exterior or interior surface of exterior wall; Spcg - Edge or field nail spacing; Blkg - Blocked; G - Specific gravity; Spc - Wall stud spacing
Notes:
1. Capacity has been reduced according to IBC specific gravity adjustment.
3. Shear capacity for current design has been increased to the value for 15/32" sheathing with same nailing because stud spacing is 16" max. or panel orientation is horizontal.

SHEARLINE, WALL and OPENING DIMENSIONS

North-south Shearlines	Type	Wall Group(s)	Location X [ft]	Extent [ft] Start	Extent [ft] End	Length [ft]	FHS [ft]	Height [ft]
Line 1								
Level 1								
Line 1, Level 1	Seg	1	0.00	0.00	31.00	31.00	28.00	8.00
Wall 1-1	Seg	1	0.00	0.00	31.00	31.00	28.00	-
Opening 1		-	-	13.50	16.50	3.00	-	4.00
Line 2								
Level 1								
Line 2, Level 1	Seg	1	19.00	0.00	31.00	31.00	25.00	8.00
Wall 2-1	Seg	1	19.00	0.00	31.00	31.00	25.00	-
Opening 1		-	-	10.50	16.50	6.00	-	6.75

East-west Shearlines	Type	Wall Group(s)	Location Y [ft]	Extent [ft] Start	Extent [ft] End	Length [ft]	FHS [ft]	Height [ft]
Line A								
Level 1								
Line A, Level 1	Seg	1	0.00	0.00	19.00	19.00	19.00	8.00
Wall A-1	Seg	1	0.00	0.00	19.00	19.00	19.00	-
Line B								
Level 1								
Line B, Level 1	Seg	1	31.00	0.00	19.00	19.00	19.00	8.00
Wall B-1	Seg	1	31.00	0.00	19.00	19.00	19.00	-

Legend:
Type - Seg = segmented, prf = perforated, NSW = non-shearwall; Location - dimension perp. to wall; FHS - length of full-height sheathing; Wall Group(s) - refer to Materials by Wall Group table, refer to Shear Results tables for each design case if more than one group

Loads

WIND SHEAR LOADS (as entered or generated)

Level 1 Block	F	Element	Load Case	Wnd Dir	Surf Dir	Prof	Location [ft] Start	Location [ft] End	Magnitude [lbs,plf,psf] Start	Magnitude [lbs,plf,psf] End	Trib Ht [ft]
Block 1	W	Roof	2	W->E	Wind	Line	-1.50	32.50	7.4		
Block 1	W	Roof	1	W->E	Wind	Line	-1.50	32.50	9.9		
Block 1	W	Wall	1	W->E	Wind	Line	0.00	31.00	41.2		
Block 1	W	Wall	2	W->E	Wind	Line	0.00	31.00	30.9		
Block 1	E	Roof	1	W->E	Lee	Line	-1.50	32.50	40.3		
Block 1	E	Roof	2	W->E	Lee	Line	-1.50	32.50	30.2		
Block 1	E	Wall	1	W->E	Lee	Line	0.00	31.00	25.7		
Block 1	E	Wall	2	W->E	Lee	Line	0.00	31.00	19.3		
Block 1	W	Roof	1	E->W	Lee	Line	-1.50	32.50	40.3		
Block 1	W	Roof	2	E->W	Lee	Line	-1.50	32.50	30.2		
Block 1	W	Wall	2	E->W	Lee	Line	0.00	31.00	19.3		
Block 1	W	Wall	1	E->W	Lee	Line	0.00	31.00	25.7		
Block 1	E	Roof	1	E->W	Wind	Line	-1.50	32.50	9.9		
Block 1	E	Roof	2	E->W	Wind	Line	-1.50	32.50	7.4		
Block 1	E	Wall	1	E->W	Wind	Line	0.00	31.00	41.2		
Block 1	E	Wall	2	E->W	Wind	Line	0.00	31.00	30.9		
Block 1	S	Wall	1	S->N	Wind	Line	0.00	19.00	41.2		
Block 1	S	L Gable	2	S->N	Wind	Line	0.00	9.50	0.0	34.8	
Block 1	S	L Gable	1	S->N	Wind	Line	0.00	9.50	0.0	46.4	
Block 1	S	Wall	2	S->N	Wind	Line	0.00	19.00	30.9		
Block 1	S	R Gable	2	S->N	Wind	Line	9.50	19.00	34.8	0.0	
Block 1	S	R Gable	1	S->N	Wind	Line	9.50	19.00	46.4	0.0	
Block 1	N	L Gable	1	S->N	Lee	Line	0.00	9.50	0.0	21.7	
Block 1	N	L Gable	2	S->N	Lee	Line	0.00	9.50	0.0	16.2	
Block 1	N	Wall	2	S->N	Lee	Line	0.00	19.00	14.4		
Block 1	N	Wall	1	S->N	Lee	Line	0.00	19.00	19.2		
Block 1	N	R Gable	2	S->N	Lee	Line	9.50	19.00	16.2	0.0	
Block 1	N	R Gable	1	S->N	Lee	Line	9.50	19.00	21.7	0.0	
Block 1	S	Wall	1	N->S	Lee	Line	0.00	19.00	19.2		
Block 1	S	L Gable	2	N->S	Lee	Line	0.00	9.50	0.0	16.2	
Block 1	S	Wall	2	N->S	Lee	Line	0.00	19.00	14.4		
Block 1	S	L Gable	1	N->S	Lee	Line	0.00	9.50	0.0	21.7	
Block 1	S	R Gable	2	N->S	Lee	Line	9.50	19.00	16.2	0.0	
Block 1	S	R Gable	1	N->S	Lee	Line	9.50	19.00	21.7	0.0	
Block 1	N	Wall	2	N->S	Wind	Line	0.00	19.00	30.9		
Block 1	N	L Gable	2	N->S	Wind	Line	0.00	9.50	0.0	34.8	
Block 1	N	Wall	1	N->S	Wind	Line	0.00	19.00	41.2		
Block 1	N	L Gable	1	N->S	Wind	Line	0.00	9.50	0.0	46.4	
Block 1	N	R Gable	1	N->S	Wind	Line	9.50	19.00	46.4	0.0	
Block 1	N	R Gable	2	N->S	Wind	Line	9.50	19.00	34.8	0.0	

Legend:
Block - Block used in load generation, Accum. = loads from one block combined with another, Manual = user-entered loads (so no block); F - Building face (north, south, east or west); Element - building surface on which loads generated or entered; Load Case - ASCE 7 All heights Case 1 or 2, ASCE 7 low rise T = Transverse, L = Longitudinal; Surf Dir - Windward or leeward side of the building; Prof - Profile (distribution); Location - start and end points on building element; Magnitude - Start = intensity of uniform and point loads or leftmost intensity of trapezoidal load, end = right intensity of trap load; Trib Ht - Tributary height of user-applied area loads only

WIND C&C LOADS

Block	Building Face	Level	Magnitude [psf] Interior	Magnitude [psf] End Zone
Block 1	West	1	23.6	29.1
Block 1	East	1	23.6	29.1
Block 1	South	1	23.6	29.1
Block 1	North	1	23.6	29.1

UPLIFT LOADS

Shear Line	Level	Profile	Tributary Width [ft]	Location [ft] Start	Location [ft] End	Mag [lbs,psf,psi] Start	Mag [lbs,psf,psi] End
B	1	Line		0.00	19.00	200.0	
1	1	Line		0.00	31.00	200.0	
2	1	Line		0.00	31.00	200.0	

Flexible Diaphragm Wind Design

SHEAR RESULTS

North-South Shearlines	W Gp	For Dir	Ld. Case	Shear Force [plf] V [lbs]	vmax	V/FHS	Allowable Shear [plf] Int	Ext	Co	C	Total	V [lbs]	Crit. Resp.
Line 1													
Level 1													
Ln1, Lev1	1	Both	1	897	32.0	32.0	125	554	1.00	A	679	19008	0.05
Line 2													
Ln2, Lev1	1	Both	1	897	35.9	35.9	125	554	1.00	A	679	16971	0.05

East-West Shearlines	W Gp	For Dir	Ld. Case	Shear Force [plf] V [lbs]	vmax	V/FHS	Allowable Shear [plf] Int	Ext	Co	C	Total	V [lbs]	Crit. Resp.
Line A													
Level 1													
LnA, Lev1	1	Both	1	1889	99.4	99.4	125	554	1.00	A	679	12898	0.15
Line B													
LnB, Lev1	1	Both	1	1889	99.4	99.4	125	554	1.00	A	679	12898	0.15

Legend:
W Grp - Wall group as listed in Materials table; For Dir - Direction of wind force along shearline; Ld. case - Critical load case: ASCE 7 All heights Case 1 or 2, ASCE 7 low rise T = Transverse, L = Longitudinal, all other results are for this load case; V - Factored shear force applied to entire line and amount taken by each wall; vmax - Base shear V/FHS/Co = Factored shear force per unit full height sheathing, divided by perforation factor Co as per SDPWS eqn. 4.3-6, and IBC eqn. 23-4.
*Following values marked with * means that value for shearline is the one for wall with critical design response on line; V/FHS* - Design shear force = factored shear force per unit full height sheathing, Int* - Unit shear capacity of interior sheathing; Ext* - Unit shear capacity of exterior sheathing Co* - Perforation factor; C - Sheathing combination rule, A = Add capacities, S = Strongest side only, X = Strongest side or twice weakest; Total* - Combined unit shear capacity inc. perforation factor; V - Combined shear capacity of wall or total capacity of shearline ; Crit Resp* - Critical response = Vapp/FHS/Vcap = design shear force/unit shear capacity*
Notes:
V/FHS shown is shear force for use in shearwall design. Vmax shown is V/FHS divided by perforation factor Co; it is the base shear to be used in connection and collector design using IBC 2305.3.8.2.5 and SDPWS 4.3.6.4.1.1.
Refer to Elevation View diagrams for individual level for uplift anchorage force t for perforated walls given by IBC 2305.3.8.2.6,8 and SDPWS 4.3.6.4.2,4.

