DATE 06/13/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000024624

APPLICANT PAUL BARCIA PHONE 497-4770

ADDRESS 552 SW MANATEE TERR FT. WHITE FL 32038

OWNER PAUL & ANN BARCIA PHONE 497-4770

ADDRESS 498 SW MANATEE TERR FT. WHITE FL 32038

CONTRACTOR PAUL BARCIA PHONE 497-4770

LOCATION OF PROPERTY 47S, TR ON WILSON SPRINGS RD, TR ON NEWARK, TL ON BRIDGE LANE, TR ON MANTEE, 2ND LOT ON LEFT

TYPE DEVELOPMENT ADDITION TO SFD ESTIMATED COST OF CONSTRUCTION 30000.00

HEATED FLOOR AREA _____ TOTAL AREA _____ HEIGHT _____ STORIES 2

FOUNDATION WOOD WALLS FRAMED ROOF PITCH 6/12 FLOOR WOOD

LAND USE & ZONING ESA-2 MAX. HEIGHT _____

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

NO. EX.D.U. 0 FLOOD ZONE AE DEVELOPMENT PERMIT NO. 06-015

PARCEL ID 36-6S-15-00569-001 SUBDIVISION 3 RIVERS ESTATES

LOT 3 BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES _____

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
EXISTING	06-0445-E	BK	JH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: NOC ON FILE, SEC.2.3.1, NOFILL TO BE BROGHTIN MUCST BE ON PILES PER WATER MANAGEMENT DIST., ELEVATION CERT REQUIRED BEFORE POWER

Check # or Cash 1170

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by | Foundation _____ date/app. by | Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by | Slab _____ date/app. by | Sheathing/Nailing _____ date/app. by

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

Electrical rough-in _____ date/app. by | Heat & Air Duct _____ date/app. by | Peri. beam (Lintel) _____ date/app. by

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

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

Reconnection _____ date/app. by | Pump pole _____ date/app. by | Utility Pole _____ date/app. by

M/H Pole _____ date/app. by | Travel Trailer _____ date/app. by | Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 150.00 CERTIFICATION FEE $ 0.00 SURCHARGE FEE $ 0.00

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

FLOOD DEVELOPMENT FEE $ 50.00 FLOOD ZONE FEE $ 25.00 CULVERT FEE $ _____ **TOTAL FEE** 275.00

INSPECTORS OFFICE _____ CLERKS OFFICE _____

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Dec. 1,190.00

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

File No. 06-88

Property Appraiser's
Parcel Identification No.
00-00-00-00569-001

WARRANTY DEED

THIS INDENTURE, made this 16th day of February 2006, BETWEEN MARGARET W. KINARD, an unremarried widow, whose post office address is 498 SW Manatee Terrace, Ft. White, Florida 32038, of the County of Columbia, State of Florida, grantor*, and PAUL P. BARCIA and his wife, ANN R. BARCIA, whose post office address is 552 SW Manatee Terrace, Ft. White, Florida 32038, of the County of Columbia, State of Florida, grantee*.

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

Lot 3, ~~Section~~ Unit 2, THREE RIVERS ESTATES, an unrecorded subdivision of a part of Section 36, Township 6 South, Range 15 East, Columbia County, Florida, being more particularly described as: Commence at the Quarter Section corner south line Section 36, Township 6 South, Range 15 East, and run N 19°38'40"W a distance of 2103.18 feet for a POINT OF BEGINNING on Westerly right-of-way line Santa Fe River Road; thence S 89°33'W a distance of 379 feet, more or less, to waters edge Santa Fe River; thence southerly along waters edge Santa Fe River 100 feet, more or less; thence N 89°33'E a distance of 383 feet, more or less, to said right-of-way line; thence N 0°27'W a distance of 100 feet to the POINT OF BEGINNING. Being a part of the NE 1/4 of SW 1/4, Section 36, Township 6 South, Range 15 East, Columbia County, Florida.

