DATE 02/06/2013

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000030767

APPLICANT ISAAC NICKELSON PHONE 386.965.0985

ADDRESS 198 SW HYDRAULIC WAY LAKE CITY FL 32024

OWNER MINESH PATEL PHONE 386.984.0732

ADDRESS 182 SW WINDSOR HILL GLN LAKE CITY FL 32024

CONTRACTOR ISAAC NICKELSON PHONE 386.984.0985

LOCATION OF PROPERTY 90-W TO HILLS OF WINDSOR(GET GATE CODE)GO TO WINDSOR HILL,TR AND IT'S THE 1ST. LOT ON L.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 647050.00

HEATED FLOOR AREA 8951.00 TOTAL AREA 12941.00 HEIGHT 50.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 12'12 FLOOR CONC

LAND USE & ZONING PRRD MAX. HEIGHT 35

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

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

PARCEL ID 30-3S-16-02411-101 SUBDIVISION HILLS OF WINDSOR

LOT 1 BLOCK PHASE UNIT TOTAL ACRES 2.68

		CBC1258773		
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor
PRIVATE	12-0493	BLK	TC	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: MFE @ 91.70'. ELEVATION CONFIRMATION LETTER REQUIRED @ SLAB.

Check # or Cash 1022

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 $ 3240.00 CERTIFICATION FEE $ 64.70 SURCHARGE FEE $ 64.70

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** 3444.40

INSPECTORS OFFICE CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

NOTICE: ALL OTHER APPLICABLE STATE OR FEDERAL PERMITS SHALL BE OBTAINED BEFORE COMMENCEMENT OF THIS PERMITTED DEVELOPMENT.

"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.

New Construction Subterranean Termite Service Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company..

30767

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential, therefore, no assurance of confidentiality is provided.

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

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

Section 1: General Information (Pest Control Company Information)

Company Name Aspen Pest Control, Inc.
Company Address P.O. Box 1795 City Lake City State FL Zip 32056
Company Business License No. JB182948 Company Phone No. 386-755-3611
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name Premier Building Phone No. 755-0955

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) Mukesh Patel
152 SW Windsor Hill Glen Lake City, FL 32024

Section 4: Service Information

Date(s) of Service(s) 3-27-2013
Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other

Check all that apply:
☒ A. Soil Applied Liquid Termiticide
Brand Name of Termiticide: Bifen XTS EPA Registration No. 53883-159
Approx. Dilution (%): .06 Approx. Total Gallons Mix Applied: 100 Treatment completed on exterior: ☐ Yes ☒ No
☐ B. Wood Applied Liquid Termiticide
Brand Name of Termiticide: EPA Registration No.
Approx. Dilution (%): Approx. Total Gallons Mix Applied:
☐ C. Bait System Installed
Name of System EPA Registration No. Number of Stations Installed
☐ D. Physical Barrier System Installed
Name of System Attach installation information (required)

Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)

Comments

Name of Applicator(s) C Lucey Certification No. (if required by State law) JF104376

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

Authorized Signature [signature] Date 3-27-2013

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

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OMB Approval No. 2502-0525

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Company Address P.O. Box 1795 City Lake City State FL Zip 32056
Company Business License No. JB182948 Company Phone No. 386-755-3611
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name Pepper Builders Phone No. 965-3955

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) [illegible] Lot 1 [illegible] Lake City, FL 32024

Section 4: Service Information

Date(s) of Service(s) 4-1-05

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other _____

Check all that apply:

☐ A. Soil Applied Liquid Termiticide
Brand Name of Termiticide: Dursban TC EPA Registration No. 62637-109
Approx. Dilution (%): .06 Approx. Total Gallons Mix Applied: 100 Treatment completed on exterior: ☐ Yes ☐ No

☐ B. Wood Applied Liquid Termiticide
Brand Name of Termiticide: _____ EPA Registration No. _____
Approx. Dilution (%): _____ Approx. Total Gallons Mix Applied: _____

☐ C. Bait System Installed
Name of System _____ EPA Registration No. _____ Number of Stations Installed _____

☐ D. Physical Barrier System Installed
Name of System _____ Attach installation information (required)

Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments _____

Name of Applicator(s) [illegible] Certification No. (if required by State law) JF104376

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

Authorized Signature [signature] Date 4-1-05

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

New Construction Subterranean Termite Service Record

OMB Approval No. 2502-0525

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Company Address P.O. Box 1795 City Lake City State FL Zip 32056

Company Business License No. JB182948 Company Phone No. 386-755-3611

FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name Premier Building Phone No. 965-0985

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) Minesh Patel
182 SW Watson Hill Glen Lake City, FL 32024

Section 4: Service Information

Date(s) of Service(s) 3-20-2013

Type of Construction (More than one box may be checked) ☐ Slab ☐ Basement ☐ Crawl ☐ Other _____

Check all that apply:

☐ A. Soil Applied Liquid Termiticide
Brand Name of Termiticide: Bifen XTS EPA Registration No. 53553-189
Approx. Dilution (%): .06 Approx. Total Gallons Mix Applied: 300 Treatment completed on exterior: ☐ Yes ☑ No

☐ B. Wood Applied Liquid Termiticide
Brand Name of Termiticide: _____ EPA Registration No. _____
Approx. Dilution (%): _____ Approx. Total Gallons Mix Applied: _____

☐ C. Bait System Installed
Name of System _____ EPA Registration No. _____ Number of Stations Installed _____

☐ D. Physical Barrier System Installed
Name of System _____ Attach installation information (required)

Service Agreement Available? ☑ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments _____

Name of Applicator(s) C Tocce Certification No. (if required by State law) JF104376

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

Authorized Signature _____ Date 3-20-2013

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3446.40

Columbia County Building Permit Application

For Office Use Only Application # 1212-44 Date Received 12/21/12 By LH Permit # 30769

Zoning Official BLK Date 28 JAN. 2013 Flood Zone X Land Use A-3 Zoning PRRD F-30 S-25 R-25

FEMA Map # N/A Elevation N/A MFE 91.7' River N/A Plans Examiner J.C. Date 1-24-13

Comments Elevation Confirmation Letter per plot Required at slab

☑ NOC ☐ EH ☐ Deed or PA ☑ Site Plan ☑ State Road Info ☑ Well letter ☐ 911 Sheet ☐ Parent Parcel #

☐ Dev Permit # ☐ In Floodway ☐ Letter of Auth. from Contractor ☑ W Comp. letter ROCNE Plumb-524-Lic A/C-747-W/C

IMPACT FEES: EMS Fire Corr ☐ Sub VF Form

Road/Code School = TOTAL (Suspended) ☑ Ellisville Water ☑ App Fee Paid TOUCH UP

Septic Permit No. 12-0493/12-0494 Fax (386) 438-5647

Name Authorized Person Signing Permit Isaac Nickelson Phone (386) 965-0985

Address 198 SW Hydraulic Way Lake City, FL 32024

Owners Name Minesh Patel Phone (386) 984-0732

911 Address X 182 SW Windsor Hill GLN Lake City FL 32024

Contractors Name Isaac Nickelson / Premier Building Phone (386) 965-0985

Address 198 SW Hydraulic way Lake City, FL 32024

Fee Simple Owner Name & Address Minesh Patel X 2478 NW Wisteria Drive Lake City FL

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address X Peter Woods 5524 Pecan Rd, Ocala FL, 34472

Mortgage Lenders Name & Address N/A

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

Property ID Number 30-3S-16-02411-101 Estimated Cost of Construction $ 150,000.00

Subdivision Name Hills of Windsor Lot 1 Block — Unit — Phase —

Driving Directions Hwy 90 W To Hills of Windsor Gate Code * 2341 Take First Rd on Right Lot is on Left on

Number of Existing Dwellings on Property N/A

Construction of Single Family Home PLATTED Total Acreage 2.680 Lot Size —

Do you need a (Culvert Permit) or Culvert Waiver or Have an Existing Drive Total Building Height 50'

Actual Distance of Structure from Property Lines - Front 103' Side 73' Side 67' Rear 716'

Number of Stories 2 Heated Floor Area 8,951 Total Floor Area 12,941 Roof Pitch 12/12

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. **CODE:** Florida Building Code 2010 and the 2008 National Electrical Code.

ISAAC called & left MSG. 1-24-13

Attempted to Call 1-29-13 - Could not leave a message.
1-30-12 I left message on 1-21-13

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. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

(Owners Must Sign All Applications Before Permit Issuance.)

X _____
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.

_____
Contractor's Signature (Permitee)

Contractor's License Number CBC-1258773
Columbia County Competency Card Number 1206

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 22nd **day of** October **20**12.

Personally known ✓ **or Produced Identification** _____

_____
State of Florida Notary Signature (For the Contractor)

SEAL:

ANGELA COX
MY COMMISSION # DD 911648
EXPIRES: August 3, 2013
Bonded Thru Notary Public Underwriters

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER _____ CONTRACTOR _____ PHONE _____

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 724	Print Name LYNDON RAINBOLT License #: EC13001835	Signature Phone #: 386-867-1004
MECHANICAL/ A/C B 747	Print Name Richard Mark Touchstone. License #: CAC058099	Signature Phone #: 386-496-3467
PLUMBING/ GAS	Print Name 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			
CONCRETE FINISHER			
FRAMING			
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.

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ELECTRICAL	Print Name _____ License #:	Signature _____ Phone #:
MECHANICAL/ A/C ____	Print Name Richard Mark Touchstone License #: CAC058099	Signature [signature] Phone #: 386-496-3467
PLUMBING/ GAS 524	Print Name PLUMBING NOW License #: CFC 1426527	Signature Ken Roche Phone #: 386-755-9243
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 #:

Liability

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
FRAMING			
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.

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ELECTRICAL	Print Name _____ License #:	Signature _____ Phone #:
MECHANICAL/ A/C _____	Print Name _____ License #:	Signature _____ Phone #:
PLUMBING/ GAS	Print Name _____ License #:	Signature _____ Phone #:
ROOFING 494	Print Name Caleb Laughlin License #: CCC1327718	Signature _____ Phone #: 386 752-4022
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 1206	CBC1258773	Isaac Nicholson	
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

1206

Ok

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.

Contractor Forms. Subcontractor form: 6/09

NOTICE OF COMMENCEMENT

Clerk's Office Stamp

Inst. 201212018863 Date 12/21/2012 Time 4:15 PM
DC,P DeWitt Cason,Columbia County Page 1 of 1 B 1246 P 1956

Tax Parcel Identification Number:

30-3S-16-02411-101

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)*: Single-family residential dwelling
   a) Street *(job)* Address: 182 SW Windsor Hill Glen Lake City, FL
2. General description of improvements: New Custom Home
3. Owner Information
   a) Name and address: Minesh Patel X 4478 NW Wisteria Dr Lake City FL 32055
   b) Name and address of fee simple titleholder (if other than owner) X N/A (Same)
   c) Interest in property
4. Contractor Information
   a) Name and address: Isaac Nickelson P.O. Box 2231 Lake City, FL 32056
   b) Telephone No.: (386) 965-0985 Fax No. (Opt.)
5. Surety Information
   a) Name and address:
   b) Amount of Bond: N/A
   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: Isaac Nickelson 198 SW Hydraulic Way Lake City, FL 32024
   b) Telephone No.: (386) 965-0985 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: Isaac Nickelson 198 SW Hydraulic Way Lake City, FL 32024
   b) Telephone No.: (386) 965-0985 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)**: March 1st 2014

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
CHERYL J. BRIDGES
Notary Public - State of Florida
My Comm. Expires Feb 27, 2014
Commission # DD 936944
Bonded Through National Notary Assn.

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

X Minesh Patel
Printed Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 16th day of October, 20 12, by: Minesh Patel as SELF/Owner (type of authority, e.g. officer, trustee, attorney fact) for (name of party on behalf of whom instrument was executed).

Personally Known ✓ OR Produced Identification ____ Type

Notary Signature Cheryl J. Bridges Notary Stamp or Seal:

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.

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

Fax # 386-438-5647

CR # 10-5539

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 12-0483
DATE PAID: 11/8/12
FEE PAID: 315.00
RECEIPT #: 1088265

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: MINESH PATEL

AGENT: PRIMIER BUILDING TELEPHONE: (386) 965-0985

MAILING ADDRESS: LAKE CITY FL

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 1 BLOCK: N/A SUBDIVISION: HILLS OF WINDSOR PLATTED: 1999

PROPERTY ID #: 30-3S-16-02411-101 ZONING: RES I/M OR EQUIVALENT: [NO]

PROPERTY SIZE: 2.680 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [NO] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: SE WINDSOR HILL GLENN

DIRECTIONS TO PROPERTY: 90 WEST PAST I-75, TURN LEFT ON WIDSOR DR. THRU GATE, TURN RIGHT ON WINDSOR HILL GLENN, 1ST ON LEFT.

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No.	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	HOUSE	5	8,951	THIS PERMIT IS FOR 4 BED ROOMS
2				AND 1/2 THE SEWAGE (per engineer design spitflow)
3				FLOW OF THE HOUSE.
4				Held for flow letter recd 11-2012

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

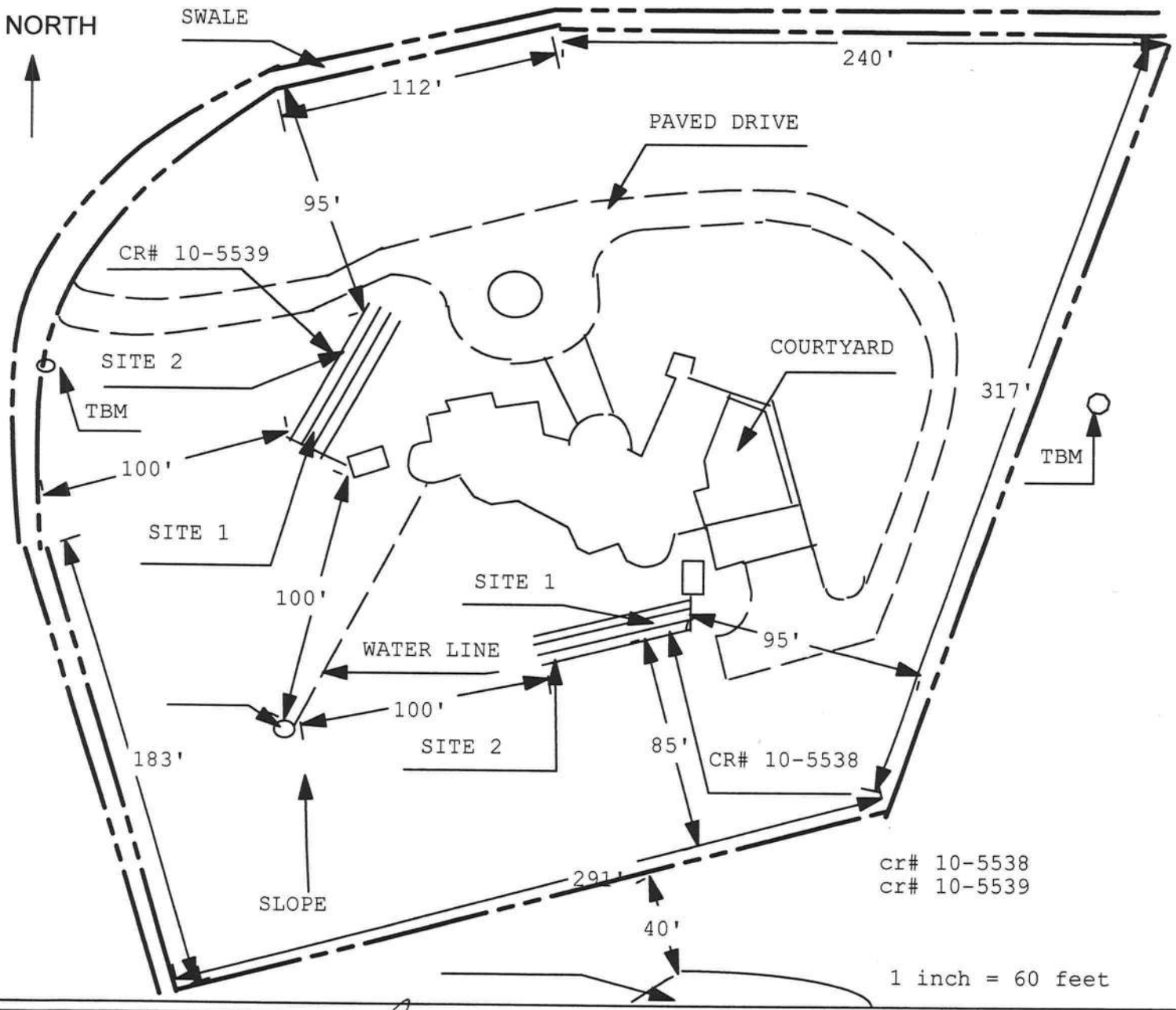
SIGNATURE: [signature] DATE: 11-8-12

DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

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

Permit Application Number: 12-0493

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Carol Kloepfel **Date** 11/6/12

Plan Approved X **Not Approved** ____ **Date** 11-20-12

By Sallie Ford Env Health Director Columbia **CPHU**

Notes: _____

CR # 10-5538

PERMIT NO. 12-0494
DATE PAID: 11/8/12
FEE PAID: 310.00
RECEIPT #: 1088271

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: MINESH PATEL

AGENT: PRIMIER BUILDERS TELEPHONE: (386) 965-0985

MAILING ADDRESS: PO BOX 2232 LAKE CITY FL 32056

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 1 BLOCK: N/A SUBDIVISION: HILLS OF WINDSORS PLATTED: 1999

PROPERTY ID #: 30-3S-16-02411-101 ZONING: COM I/M OR EQUIVALENT: [NO]

PROPERTY SIZE: 2.680 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [NO] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: SW WINDSOR HILL GLENN.

DIRECTIONS TO PROPERTY: 90 WEST PAST I-75, TURN LEFT ON WINDSOR DR. THRU GATE, TURN RIGHT ON WINDSOR HILL GLENN. 1ST ON LEFT.