DRAGSTRUT AND HOLDDOWN FORCES

Level 1 Line-Wall	Position on Wall or Opening	Location [ft] X	Location [ft] Y	Ld. Case	Tensile Holddown Force [lbs] Shear	Dead	Uplift	Cmb'd	Dragstrut Force [lbs]
Line 1									
1-1	Left Wall End	0.00	0.12	1	256		1350	1606	
1-1	Left Opening 1	0.00	13.38	1	256		1650	1906	
1-1	Right Opening 1	0.00	16.62	1	256		1750	2006	
1-1	Right Wall End	0.00	30.88	1	256		1450	1706	
1-1	Left Opening 1	0.00	13.50	1					42
1-1	Right Opening 1	0.00	16.50	1					45
Line 2									
2-1	Left Wall End	19.00	0.12	1	287		1050	1337	
2-1	Left Opening 1	19.00	10.38	1	287		1650	1937	
2-1	Right Opening 1	19.00	16.62	1	287		2050	2337	
2-1	Right Wall End	19.00	30.88	1	287		1450	1737	
2-1	Left Opening 1	19.00	10.50	1					73
2-1	Right Opening 1	19.00	16.50	1					101
Line A									
A-1	Left Wall End	0.12	0.00	1	795			795	
A-1	Right Wall End	18.88	0.00	1	795			795	
Line B									
B-1	Left Wall End	0.12	31.00	1	795		1900	2695	
B-1	Right Wall End	18.88	31.00	1	795		1900	2695	

Legend:
Line-Wall - Shearline for forces carried by vertical elements, wall for forces at wall or opening ends; Position...- Vert. element = column or strengthened studs req'dotherwise indicates stud location at wall end or opening;. Location - Co-ordinates in Plan View; Ld. Case - Results are for critical load case: ASCE 7 All heights Case 1 or 2, ASCE 7 low rise T = Transverse, L = Longitudinal; Shear - Factored wind shear overturning component, includes perforation factor Co ; Dead - Factored dead load resisting component; Uplift - Uplift wind load component; Cmb'd - Sum of factored overturning, dead and uplift forces; Dragstrut Force - Factored drag strut force at opening headers and gaps in walls along shearline, includes perforation factor(s) Co

Notes:
Dead load contribution to combined force is factored by 0.60 load combination factor
Refer to Shear Results table for perforation factors Co.
This table includes tension holddown forces only.

Rigid Diaphragm Wind Design

Rigid analysis performed using Case 2 loading in ASCE 7-05 Fig 6-9, using only the eccentricity prescribed to generate a torsional moment. For analysis using Case 1 loading, change the Rigid Diaphragm Analysis Design Setting, regenerate loads, and redesign.

SHEAR RESULTS

North-South Shearlines	W Gp	For Dir	Ld. Case	Shear Force [plf] V [lbs]	vmax	V/FHS	Allowable Shear [plf] Int	Ext	Co	C	Total	V [lbs]	Crit. Resp.
Line 1													
Level 1													
Ln1, Lev1	1	Both	2	780	27.9	27.9	125	554	1.00	A	679	19008	0.04
Line 2													
Ln2, Lev1	1	Both	2	704	28.2	28.2	125	554	1.00	A	679	16971	0.04

East-West Shearlines	W Gp	For Dir	Ld. Case	Shear Force [plf] V [lbs]	vmax	V/FHS	Allowable Shear [plf] Int	Ext	Co	C	Total	V [lbs]	Crit. Resp.
Line A													
Level 1													
LnA, Lev1	1	Both	2	1723	90.7	90.7	125	554	1.00	A	679	12898	0.13
Line B													
LnB, Lev1	1	Both	2	1723	90.7	90.7	125	554	1.00	A	679	12898	0.13

Legend:
W Grp - Wall group as listed in Materials table; For Dir - Direction of wind force along shearline; Ld. case - Critical load case: ASCE 7 All heights Case 1 or 2, ASCE 7 low rise T = Transverse, L = Longitudinal, all other results are for this load case; V - Factored shear force applied to entire line and amount taken by each wall; vmax - Base shear V/FHS/Co = Factored shear force per unit full height sheathing, divided by perforation factor Co as per SDPWS eqn. 4.3-6, and IBC eqn. 23-4.
*Following values marked with * means that value for shearline is the one for wall with critical design response on line; V/FHS* - Design shear force = factored shear force per unit full height sheathing, Int* - Unit shear capacity of interior sheathing; Ext* - Unit shear capacity of exterior sheathing Co* - Perforation factor; C - Sheathing combination rule, A = Add capacities, S = Strongest side only, X = Strongest side or twice weakest; Total* - Combined unit shear capacity inc. perforation factor; V - Combined shear capacity of wall or total capacity of shearline ; Crit Resp* - Critical response = Vapp/FHS/Vcap = design shear force/unit shear capacity*
Notes:
V/FHS shown is shear force for use in shearwall design. Vmax shown is V/FHS divided by perforation factor Co; it is the base shear to be used in connection and collector design using IBC 2305.3.8.2.5 and SDPWS 4.3.6.4.1.1.
Refer to Elevation View diagrams for individual level for uplift anchorage force t for perforated walls given by IBC 2305.3.8.2.6,8 and SDPWS 4.3.6.4.2,4.

DRAGSTRUT AND HOLDDOWN FORCES

Level 1 Line-Wall	Position on Wall or Opening	Location [ft] X	Location [ft] Y	Ld. Case	Tensile Holddown Force [lbs] Shear	Dead	Uplift	Cmb'd	Dragstrut Force [lbs]
Line 1									
1-1	Left Wall End	0.00	0.12	2	223		1350	1573	
1-1	Left Opening 1	0.00	13.38	2	223		1650	1873	
1-1	Right Opening 1	0.00	16.62	2	223		1750	1973	
1-1	Right Wall End	0.00	30.88	2	223		1450	1673	
1-1	Left Opening 1	0.00	13.50	2					36
1-1	Right Opening 1	0.00	16.50	2					39
Line 2									
2-1	Left Wall End	19.00	0.12	2	225		1050	1275	
2-1	Left Opening 1	19.00	10.38	2	225		1650	1875	
2-1	Right Opening 1	19.00	16.62	2	225		2050	2275	
2-1	Right Wall End	19.00	30.88	2	225		1450	1675	
2-1	Left Opening 1	19.00	10.50	2					57
2-1	Right Opening 1	19.00	16.50	2					79
Line A									
A-1	Left Wall End	0.12	0.00	2	725			725	
A-1	Right Wall End	18.88	0.00	2	725			725	
Line B									
B-1	Left Wall End	0.12	31.00	2	725		1900	2625	
B-1	Right Wall End	18.88	31.00	2	725		1900	2625	

Legend:
Line-Wall - Shearline for forces carried by vertical elements, wall for forces at wall or opening ends; Position...- Vert. element = column or strengthened studs req'dotherwise indicates stud location at wall end or opening;. Location - Co-ordinates in Plan View; Ld. Case - Results are for critical load case: ASCE 7 All heights Case 1 or 2, ASCE 7 low rise T = Transverse, L = Longitudinal; Shear - Factored wind shear overturning component, includes perforation factor Co ; Dead - Factored dead load resisting component; Uplift - Uplift wind load component; Cmb'd - Sum of factored overturning, dead and uplift forces; Dragstrut Force - Factored drag strut force at opening headers and gaps in walls along shearline, includes perforation factor(s) Co

Notes:
Dead load contribution to combined force is factored by 0.60 load combination factor
Refer to Shear Results table for perforation factors Co.
This table includes tension holddown forces only.

Wind Suction Design

COMPONENTS AND CLADDING by SHEARLINE

North-South Shearlines			Sheathing [psf]			Fastener Withdrawal [lbs]					Service Cond Factors	
			Force	Cap	Force/	Force		Cap	Force/Cap			
Line	Lev	Grp			Cap	End	Int		End	Int	Temp	Moist
1	1	1	29.1	48.0	0.61	39	31	68	0.57	0.46	1.00	1.00
2	1	1	29.1	48.0	0.61	39	31	68	0.57	0.46	1.00	1.00

East-West Shearlines			Sheathing [psf]			Fastener Withdrawal [lbs]					Service Cond Factors	
			Force	Cap	Force/	Force		Cap	Force/Cap			
Line	Lev	Grp			Cap	End	Int		End	Int	Temp	Moist
A	1	1	29.1	48.0	0.61	39	31	68	0.57	0.46	1.00	1.00
B	1	1	29.1	48.0	0.61	39	31	68	0.57	0.46	1.00	1.00

Legend:
Grp - Wall Design Group (results for all design groups for rigid, flexible design listed for each wall); Sheathing: Force - C&C end zone exterior pressures using negative (suction) coefficient in ASCE 7 Figure 6-11A added to interior pressure using coefficients from Figure 6-5; Cap - Factored out-of-plane bending capacity of exterior sheathing assuming continuous over 3 studs; Fastener Withdrawal: Force - Force tributary to each nail in end zone and interior zone; Cap - Factored withdrawal capacity of individual nail according to NDS 11.2-3.