N.B.: The spouse with whom title to this property was acquired was continuously married to the named grantor in this deed from the time of its acquisition through the time of said spouse's death.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

Inst:2006003880 Date:02/16/2006 Time:13:06
Doc Stamp-Deed : 1190.00
DC,P.DeWitt Cason,Columbia County B:1076 P:952

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

**"Grantor" and "grantee" are used for singular or plural, as context requires.

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

Signed, sealed and delivered
in our presence:

(First Witness)

Terry McDavid
Printed Name

(Second Witness)

Myrtle Ann McElroy
Printed Name

Margaret W. Kinard (SEAL)
Margaret W. Kinard

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 16th day of February 2006, by MARGARET W. KINARD. She is personally known to me and did not take an oath.

Notary Public
My Commission Expires:

TERRY MCDAVID
MY COMMISSION # DD 500788
EXPIRES: January 16, 2010
Bonded Thru Notary Public Underwriters

Inst:2006003880 Date:02/16/2006 Time:13:06
Doc Stamp-Deed : 1190.00
DC,P.DeWitt Cason,Columbia County B:1074 P:953

CK# 1170

Columbia County Building Permit Application

27500

Revised 9-23-0

For Office Use Only Application # 0605-64 Date Received 5-16-06 By G Permit # 24624

Application Approved by - Zoning Official BLK Date 01.06.06 Plans Examiner OKJTH Date 6-12-06

Flood Zone AE Floodway Development Permit YES Zoning ESA-2 Land Use Plan Map Category ESA

Comments Section 2.3.1 No Fill to be brought in must be on Piles per Water Management District permit Panel 0255 Santa Fe River Elevation 35'

Applicants Name PAUL P. & ANN R. BARCIA Phone 386-497-4770

Address 552 SW MANATee Ter. Ft. White, FL 32038

Owners Name SAME AS ABOVE Phone

911 Address SAME AS ABOVE 498 SW Manatee Ter Ft White FL 32038

Contractors Name SAME AS ABOVE Phone

Address

Fee Simple Owner Name & Address SAME AS ABOVE

Bonding Co. Name & Address NONE

Architect/Engineer Name & Address RON HAASE 25608 DEVONIA ST. Melrose, FL 32666

Mortgage Lenders Name & Address NONE

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

Property ID Number 00-00-00-00569-001 Estimated Cost of Construction $30,000.

Subdivision Name Three Rivers Estates Lot 3 Block Unit 2 Phase

Driving Directions Hwy 47 to Ft. White, Rt. on Wilson Springs Rd, (Sec. 2) Rt. at deadend go 1 block, Left on Bridge LANE, Rt. on SW MANATEE TER, 2ND house on Left.

Type of Construction FRAME - Renovation SFD Number of Existing Dwellings on Property 1

Total Acreage .09 Lot Size 100X300 Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Driv)

Actual Distance of Structure from Property Lines - Front 123' ✓ Side 37.2 Rt. ✓ Side 32 LT ✓ Rear 230' ✓

Total Building Height 25 Ft. Number of Stories 1 Heated Floor Area 2,232 Roof Pitch 6:12

TOTAL 1215

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

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

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

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 28 day of April 20 06.
Personally known ____ or Produced Identification ✓

Contractor Signature
Contractors License Number
Competency Card Number
NOTARY STAMP/SEAL

Notary Signature

SONIA R. BURD
Commission # DD0134606
Expires 7/16/2008
Bonded through
(800-432-4254) Florida Notary Assn., Inc.

SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT
9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

GENERAL PERMIT

PERMITTEE:
PAUL P. & ANN R. BARCIA
552 SOUTHWEST MANATEE TERRACE
FORT WHITE, FL 32038

PERMIT NUMBER: ERP06-0225
DATE ISSUED: 05/11/2006
DATE EXPIRES: 05/11/2009
COUNTY: COLUMBIA
TRS: S36/T6S/R15E

PROJECT: BARCIA WOD RESIDENCE

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

PAUL P. & ANN R. BARCIA
552 SOUTHWEST MANATEE TERRACE
FORT WHITE, FL 32038

Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource general permit is in effect for the permitted activity description below:

Reconstruction of an existing home elevated on piles without the use of fill with the lowest structural member of the lowest finished floor at least one foot above the 100-year flood elevation in a manner consistent with the application package submitted by Paul Barcia on April 28, 2006.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing pursuant to ss.120.57(1), Florida Statutes (F.S.), and s.40B-1.511, F.A.C., if they object to the District's actions. Failure to request a hearing within 14 days will constitute a waiver of your right to request such a hearing. In addition, the District will presume that permittee waives Chapter 120, F.S., rights to object or appeal the action upon commencement of construction authorized by the

permit.