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No.	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	HOUSE	5	8,951	THIS PERMIT IS FOR 1 BEDROOM
2				THE KITCHEN & LAUNDRY
3				AND 1/2 THE SEWAGE FLOW OF THE HOUSE
4				See attached eng. letter

[ ] Floor/Equipment Drains [ ] Other (Specify) Held for flow letter, rec'd 11-2012

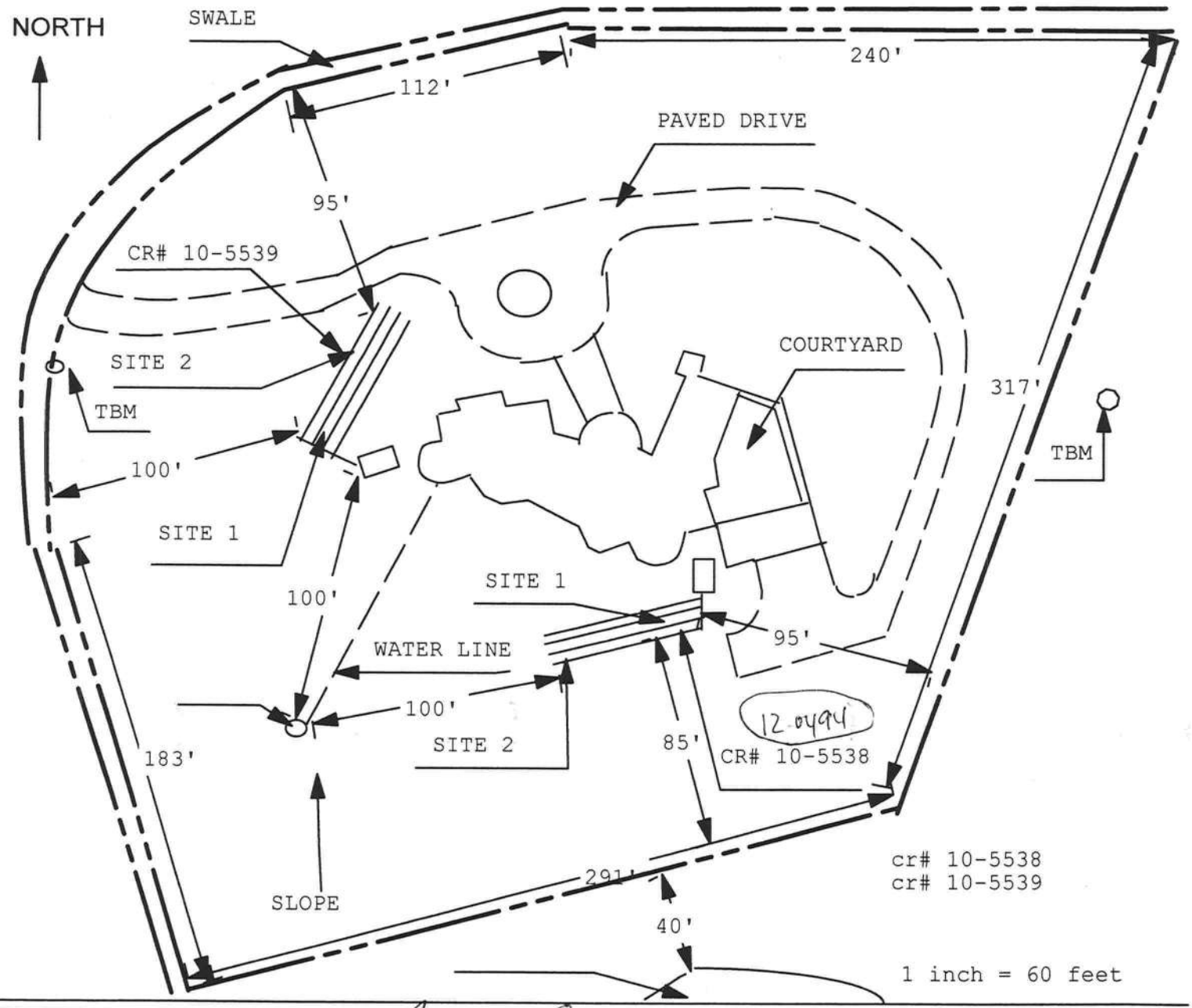
SIGNATURE: _____ DATE: 11-8-12

DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

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

Permit Application Number: 12-0494

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Ron Lloyd **Date** 11/6/12

Plan Approved X **Not Approved** ____ **Date** 11.20.12

By Sallie Forest Env Health Director Columbia **CPHU**

Notes: _____

Structural Plan Service Inc.
P.O. Box 940128
Maitland, Fl. 32794
cel.407-310-7704
fax.866-621-5802
E-mail : structuralplan@yahoo.com

Patel residence
Lot 1 Hills of Windsor
Columbia County, Fl.

Please note the all windows are to be fixed or single hung type in lieu of casement type shown on plar
The new windows shall meet the same structural pressure requirements of negative 25.9 positive 34.7
as shown in plans. The new windows will have an operable single hung or casement type in each of th
sleeping rooms. The operable window in the sleeping room shall meet emergency egress requirement
of clear opening size 5.7 S.F., min.24" tall, min. 20" wide and max. 44" above floor. The operable wind
any where in the building that have the windows clear opening greater than 72" above the exterior gra
or exterior decks shall prevent falling out by either of the falling manners.

1) The windows clear opening shall be at least 24" above the interior finish floor serving the window.
2) The windows with less than 24" to opening shall have a guard rail installed across the clear opening that will prevent the passage of a 4" sphere from passing thru. This guard rail condition is required to protect any clear opening space within 24" of finish floor serving window.

It is an acceptable change to use the new fixed and single hung windows on this project.

Ken Ehl
P.E. #1

REQUESTED BY

ISAAC NICKELSON

386-965-0985

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 10/22/2012 **DATE ISSUED:** 10/23/2012

ENHANCED 9-1-1 ADDRESS:

182 SW WINDSOR HILL GLN

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

30-3S-16-02411-101

Remarks:

ADDRESS FOR PROPOSED STRUCTURE ON PARCEL.

Address Issued By: _____

Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

2390

Columbia County Property Appraiser

J. Doyle Crews - Lake City, Florida 32055 | 386-758-1083

PARCEL: 30-3S-16-02411-101 - VACANT (000000)

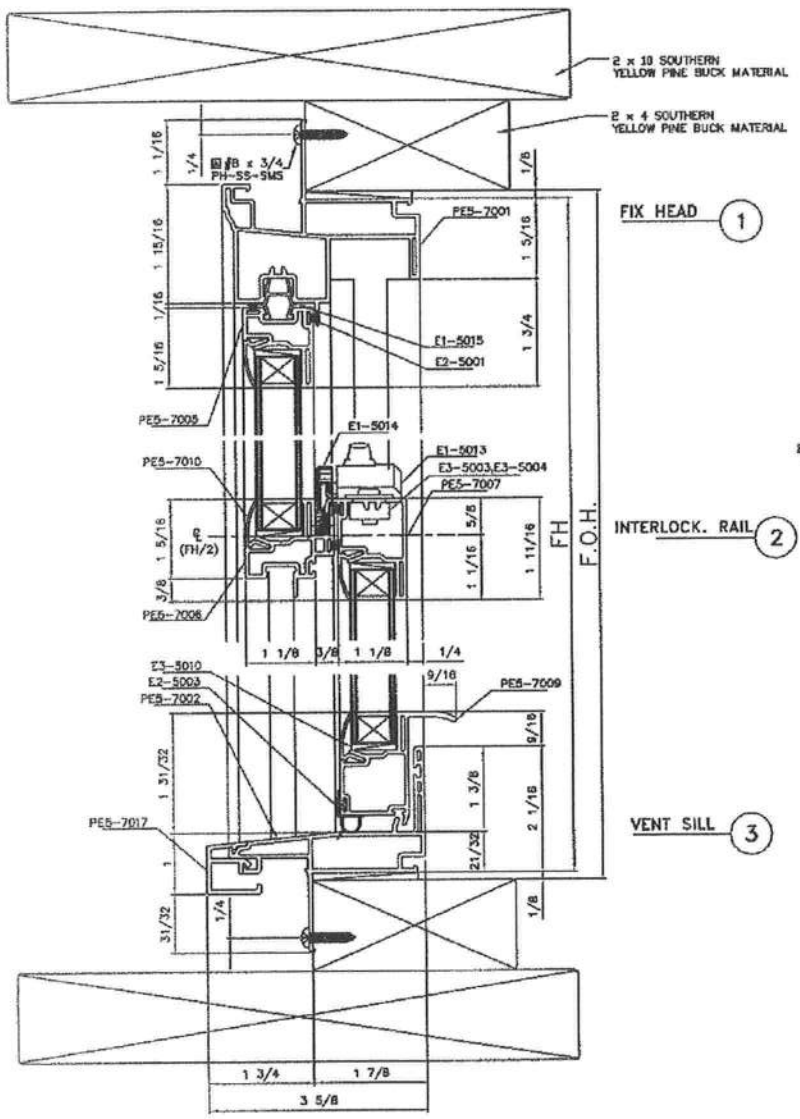
LOT 1 HILLS OF WINDSOR S/D. ORB 868-1086-1089, 898-2318, QC 1187-315,WD 1187-318

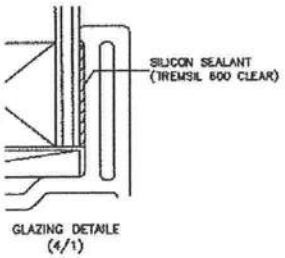
Name:	PATEL MINESH & KETNA		
Site:	HALL OF FAME DR		
Mail:	404 NW HALL OF FAME DR LAKE CITY, FL 32055		
Sales Info	1/4/2010	$70,000.00 V / Q	
	11/24/2009	$100.00 V / U	

2012 Certified Values

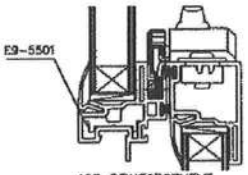
Land	$43,200.00
Bldg	$0.00
Assd	$43,200.00
Exmpt	$0.00
Taxbl	Cnty: $43,200 Other: $43,200 | Schl: $43,200

NOTES:

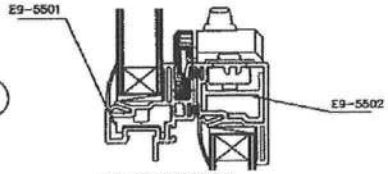




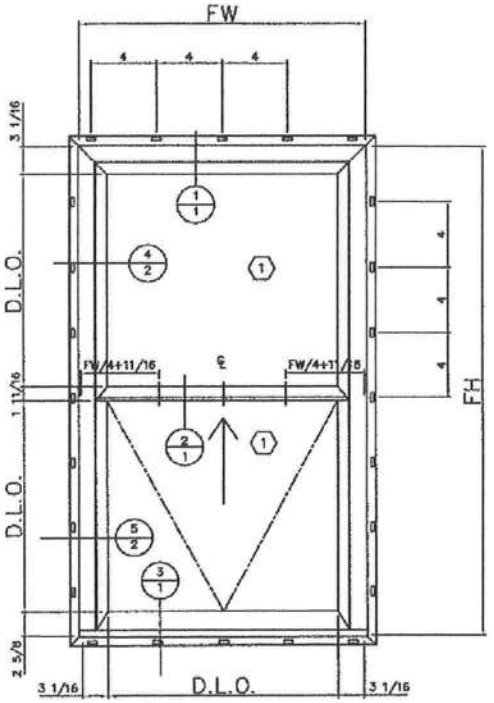
GLAZING DETAILE
(4/1)



ADD REINFORCEMENT
SH4050 , SH3872



ADD REINFORCEMENT
SH4072 ,SH4850 ,SH4872



ELEVATION

(1) TEST (AAMA 101)
FOR DP-50

(1) GLASS TYPE: 3/4" INSULATED UNIT
1-A : 3/32" LOW-E.AN X 9/16" AIR X 3/32" CLR.AN
(SH3050 , SH3072 ,SH4050 , SH4850)
1-B : 1/8" LOW-E.AN X 1/2" AIR X 1/8" CLR.AN
(SH3872 ,SH4072 ,SH4872)
● (FW- 5 5/32") x (FH/2-2 11/16")

● - INDICATES LOCK LOCATION
FW<38" ONE LOCK(CENTER)
FW>38" TWO LOCK(FW/4-11/16)

Hurricane Test Laboratory

HTL LLC

AS TESTED UNLESS
OTHERWISE NOTED

Date 7/27/07
Job# G231-0606-08
G231-1102-06

REV.	DESCRIPTION	BY	DATE
A	ADD SCREW	JG	01/12/07

YKK ap

SYSTEM	STYLE VIEW	SCALE 1/2
DESCRIPTION	SINGLE HUNG (DP50)	
DRAWING NUMBER	PES-7000-0103	REV.
APPROVED BY M.M	DRAWN BY J.GOTO	DATE 03/16/06
		SHEET NO 1 OF 2

PREMIER BUILDING
"Building Your Structural Future"

CBC-1258773
Product Approval Codes

P.O. Box 2231 Lake City, FL 32056 **Date: 10/29/12**

1. **Windows-FL 9965-R2**
2. **Doors-FL 5851-R3**
3. **Roofing-FL 10674-R7**

Sincerely, Isaac Nickelson
(386) 965-0985
Owner/President

Hall's Pump & Well Service, Inc.
904 NW Main Blvd
Lake City, FL. 32055

Date: 10/30/2012

Notice to All Contractors:
Re: Minseh Patel

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results. All wells will have a pump & tank combination that will be sufficient enough for each situation.

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

Thank You,

Russell Davis

Russell Davis

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 30767 CONTRACTOR Isaac Nickelson PHONE _____

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 _____ License #:	Signature _____ Phone #:
MECHANICAL/ A/C _____	Print Name _____ License #:	Signature _____ Phone #:
PLUMBING/ GAS	Print Name _____ 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 #:

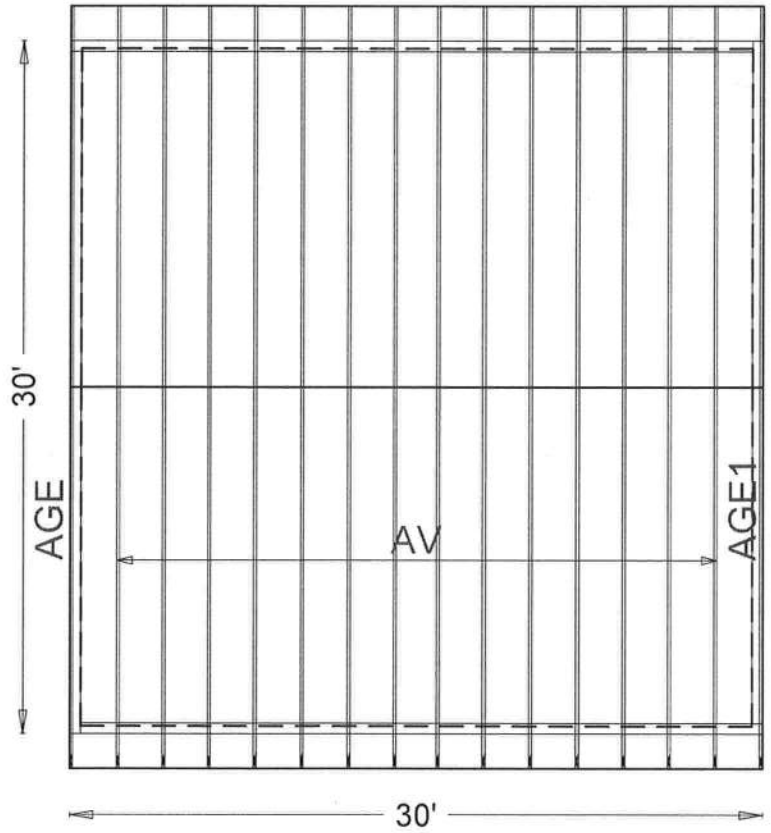
Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL	1450	Wade Heitzman	
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

RECEIVED
2-3-14

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.

30767

Dave Sanderson Res

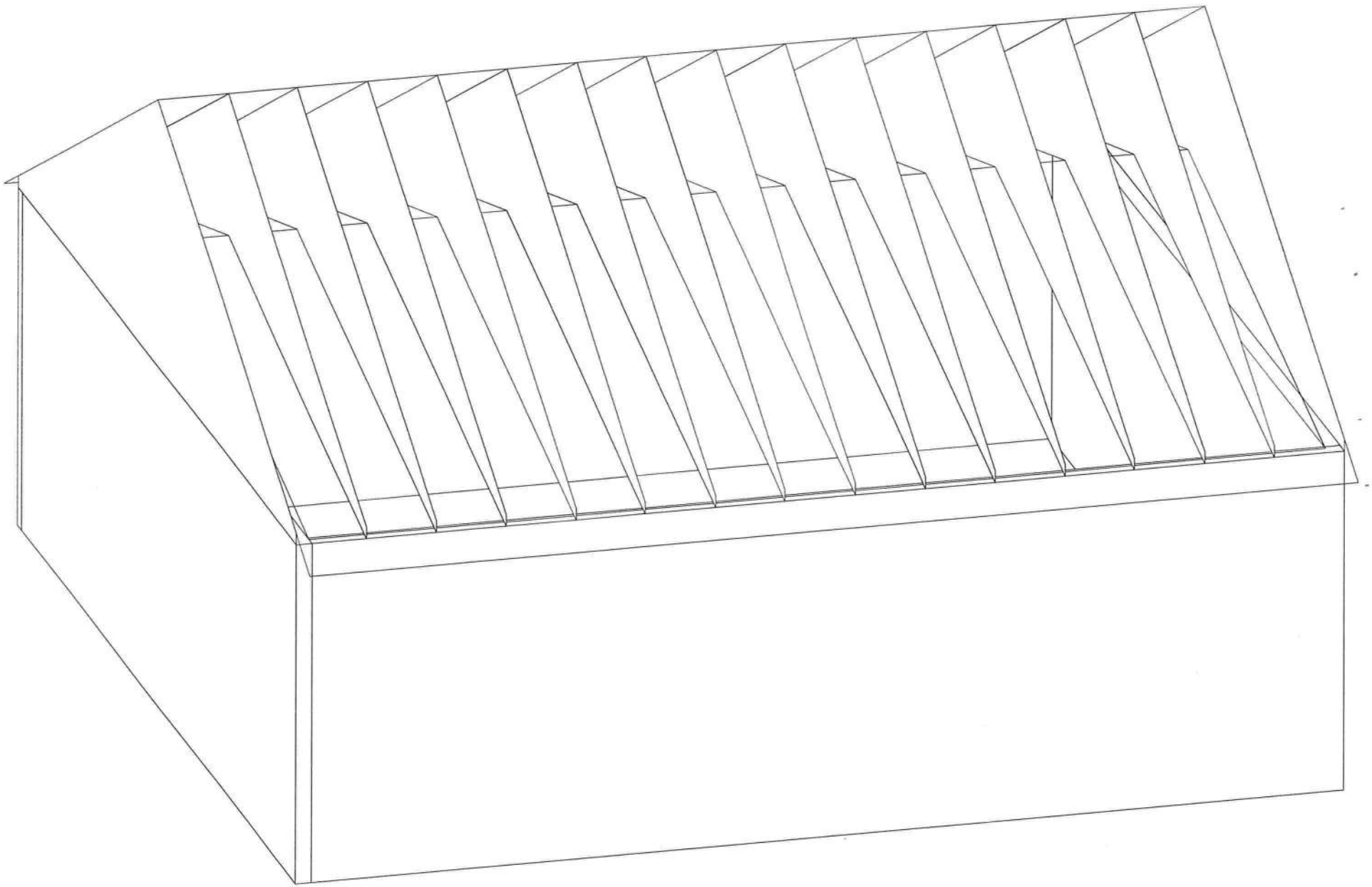


Total Plan Area with OHs = 990 sq.ft

Roof Plane Sheathing Area = 1107 sq. ft

Total Truss Quantity = 16.