WoodWorks® Shearwalls

SOFTWARE FOR WOOD DESIGN

WoodWorks® Shearwalls 8.11

Untitled

Nov. 17, 2009 11:13:45

Project Information

COMPANY AND PROJECT INFORMATION

Company	Project
DRISCOLL ENGINEERING INC PO BOX 357577 GAINESVILLE, FL CA 8620	OSTEEN ADDITION 479 SEDGEFIELD RD FT WHITE, FL CA 8690 Right Addition

DESIGN SETTINGS

Design Code	Wind Standard	Seismic Standard
IBC 2006	ASCE 7-05 All heights	ASCE 7-05

Wind Capacity Increase		Load Combinations	Building Code Capacity Reduction	
Shear	C&C Panels		Wind	Seismic
1.40	1.60	1.00 Wind	1.00	1.00

Nail Withdrawal Modification				Max Shearwall Offset [ft]	
Duration Factor	Temperature Range	Moisture Content		Plan	Elevation
		Fabrication	Service	(within story)	(between stories)
1.60	T<=100F	>19%	>19%	0.50	-

Maximum Height-to-width Ratio						
Plywood		Fiberboard	Lumber		Gypsum	
Wind	Seismic		Wind	Seismic	Blocked	Unblocked
3.5	-	-	-	-	2.0	1.5

Shearwall Relative Rigidity:	Designed capacity using flexible distribution
Hold-down Forces:	Based on applied shearline force
Seismic Materials:	-
Case 2 rigid diaphragm load distribution:	75% loads, torsional moment

SITE INFORMATION

IBC Occupancy	ASCE 7 Equivalent
Category II - All others	Category II - All others

Wind	Seismic
ASCE 7-05 General analytic method for all bldgs	-

Design Wind Speed	110mph	Structure Type	
Exposure	Exposure B	Design Category	-
Enclosure	Enclosed	Site Class	-

Topographic Information [ft]		
Shape	Height	Length
-	-	-

Site Location: -

-
-

Spectral Response Acceleration		
S1: -		Ss: -
Fundamental Period	E-W	N-S
T Used	-	-
Approximate Ta	-	-
Maximum T	-	-
Response Factor R	-	-
Fa:	Fv:	

Structural Data

STORY INFORMATION

	Story Elev [ft]	Floor/Ceiling Depth [in]	Wall Height [ft]
Ceiling	10.83	0.0	
Level 1	2.83	10.0	8.00
Foundation	2.00		

BLOCK and ROOF INFORMATION

Block Dimensions [ft]			Roof Panels Face	Type	Slope	Overhang [ft]
Block 1	1 Story	E-W Ridge				
Location X,Y =	0.00	0.00	**North**	Side	26.0	1.50
Extent X,Y =	22.00	31.00	**South**	Side	26.0	1.50
Ridge Y Location, Offset	15.50	0.00	**East**	Gable	90.0	1.50
Ridge Elevation, Height	18.39	7.56	**West**	Gable	90.0	1.50

MATERIALS by WALL GROUP

Wall		Sheathing [in]			Fasteners		Spcg [in]		Framing Members [in]				Apply
Grp	Surf	Material	Thick	Orient	Size	Type	Edg	Fld	Blkg	Species	G	Spc	Notes
1	Ext	Structural I	7/16	Vert	8d	Nail	4	12	yes	S-P-F	0.42	16	1,3
	Int	Gyp WB 1-ply	1/2	Horz	5d	Nail	7	7	yes	S-P-F	0.42	16	

Legend:
Grp - Wall Design Group; Surf - Exterior or interior surface of exterior wall; Spcg - Edge or field nail spacing; Blkg - Blocked; G - Specific gravity; Spc - Wall stud spacing

Notes:

1. Capacity has been reduced according to IBC specific gravity adjustment.
3. Shear capacity for current design has been increased to the value for 15/32" sheathing with same nailing because stud spacing is 16" max. or panel orientation is horizontal.

SHEARLINE, WALL and OPENING DIMENSIONS

North-south Shearlines	Type	Wall Group(s)	Location X [ft]	Extent [ft] Start	Extent [ft] End	Length [ft]	FHS [ft]	Height [ft]
Line 1								
Level 1								
Line 1, Level 1	Seg	1	0.00	0.00	31.00	31.00	31.00	8.00
Wall 1-1	Seg	1	0.00	0.00	31.00	31.00	31.00	-
Line 2								
Level 1								
Line 2, Level 1	Seg	1	22.00	0.00	31.00	31.00	18.00	8.00
Wall 2-2	Seg	1	22.00	5.00	31.00	26.00	18.00	-
Opening 1		-	-	10.50	14.50	4.00	-	4.00
Opening 2		-	-	21.50	25.50	4.00	-	4.00
Wall 2-1	NSW		22.00	0.00	5.00	5.00	5.00	-

East-west Shearlines	Type	Wall Group(s)	Location Y [ft]	Extent [ft] Start	Extent [ft] End	Length [ft]	FHS [ft]	Height [ft]
Line A								
Level 1								
Line A, Level 1	NSW		0.00	0.00	22.00	22.00	0.00	8.00
Wall A-1	NSW		0.00	0.00	22.00	22.00	22.00	-
Line B								
Level 1								
Line B, Level 1	Seg	1	5.00	0.00	22.00	22.00	14.50	8.00
Wall B-1	Seg	1	5.00	0.00	22.00	22.00	14.50	-
Opening 1		-	-	4.00	7.00	3.00	-	3.00
Opening 2		-	-	17.50	20.50	3.00	-	6.75
Line C								
Level 1								
Line C, Level 1	Seg	1	31.00	0.00	22.00	22.00	19.00	8.00
Wall C-1	Seg	1	31.00	0.00	22.00	22.00	19.00	-
Opening 1		-	-	5.50	8.50	3.00	-	6.75

Legend:
Type - Seg = segmented, prf = perforated, NSW = non-shearwall; Location - dimension perp. to wall; FHS - length of full-height sheathing; Wall Group(s) - refer to Materials by Wall Group table, refer to Shear Results tables for each design case if more than one group

Loads

WIND SHEAR LOADS (as entered or generated)

Level 1 Block	F	Element	Load Case	Wnd Dir	Surf Dir	Prof	Location [ft] Start	Location [ft] End	Magnitude [lbs,plf,psf] Start	Magnitude [lbs,plf,psf] End	Trib Ht [ft]
Block 1	W	Wall	2	W->E	Wind	Line	0.00	31.00	30.9		
Block 1	W	L Gable	2	W->E	Wind	Line	0.00	15.50	0.0	58.6	
Block 1	W	L Gable	1	W->E	Wind	Line	0.00	15.50	0.0	78.1	
Block 1	W	Wall	1	W->E	Wind	Line	0.00	31.00	41.2		
Block 1	W	R Gable	1	W->E	Wind	Line	15.50	31.00	78.1	0.0	
Block 1	W	R Gable	2	W->E	Wind	Line	15.50	31.00	58.6	0.0	
Block 1	E	L Gable	2	W->E	Lee	Line	0.00	15.50	0.0	36.5	
Block 1	E	Wall	1	W->E	Lee	Line	0.00	31.00	25.7		
Block 1	E	L Gable	1	W->E	Lee	Line	0.00	15.50	0.0	48.6	
Block 1	E	Wall	2	W->E	Lee	Line	0.00	31.00	19.3		
Block 1	E	R Gable	2	W->E	Lee	Line	15.50	31.00	36.5	0.0	
Block 1	E	R Gable	1	W->E	Lee	Line	15.50	31.00	48.6	0.0	
Block 1	W	L Gable	1	E->W	Lee	Line	0.00	15.50	0.0	48.6	
Block 1	W	Wall	2	E->W	Lee	Line	0.00	31.00	19.3		
Block 1	W	L Gable	2	E->W	Lee	Line	0.00	15.50	0.0	36.5	
Block 1	W	Wall	1	E->W	Lee	Line	0.00	31.00	25.7		
Block 1	W	R Gable	1	E->W	Lee	Line	15.50	31.00	48.6	0.0	
Block 1	W	R Gable	2	E->W	Lee	Line	15.50	31.00	36.5	0.0	
Block 1	E	L Gable	1	E->W	Wind	Line	0.00	15.50	0.0	78.1	
Block 1	E	Wall	2	E->W	Wind	Line	0.00	31.00	30.9		
Block 1	E	Wall	1	E->W	Wind	Line	0.00	31.00	41.2		
Block 1	E	L Gable	2	E->W	Wind	Line	0.00	15.50	0.0	58.6	
Block 1	E	R Gable	1	E->W	Wind	Line	15.50	31.00	78.1	0.0	
Block 1	E	R Gable	2	E->W	Wind	Line	15.50	31.00	58.6	0.0	
Block 1	S	Roof	1	S->N	Wind	Line	-1.50	23.50	22.5		
Block 1	S	Roof	2	S->N	Wind	Line	-1.50	23.50	16.9		
Block 1	S	Wall	1	S->N	Wind	Line	0.00	22.00	41.2		
Block 1	S	Wall	2	S->N	Wind	Line	0.00	22.00	30.9		
Block 1	N	Roof	2	S->N	Lee	Line	-1.50	23.50	48.0		
Block 1	N	Roof	1	S->N	Lee	Line	-1.50	23.50	64.0		
Block 1	N	Wall	2	S->N	Lee	Line	0.00	22.00	16.1		
Block 1	N	Wall	1	S->N	Lee	Line	0.00	22.00	21.5		
Block 1	S	Roof	1	N->S	Lee	Line	-1.50	23.50	64.0		
Block 1	S	Roof	2	N->S	Lee	Line	-1.50	23.50	48.0		
Block 1	S	Wall	1	N->S	Lee	Line	0.00	22.00	21.5		
Block 1	S	Wall	2	N->S	Lee	Line	0.00	22.00	16.1		
Block 1	N	Roof	2	N->S	Wind	Line	-1.50	23.50	16.9		
Block 1	N	Roof	1	N->S	Wind	Line	-1.50	23.50	22.5		
Block 1	N	Wall	1	N->S	Wind	Line	0.00	22.00	41.2		
Block 1	N	Wall	2	N->S	Wind	Line	0.00	22.00	30.9		