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

Standard Conditions for All General Permits:

1. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.

2. Water quality data representative of the water discharged from the permitted system, including, but not limited to, the parameters in chapter 62-302, F.A.C., shall be submitted to the District as required. If water quality data are required, the permittee shall provide data as required on the volume and rate of discharge including the total volume discharged during the sampling period. All water quality data shall be in accordance with and reference the specific method of analysis in "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association or "Methods for Chemical Analysis of Water and Wastes" by the U.S. Environmental Protection Agency.

3. The operational and maintenance phase of an environmental resource permit will not become effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. If required by the District, such as-built certification shall be made by an engineer or surveyor. Within 30 days after the completion of construction of the system, the permittee shall notify the District that the facilities are complete. If appropriate, the permittee shall request transfer of the permit to the responsible entity approved by the District for operation and maintenance. The District may inspect the system and, as necessary, require remedial measures as a condition of transfer of the permit or release for operation and maintenance of the system.

4. Off-site discharges during and after construction shall be made only through the facilities authorized by the permit. Water discharged from the project shall be through structures suitable for regulating upstream stage if so required by the District. Such discharges may be subject to

operating schedules established by the District.

5. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and chapter 40B-1, F.A.C.

6. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance, alteration, abandonment, or development in a Works of the District which is authorized by the permit.

7. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.

8. It is the responsibility of the permittee to obtain all other clearances, permits, or authorizations required by any unit of local, state, or federal government.

9. The surfacewater management system shall be constructed prior to or concurrent with the development that the system is intended to serve and the system shall be completed within 30 days of substantial completion of the development which the system is intended to serve.

10. Except for General Permits After Notice or permits issued to a unit of government, or unless a different schedule is specified in the permit, the system shall be inspected at least once every third year after transfer of a permit to operation and maintenance by the permittee or his agent to ascertain that the system is being operated and maintained in a manner consistent with the permit. A report of inspection is to be sent to the District within 30 days of the inspection date. If required by chapter 471, F.S., such inspection and report shall be made by an engineer.

11. The permittee shall allow reasonable access to District personnel or agents for the purpose of inspecting the system to insure compliance with the permit. The permittee shall allow the District, at its expense, to install equipment or devices to monitor performance of the system authorized by their permit.

12. The surfacewater management system shall be operated and maintained in a manner which is consistent with the conditions of the permit and chapter 40B-4.2040, F.A.C.

13. The permittee is responsible for the perpetual operation and maintenance of the system unless the operation and maintenance is transferred pursuant to chapter 40B-4.1130, F.A.C., or the permit is modified to authorize a new operation and maintenance entity pursuant to chapter 40B-4.1110, F.A.C.

14. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.

15. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

16. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.

17. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site-specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

18. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has temporarily or permanently ceased.

19. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40B-1.901(14) indicating the actual start date and the expected completion date.

20. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40B-1.901(15). These forms shall be submitted during June of each following year.

21. For those systems which will be operated or maintained by an entity requiring an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the

system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by Paragraph 40B-4.2030(2)(g), F.A.C., and Rule 40B-4.2035, F.A.C., must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of District rules will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

22. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

23. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, using the supplied As-Built Certification Form No. 40B-1.901(16) incorporated by reference in Subsection 40B-1.901(16), F.A.C. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:

a. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;

b. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;

c. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;

d. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;

e. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;

f. Existing water elevation(s) and the date determined; and

g. Elevation and location of benchmark(s) for the survey.

24. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the condition in paragraph 23 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with Rule 40B-4.2035, F.A.C., accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the approved responsible operation and maintenance operating entity if different from the permittee. Until the permit is transferred pursuant to Rule 40B-4.1130, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

25. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior to implementation so that a determination can be made whether a permit modification is required.

26. This permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and in this chapter and Chapter 40B-4, F.A.C.

27. The permittee is hereby advised that Section 253.77, F.S., states that a person may not

commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

28. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under 40B-400.046, F.A.C., provides otherwise.

29. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 40B-4.1130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.

30. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.

31. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by _____ Date Approved 5-11-06
District Staff

_____ _____
Clerk Executive Director

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX: (386) 362-1056

Dear Permittee:

Enclosed is your approved Environmental Resource Permit. Based on the activity described in your application, Suwannee River Water Management District (District) staff has reasonable assurance that the proposed construction meets conditions for issuance, provided you follow the permit conditions and your stated activity.

The construction of a surfacewater management system requires filing a Notice of Commencement and as-built certification forms within 30 days of completion of construction. These forms are enclosed with your permit.

Be aware of the location of underground utilities before starting excavation.

If you wish, we will visit with you on site to discuss the terms of the permit, review existing pre-construction conditions, and answer any questions you may have prior to beginning work. If you would like to schedule a pre-construction meeting, please contact Resource Management staff at 386.362.1001 or 800.226.1066.

Sincerely,

Jon Dinges, P. E.
Department Director, Resource Management

AS-BUILT VERIFICATION

(FOR PROJECTS NOT REQUIRING ENGINEERED PLANS)

I hereby notify the Suwannee River Water Management District that construction of the surfacewater management system authorized by permit number _____, issued on _____, for _____, has been built in substantial conformance with the permitted drawings. I further confirm that operation and maintenance of the system will be performed as needed.

_____
Signature

_____
Name (Please print or type)

_____
Company Name

_____
Mailing Address

_____
City, State, Zip Code

_____
Phone Number

Suwannee River Water Management District
9225 County Road 49
Live Oak, Florida 32060
386.362.1001 or 800.226.1066 (Florida only)

Revised 7/02

Zero Rise Floodway Study

Paul Barcia Property
Lot 3 Unit 2 of Three Rivers Estates
Columbia County

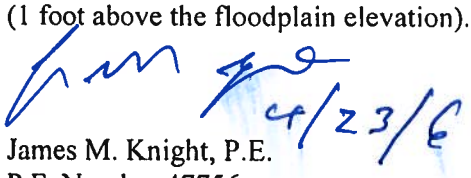
The Barcia property is located on the east side of the Santa Fe River at River Mile 10.10. The property is located in the 100-year floodway of the River. A HEC-RAS analysis has been performed based on the HEC-2 deck obtained from the Suwannee River Water Management District. Duplicate and Proposed models depict the floodplain and floodway analyses and compare the stages for each condition. The Duplicate model is a replication of the HEC-2 deck.

The proposed model blocks all of the flow area in the vicinity of the proposed home. For modeling purposes it was assumed that the home would block 100' of the cross section for a length of 60'. The cross sections at River Miles 10.06 and 11.30 were interpolated to create a cross section at River Mile 10.10 (Exit Section). This cross section was then copied upstream 100 feet (XS 10.11 Downstream Face), upstream 160 feet (XS 10.12 Upstream Face), and upstream 260 feet (XS 10.13 Approach). Cross Sections 10.11 and 10.12 were modified by blocking all flow area between Ground Stations 11293 and 11393. The right top of bank in the model is at Ground Station 11213. Cross section plots are attached.

Comparison of the floodway elevations at the cross sections near the proposed fill indicates that the fill will not increase the floodway elevations (all elevation differences area less than or equal to 0.05 feet and round to 0.0 feet when considered to the nearest tenth of a foot). The fill placed on the property will cause zero rise in the floodway. Elevations from the duplicate and the proposed floodway models are summarized below.

Cross Section	Duplicate Floodway Elevation	Proposed Floodway Elevation
10.06	35.5	35.5
10.10 Exit	NA	35.6
10.11 Face	NA	35.6
10.12 Face	NA	35.6
10.13 Approach	NA	35.6
11.3	35.9	35.9
13.03	36.2	36.2

The proposed minimum low horizontal member elevation is 35.8 feet NGVD 1929 vertical datum (1 foot above the floodplain elevation).