File



ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1URS9114Z0505150955

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/05/2012

Truss Fabricator:	**Anderson Truss Company**
Job Identification:	**12-370A--Premier Building 30'x30' Building -- 156 NW Gael[illegible] Ct Lake City, FL**
Truss Count:	**3**
Model Code:	**Florida Building Code 2010**
Truss Criteria:	**FBC2010Res/TPI-2007(STD)**
Engineering Software:	**Alpine Software,Version 10.03.**
Structural Engineer of Record:	**The identity of the structural EOR did not exist as of**
Address:	**the seal date per section 61G15-31.003(5a) of the FAC**
Minimum Design Loads:	**Roof - 40.0 PSF @ 1.25 Duration**
	Floor - N/A
	Wind - 120 MPH ASCE 7-10 -Closed

Notes:

1. **Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1**
2. **The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.**
3. **As shown on attached drawings; the drawing number is preceded by: HCUSR9114**

Walter P. Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: BRCLBSUB-12015EC1-GBLLETIN-GABRST10-

#	Ref	Description	Drawing#	Date
1	93090--AV	30' Scissor	12340014	12/05/12
2	93091--AGE1	30' Gable	12340015	12/05/12
3	93092--AGE	30' Gable	12340016	12/05/12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(12-370A--Premier Building 30'x30' Building -- 156 NW Gaelic Ct Lake City, FL - AV 30' Scissor)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3__12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Calculated horizontal deflection is 0.24" due to live load and 0.37" due to dead load.

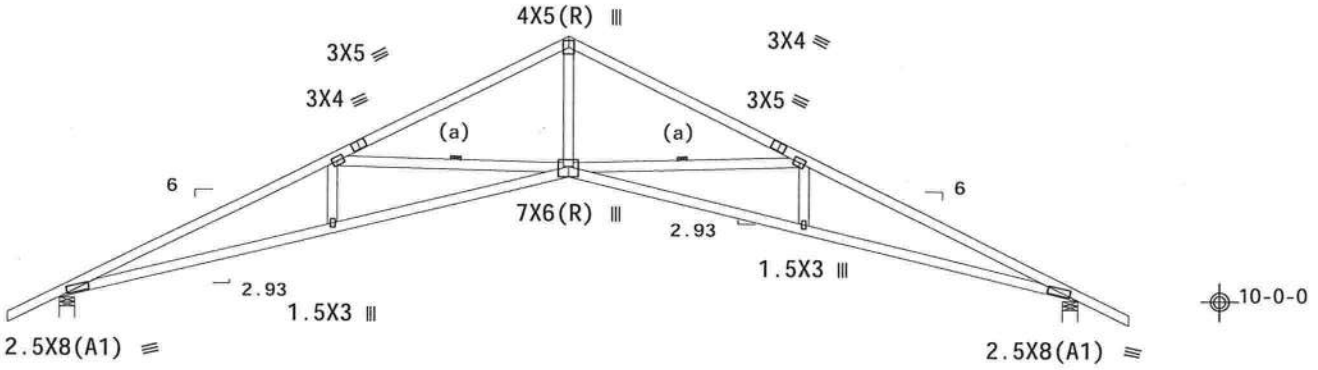
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

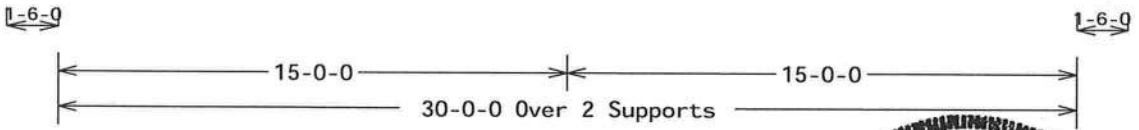
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.





R=1344 U=0 W=5.5"
RL=132/-132

R=1345 U=0 W=5.5"

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave

FT/RT=10%(0%)/0(0)

10.03.11.0209.28

QTY 14 FL/-/4/-/-/R/-

Scale =.1875"/Ft.

WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/05/2012

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design by others, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing and temporary bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpinst.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

TC LL	20.0 PSF	REF	R9114- 93090
TC DL	10.0 PSF	DATE	12/05/12
BC DL	10.0 PSF	DRW	HCUSR9114 12340014
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEQN-	295085
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1URS9114Z05

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(12-370A--Premier Building 30'x30' Building -- 156 NW Gaelic Ct Lake City, FL - AGE1 30' Gable)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3__12A
:Stack Chord SC1 2x4 SP_#1_12A::Stack Chord SC2 2x4 SP_#1_12A:

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

See DWGS A12015ENC100212, GBLLETIN0212, & GABRST100212 for more requirements.

(a) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" OC.

In lieu of structural panels use purlins to brace TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

THE PROJECT ENGINEER SHALL PROVIDE FOR ENDWALL STABILITY PER SECTION 2304.3.4.1 OF THE 2010 FLORIDA BUILDING CODE. THE TOP OF THE WALL BELOW THIS TRUSS SHALL BE LATERALLY BRACED AS SPECIFIED BY THE PROJECT ENGINEER. THIS TRUSS WILL NOT PROVIDE LATERAL SUPPORT OF THE ENDWALL.

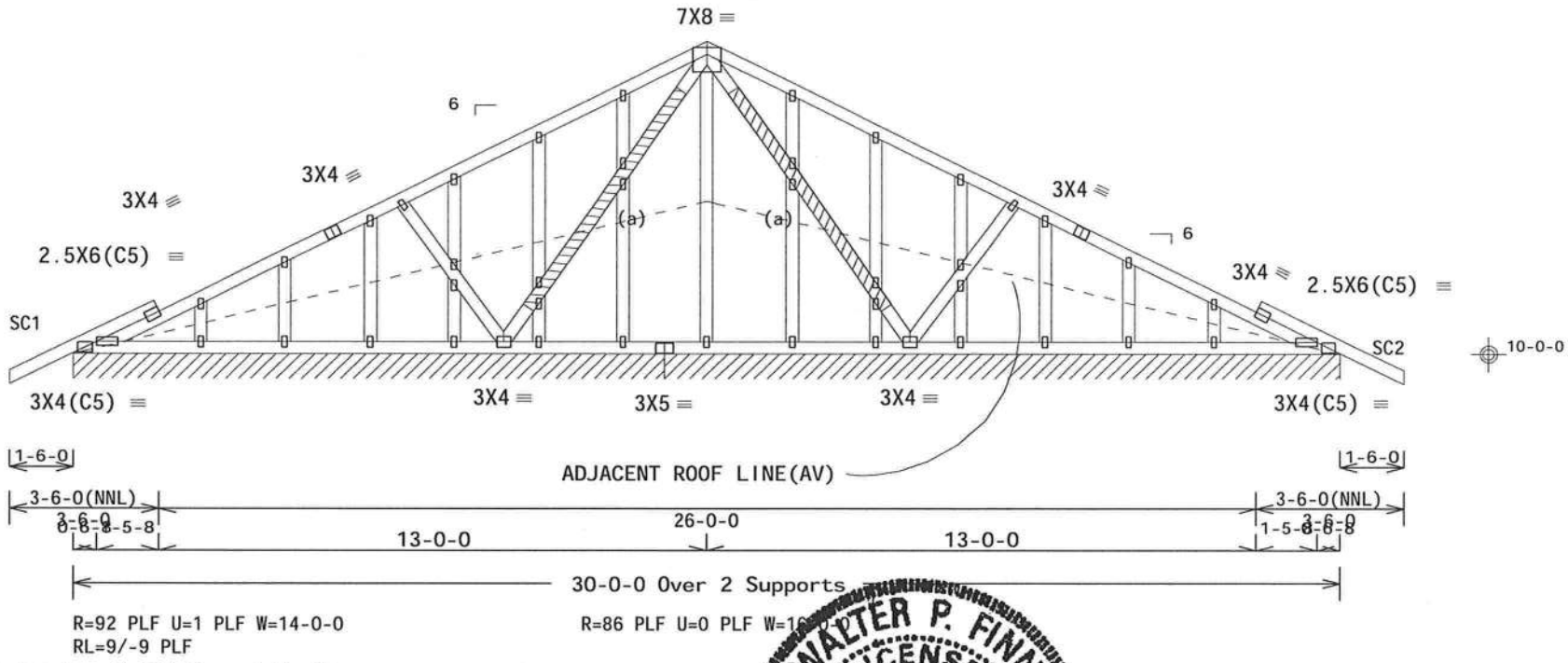
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Gable end supports 8" max rake overhang.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



R=92 PLF U=1 PLF W=14-0-0
RL=9/-9 PLF

R=86 PLF U=0 PLF W=16-0-0

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave

FT/RT=10%(0%)/0(0)

10.03.10 022839 QTY:

FL/-/4/-/-/R/-

Scale =.25"/Ft.

WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/05/2012

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
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TC LL	20.0 PSF	REF	R9114- 93091
TC DL	10.0 PSF	DATE	12/05/12
BC DL	10.0 PSF	DRW	HCUSR9114 12340015
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEQN-	295095
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1URS9114Z05

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(12-370A--Premier Building 30'x30' Building -- 156 NW Gaelic Ct Lake City, FL - AGE 30' Gable)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3__12A
:Stack Chord SC1 2x4 SP_#1_12A::Stack Chord SC2 2x4 SP_#1_12A:

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

See DWGS A12015ENC100212, GBLLETIN0212, & GABRST100212 for more requirements.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

THE PROJECT ENGINEER SHALL PROVIDE FOR ENDWALL STABILITY PER SECTION 2304.3.4.1 OF THE 2010 FLORIDA BUILDING CODE. THE TOP OF THE WALL BELOW THIS TRUSS SHALL BE LATERALLY BRACED AS SPECIFIED BY THE PROJECT ENGINEER. THIS TRUSS WILL NOT PROVIDE LATERAL SUPPORT OF THE ENDWALL.

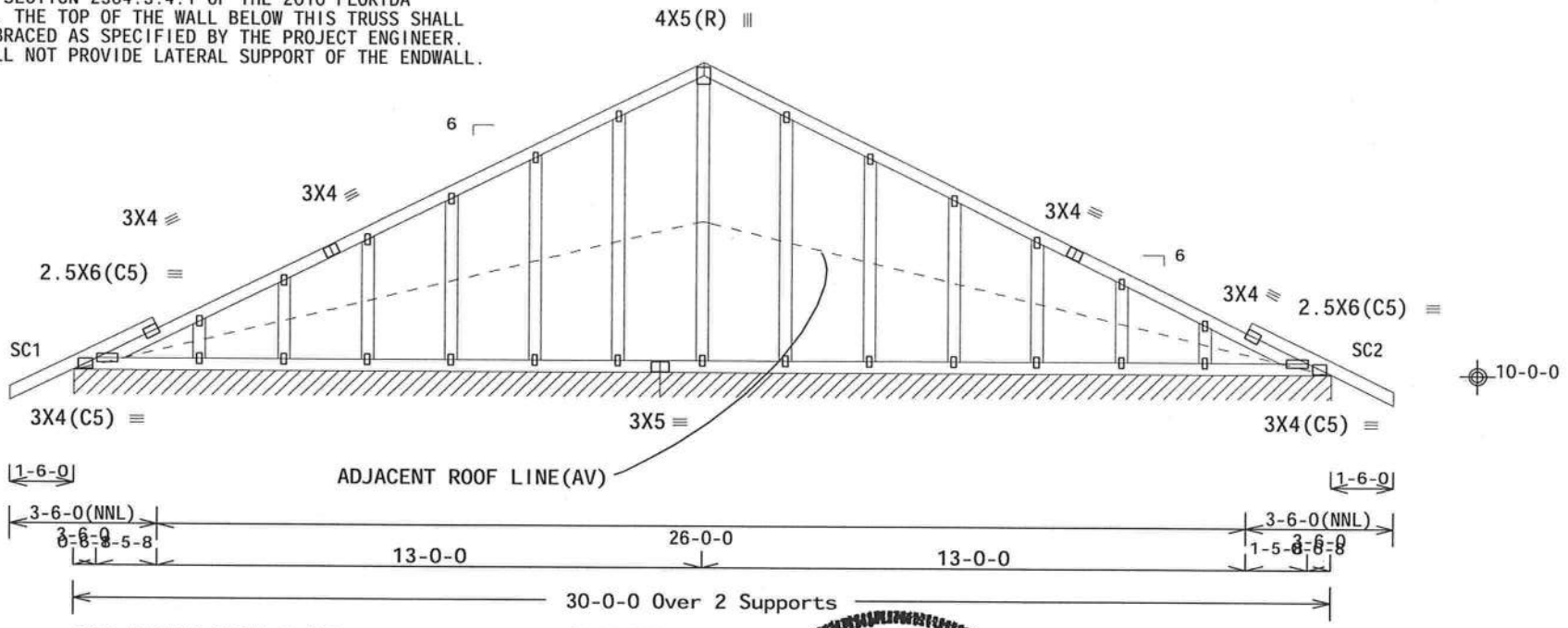
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Gable end supports 8" max rake overhang.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

In lieu of structural panels use purlins to brace TC @ 24" OC.



Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD

PLT TYP. Wave

FT/RT=10%(0%)/0(0) 10.03.11.0209.20 QTY 1 FL/-/4/-/-/R/- Scale =.25"/Ft.

WALTER P. FINN LICENSE No.22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/05/2012

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

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TC LL	20.0 PSF	REF	R9114- 93092
TC DL	10.0 PSF	DATE	12/05/12
BC DL	10.0 PSF	DRW	HCUSR9114 12340016
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEQN-	295091
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1URS9114Z05

CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON A TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

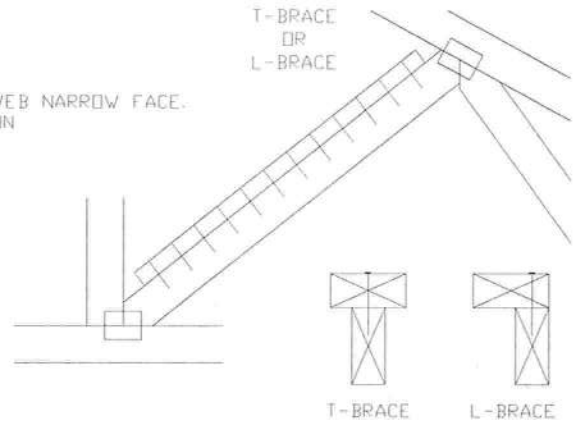
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

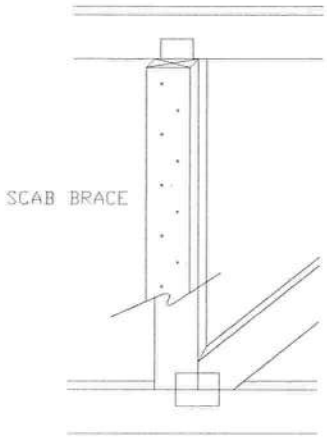
T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.
ATTACH WITH 10d BOX OR GUN
(0.128"x 3",MIN) NAILS.
AT 6" O.C.
BRACE IS A
MINIMUM 80% OF WEB
MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d BOX OR GUN
(0.128"x 3",MIN) NAILS.
AT 6" O.C.
BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



WALTER P. FINN
LICENSE
No. 22839
STATE OF FLORIDA
PROFESSIONAL ENGINEER

12
12/05/2012

Building Components Group Inc.