Legend:
Block - Block used in load generation, Accum. = loads from one block combined with another, Manual = user-entered loads (so no block); F - Building face (north, south, east or west); Element - building surface on which loads generated or entered; Load Case - ASCE 7 All heights Case 1 or 2, ASCE 7 low rise T = Transverse, L = Longitudinal; Surf Dir - Windward or leeward side of the building; Prof - Profile (distribution); Location - start and end points on building element; Magnitude - Start = intensity of uniform and point loads or leftmost intensity of trapezoidal load, end = right intensity of trap load; Trib Ht - Tributary height of user-applied area loads only

WIND C&C LOADS

Block	Building Face	Level	Magnitude [psf] Interior	Magnitude [psf] End Zone
Block 1	West	1	23.6	29.1
Block 1	East	1	23.6	29.1
Block 1	South	1	23.6	29.1
Block 1	North	1	23.6	29.1

UPLIFT LOADS

Shear Line	Level	Profile	Tributary Width [ft]	Location [ft] Start	Location [ft] End	Mag [lbs,psf,psi] Start	Mag [lbs,psf,psi] End
A	1	Line		0.00	22.00	250.0	
B	1	Line		0.00	22.00	250.0	
C	1	Line		0.00	22.00	250.0	
2	1	Line		0.00	31.00	250.0	

Flexible Diaphragm Wind Design

SHEAR RESULTS

North-South Shearlines	W Gp	For Dir	Ld. Case	Shear Force [plf] V [lbs]	vmax	V/FHS	Allowable Shear [plf] Int	Ext	Co	C	Total	V [lbs]	Crit. Resp.
Line 1													
Level 1													
Ln1, Lev1	1	Both	1	1771	57.1	57.1	125	554	1.00	A	679	21044	0.08
Line 2													
Ln2, Lev1	1	Both	1	1771	-	98.4	125	554	1.00	A	679	12219	0.14

East-West Shearlines	W Gp	For Dir	Ld. Case	Shear Force [plf] V [lbs]	vmax	V/FHS	Allowable Shear [plf] Int	Ext	Co	C	Total	V [lbs]	Crit. Resp.
Line B													
Level 1													
LnB, Lev1	1	Both	1	2368	163.3	163.3	125	554	1.00	A	679	9843	0.24
Line C													
LnC, Lev1	1	Both	1	1669	87.9	87.9	125	554	1.00	A	679	12898	0.13

Legend:
W Grp - Wall group as listed in Materials table; For Dir - Direction of wind force along shearline; Ld. case - Critical load case: ASCE 7 All heights Case 1 or 2, ASCE 7 low rise T = Transverse, L = Longitudinal, all other results are for this load case; V - Factored shear force applied to entire line and amount taken by each wall; vmax - Base shear V/FHS/Co = Factored shear force per unit full height sheathing, divided by perforation factor Co as per SDPWS eqn. 4.3-6, and IBC eqn. 23-4.
*Following values marked with * means that value for shearline is the one for wall with critical design response on line; V/FHS* - Design shear force = factored shear force per unit full height sheathing, Int* - Unit shear capacity of interior sheathing; Ext* - Unit shear capacity of exterior sheathing Co* - Perforation factor; C - Sheathing combination rule, A = Add capacities, S = Strongest side only, X = Strongest side or twice weakest; Total* - Combined unit shear capacity inc. perforation factor; V - Combined shear capacity of wall or total capacity of shearline ; Crit Resp* - Critical response = Vapp/FHS/Vcap = design shear force/unit shear capacity*
Notes:
V/FHS shown is shear force for use in shearwall design. Vmax shown is V/FHS divided by perforation factor Co; it is the base shear to be used in connection and collector design using IBC 2305.3.8.2.5 and SDPWS 4.3.6.4.1.1.
Refer to Elevation View diagrams for individual level for uplift anchorage force t for perforated walls given by IBC 2305.3.8.2.6,8 and SDPWS 4.3.6.4.2,4.

DRAGSTRUT AND HOLDDOWN FORCES

Level 1 Line-Wall	Position on Wall or Opening	Location [ft] X	Location [ft] Y	Ld. Case	Tensile Holddown Force [lbs] Shear	Dead	Uplift	Cmb'd	Dragstrut Force [lbs]
Line 1									
1-1	Left Wall End	0.00	0.12	1	457			457	
1-1	Right Wall End	0.00	30.88	1	457			457	
Line 2									
2-1	Left Wall End	22.00	0.12	1			625	625	
2-1	Right Wall End	22.00	4.88	1			625	625	
2-2	Left Wall End	22.00	5.13	1	787		688	1475	
2-2	Left Opening 1	22.00	10.38	1	787		1188	1975	
2-2	Right Opening 1	22.00	14.63	1	787		1375	2162	
2-2	Left Opening 2	22.00	21.38	1	787		1375	2162	
2-2	Right Opening 2	22.00	25.63	1	787		1188	1975	
2-2	Right Wall End	22.00	30.88	1	787		688	1475	
2-2	Left Wall End	22.00	5.00	1					286
2-2	Left Opening 1	22.00	10.50	1					59
2-2	Right Opening 1	22.00	14.50	1					287
2-2	Left Opening 2	22.00	21.50	1					2
2-2	Right Opening 2	22.00	25.50	1					227
Line B									
B-1	Left Wall End	0.12	5.00	1	1307		500	1807	
B-1	Left Opening 1	3.88	5.00	1	1307		875	2182	
B-1	Right Opening 1	7.13	5.00	1	1307		1688	2994	
B-1	Left Opening 2	17.38	5.00	1	1307		1688	2994	
B-1	Right Opening 2	20.63	5.00	1			563	563	
B-1	Right Wall End	21.88	5.00	1			188	188	
B-1	Left Opening 1	4.00	5.00	1					223
B-1	Right Opening 1	7.00	5.00	1					100
B-1	Left Opening 2	17.50	5.00	1					484
Line C									
C-1	Left Wall End	0.12	31.00	1	703		688	1390	
C-1	Left Opening 1	5.38	31.00	1	703		1063	1765	
C-1	Right Opening 1	8.62	31.00	1	703		2063	2765	
C-1	Right Wall End	21.88	31.00	1	703		1688	2390	
C-1	Left Opening 1	5.50	31.00	1					66
C-1	Right Opening 1	8.50	31.00	1					162

Legend:
Line-Wall - Shearline for forces carried by vertical elements, wall for forces at wall or opening ends; Position...- Vert. element = column or strengthened studs req'dotherwise indicates stud location at wall end or opening;. Location - Co-ordinates in Plan View; Ld. Case - Results are for critical load case: ASCE 7 All heights Case 1 or 2, ASCE 7 low rise T = Transverse, L = Longitudinal; Shear - Factored wind shear overturning component, includes perforation factor Co ; Dead - Factored dead load resisting component; Uplift - Uplift wind load component; Cmb'd - Sum of factored overturning, dead and uplift forces; Dragstrut Force - Factored drag strut force at opening headers and gaps in walls along shearline, includes perforation factor(s) Co

Notes:
Dead load contribution to combined force is factored by 0.60 load combination factor
Refer to Shear Results table for perforation factors Co.
This table includes tension holddown forces only.

Rigid Diaphragm Wind Design

Rigid analysis performed using Case 2 loading in ASCE 7-05 Fig 6-9, using only the eccentricity prescribed to generate a torsional moment. For analysis using Case 1 loading, change the Rigid Diaphragm Analysis Design Setting, regenerate loads, and redesign.