4/23/6

James M. Knight, P.E.
P.E. Number 47756

8725 – 288th Street
Branford, FL 32008

Phone 386-961-6595
Fax 386-935-0639

Duplicate

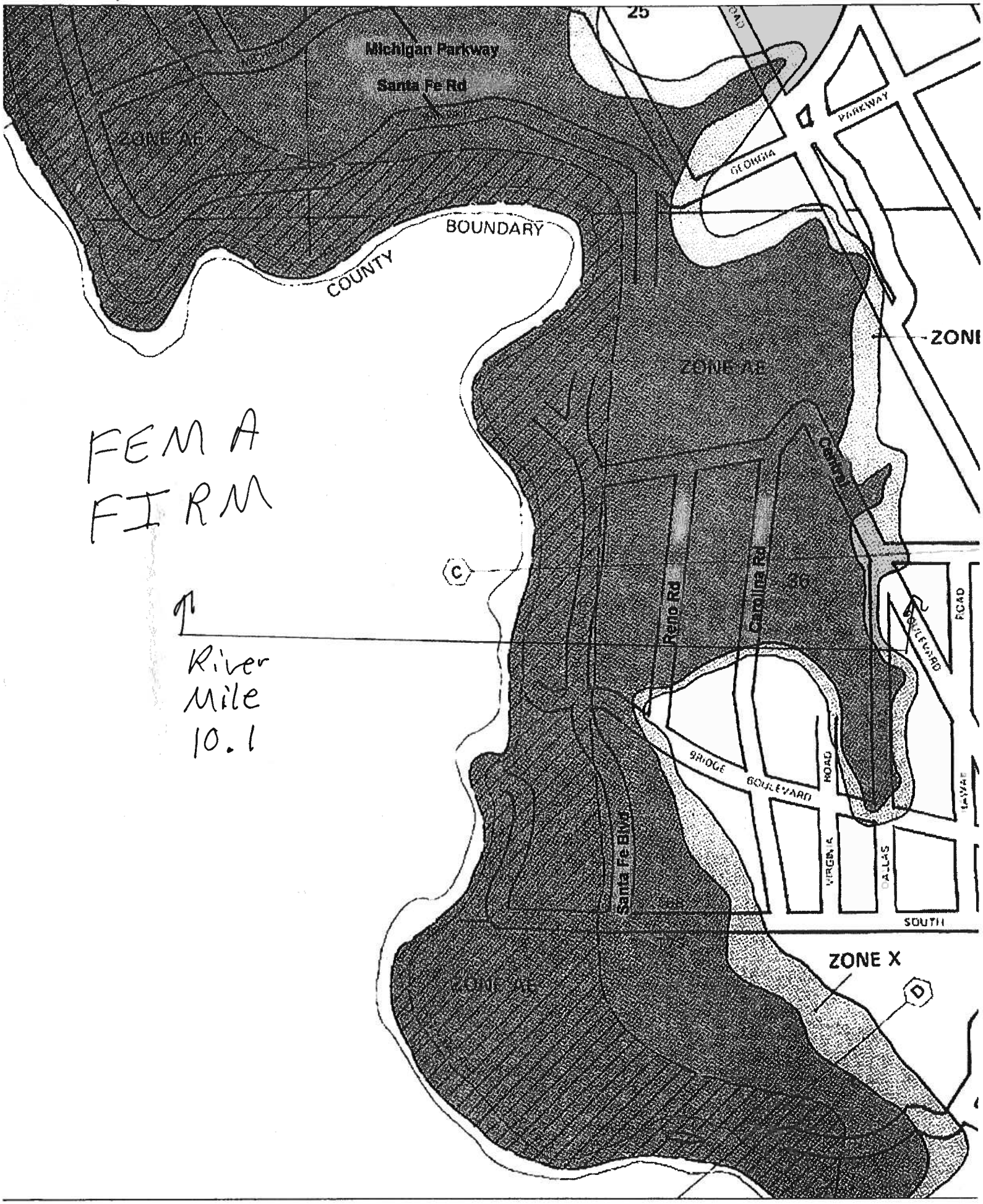
HEC-RAS Plan: Imported Pla River: RIVER-1 Reach: Reach-1