Earth City, MO 63045

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IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design, any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 20/18/16GA (W,H/S/K) ASTM grade 37/40/60 (K/W/H,S) galv. steel. Apply plates to each face of truss, positioned as shown and on Joint Details.
A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.
ITW-BCG: www.itwbcg.com; TPI: www.tpinst.com; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

TC LL	PSF	REF CLB SUBST.
TC DL	PSF	DATE 1/1/09
BC DL	PSF	DRWG BRCLBSUB0109
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

Gable Stud Reinforcement Detail

ASCE 7-10: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 100 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#1 / #2	4' 10"	8' 2"	8' 6"	9' 8"	10' 1"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	7' 9"	8' 3"	9' 7"	9' 11"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	8' 1"	8' 4"	9' 7"	9' 11"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 7"	8' 1"	8' 4"	9' 7"	9' 11"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 3"	8' 7"	9' 9"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 10"	8' 2"	8' 6"	9' 8"	10' 1"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 11"	7' 4"	9' 3"	9' 10"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 11"	7' 4"	9' 3"	9' 10"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 7"	6' 0"	6' 4"	8' 0"	8' 6"	10' 10"	11' 7"	12' 6"	13' 5"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 6"	9' 5"	9' 9"	11' 1"	11' 6"	13' 2"	13' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	9' 3"	9' 9"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	9' 3"	9' 7"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 3"	9' 3"	9' 7"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 5"	9' 10"	11' 2"	11' 7"	13' 3"	13' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 6"	9' 5"	9' 9"	11' 1"	11' 6"	13' 2"	13' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 6"	9' 0"	10' 11"	11' 4"	13' 0"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 3"	7' 4"	7' 10"	9' 9"	10' 5"	13' 0"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	6' 1"	10' 4"	10' 8"	12' 2"	12' 8"	13' 2"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 9"	10' 2"	10' 7"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 9"	10' 2"	10' 7"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 9"	10' 2"	10' 7"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 2"	10' 5"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	6' 1"	10' 4"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 9"	9' 9"	10' 5"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 9"	9' 9"	10' 5"	12' 0"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 9"	8' 6"	9' 0"	11' 3"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 35 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

So. Pine lumber design values based on the ALSC January, 2012 rulin

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

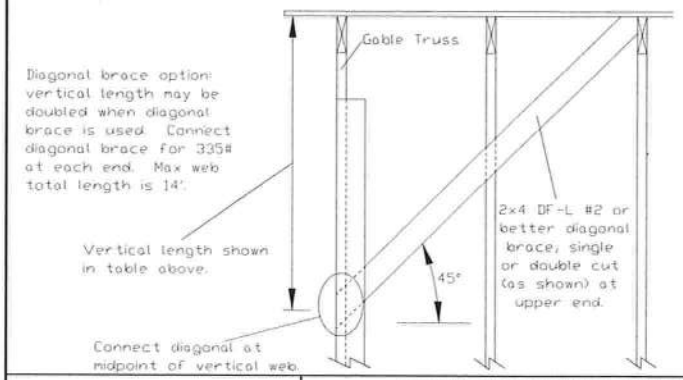
** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

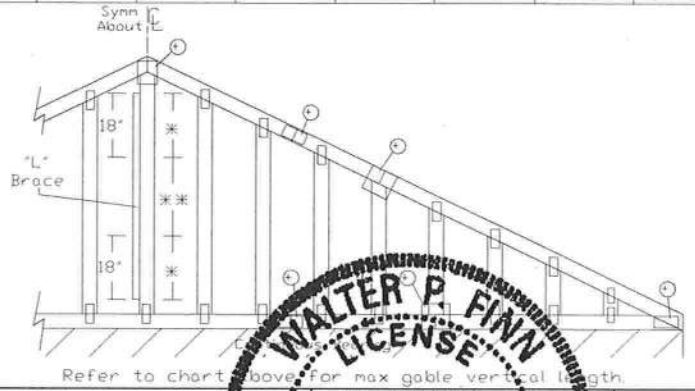
"L" bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greather than 11' 6"	2.5X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.





WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/05/2012

ITW Building Components Group Inc.

Earth City, MO 63045

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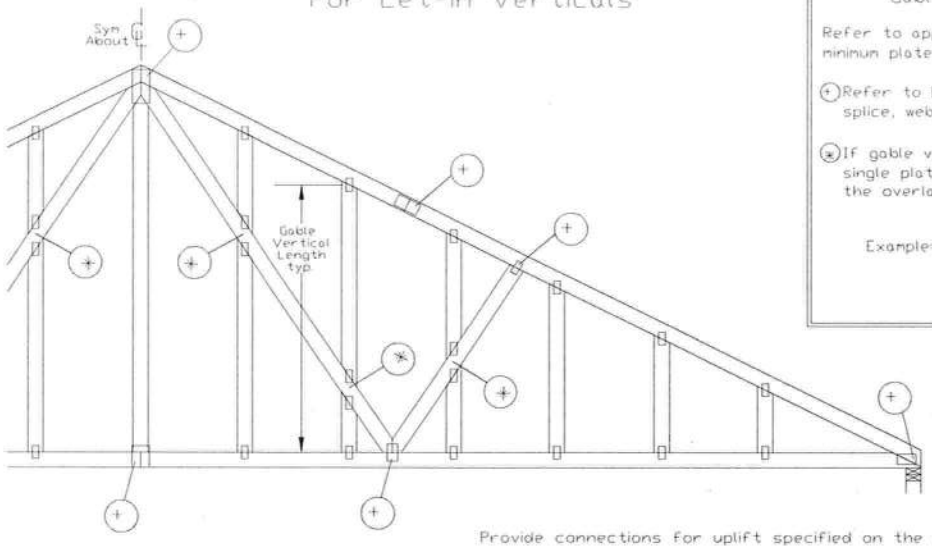
MAX. TOT. L.D. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-10-GAB12015
DATE	2/14/12
DRWG	A12015ENC100212

Gable Detail
For Let-in Verticals



Gable Truss Plate Sizes

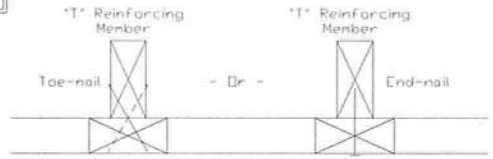
Refer to appropriate ITW gable detail for minimum plate sizes for vertical studs.

(+) Refer to Engineered truss design for peak, splice, web, and heel plates.

(*) If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:

"T" Reinforcement Attachment Detail

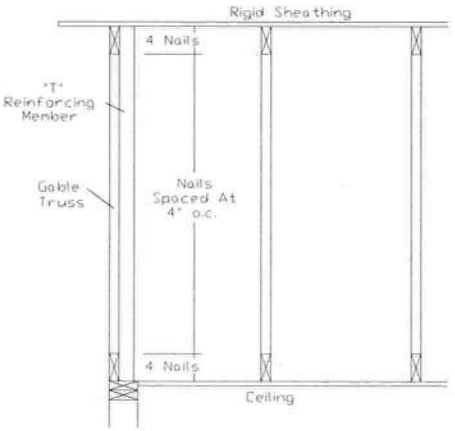


Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
- 10d Common (0.148"x 3",min) Nails at 4" o.c. plus
- (4) nails in the top and bottom chords.

Toenailed Nails:
- 10d Common (0.148"x3",min) Toenails at 4" o.c. plus
- (4) toenails in the top and bottom chords.



This detail to be used with the appropriate ITW gable detail for ASCE wind load.

ASCE 7-98 Gable Detail Drawings
A13015980109, A12015980109, A11015980109, A10015980109,
A13030980109, A12030980109, A11030980109, A10030980109

ASCE 7-02 Gable Detail Drawings
A13015020109, A12015020109, A11015020109, A10015020109, A14015020109,
A13030020109, A12030020109, A11030020109, A10030020109, A14030020109

ASCE 7-05 Gable Detail Drawings
A13015050109, A12015050109, A11015050109, A10015050109, A14015050109,
A13030050109, A12030050109, A11030050109, A10030050109, A14030050109

ASCE 7-10 Gable Detail Drawings
A11515ENC100212, A12015ENC100212, A14015ENC100212, A[illegible]5ENC100212,
A18015ENC100212, A20015ENC100212, A20015EN[illegible]5PA100212,
A11530ENC100212, A12030ENC100212, A14030[illegible]0212,
A18030ENC100212, A20030ENC100212, A200[illegible]0212

See appropriate ITW gable detail for maxim[illegible] unreinforced gable vertical length.

To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate ITW gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
- ASCE 7-10 Wind Speed = 120 mph
- Mean Roof Height = 30 ft, Kzt = 1.00
- Gable Vertical = 24"o.c. SP #3
- "T" Reinforcing Member Size = 2x4
- "T" Brace Increase (From Above) = 30% = 1.30
- (1) 2x4 "L" Brace Length = 8' 7"
- Maximum "T" Reinforced Gable Vertical Length
  1.30 x 8' 7" = 11' 2"

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

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For more information see this job's general notes page and these web sites:
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MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF LET-IN VERT
DATE 2/16/12
DRWG GBLLETIN0212

ASCE 7-10: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-10, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-10, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-10, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

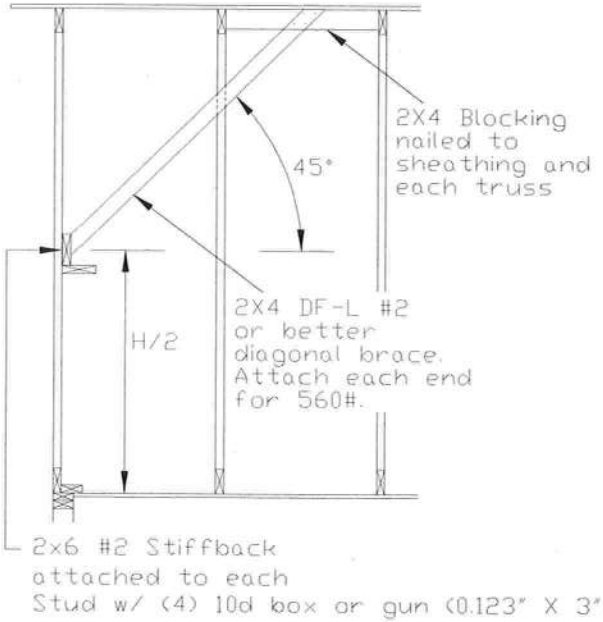
Nails: 10d box or gun (0.128"x3",min) nails.

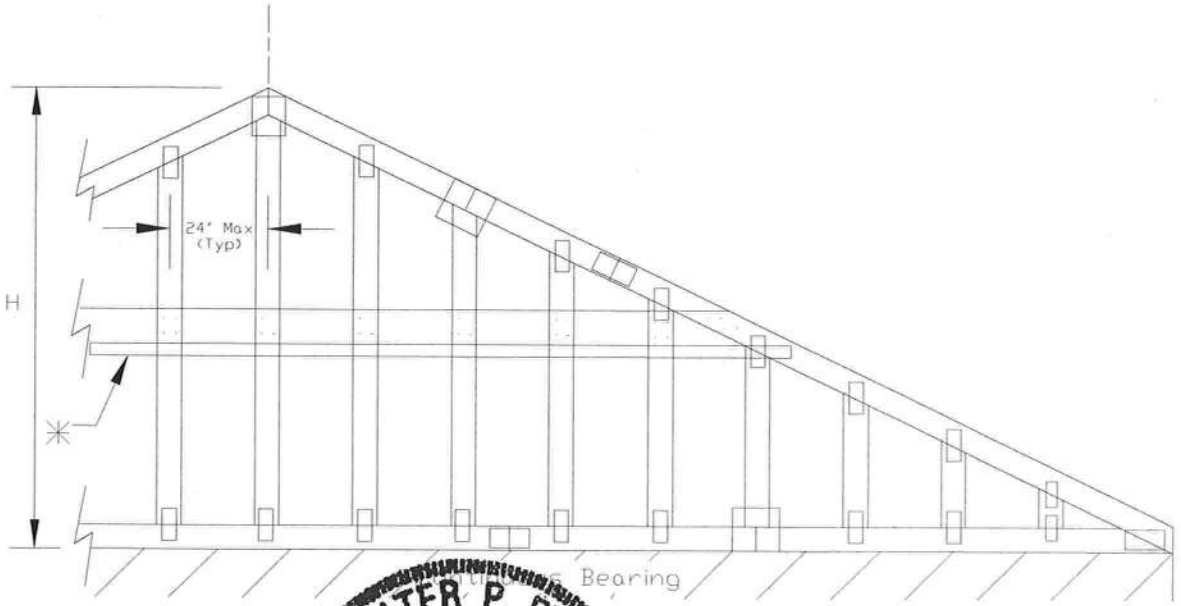
H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC10).

H Greater than 7'6" to 12'0" max: provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC10).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.





WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/05/2012

ITW Building Components Group Inc.

Earth City, MO 63045

WARNING! READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this job's general notes page and these web sites: ITWBCG: www.itwbcg.com; TPI: www.tpinst.org; WTCA: www.sbcindustry.org; ICC: www.iccsafe.or

MAX. TOT. LD. 60 PSF

MAX. SPACING

REF GE WHALER
DATE 2/14/12
DRWG GABRST100212

30767

OK
BLK
25 July 2014

Britt Surveying and Mapping, LLC
2086 SW Main Blvd Ste 112 • Lake City, FL 32025
386-752-7163 P • 386-752-5573 F • www.brittsurvey.com

07/25/14

L-23210

Re: Lot 1 Hills of Windsor

Ketna Patel

To Whom It May Concern:

The elevation of the top of the finished floor is found to be 115.54 feet. The highest adjacent grade to the residence is 113.16 feet and the lowest adjacent grade is 113.09 feet. The elevations shown are based on NAVD 88 datum.

Sincerely,

L. Scott Britt
LS 5757

FLORIDA DEPARTMENT OF
Business & Professional Regulation

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OFFICE OF THE SECRETARY

Product Approval
USER: Public User

Product Approval Menu > Product or Application Search > **Application List**

Search Criteria Refine Search

Code Version	2010	FL#	9965
Application Type	ALL	Product Manufacturer	ALL
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL
Quality Assurance Entity	ALL	Quality Assurance Entity Contract Expired	ALL
Product Model, Number or Name	ALL	Product Description	ALL
Approved for use in HVHZ	ALL	Approved for use outside HVHZ	ALL
Impact Resistant	ALL	Design Pressure	ALL
Other	ALL		

Search Results - Applications

FL#	Type	Manufacturer	Validated By	Status
FL9965-R2 History	Affirmation	YKK AP America **Category:** Windows **Subcategory:** Single Hung	Joseph A Reed, PE (717) 764-7700	Approved

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Residential System Sizing Calculation

Summary

Mr & Mrs Minesh Patel

Lake City, FL 32025-

Project Title:
Minesh Patel Residence

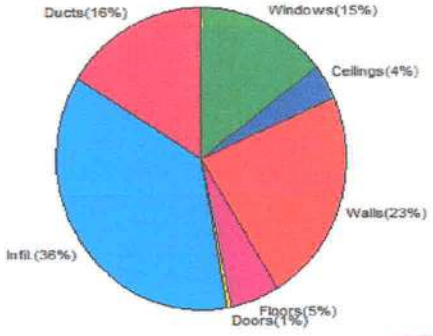
10/29/2012

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature(MJ8 99%)	33	F	Summer design temperature(MJ8 99%)	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**149586**	**Btuh**	**Total cooling load calculation**	**184407**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	140.4	210000	Sensible (SHR = 0.75)	112.9	157500
Heat Pump + Auxiliary(0.0kW)	140.4	210000	Latent	116.9	52500
			Total (Electric Heat Pump)	113.9	210000

WINTER CALCULATIONS

Winter Heating Load (for 8850 sqft)

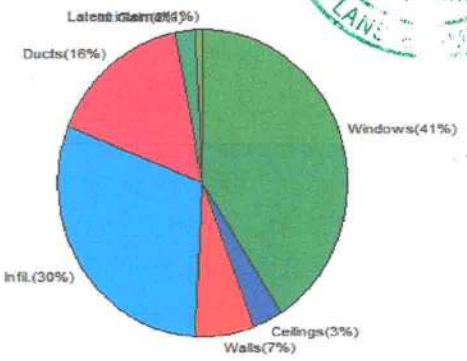
Load component			Load	
Window total	2000	sqft	22204	Btuh
Wall total	8302	sqft	34266	Btuh
Door total	45	sqft	772	Btuh
Ceiling total	4731	sqft	5575	Btuh
Floor total	See detail report		8193	Btuh
Infiltration	1342	cfm	54373	Btuh
Duct loss			24203	Btuh
Subtotal			**149586**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**149586**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 8850 sqft)

Load component			Load	
Window total	2000	sqft	75003	Btuh
Wall total	8302	sqft	12062	Btuh
Door total	45	sqft	497	Btuh
Ceiling total	4731	sqft	6328	Btuh
Floor total			0	Btuh
Infiltration	1007	cfm	18737	Btuh
Internal gain			4240	Btuh
Duct gain			22623	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			**139489**	**Btuh**
Latent gain(ducts)			6526	Btuh
Latent gain(infiltration)			36792	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**44918**	**Btuh**
TOTAL HEAT GAIN			**184407**	**Btuh**



Powered by ACCA MANUAL J 8th Edition

EnergyGauge® System Sizing
PREPARED BY:
DATE: 10/29/12

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Mr & Mrs Minesh Patel

Lake City, FL 32025-

Project Title:
Minesh Patel Residence

10/29/2012

Reference City: Gainesville, FL Temperature Difference: 17.0F(MJ8 99%) Humidity difference: 54gr.