SHEAR RESULTS

North-South Shearlines	W Gp	For Dir	Ld. Case	Shear Force [plf] V [lbs]	vmax	V/FHS	Allowable Shear [plf] Int	Ext	Co	C	Total	V [lbs]	Crit. Resp.
Line 1													
Level 1													
Ln1, Lev1	1	Both	2	1906	61.5	61.5	125	554	1.00	A	679	21044	0.09
Line 2													
Ln2, Lev1	1	Both	2	1201	-	66.7	125	554	1.00	A	679	12219	0.10

East-West Shearlines	W Gp	For Dir	Ld. Case	Shear Force [plf] V [lbs]	vmax	V/FHS	Allowable Shear [plf] Int	Ext	Co	C	Total	V [lbs]	Crit. Resp.
Line B													
Level 1													
LnB, Lev1	1	Both	2	1583	109.2	109.2	125	554	1.00	A	679	9843	0.16
Line C													
LnC, Lev1	1	Both	2	1990	104.7	104.7	125	554	1.00	A	679	12898	0.15

Legend:
W Grp - Wall group as listed in Materials table; For Dir - Direction of wind force along shearline; Ld. case - Critical load case: ASCE 7 All heights Case 1 or 2, ASCE 7 low rise T = Transverse, L = Longitudinal, all other results are for this load case; V - Factored shear force applied to entire line and amount taken by each wall; vmax - Base shear V/FHS/Co = Factored shear force per unit full height sheathing, divided by perforation factor Co as per SDPWS eqn. 4.3-6, and IBC eqn. 23-4.
*Following values marked with * means that value for shearline is the one for wall with critical design response on line; V/FHS* - Design shear force = factored shear force per unit full height sheathing, Int* - Unit shear capacity of interior sheathing; Ext* - Unit shear capacity of exterior sheathing Co* - Perforation factor; C - Sheathing combination rule, A = Add capacities, S = Strongest side only, X = Strongest side or twice weakest; Total* - Combined unit shear capacity inc. perforation factor; V - Combined shear capacity of wall or total capacity of shearline ; Crit Resp* - Critical response = Vapp/FHS/Vcap = design shear force/unit shear capacity*
Notes:
V/FHS shown is shear force for use in shearwall design. Vmax shown is V/FHS divided by perforation factor Co; it is the base shear to be used in connection and collector design using IBC 2305.3.8.2.5 and SDPWS 4.3.6.4.1.1.
Refer to Elevation View diagrams for individual level for uplift anchorage force t for perforated walls given by IBC 2305.3.8.2.6,8 and SDPWS 4.3.6.4.2,4.

DRAGSTRUT AND HOLDDOWN FORCES

Level 1 Line-Wall	Position on Wall or Opening	Location [ft] X	Y	Ld. Case	Tensile Holddown Force [lbs] Shear	Dead	Uplift	Cmb'd	Dragstrut Force [lbs]
Line 1									
1-1	Left Wall End	0.00	0.12	2	492			492	
1-1	Right Wall End	0.00	30.88	2	492			492	
Line 2									
2-1	Left Wall End	22.00	0.12	2			625	625	
2-1	Right Wall End	22.00	4.88	2			625	625	
2-2	Left Wall End	22.00	5.13	2	534		688	1221	
2-2	Left Opening 1	22.00	10.38	2	534		1188	1721	
2-2	Right Opening 1	22.00	14.63	2	534		1375	1909	
2-2	Left Opening 2	22.00	21.38	2	534		1375	1909	
2-2	Right Opening 2	22.00	25.63	2	534		1188	1721	
2-2	Right Wall End	22.00	30.88	2	534		688	1221	
2-2	Left Wall End	22.00	5.00	2					194
2-2	Left Opening 1	22.00	10.50	2					40
2-2	Right Opening 1	22.00	14.50	2					195
2-2	Left Opening 2	22.00	21.50	2					1
2-2	Right Opening 2	22.00	25.50	2					154
Line B									
B-1	Left Wall End	0.12	5.00	2	873		500	1373	
B-1	Left Opening 1	3.88	5.00	2	873		875	1748	
B-1	Right Opening 1	7.13	5.00	2	873		1688	2561	
B-1	Left Opening 2	17.38	5.00	2	873		1688	2561	
B-1	Right Opening 2	20.63	5.00	2			563	563	
B-1	Right Wall End	21.88	5.00	2			188	188	
B-1	Left Opening 1	4.00	5.00	2					149
B-1	Right Opening 1	7.00	5.00	2					67
B-1	Left Opening 2	17.50	5.00	2					324
Line C									
C-1	Left Wall End	0.12	31.00	2	838		688	1525	
C-1	Left Opening 1	5.38	31.00	2	838		1063	1900	
C-1	Right Opening 1	8.62	31.00	2	838		2063	2900	
C-1	Right Wall End	21.88	31.00	2	838		1688	2525	
C-1	Left Opening 1	5.50	31.00	2					79
C-1	Right Opening 1	8.50	31.00	2					193

Legend:
Line-Wall - Shearline for forces carried by vertical elements, wall for forces at wall or opening ends; Position...- Vert. element = column or strengthened studs req'dotherwise indicates stud location at wall end or opening;. Location - Co-ordinates in Plan View; Ld. Case - Results are for critical load case: ASCE 7 All heights Case 1 or 2, ASCE 7 low rise T = Transverse, L = Longitudinal; Shear - Factored wind shear overturning component, includes perforation factor Co ; Dead - Factored dead load resisting component; Uplift - Uplift wind load component; Cmb'd - Sum of factored overturning, dead and uplift forces; Dragstrut Force - Factored drag strut force at opening headers and gaps in walls along shearline, includes perforation factor(s) Co

Notes:
Dead load contribution to combined force is factored by 0.60 load combination factor
Refer to Shear Results table for perforation factors Co.
This table includes tension holddown forces only.

Wind Suction Design

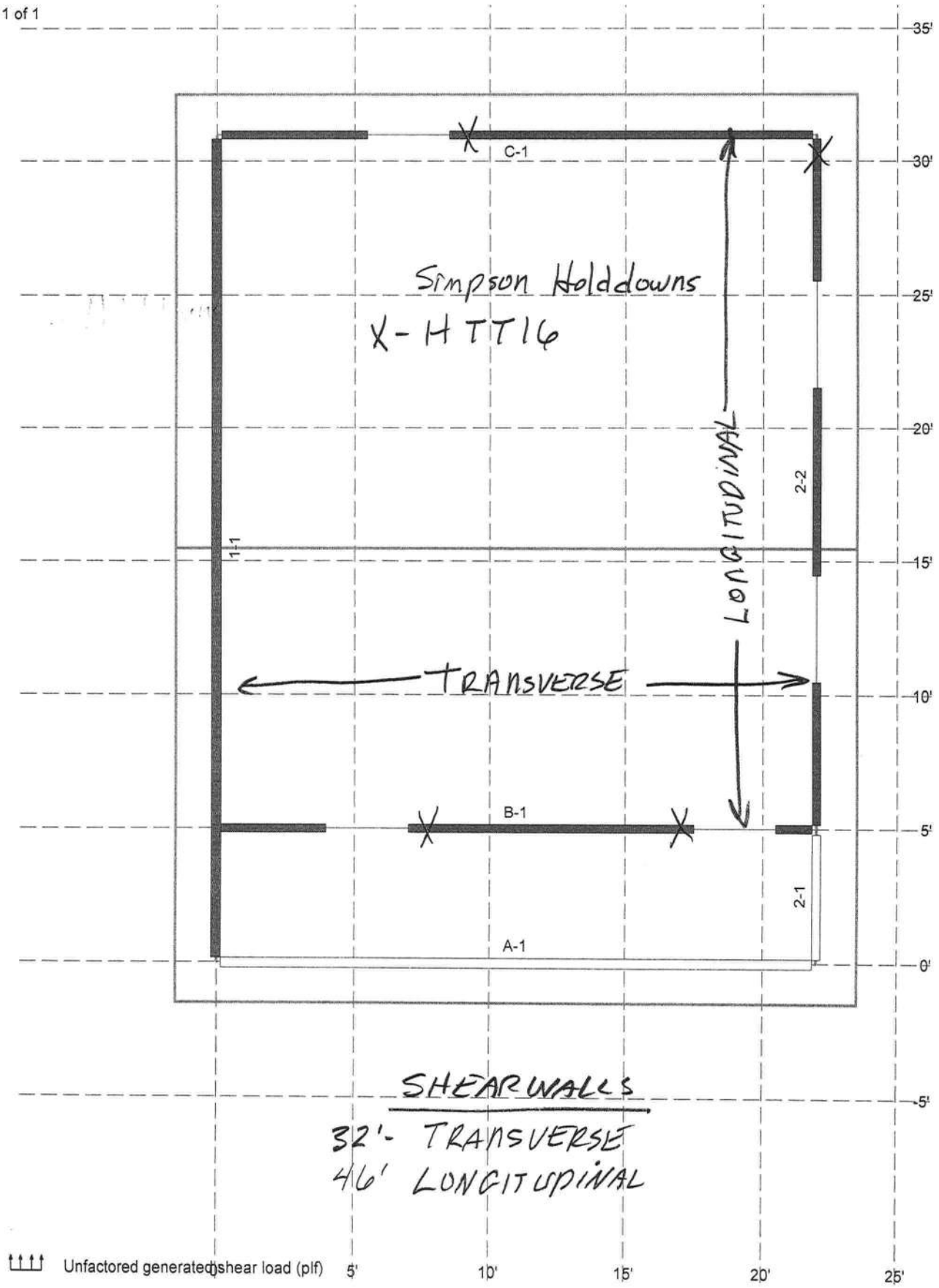
COMPONENTS AND CLADDING by SHEARLINE

North-South Shearlines			Sheathing [psf]			Fastener Withdrawal [lbs]					Service Cond Factors	
			Force	Cap	Force/	Force		Cap	Force/Cap			
Line	Lev	Grp			Cap	End	Int		End	Int	Temp	Moist
1	1	1	29.1	48.0	0.61	39	31	68	0.57	0.46	1.00	1.00
2	1	1	29.1	48.0	0.61	39	31	68	0.57	0.46	1.00	1.00

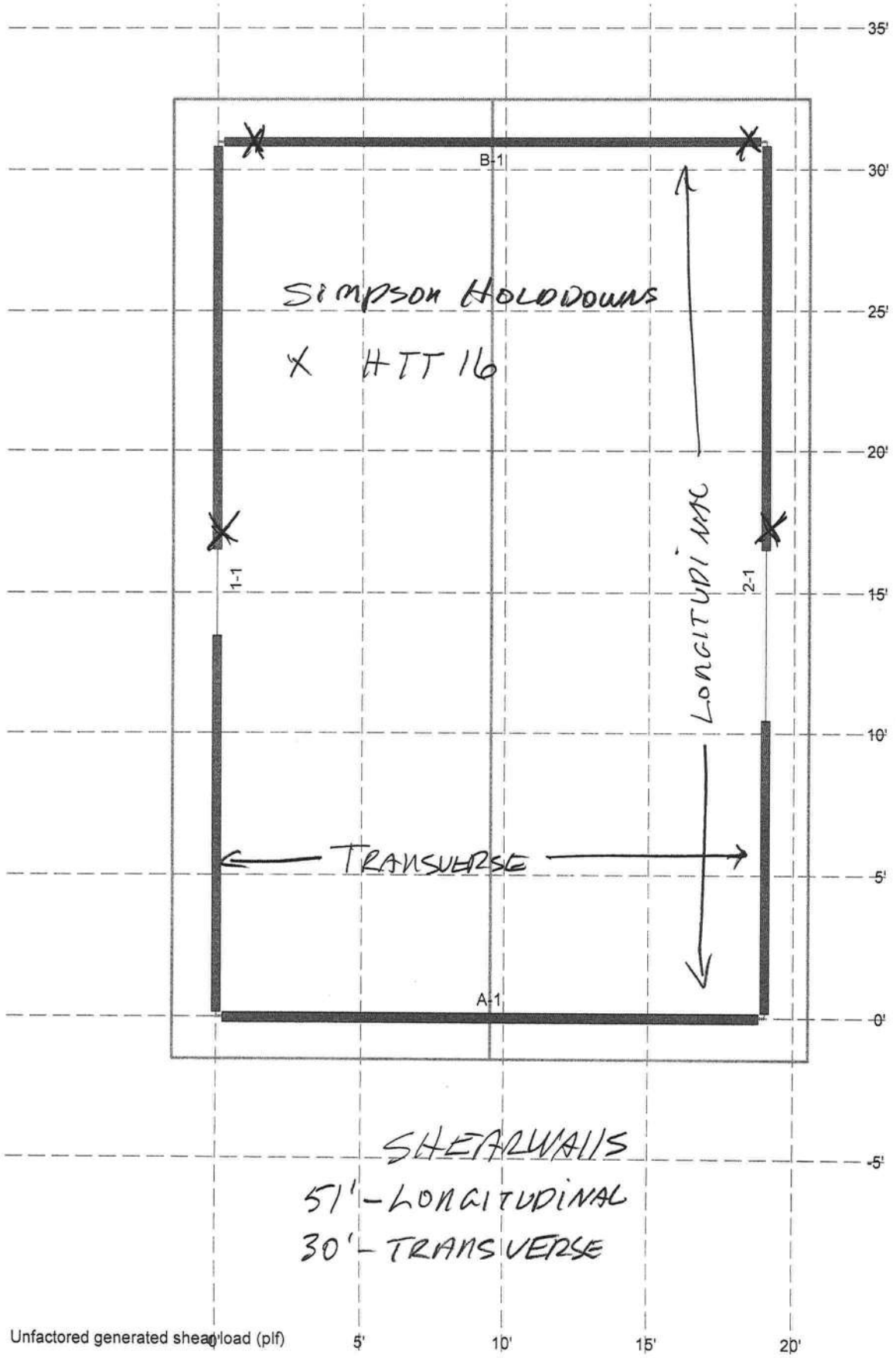
East-West Shearlines			Sheathing [psf]			Fastener Withdrawal [lbs]					Service Cond Factors	
			Force	Cap	Force/	Force		Cap	Force/Cap			
Line	Lev	Grp			Cap	End	Int		End	Int	Temp	Moist
A		1	29.1	48.0	0.61	39	31	68	0.57	0.46	1.00	1.00
C	1	1	29.1	48.0	0.61	39	31	68	0.57	0.46	1.00	1.00

Legend:
Grp - Wall Design Group (results for all design groups for rigid, flexible design listed for each wall); Sheathing: Force - C&C end zone exterior pressures using negative (suction) coefficient in ASCE 7 Figure 6-11A added to interior pressure using coefficients from Figure 6-5; Cap - Factored out-of-plane bending capacity of exterior sheathing assuming continuous over 3 studs; Fastener Withdrawal: Force - Force tributary to each nail in end zone and interior zone; Cap - Factored withdrawal capacity of individual nail according to NDS 11.2-3.

Level 1 of 1


35'
30'
25'
20'
15'
10'
5'
0'
C-1
B-1
A-1
1-1
2-2
2-1
Simpson Holddowns
X-HTT16
LONGITUDINAL
TRANSVERSE
SHEARWALLS
32'- TRANSVERSE
46' LONGITUDINAL
Unfactored generated shear load (plf)
5'
10'
15'
20'
25'

Level 1 of 1



Unfactored generated shear load (plf)

TYP. CONNECTOR SCHEDULE FOR LOAD BEARING & SHEAR WALLS

NOTE: CONTRACTOR / OWNER TO PROVIDE TRUSS ENGINEERING PER PARAGRAGH (1) ROOF TRUSSES IN WINDLOAD SUMMARY TO VERIFY LOADS W/ CONNECTOR SCHEDULE FOR THIS ENTIRE PROJECT.

TO CONNECT	TO	NO.	PRODUCT CODE	FASTENER	UPLIFT CAPACITY LBS
ALL TRUSSES	TOP PLATES	1	H2.5T	(5+5) 8dX1-1/2" COMMON NAILS	545
ALL TRUSSES	HEADER & TOP PLATE	1	H6	8-8d /8-8d COMMON NAILS	915
STUDS	BOTTOM PLATE	1,2	SP4	6- 10D COMMON (32" o.c. max spacing)	535
STUDS	TOP PLATE	1,2	SP4	6- 10D COMMON (32" o.c. max spacing)	535
JACK STUDS	BOTTOM PLATE	1,3	SP4	6- 10D COMMON (32" o.c. max spacing)	535
BOTTOM PLATE	FLOOR	4		1/2" DIA.X 10" ANCHOR BOLT W/ 3"X 3" X 1/8" WASHER @ 32" O.C. MAX.	2200
BOTTOM PLATE	FLOOR	1	HTT16	1-5/8" ANCHOR (18-16d common) (see hold down drawing for location)	3080
JACK STUDS	HEADER & TOP PLATE	1,3	CS16	(22) 8d COMMON NAILS	1705
4"X 4" POST	FOUNDATION	1	ABU44	5/8" ANCHOR / 12-16d COMMON	2300
4"X 4" POST	HEADER & TOP PLATE	1	BC4	6-16d COMMON / 6-16d COMMON	1050
4"X 4" POST	HEADER & TOP PLATE	1	CS16	(22) 8d COMMON NAILS	1705
STUDS	BOTTOM PLATE & TOP PLATE	1	SP4	STUDS AT EACH OPENING 6-10d common see holdown drawing	735