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mr & Mrs Minesh Patel

Project Title: Minesh Patel Residence

Climate:FL_GAINESVILLE_REGIONAL_A

Lake City, FL 32025-

10/29/2012

Component Loads for Whole House

Window	Type*					Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2 NFRC	0.50,	0.30	No	No	E	2.5ft.	12.0f	114.3	0.0	114.3	16	53	6093	Btuh
2	2 NFRC	0.50,	0.30	No	No	E	2.5ft.	12.0f	34.7	0.0	34.7	16	53	1852	Btuh
3	2 NFRC	0.50,	0.30	No	No	E	2.5ft.	12.0f	23.3	0.0	23.3	16	53	1245	Btuh
4	2 NFRC	0.50,	0.30	No	No	E	2.5ft.	2.0ft.	34.3	0.4	33.9	16	53	1815	Btuh
5	2 NFRC	0.50,	0.30	No	No	E	2.5ft.	2.0ft.	45.8	0.4	45.4	16	53	2424	Btuh
6	2 NFRC	0.50,	0.30	No	No	SE	2.5ft.	12.0f	23.1	0.0	23.1	16	41	944	Btuh
7	2 NFRC	0.50,	0.30	No	No	SE	2.5ft.	2.0ft.	77.1	24.1	52.9	16	41	2543	Btuh
8	2 NFRC	0.50,	0.30	No	No	SE	5.0ft.	2.0ft.	18.6	17.1	1.4	16	41	326	Btuh
9	2 NFRC	0.50,	0.30	No	No	SE	2.5ft.	12.0f	68.6	0.0	68.6	16	41	2809	Btuh
10	2 NFRC	0.50,	0.30	No	No	SE	10.0f	2.0ft.	20.8	20.8	0.0	16	41	325	Btuh
11	2 NFRC	0.50,	0.30	No	No	S	8.0ft.	2.0ft.	34.3	34.3	0.0	16	20	536	Btuh
12	2 NFRC	0.50,	0.30	No	No	S	2.5ft.	12.0f	23.1	7.5	15.5	16	20	421	Btuh
13	2 NFRC	0.50,	0.30	No	No	S	2.5ft.	12.0f	24.0	6.6	17.4	16	20	443	Btuh
14	2 NFRC	0.50,	0.30	No	No	SW	2.5ft.	12.0f	69.2	0.0	69.2	16	41	2832	Btuh
15	2 NFRC	0.50,	0.30	No	No	SW	2.5ft.	12.0f	37.1	0.0	37.1	16	41	1519	Btuh
16	2 NFRC	0.50,	0.30	No	No	SW	8.0ft.	2.0ft.	34.3	34.3	0.0	16	41	536	Btuh
17	2 NFRC	0.50,	0.30	No	No	W	2.5ft.	12.0f	33.2	0.0	33.2	16	53	1769	Btuh
18	2 NFRC	0.50,	0.30	No	No	W	8.0ft.	2.0ft.	34.3	23.6	10.7	16	53	940	Btuh
19	2 NFRC	0.50,	0.30	No	No	W	2.5ft.	12.0f	34.3	0.0	34.3	16	53	1829	Btuh
20	2 NFRC	0.50,	0.30	No	No	NW	4.0ft.	2.0ft.	18.6	0.0	18.6	16	39	718	Btuh
21	2 NFRC	0.50,	0.30	No	No	NW	2.5ft.	2.0ft.	68.6	0.0	68.6	16	39	2656	Btuh
22	2 NFRC	0.50,	0.30	No	No	NW	2.5ft.	12.0f	23.1	0.0	23.1	16	39	893	Btuh
23	2 NFRC	0.50,	0.30	No	No	NE	10.0f	2.0ft.	34.3	0.0	34.3	16	39	1328	Btuh
24	2 NFRC	0.50,	0.30	No	No	NE	2.5ft.	12.0f	68.6	0.0	68.6	16	39	2656	Btuh
25	2 NFRC	0.50,	0.30	No	No	NE	2.5ft.	2.0ft.	45.8	0.0	45.8	16	39	1770	Btuh
26	2 NFRC	0.50,	0.30	No	No	NE	2.5ft.	12.0f	23.1	0.0	23.1	16	39	893	Btuh
27	2 NFRC	0.50,	0.30	No	No	W	12.0f	2.0ft.	24.0	23.9	0.1	16	53	379	Btuh
28	2 NFRC	0.50,	0.30	No	No	NE	5.0ft.	5.0ft.	35.5	0.0	35.5	16	39	1372	Btuh
29	2 NFRC	0.50,	0.30	No	No	NE	8.0ft.	5.0ft.	72.0	0.0	72.0	16	39	2786	Btuh
30	2 NFRC	0.50,	0.30	No	No	SW	2.5ft.	2.0ft.	37.1	11.6	25.5	16	41	1225	Btuh
31	2 NFRC	0.50,	0.30	No	No	W	2.5ft.	2.0ft.	33.2	0.4	32.8	16	53	1755	Btuh
32	2 NFRC	0.50,	0.30	No	No	NW	2.5ft.	2.0ft.	18.6	0.0	18.6	16	39	718	Btuh
33	2 NFRC	0.50,	0.30	No	No	W	2.5ft.	2.0ft.	21.3	0.2	21.1	16	53	1130	Btuh
34	2 NFRC	0.50,	0.30	No	No	S	2.5ft.	2.0ft.	34.3	34.3	0.0	16	20	536	Btuh
35	2 NFRC	0.50,	0.30	No	No	SW	2.5ft.	2.0ft.	34.3	10.7	23.6	16	41	1132	Btuh
36	2 NFRC	0.50,	0.30	No	No	W	2.5ft.	2.0ft.	34.3	0.4	33.9	16	53	1815	Btuh
37	2 NFRC	0.50,	0.30	No	No	S	2.5ft.	2.0ft.	21.3	21.3	0.0	16	20	333	Btuh
38	2 NFRC	0.50,	0.30	No	No	SE	2.5ft.	2.0ft.	18.6	5.8	12.7	16	41	613	Btuh
39	2 NFRC	0.50,	0.30	No	No	S	2.5ft.	2.0ft.	33.2	33.2	0.0	16	20	518	Btuh
40	2 NFRC	0.50,	0.30	No	No	S	2.5ft.	2.0ft.	23.1	23.1	0.0	16	20	360	Btuh
41	2 NFRC	0.50,	0.30	No	No	W	2.5ft.	2.0ft.	34.3	0.4	33.9	16	53	1815	Btuh
42	2 NFRC	0.50,	0.30	No	No	SW	2.5ft.	2.0ft.	23.1	7.2	15.8	16	41	761	Btuh
43	2 NFRC	0.50,	0.30	No	No	NW	2.5ft.	2.0ft.	23.1	0.0	23.1	16	39	893	Btuh
44	2 NFRC	0.50,	0.30	No	No	N	2.5ft.	2.0ft.	23.1	0.0	23.1	16	16	360	Btuh
45	2 NFRC	0.50,	0.30	No	No	N	2.5ft.	2.0ft.	34.3	0.0	34.3	16	16	536	Btuh
46	2 NFRC	0.50,	0.30	No	No	N	2.5ft.	2.0ft.	34.3	0.0	34.3	16	16	536	Btuh
47	2 NFRC	0.50,	0.30	No	No	N	2.5ft.	2.0ft.	45.8	0.0	45.8	16	16	715	Btuh
48	2 NFRC	0.50,	0.30	No	No	E	2.5ft.	2.0ft.	45.8	0.4	45.4	16	53	2424	Btuh
49	2 NFRC	0.50,	0.30	No	No	NW	2.5ft.	2.0ft.	23.1	0.0	23.1	16	39	893	Btuh
50	2 NFRC	0.50,	0.30	No	No	N	2.5ft.	2.0ft.	23.1	0.0	23.1	16	16	360	Btuh
51	2 NFRC	0.50,	0.30	No	No	NE	2.5ft.	2.0ft.	23.1	0.0	23.1	16	39	893	Btuh
52	2 NFRC	0.50,	0.30	No	No	E	2.5ft.	2.0ft.	23.1	0.3	22.8	16	53	1220	Btuh
53	2 NFRC	0.50,	0.30	No	No	SE	2.5ft.	2.0ft.	23.1	7.2	15.8	16	41	761	Btuh
54	2 NFRC	0.50,	0.30	No	No	E	2.5ft.	2.0ft.	114.3	1.1	113.2	16	53	6052	Btuh
	Window Total								2000 (sqft)					75003	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mr & Mrs Minesh Patel
Lake City, FL 32025-

Project Title: Minesh Patel Residence
Climate:FL_GAINESVILLE_REGIONAL_A

10/29/2012

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Concrete Blk,Filled - Ext	0.11	5.0/0.0	374.2	1.5	544 Btuh
2	Concrete Blk,Filled - Ext	0.11	5.0/0.0	750.0	1.5	1091 Btuh
3	Concrete Blk,Filled - Ext	0.11	5.0/0.0	618.2	1.5	899 Btuh
4	Concrete Blk,Filled - Ext	0.11	5.0/0.0	830.6	1.5	1208 Btuh
5	Concrete Blk,Filled - Ext	0.11	5.0/0.0	571.9	1.5	832 Btuh
6	Concrete Blk,Filled - Ext	0.11	5.0/0.0	519.4	1.5	755 Btuh
7	Concrete Blk,Filled - Ext	0.11	5.0/0.0	489.8	1.5	712 Btuh
8	Concrete Blk,Filled - Ext	0.11	5.0/0.0	614.8	1.5	894 Btuh
9	Concrete Blk,Filled - Ext	0.11	5.0/0.0	374.9	1.5	545 Btuh
10	Concrete Blk,Filled - Ext	0.11	5.0/0.0	354.4	1.5	515 Btuh
11	Concrete Blk,Filled - Ext	0.11	5.0/0.0	648.1	1.5	942 Btuh
12	Concrete Blk,Filled - Ext	0.11	5.0/0.0	221.5	1.5	322 Btuh
13	Concrete Blk,Filled - Ext	0.11	5.0/0.0	508.9	1.5	740 Btuh
14	Concrete Blk,Filled - Ext	0.11	5.0/0.0	91.3	1.5	133 Btuh
15	Concrete Blk,Filled - Ext	0.11	5.0/0.0	871.5	1.5	1267 Btuh
16	Concrete Blk,Filled - Ext	0.11	5.0/0.0	390.9	1.5	568 Btuh
17	Frame - Wood - Adj	0.08	19.0/0.0	72.0	1.3	95 Btuh
	Wall Total			8302 (sqft)		12062 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	21.3	12.9	275 Btuh
2	Insulated - Exterior	24.0	9.2	222 Btuh
	Door Total	45 (sqft)		497 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/Light/Metal	0.032	30.0/0.0	1098.0	1.34	1469 Btuh
2	Vented Attic/Light/Metal	0.032	30.0/0.0	3633.0	1.34	4859 Btuh
	Ceiling Total			4731 (sqft)		6328 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	5.0	5547 (ft-perimeter)	0.0	0 Btuh
2	Interior	19.0	3303 (sqft)	0.0	0 Btuh
	Floor Total		8850.0 (sqft)		0 Btuh

				Envelope Subtotal:		93889 Btuh
Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural	0.57	106200	1	1006.8	18737 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		8	X 230	+	2400	4240 Btuh
				Sensible Envelope Load:		116866 Btuh
Duct load				(DGMs vary for Mixed ducts)		22623 Btuh
				Sensible Load All Zones		**139489 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mr & Mrs Minesh Patel
Lake City, FL 32025-

Project Title: Minesh Patel Residence
Climate:FL_GAINESVILLE_REGIONAL_A

10/29/2012

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**116866 Btuh**
	Sensible Duct Load	22623 Btuh
	Total Sensible Zone Loads	**139489 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**139489 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	36792 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	6526 Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**44918 Btuh**
	TOTAL GAIN	**184407 Btuh**

EQUIPMENT

1. Central Unit	#	125000 Btuh
2. Central Unit	#	85000 Btuh

*Key: Window types (Panes - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed
For Draperies: Assume medium weave, half closed
For Roller shades: Assume translucent, half closed
(IS - Insect screen: none(N), Full(F) or Half(½))
(Ornt - compass orientation)

Version 8

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Mr & Mrs Minesh Patel

Lake City, FL 32025-

Project Title:
Minesh Patel Residence
Building Type: User

10/29/2012

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 F (MJ8 99%)

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mr & Mrs Minesh Patel

Lake City, FL 32025-

Project Title:
Minesh Patel Residence
Building Type: User

10/29/2012

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.50	Metal	0.30	E	114.3	11.1	1269 Btuh
2	2, NFRC 0.50	Metal	0.30	E	34.7	11.1	386 Btuh
3	2, NFRC 0.50	Metal	0.30	E	23.3	11.1	259 Btuh
4	2, NFRC 0.50	Metal	0.30	E	34.3	11.1	381 Btuh
5	2, NFRC 0.50	Metal	0.30	E	45.8	11.1	508 Btuh
6	2, NFRC 0.50	Metal	0.30	SE	23.1	11.1	256 Btuh
7	2, NFRC 0.50	Metal	0.30	SE	77.1	11.1	855 Btuh
8	2, NFRC 0.50	Metal	0.30	SE	18.6	11.1	206 Btuh
9	2, NFRC 0.50	Metal	0.30	SE	68.6	11.1	762 Btuh
10	2, NFRC 0.50	Metal	0.30	SE	20.8	11.1	231 Btuh
11	2, NFRC 0.50	Metal	0.30	S	34.3	11.1	381 Btuh
12	2, NFRC 0.50	Metal	0.30	S	23.1	11.1	256 Btuh
13	2, NFRC 0.50	Metal	0.30	S	24.0	11.1	266 Btuh
14	2, NFRC 0.50	Metal	0.30	SW	69.2	11.1	768 Btuh
15	2, NFRC 0.50	Metal	0.30	SW	37.1	11.1	412 Btuh
16	2, NFRC 0.50	Metal	0.30	SW	34.3	11.1	381 Btuh
17	2, NFRC 0.50	Metal	0.30	W	33.2	11.1	368 Btuh
18	2, NFRC 0.50	Metal	0.30	W	34.3	11.1	381 Btuh
19	2, NFRC 0.50	Metal	0.30	W	34.3	11.1	381 Btuh
20	2, NFRC 0.50	Metal	0.30	NW	18.6	11.1	206 Btuh
21	2, NFRC 0.50	Metal	0.30	NW	68.6	11.1	762 Btuh
22	2, NFRC 0.50	Metal	0.30	NW	23.1	11.1	256 Btuh
23	2, NFRC 0.50	Metal	0.30	NE	34.3	11.1	381 Btuh
24	2, NFRC 0.50	Metal	0.30	NE	68.6	11.1	762 Btuh
25	2, NFRC 0.50	Metal	0.30	NE	45.8	11.1	508 Btuh
26	2, NFRC 0.50	Metal	0.30	NE	23.1	11.1	256 Btuh
27	2, NFRC 0.50	Metal	0.30	W	24.0	11.1	266 Btuh
28	2, NFRC 0.50	Metal	0.30	NE	35.5	11.1	394 Btuh
29	2, NFRC 0.50	Metal	0.30	NE	72.0	11.1	799 Btuh
30	2, NFRC 0.50	Metal	0.30	SW	37.1	11.1	412 Btuh
31	2, NFRC 0.50	Metal	0.30	W	33.2	11.1	368 Btuh
32	2, NFRC 0.50	Metal	0.30	NW	18.6	11.1	206 Btuh
33	2, NFRC 0.50	Metal	0.30	W	21.3	11.1	237 Btuh
34	2, NFRC 0.50	Metal	0.30	S	34.3	11.1	381 Btuh
35	2, NFRC 0.50	Metal	0.30	SW	34.3	11.1	381 Btuh
36	2, NFRC 0.50	Metal	0.30	W	34.3	11.1	381 Btuh
37	2, NFRC 0.50	Metal	0.30	S	21.3	11.1	237 Btuh
38	2, NFRC 0.50	Metal	0.30	SE	18.6	11.1	206 Btuh
39	2, NFRC 0.50	Metal	0.30	S	33.2	11.1	368 Btuh
40	2, NFRC 0.50	Metal	0.30	S	23.1	11.1	256 Btuh
41	2, NFRC 0.50	Metal	0.30	W	34.3	11.1	381 Btuh
42	2, NFRC 0.50	Metal	0.30	SW	23.1	11.1	256 Btuh
43	2, NFRC 0.50	Metal	0.30	NW	23.1	11.1	256 Btuh
44	2, NFRC 0.50	Metal	0.30	N	23.1	11.1	256 Btuh
45	2, NFRC 0.50	Metal	0.30	N	34.3	11.1	381 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mr & Mrs Minesh Patel

Lake City, FL 32025-

Project Title:
Minesh Patel Residence
Building Type: User

10/29/2012

Window	Panes/SHGC/Frame/U			Orientation	Area X	HTM=	Load
46	2, NFRC 0.50	Metal	0.30	N	34.3	11.1	381 Btuh
47	2, NFRC 0.50	Metal	0.30	N	45.8	11.1	508 Btuh
48	2, NFRC 0.50	Metal	0.30	E	45.8	11.1	508 Btuh
49	2, NFRC 0.50	Metal	0.30	NW	23.1	11.1	256 Btuh
50	2, NFRC 0.50	Metal	0.30	N	23.1	11.1	256 Btuh
51	2, NFRC 0.50	Metal	0.30	NE	23.1	11.1	256 Btuh
52	2, NFRC 0.50	Metal	0.30	E	23.1	11.1	256 Btuh
53	2, NFRC 0.50	Metal	0.30	SE	23.1	11.1	256 Btuh
54	2, NFRC 0.50	Metal	0.30	E	114.3	11.1	1269 Btuh
	Window Total				2000.4(sqft)		22204 Btuh

Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	374	4.14	1549 Btuh
2	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	750	4.14	3104 Btuh
3	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	618	4.14	2558 Btuh
4	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	831	4.14	3437 Btuh
5	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	572	4.14	2367 Btuh
6	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	519	4.14	2149 Btuh
7	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	490	4.14	2027 Btuh
8	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	615	4.14	2544 Btuh
9	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	375	4.14	1551 Btuh
10	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	354	4.14	1467 Btuh
11	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	648	4.14	2682 Btuh
12	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	222	4.14	917 Btuh
13	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	509	4.14	2106 Btuh
14	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	91	4.14	378 Btuh
15	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	872	4.14	3607 Btuh
16	Conc Blk,Filled	- Ext	(0.112)	5.0/0.0	391	4.14	1618 Btuh
17	Frame - Wood	- Adj	(0.077)	19.0/0.0	72	2.86	206 Btuh
	Wall Total				8302(sqft)		34266 Btuh

Doors	Type	Storm	Ueff.	Area X	HTM=	Load
1	Insulated - Exterior, n		(0.460)	21	17.0	363 Btuh
2	Insulated - Exterior, m		(0.460)	24	17.0	408 Btuh
	Door Total			45(sqft)		772Btuh

Ceilings	Type/Color/Surface	Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Metal	(0.032)	30.0/0.0	1098	1.2	1294 Btuh
2	Vented Attic/L/Metal	(0.032)	30.0/0.0	3633	1.2	4281 Btuh
	Ceiling Total			4731(sqft)		5575Btuh

Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(0.442)	5.0	501.0 ft(perim.)	16.4	8193 Btuh
2	Interior	(0.442)	19.0	3303.0 sqft	0.0	0 Btuh
	Floor Total			8850 sqft		8193 Btuh

	Envelope Subtotal:	71010 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mr & Mrs Minesh Patel

Lake City, FL 32025-

Project Title:
Minesh Patel Residence
Building Type: User

10/29/2012

Infiltration	Type Natural	Wholehouse	ACH 0.76	Volume(cuft) 106200	Wall Ratio 1.00	CFM= 1342.3	54373 Btuh
Duct load					(DLM of Mixed ducts)		24203 Btuh
All Zones				**Sensible Subtotal All Zones**			**149586 Btuh**

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	149586 Btuh 0 Btuh 149586 Btuh

EQUIPMENT

1. Electric Heat Pump 2. Electric Heat Pump	# #	125000 Btuh 85000 Btuh

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
U - (Window U-Factor)
HTM - (ManualJ Heat Transfer Multiplier)

Version 8

FORM 405-10

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Minesh Patel Residence	Builder Name:	N/A
Street:		Permit Office:	Columbia County
City, State, Zip:	Lake City , FL , 32025-	Permit Number:	
Owner:	Mr & Mrs Minesh Patel	Jurisdiction:	
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	4			
5. Is this a worst case?	No			
6. Conditioned floor area above grade (ft²)	8850			
Conditioned floor area below grade (ft²)	0			
7. Windows(2000.4 sqft.)	Description		Area	
a. U-Factor:	Dbl, U=0.30		2000.40	ft²
SHGC:	SHGC=0.50			
b. U-Factor:	N/A			ft²
SHGC:				
c. U-Factor:	N/A			ft²
SHGC:				
d. U-Factor:	N/A			ft²
SHGC:				
Area Weighted Average Overhang Depth:			3.383	ft.
Area Weighted Average SHGC:			0.500	
8. Floor Types (8850.0 sqft.)		Insulation	Area	
a. Slab-On-Grade Edge Insulation		R=5.0	5547.00	ft²
b. Floor Over Other Space		R=19.0	3303.00	ft²
c. N/A		R=		ft²

9. Wall Types (10348.0 sqft.)	Insulation	Area	
a. Concrete Block - Int Insul, Exterior	R=5.0	10276.00	ft²
b. Frame - Wood, Adjacent	R=19.0	72.00	ft²
c. N/A	R=		ft²
d. N/A	R=		ft²
10. Ceiling Types (4731.0 sqft.)	Insulation	Area	
a. Under Attic (Vented)	R=30.0	4731.00	ft²
b. N/A	R=		ft²
c. N/A	R=		ft²
11. Ducts		R	ft²
a. Sup: Attic, Ret: Attic, AH: RoomsInBlock1		6	1386.7
b. Sup: Attic, Ret: RoomsInBlock2, AH: RoomsInBl		6	825.75
12. Cooling systems	kBtu/hr	Efficiency	
a. Central Unit	125.0	SEER:19.00	
b. Central Unit	85.0	SEER:19.00	
13. Heating systems	kBtu/hr	Efficiency	
a. Electric Heat Pump	125.0	HSPF:7.70	
b. Electric Heat Pump	85.0	HSPF:7.70	
14. Hot water systems			
a. Electric		Cap: 80 gallons	
		EF: 0.920	
b. Conservation features			
None			
15. Credits		Pstat	

Glass/Floor Area: 0.226

Total Proposed Modified Loads: 122.82

Total Standard Reference Loads: 153.88

PASS

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

PREPARED BY: _____

DATE: 10/29/12

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 completion of a Florida Air Barrier and Insulation Inspection Checklist

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

COLUMBIA COUNTY BUILDING DEPARTMENT REVIEWED for FILE COPY Code Compliance PLANS EXAMINER

PROJECT

Title:	Minesh Patel Residence	Bedrooms:	4	Address Type:	Lot Information
Building Type:	FLProp2010	Conditioned Area:	8850	Lot #	1
Owner:	Mr & Mrs Minesh Patel	Total Stories:	2	Block/SubDivision:	Hills Of Windso
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	N/A	Rotate Angle:	0	Street:	
Permit Office:	Columbia County	Cross Ventilation:	No	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL , 32025-
Family Type:	Single-family				
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	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	5547	66564
2	Block2	3303	39636

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	RoomsInBlock1	5547	66564	Yes	2.50711864	2	1	Yes	Yes	Yes
2	RoomsInBlock2	3303	39636	No	1.49288135	2	2	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	Perimeter	R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	RoomsInBlock1	501 ft	5		5547 ft²	---	0	0	1
_____	2	Floor Over Other Space	RoomsInBlock2	---	---		3303 ft²	19	0	0	1

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Metal	8628 ft²	0 ft²	Light	0.96	No	0.9	No	0	45

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	303	6101 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
	1	Under Attic (Vented)	RoomsInBlock1	30	1098 ft²	0.11	Wood
	2	Under Attic (Vented)	RoomsInBlock2	30	3633 ft²	0.11	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
	1	E	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	54		12		648 ft²		0	0.75	0
	2	N	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	62	6	12		750 ft²		0	0.75	0
	3	W	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	62		12		744 ft²		0	0.75	0
	4	S	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	78		12		936 ft²		0	0.75	0
	5	SE	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	65		12		780 ft²	0	0	0.75	0
	6	SW	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	55		12		660 ft²	0	0	0.75	0
	7	NW	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	50		12		600 ft²	0	0	0.75	0
	8	NE	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	74	6	12		894 ft²	0	0	0.75	0
	9	E	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	46	6	12		558 ft²		0	0.75	0
	10	SE	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	33		12		396 ft²	0	0	0.75	0
	11	S	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	63	4	12		760 ft²		0	0.75	0
	12	SW	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	26	4	12		316 ft²		0	0.75	0
	13	W	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	52	8	12		632 ft²		0	0.75	0
	14	NW	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	13		12		156 ft²		0	0.75	0
	15	N	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	86		12		1032 ft²		0	0.75	0
	16	NE	Exterior	Concrete Block - Int Insu	RoomsInBloc	5	34	6	12		414 ft²		0	0.75	0
	17	SE	Garage	Frame - Wood	RoomsInBloc	19	6		12		72 ft²		0.23	0.01	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
	1	E=>S	Insulated	RoomsInBloc	None	0.460000	2	8	8	0	21.33333
	2	S=>W	Insulated	RoomsInBloc	Metal	0.460000	2	8	8	0	24 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
	1	E=>S	1	Metal	Low-E Double	Yes	0.3	0.5	N	114.3125	2 ft 6 in	12 ft 0 in	HERS 2006	None
	2	E=>S	1	Metal	Low-E Double	Yes	0.3	0.5	N	34.73611	2 ft 6 in	12 ft 0 in	HERS 2006	None
	3	E=>S	1	Metal	Low-E Double	Yes	0.3	0.5	N	23.34722	2 ft 6 in	12 ft 0 in	HERS 2006	None
	4	E=>S	1	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
	5	E=>S	1	Metal	Low-E Double	Yes	0.3	0.5	N	45.75 ft²	2 ft 6 in	2 ft 0 in	HERS 2006	None
	6	SE=>SW	5	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	12 ft 0 in	HERS 2006	None
	7	SE=>SW	5	Metal	Low-E Double	Yes	0.3	0.5	N	77.0625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
	8	SE=>SW	5	Metal	Low-E Double	Yes	0.3	0.5	N	18.5625 ft	5 ft 0 in	2 ft 0 in	HERS 2006	None
	9	SE=>SW	5	Metal	Low-E Double	Yes	0.3	0.5	N	68.625 ft²	2 ft 6 in	12 ft 0 in	HERS 2006	None

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	10	SE=>SW	5	Metal	Low-E Double	Yes	0.3	0.5	N	20.8125 ft	10 ft 0 in	2 ft 0 in	HERS 2006	None
_____	11	S=>W	4	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	8 ft 0 in	2 ft 0 in	HERS 2006	None
_____	12	S=>W	4	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	12 ft 0 in	HERS 2006	None
_____	13	S=>W	4	Metal	Low-E Double	Yes	0.3	0.5	N	24 ft²	2 ft 6 in	12 ft 0 in	HERS 2006	None
_____	14	SW=>NW	6	Metal	Low-E Double	Yes	0.3	0.5	N	69.1875 ft	2 ft 6 in	12 ft 0 in	HERS 2006	None
_____	15	SW=>NW	6	Metal	Low-E Double	Yes	0.3	0.5	N	37.125 ft²	2 ft 6 in	12 ft 0 in	HERS 2006	None
_____	16	SW=>NW	6	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	8 ft 0 in	2 ft 0 in	HERS 2006	None
_____	17	W=>N	3	Metal	Low-E Double	Yes	0.3	0.5	N	33.1875 ft	2 ft 6 in	12 ft 0 in	HERS 2006	None
_____	18	W=>N	3	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	8 ft 0 in	2 ft 0 in	HERS 2006	None
_____	19	W=>N	3	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	2 ft 6 in	12 ft 0 in	HERS 2006	None
_____	20	NW=>NE	7	Metal	Low-E Double	Yes	0.3	0.5	N	18.5625 ft	4 ft 0 in	2 ft 0 in	HERS 2006	None
_____	21	NW=>NE	7	Metal	Low-E Double	Yes	0.3	0.5	N	68.625 ft²	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	22	NW=>NE	7	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	12 ft 0 in	HERS 2006	None
_____	23	NE=>SE	8	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	10 ft 0 in	2 ft 0 in	HERS 2006	None
_____	24	NE=>SE	8	Metal	Low-E Double	Yes	0.3	0.5	N	68.625 ft²	2 ft 6 in	12 ft 0 in	HERS 2006	None
_____	25	NE=>SE	8	Metal	Low-E Double	Yes	0.3	0.5	N	45.75 ft²	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	26	NE=>SE	8	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	12 ft 0 in	HERS 2006	None
_____	27	W=>N	3	Metal	Low-E Double	Yes	0.3	0.5	N	24 ft²	12 ft 0 in	2 ft 0 in	HERS 2006	None
_____	28	NE=>SE	8	Metal	Low-E Double	Yes	0.3	0.5	N	35.45833	5 ft 0 in	5 ft 0 in	HERS 2006	None
_____	29	NE=>SE	8	Metal	Low-E Double	Yes	0.3	0.5	N	72 ft²	8 ft 0 in	5 ft 0 in	HERS 2006	None
_____	30	SW=>NW	12	Metal	Low-E Double	Yes	0.3	0.5	N	37.125 ft²	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	31	W=>N	13	Metal	Low-E Double	Yes	0.3	0.5	N	33.1875 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	32	NW=>NE	14	Metal	Low-E Double	Yes	0.3	0.5	N	18.5625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	33	W=>N	13	Metal	Low-E Double	Yes	0.3	0.5	N	21.33333	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	34	S=>W	11	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	35	SW=>NW	12	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	36	W=>N	13	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	37	S=>W	11	Metal	Low-E Double	Yes	0.3	0.5	N	21.33333	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	38	SE=>SW	10	Metal	Low-E Double	Yes	0.3	0.5	N	18.5625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	39	S=>W	11	Metal	Low-E Double	Yes	0.3	0.5	N	33.1875 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	40	S=>W	11	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	41	W=>N	13	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	42	SW=>NW	12	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	43	NW=>NE	14	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	44	N=>E	15	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	45	N=>E	15	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	46	N=>E	15	Metal	Low-E Double	Yes	0.3	0.5	N	34.3125 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	47	N=>E	15	Metal	Low-E Double	Yes	0.3	0.5	N	45.75 ft²	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	48	E=>S	9	Metal	Low-E Double	Yes	0.3	0.5	N	45.75 ft²	2 ft 6 in	2 ft 0 in	HERS 2006	None
_____	49	NW=>NE	14	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Overhang Area	Depth	Separation	Int Shade	Screening
	50	N=>E	15	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
	51	NE=>SE	16	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
	52	E=>S	9	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
	53	SE=>SW	10	Metal	Low-E Double	Yes	0.3	0.5	N	23.0625 ft	2 ft 6 in	2 ft 0 in	HERS 2006	None
	54	E=>S	9	Metal	Low-E Double	Yes	0.3	0.5	N	114.3125	2 ft 6 in	2 ft 0 in	HERS 2006	None

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
	1	1279.992 ft²	1279.992 ft²	148.6667 ft	12 ft	5

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	BySpaces	Proposed SLA	0.000360	5237.9	287.55	540.79	0.3412	4.7214
2	BySpaces	Proposed SLA	0.000360	3118.9	171.22	322.01	0.3412	4.7214

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
	1	Electric Heat Pump	None	HSPF: 7.7	125 kBtu/hr	1	sys#1
	2	Electric Heat Pump	None	HSPF: 7.7	85 kBtu/hr	2	sys#2

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
	1	Central Unit	None	SEER: 19	125 kBtu/hr	3750 cfm	0.75	1	sys#1
	2	Central Unit	None	SEER: 19	85 kBtu/hr	2550 cfm	0.75	2	sys#2

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
	1	Electric	None	Garage	0.92	80 gal	70 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	Supply R-Value	Supply Area	Return Location	Return Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF	HVAC # Heat	HVAC # Cool
_____	1	Attic	6	1386.7	Attic	277.35	DSE=0.88	RoomsInBl	0.0 cfm	0.00 %	0.00	0.60	1	1
_____	2	Attic	6	825.75	RoomsInBloc	165.15	DSE=0.88	RoomsInBl	0.0 cfm	0.00 %	0.00	0.60	2	2

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

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

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 405-10

Florida Code Compliance Checklist

Florida Department of Business and Professional Regulations
Residential Whole Building Performance Method

ADDRESS:	PERMIT #:
Lake City, FL, 32025-	

MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	
Ducts	403.2.2 403.3.3	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code. Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	
Ceilings/knee walls	405.2.1	R-19 space permitting.	

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 30-3S-16-02411-101 **Building permit No.** 000030767

Use Classification SFD/UTILITY **Fire:** 137.52

Permit Holder ISAAC NICKELSON **Waste:** 144.81

Owner of Building MINESH PATEL **Total:** 282.33

Location: 182 SW WINDSOR HILL GLEN, LAKE CITY, FL 32024

Date: 01/14/2015

Jay Allen

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

01-29-2014

Structural Plan Service Inc.
P.O. Box 940128
Maitland, Fl. 32794
Cell 407-310-7704
Fax 866-621-5802
E-mail : structuralplan@yahoo.com

Patel residence
Lot 1 Hills of Windsor
Columbia County, Fl.

Please note sheets A2.0 and A2.3 of the approved plans were altered to show appropriate emergency egress escape in all sleeping rooms. Also see attached details of the conventional framed roof rafters in lieu of trusses shown on plans. The details document the as built framing and are structurally sound per the design criteria set forth in approved plans. Any further assistance please contact my office any time.

Permit # 30767

1/29/14

Ken Ehlers
P.E. #18243

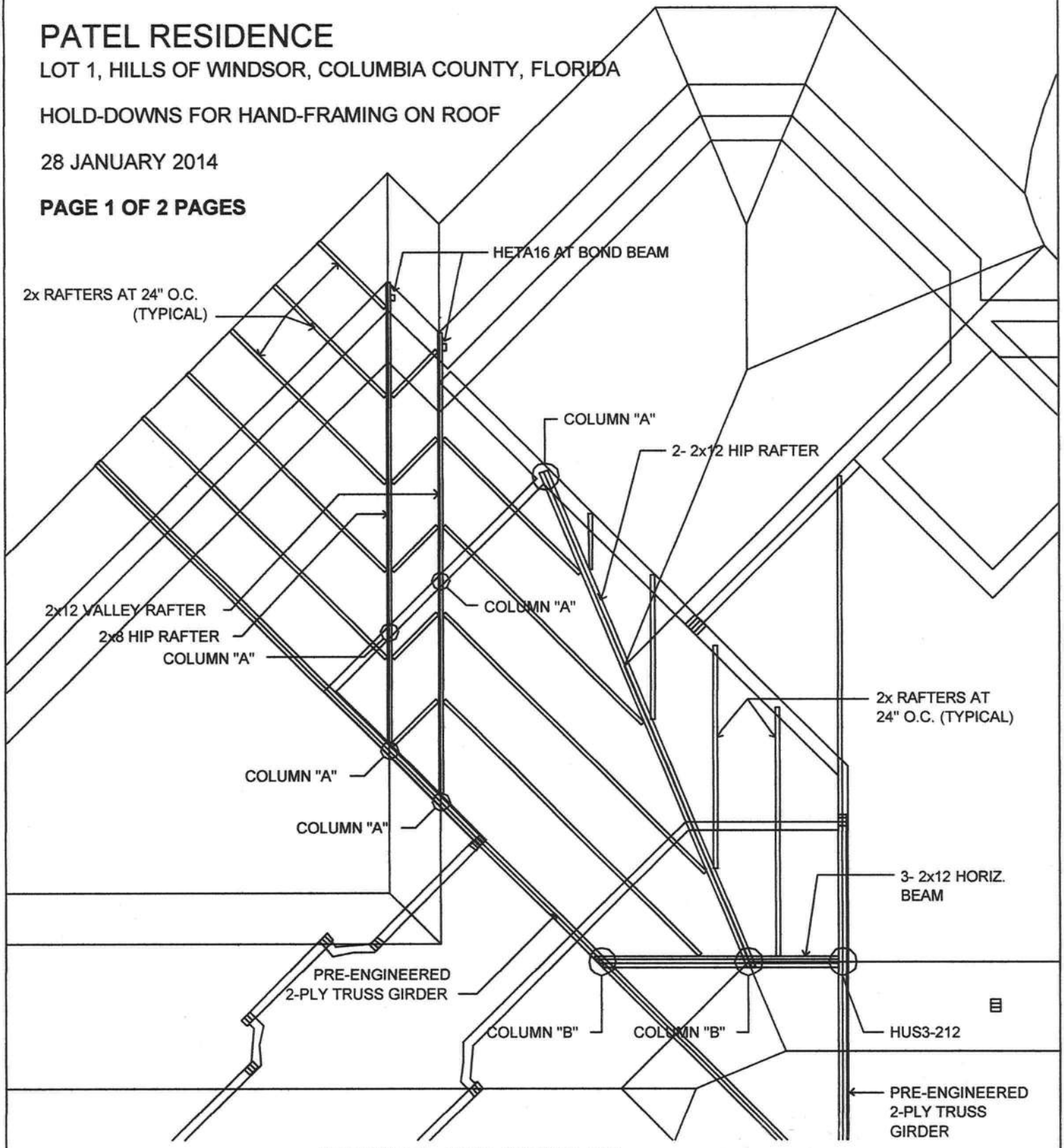
PATEL RESIDENCE

LOT 1, HILLS OF WINDSOR, COLUMBIA COUNTY, FLORIDA

HOLD-DOWNS FOR HAND-FRAMING ON ROOF

28 JANUARY 2014

PAGE 1 OF 2 PAGES



STRUCTURAL PLAN SERVICE INC.
COA #27152
Post Office Box 940128
Maitland, FL 32794
Phone (407) 295-8155
Fax (407) 295-8141
Ken Ehlers P.E.# 18243
LICENSED PROFESSIONAL ENGINEER

SPS

1/29/14

Ken Ehlers P.E.# 18243

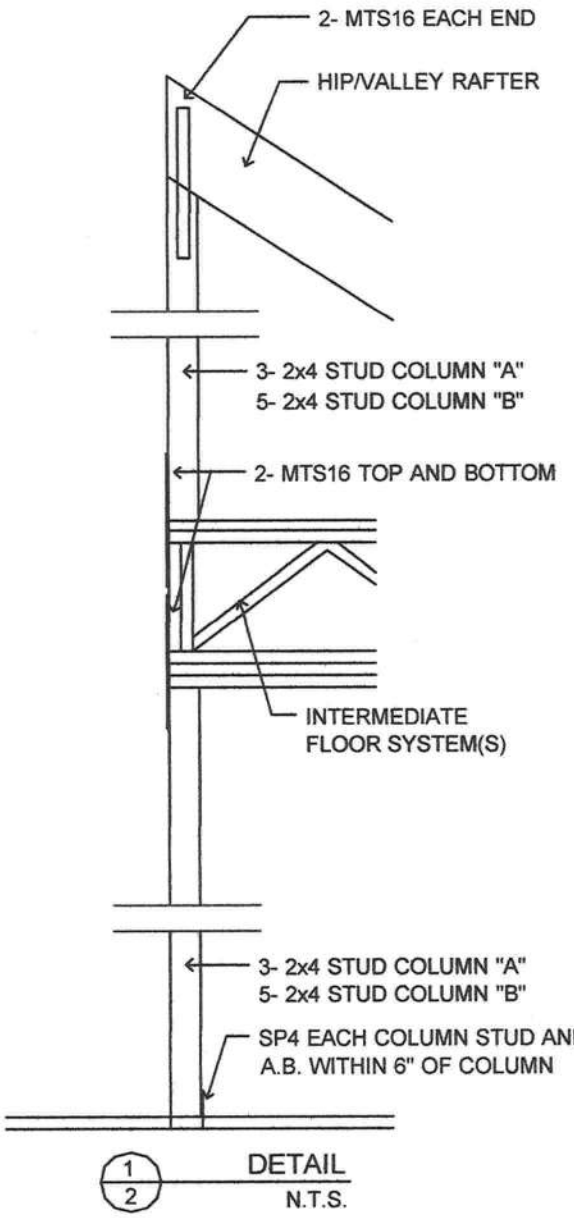
PATEL RESIDENCE

LOT 1, HILLS OF WINDSOR, COLUMBIA COUNTY, FLORIDA

HOLD-DOWNS FOR HAND-FRAMING ON ROOF

28 JANUARY 2014

PAGE 2 OF 2 PAGES



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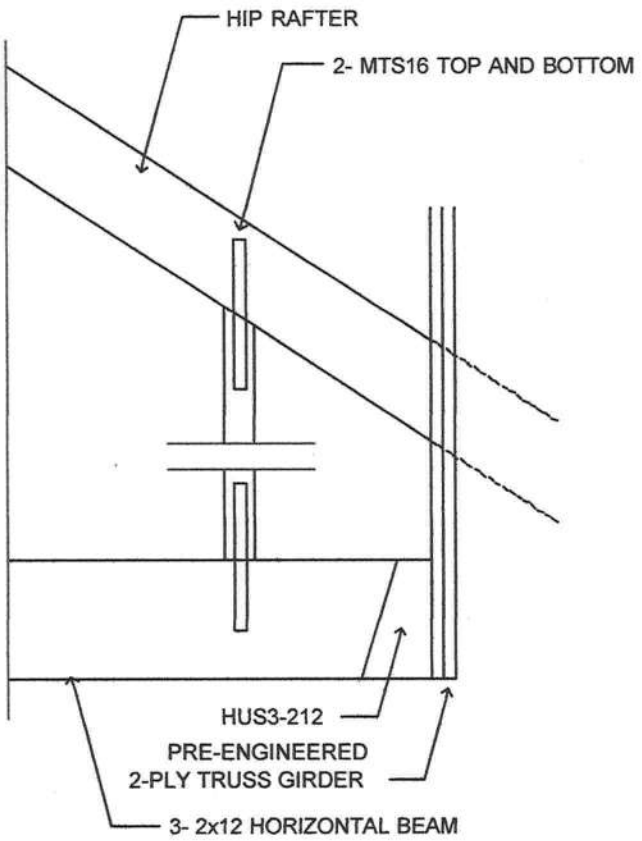

2/2 DETAIL
N.T.S.

NOTE:
BUILDER MAY SUBSTITUTE MSTA16 FLAT STRAP
FOR MST16 TWIST STRAP AT HIS DISCRETION.

SPS

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01-29-2014

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4/29/14

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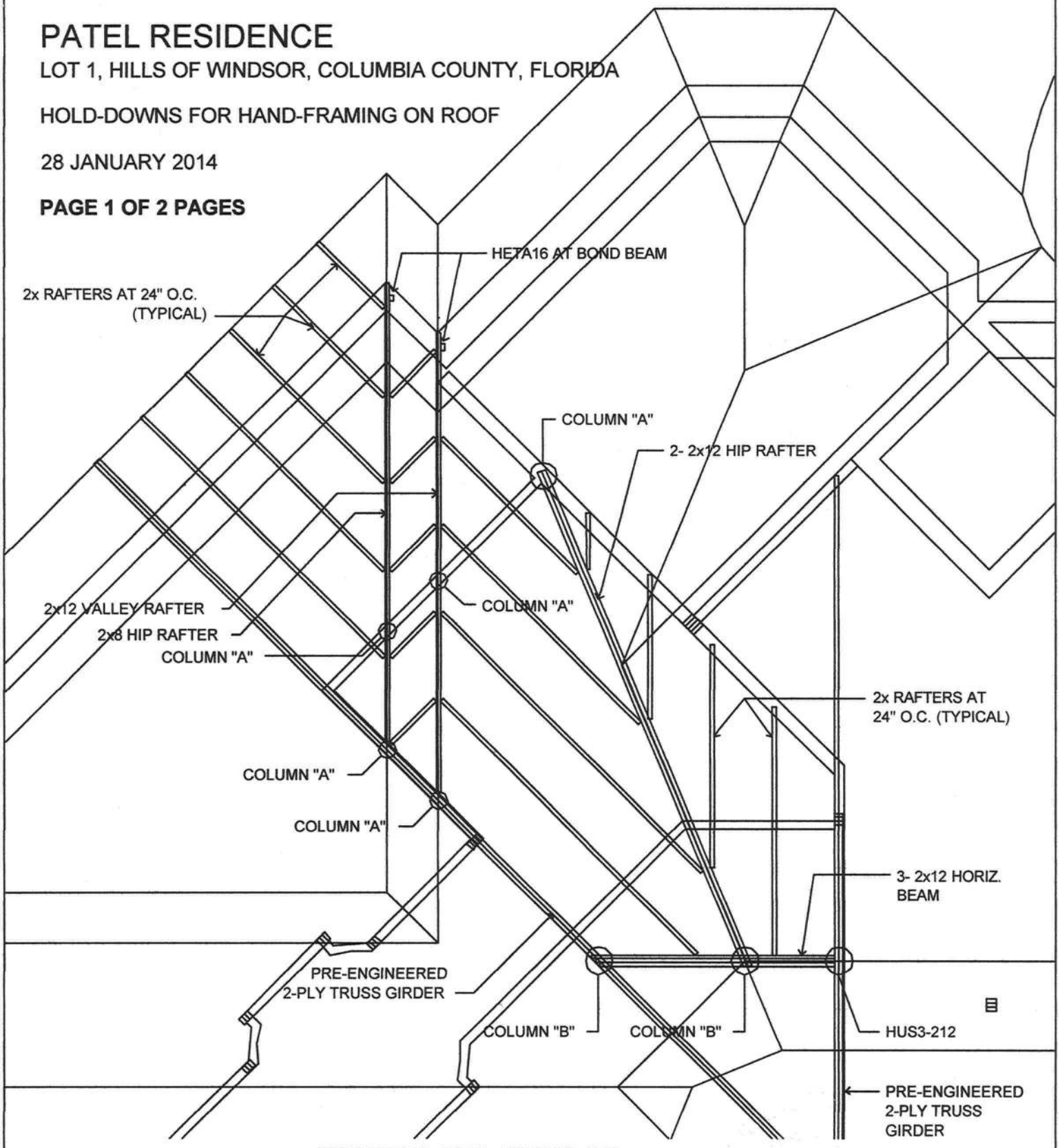
LOT 1, HILLS OF WINDSOR, COLUMBIA COUNTY, FLORIDA

HOLD-DOWNS FOR HAND-FRAMING ON ROOF

28 JANUARY 2014

PAGE 1 OF 2 PAGES



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1/29/14

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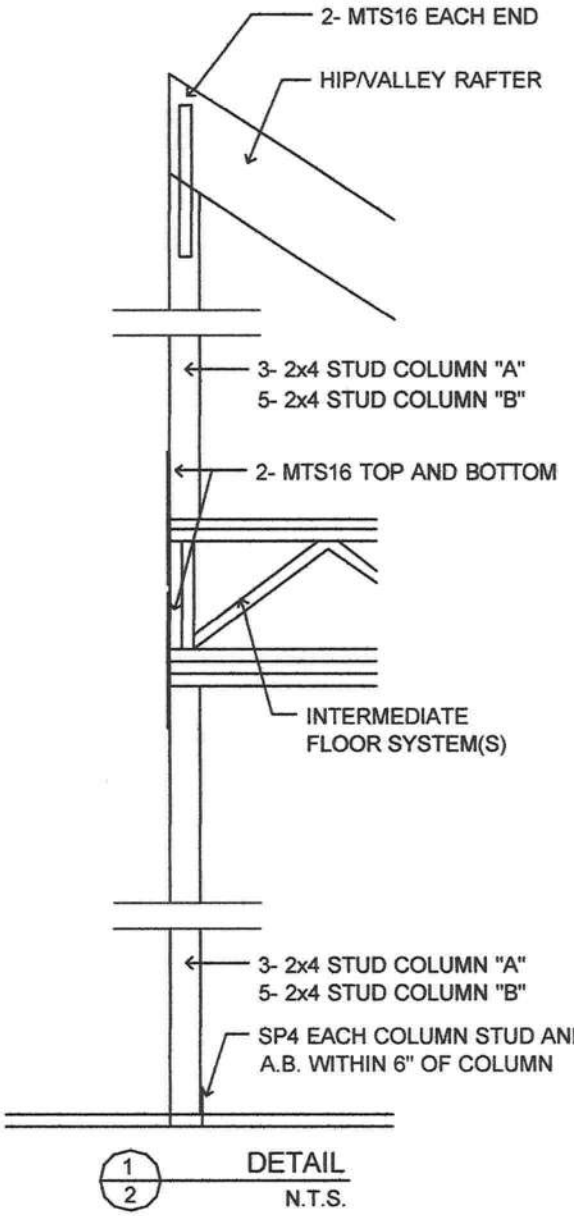
PATEL RESIDENCE

LOT 1, HILLS OF WINDSOR, COLUMBIA COUNTY, FLORIDA

HOLD-DOWNS FOR HAND-FRAMING ON ROOF

28 JANUARY 2014

PAGE 2 OF 2 PAGES



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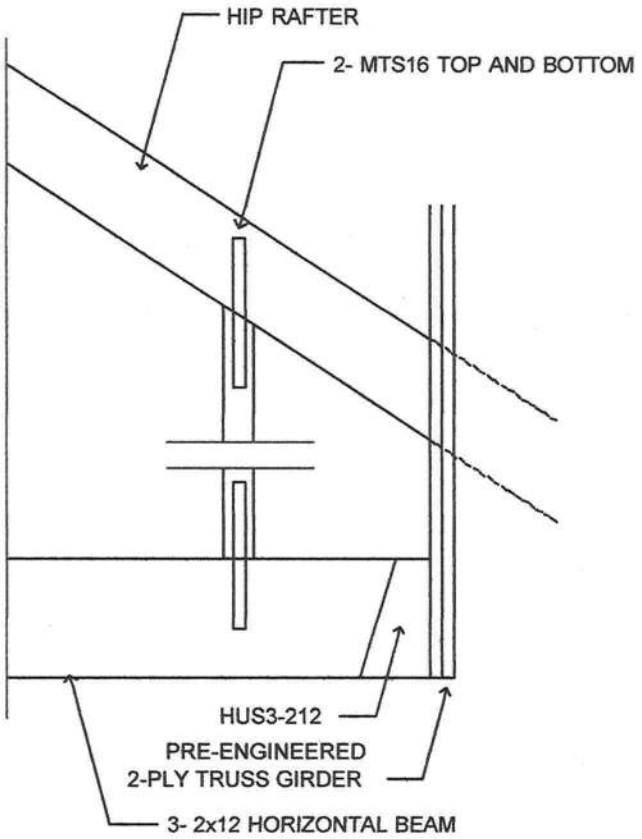

2/2 DETAIL N.T.S.

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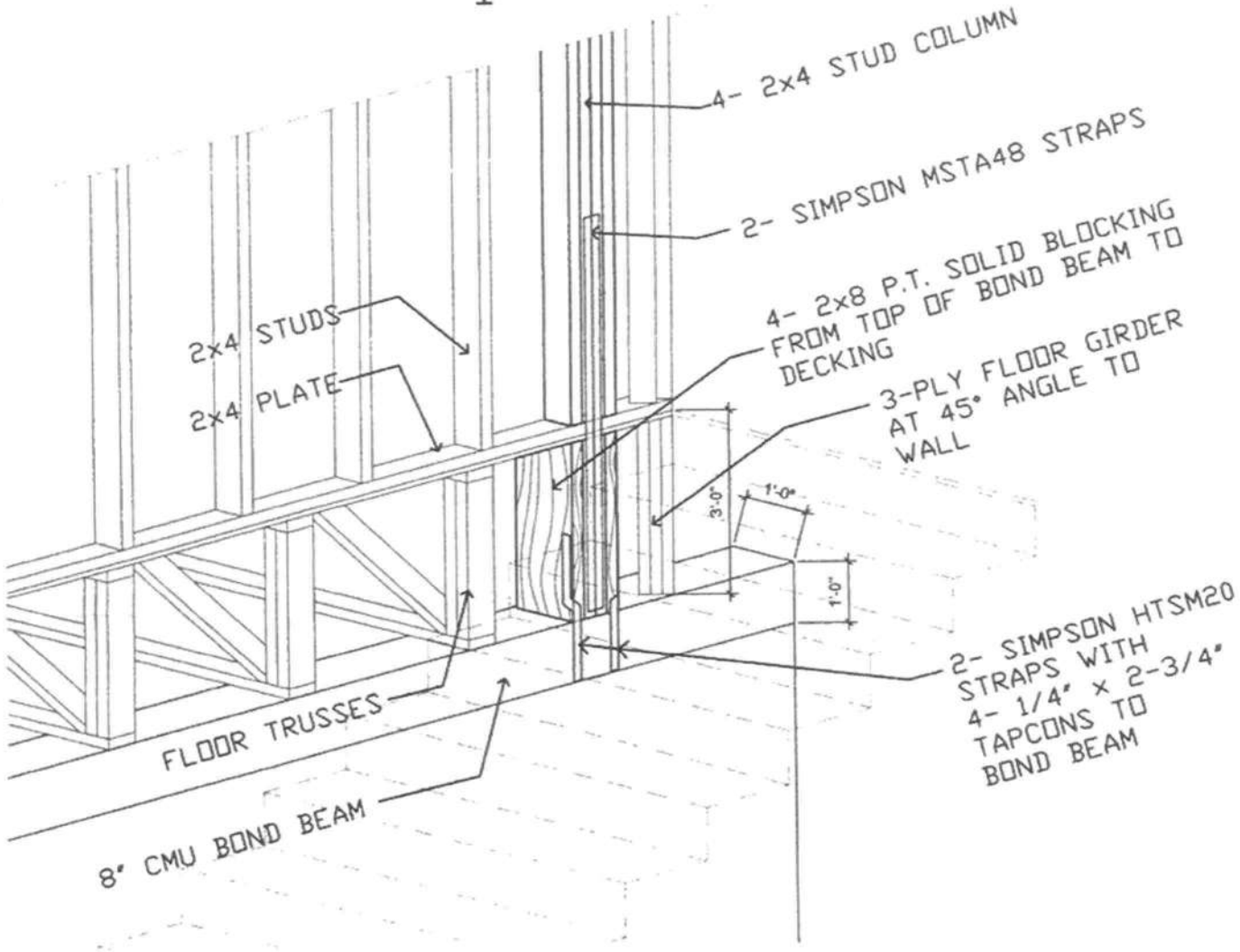


ISOMETRIC SKETCH SHOWING REQUIRED BLOCKING AND ANCHORAGE AT BEARING POINT UNDER 4-PLY ROOF GIRDER TRUSS AT REAR STAIR CASE