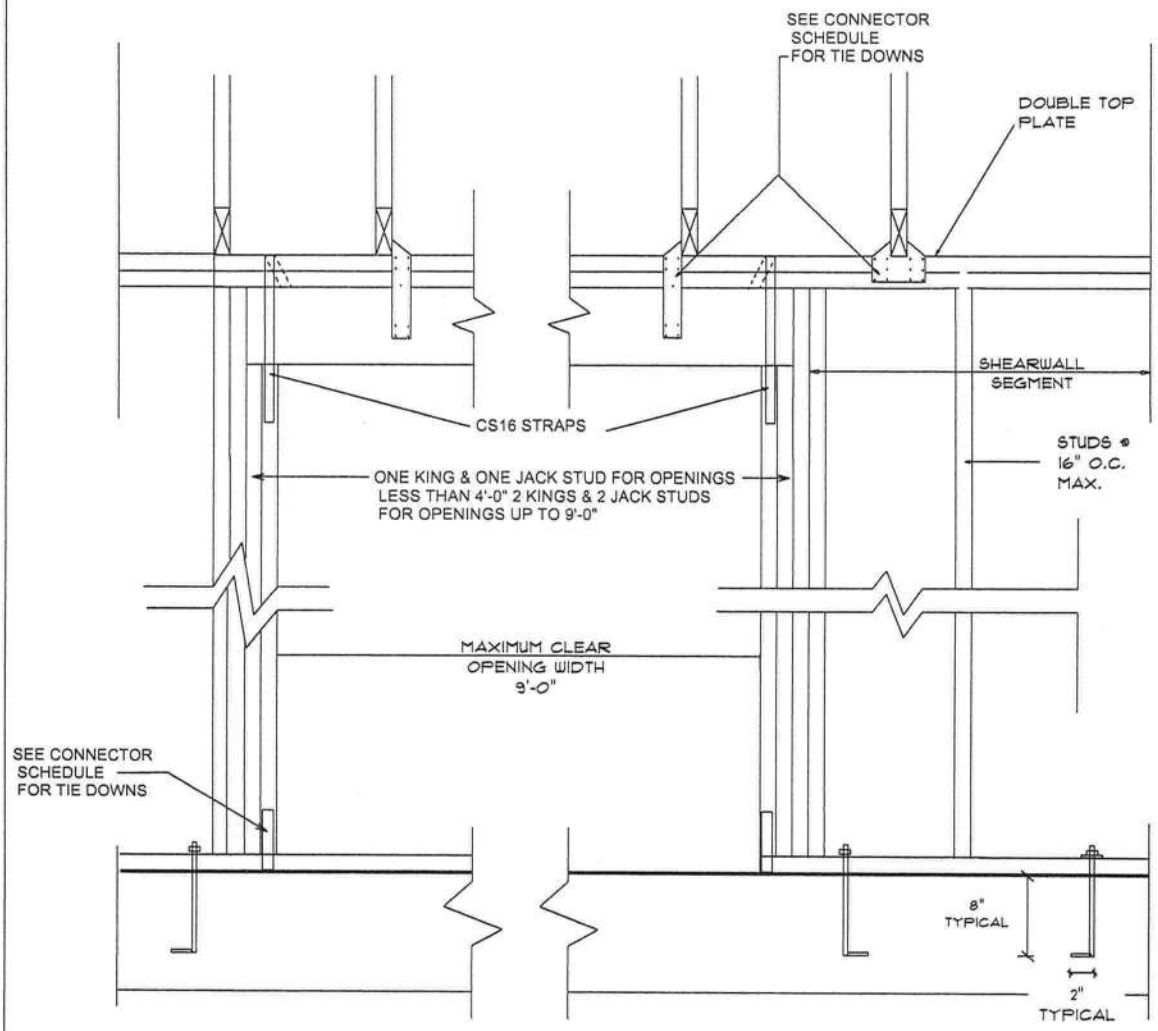
DRISCOLL ENGINEERING,INC.
CONSULTING ENGINEER
3538 N.W.97th BLVD. CA 8690
GAINESVILLE, FL. 32606 PH (352) 332-1513

NAME:
OSTEEN
479 HEDGEFIELD RD
FT WHITE, FL DS09-247

DATE: 10-24-07
DESIGNER:
CHECKED:
DRAWN:
REVISED:
JOB NO.
SHEET
OF

Connector Schedule Notes:

1. Product codes refer to connector hardware as manufactured by Simpson Strong-Tie Company, Inc., Pleasanton, CA. Other manufacturers' products of equal or higher capacity may be substituted.
2. Use one connector on every other stud -32" OC max.
3. Use one connector each jack stud, each side of header.
4. Connector spacing: within 6" of each end of each plate, within 6" of corners, and at 32" o.c. maximum.
5. All metal hardware and fasteners in contact with pressure-treated wood shall be corrosion-resistant compatible with the chemical application of the treated wood. Type 304 or Type 316 stainless steel may also be used. Where allowed, provide moisture barrier between untreated wood and concrete in lieu of using pressure-treated wood.
6. Unless noted otherwise, all nails to be common wire nails with the following diameters:
    a. 8d: 0.131 in.
    b. 10d: 0.148 in.
    c. 16d: 0.162 in.
7. See truss calculations for truss-to-truss connectors.
8. Connections not otherwise specified herein or shown on the drawings shall be in accordance with Section 2306 of the 2007 Florida Building Code.



LOAD BEARING WALL OPENING FRAMING DETAIL

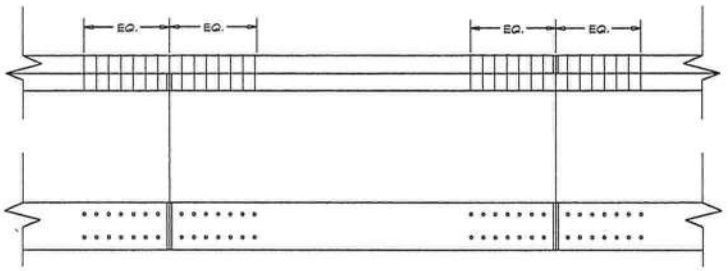
DRISCOLL ENGINEERING, INC.
CONSULTING ENGINEERS
PO BOX 357577
GAINESVILLE, FL. 32606
CA 8690
PH (352) 332-1513

OWNERS:

OSTEEN
479 HEDGEFIELD RD
FT WHITE, FL DS09-247

DATE:
DESIGNER:
CHECKED:
DRAWN:
REVISED:

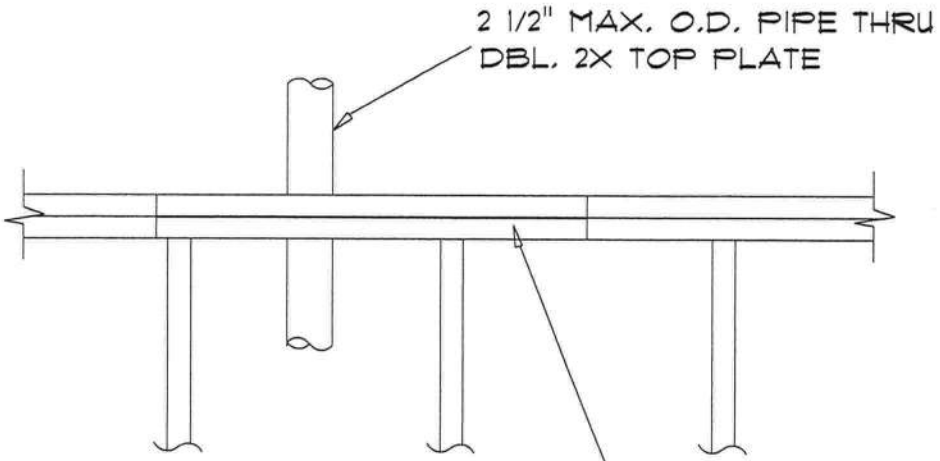
JOB NO.
SHEET
OF



PLAN VIEW

NOTE:
10d NAILS @ 16" O.C
ELSEWHERE

TOP PLATE SPLICE



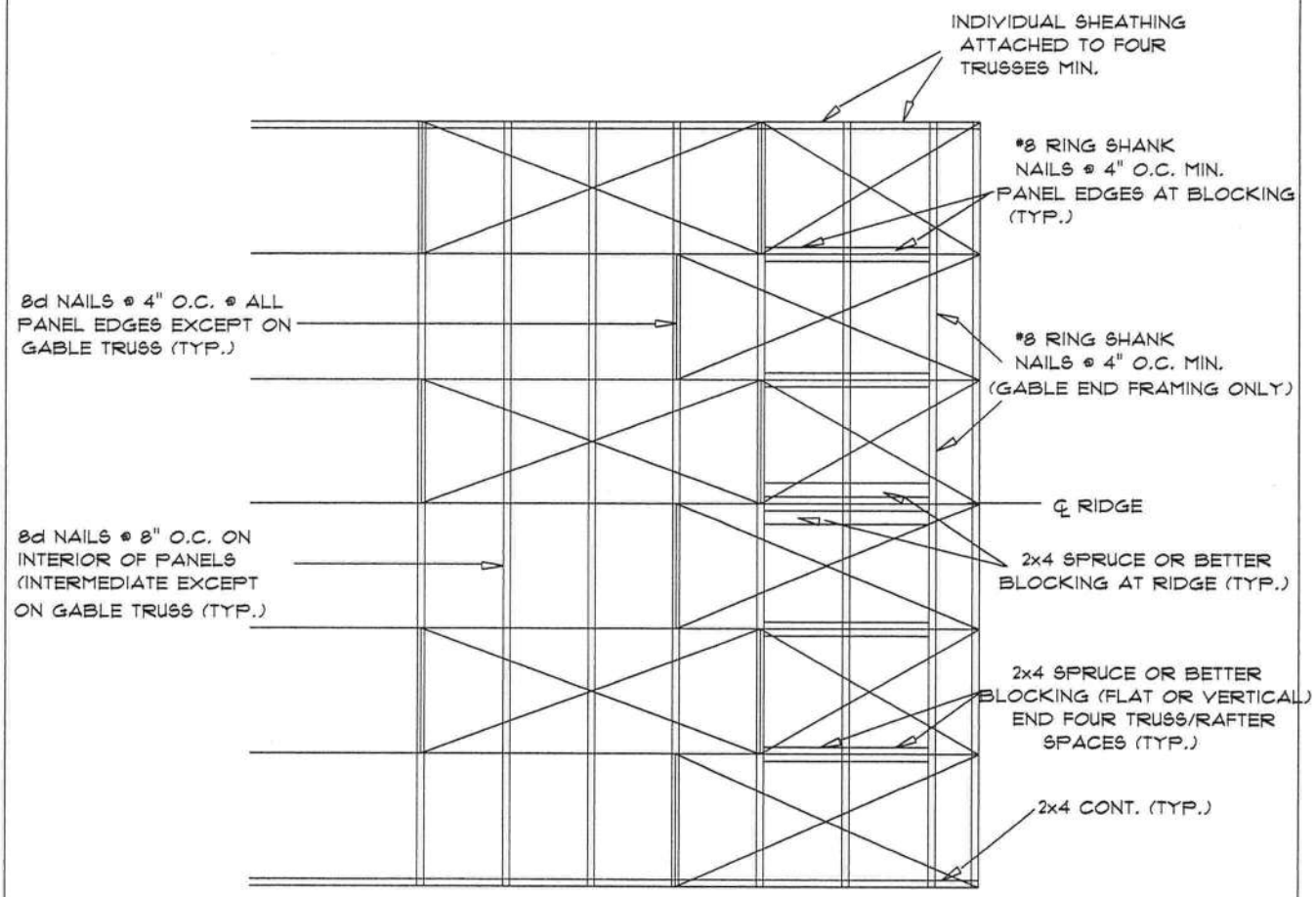
TOP PLATE/BRG. WALL PENETRATION DETAIL

NOT TO SCALE

DRISCOLL ENGINEERING, INC.
CONSULTING ENGINEERS
PO BOX 357577
GAINESVILLE, FL. 32606
CA 8690
PH (352) 332-1513

OWNERS:
OSTEEN
479 HEDGEFIELD RD
FT WHITE, FL DS09-247

DATE:
DESIGNER:
CHECKED:
DRAWN:
REVISED:
JOB NO.
SHEET
OF



NOTES:

1. ALL NAILS #8 RING SHANK NAILS.
2. IF BUILDING WIDTH EXCEEDS 40 FT OR HEIGHT IS MORE THAN 2 STORIES USE #10 INSTEAD OF #8 FOR ATTACHMENT OF ROOF SHEATHING.
3. ALL STRUCTURAL SHEATHING PANELS TO BE 7/16" OSB SHEATHING MIN.

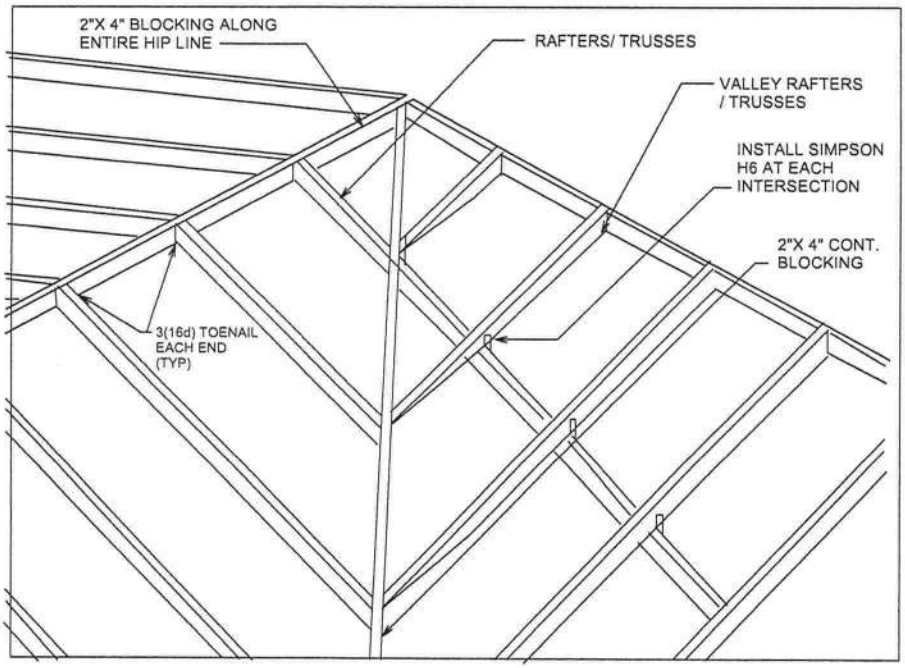
ROOF SHEATHING ATTACHMENT PLAN

N.T.S.

DRISCOLL ENGINEERING, INC.
CONSULTING ENGINEERS
PO BOX 357577
GAINESVILLE, FL. 32606
CA 8690
PH (352) 332-1513

PROJECT:
OSTEEN
479 HEDGEFIELD RD
FT WHITE, FL DS09-247

DATE:
DESIGNER:
CHECKED:
DRAWN:
REVISED:
JOB NO.
SHEET
OF



CONTINUOUS 2"X 4" MIN. VALLEY BLOCKING
(2) EACH 16d TOENAILS EACH END EACH PIECE.
ROOF SHEATHING FROM ADJACENT PLANES TO
BE CONNECTED TO COMMON RAFTERS & BLOCKING

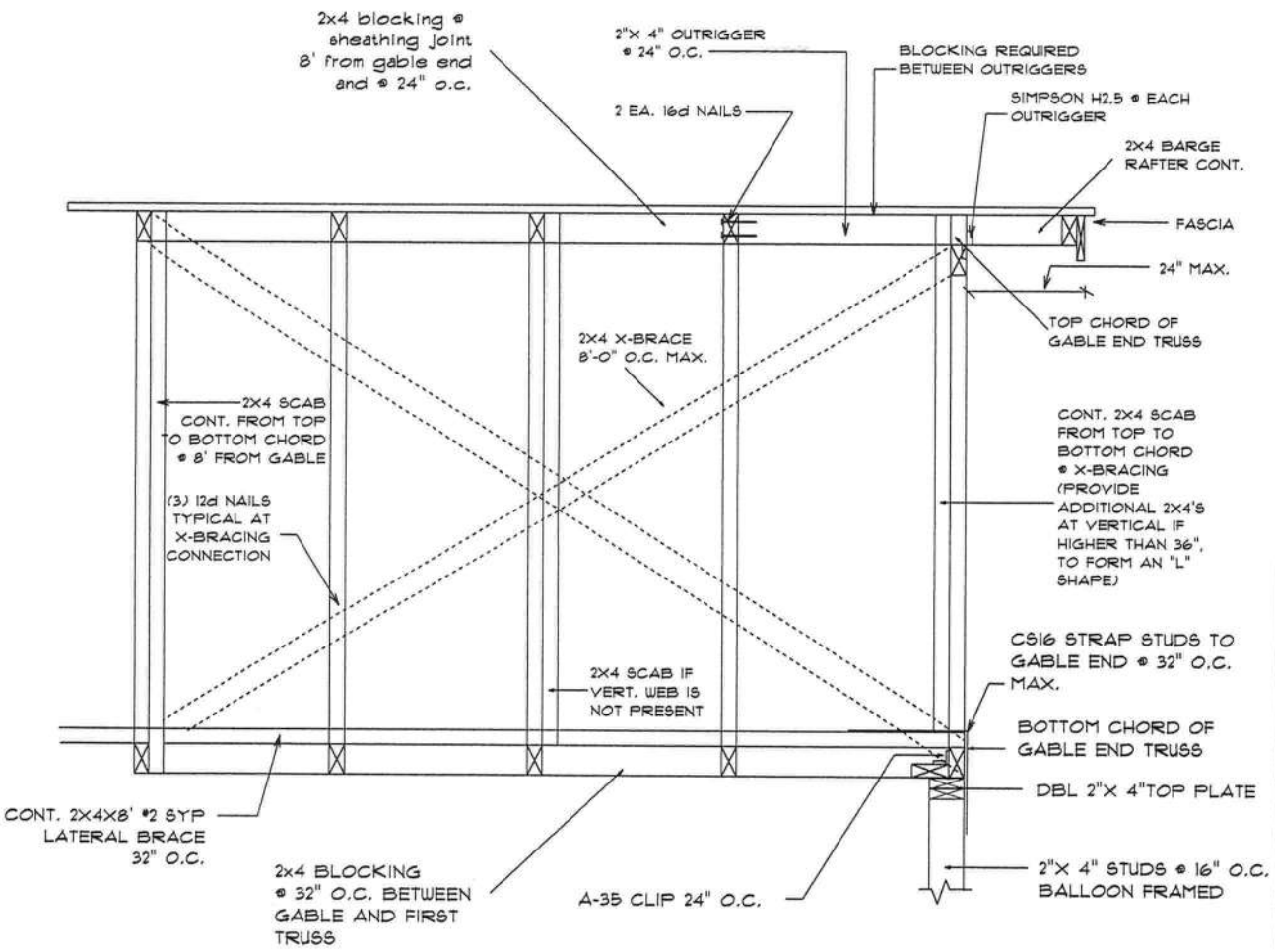
SHEATHING MAY BE PROVIDED BETWEEN
MAIN ROOF TRUSSES & VALLEY SET TRUSSES

DRISCOLL ENGINEERING, INC.
CONSULTING ENGINEERS
PO BOX 357577
GAINESVILLE, FL. 32606
CA8690
PH (352) 332-1513

OWNERS:

OSTEEN
479 HEDGEFIELD RD
FT WHITE, FL DS09-247

DATE:
DESIGNER:
CHECKED:
DRAWN:
REVISED:
JOB NO.
SHEET
OF



NOTES:

1) Unbraced length of x-bracing may not exceed 10 ft. If length exceeds 10 ft., additional scabs are required.

2) Siding omitted for clarity.

PLATFORM FRAMING GABLE END (NTS)

DRISCOLL ENGINEERING, INC.
CONSULTING ENGINEERS
PO BOX 357577
GAINESVILLE, FL. 32606
CA 8690
PH (352) 332-1513

PROJECT:

OSTEEN
479 HEDGEFIELD RD
FT WHITE, FL DS09-247

DATE:
DESIGNER:
CHECKED:
DRAWN:
REVISED:

JOB NO.
SHEET
OF