PATEL RESIDENCE -
HILLS OF WINDSOR, LOT 1, COLUMBIA COUNTY, FL

STRUCTURAL PLAN SERVICE INC.
COA #27152 Ken Ehlers P.E.# 18243
LICENSED PROFESSIONAL ENGINEER

11/14/13

ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1V2C9114Z0123093614

Truss Fabricator:	**Anderson Truss Company**
Job Identification:	**REPAIR / 120912 -R107 /PATEL (Lot 1 Hills Of Windsor , **)**
Truss Count:	**1**
Model Code:	**Florida Building Code 2010**
Truss Criteria:	**FBC2010Res/TPI-2007(STD)**
Engineering Software:	**Alpine Software,Version 13.02.**
Structural Engineer of Record:	**The identity of the structural EOR did not exist as of**
Address:	**the seal date per section 61G15-31.003(5a) of the FAC**
Minimum Design Loads:	**Roof - 40.0 PSF @ 1.25 Duration**
	Floor - N/A
	Wind - 120 MPH ASCE 7-10 -Closed

12/23/2013

Notes:

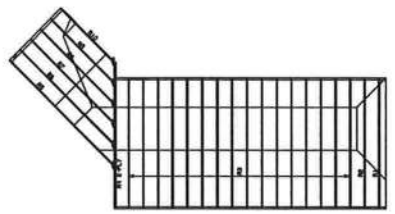
1. **Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1**
2. **The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.**
3. **As shown on attached drawings; the drawing number is preceded by: HCUSR9114**

Walter P. Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

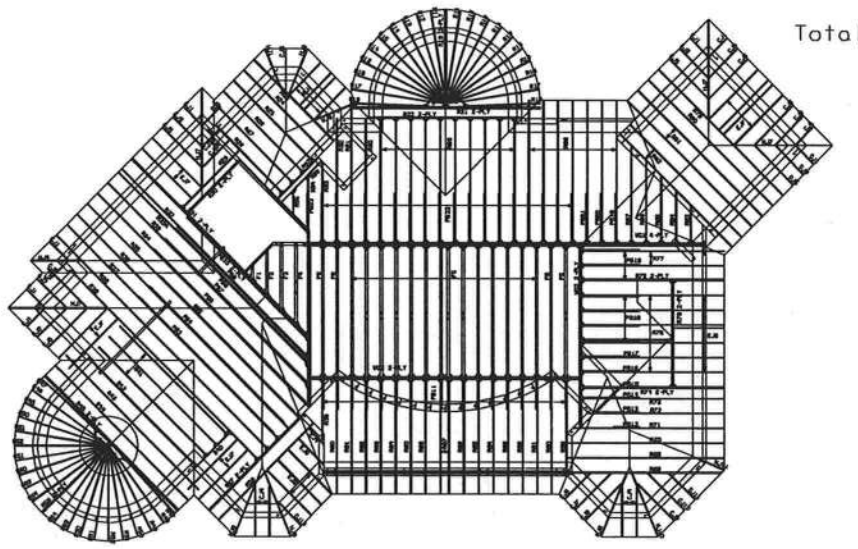
Details: -

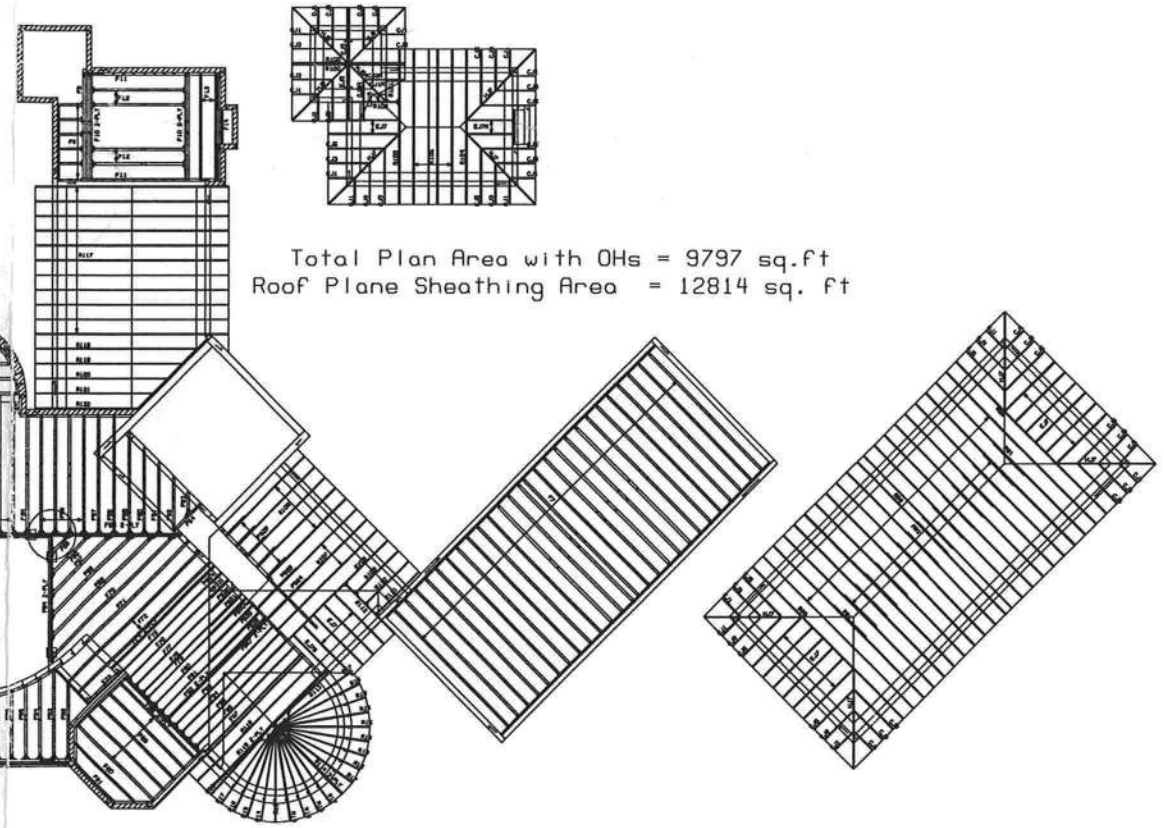
#	Ref	Description	Drawing#	Date
1	39659--SSB / R107		13357001	12/23/13



DR. & Mrs. Minesh Patel Residence

Total Truss Quantity = 778.





Total Plan Area with OHs = 9797 sq.ft
Roof Plane Sheathing Area = 12814 sq. ft

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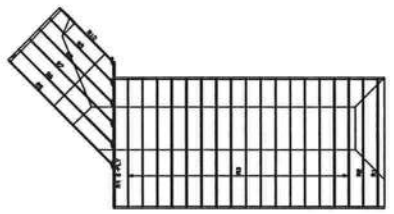
ADDRESS: Lot 1 Hills Of Windsor
CUSTOMER: Premier Building
DESCRIPTION: Patel Residence
JOB #: 120912
DESIGNER: Curt V Burlingame
SALESMAN: Curt V Burlingame

JOB NO:
120912

PAGE NO:
1 OF 1



DR. & Mrs. Minesh Patel Residence

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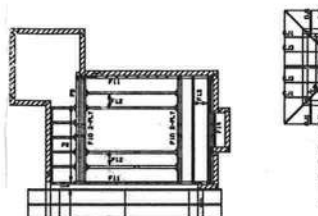

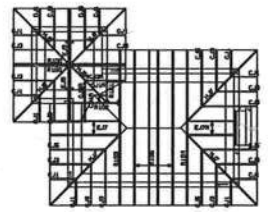

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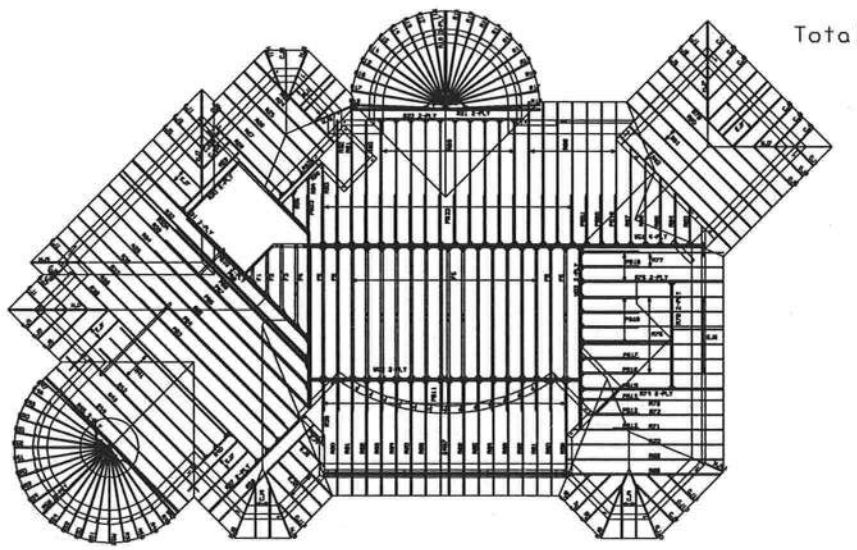

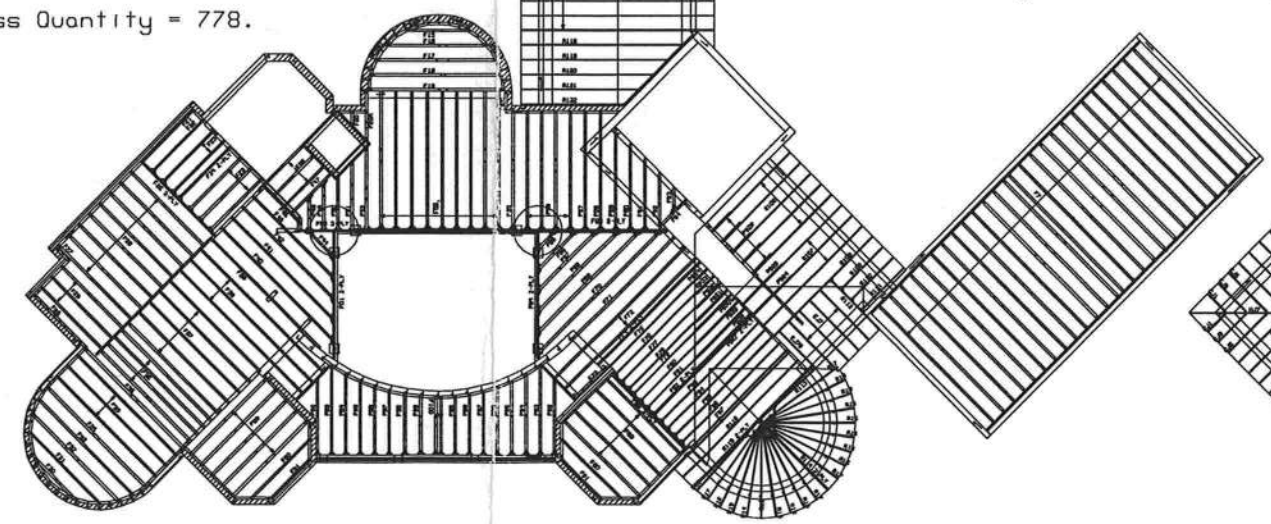

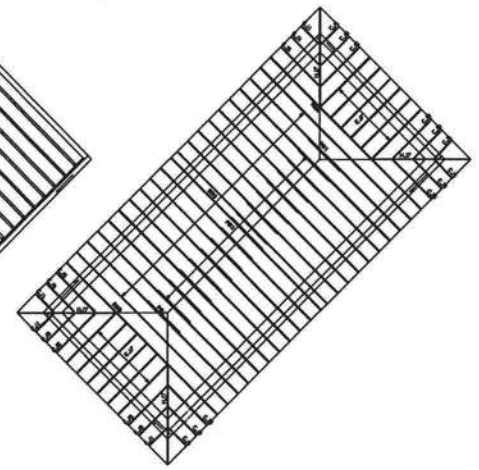

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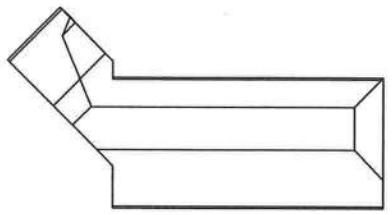
DESIGNER: Curt V Burlingame
SALESMAN: Curt V Burlingame

JOB NO:
120912

PAGE NO:
1 OF 1



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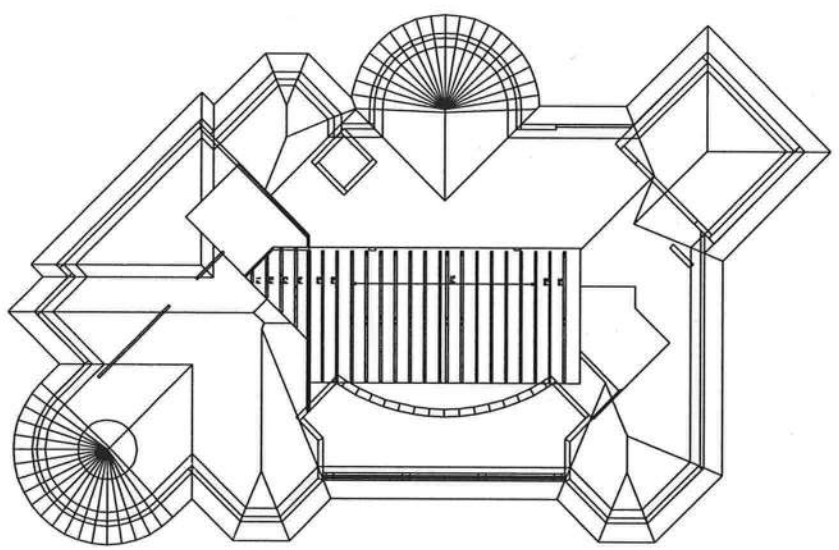

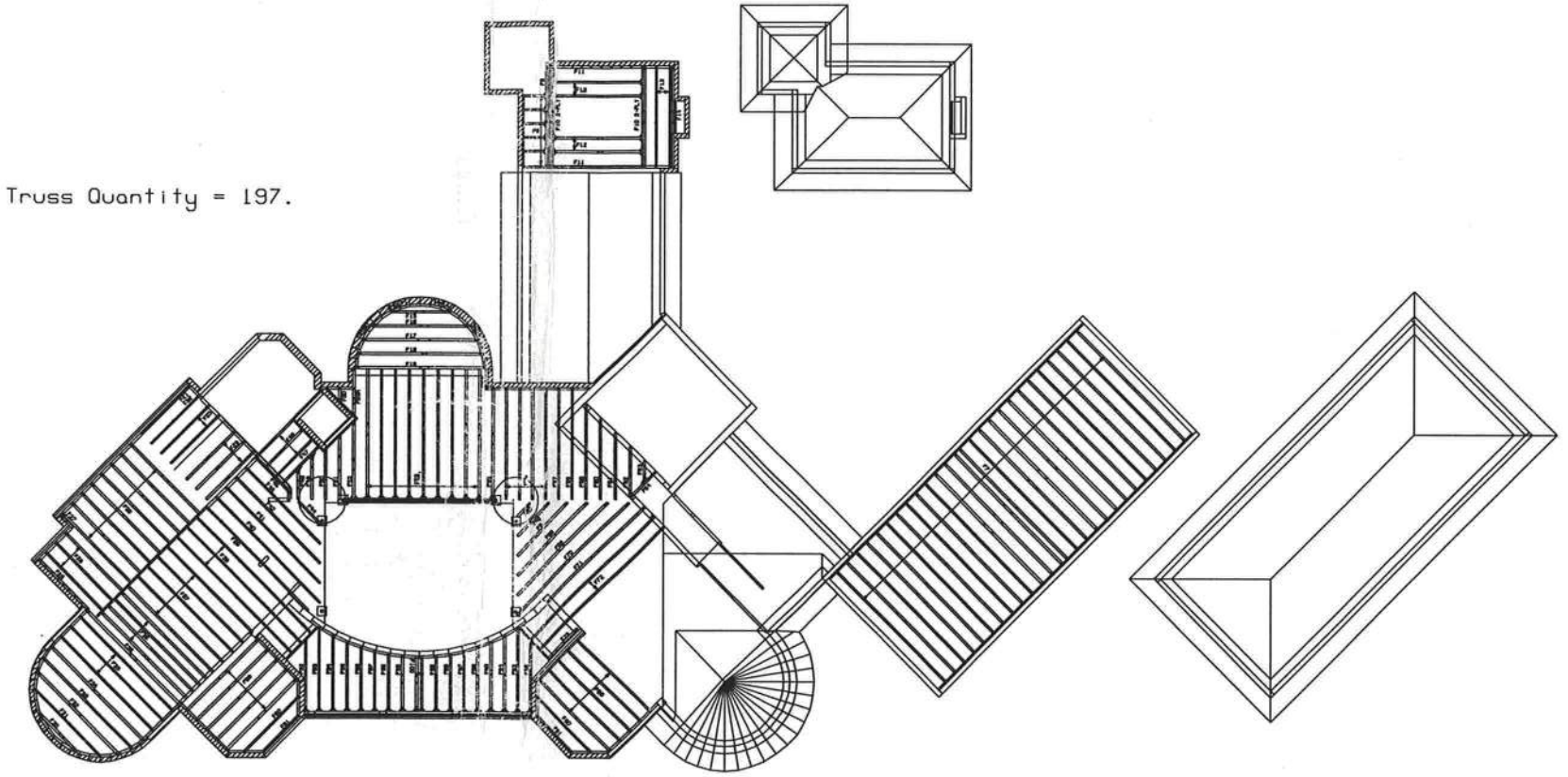

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ADDRESS: Lot 1 Hills Of Windsor
JOB DESCRIPTION:: Premier Building
/: Patel Residence
JOB #: 120912F
DESIGNER: Curt V Burlingame
SALESMAN: Curt V Burlingame

JOB NO:
120912F

PAGE NO:
1 OF 1