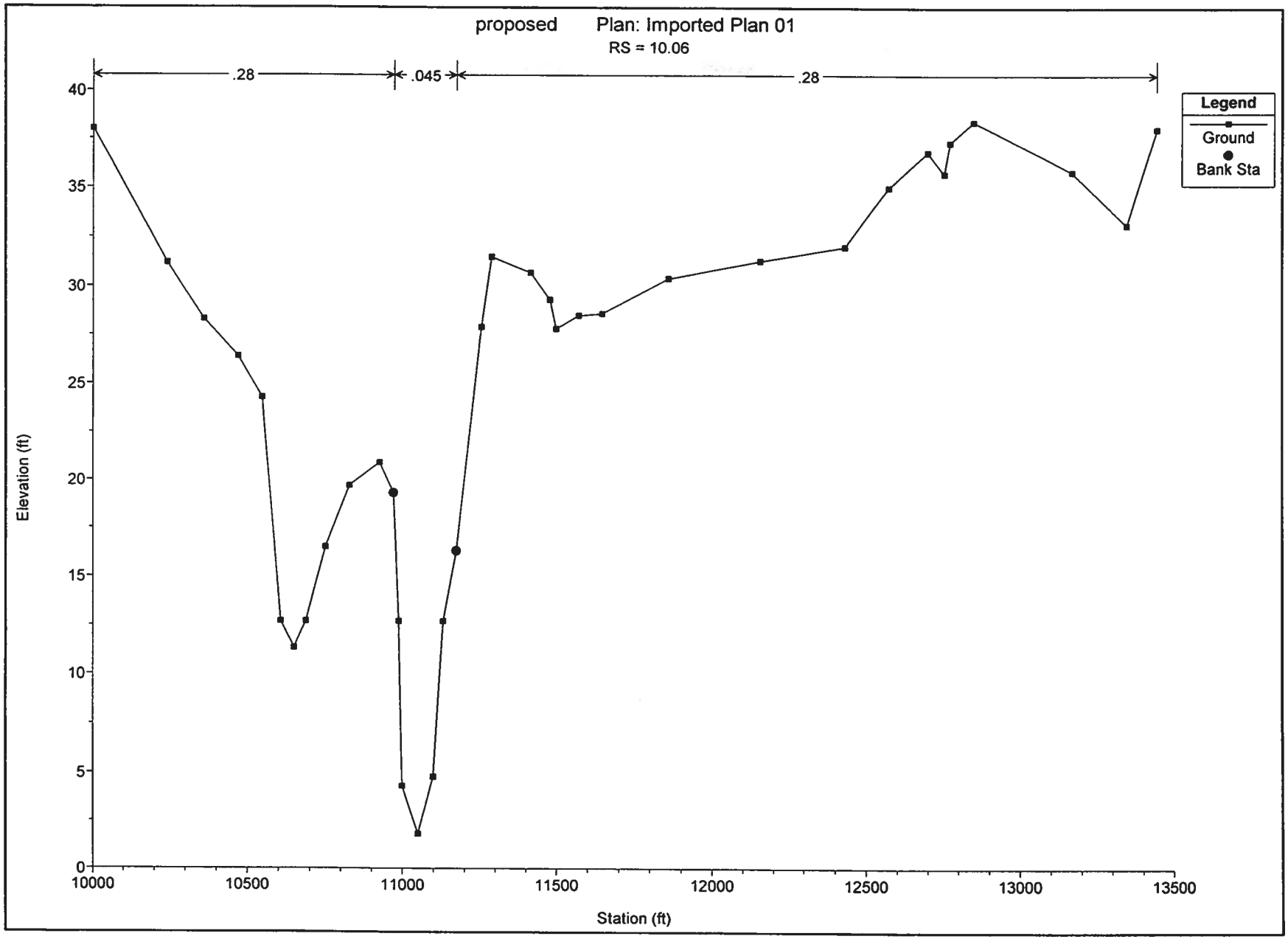
Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach-1	15.66	16359.00	10.22	36.46		36.51	0.000071	2.23	36827.11	4939.44	0.08
Reach-1	15.66	16359.00	10.22	37.16		37.23	0.000080	2.41	22401.29	1743.00	0.09
Reach-1	15.08	16359.00	6.52	36.22		36.28	0.000078	2.26	26457.61	2538.06	0.09
Reach-1	15.08	16359.00	6.52	36.93		36.99	0.000074	2.24	22525.98	1643.00	0.08
Reach-1	14.08	16359.00	10.50	35.75		35.82	0.000096	2.51	28533.02	3172.50	0.09
Reach-1	14.08	16359.00	10.50	36.52		36.58	0.000080	2.35	25630.53	1883.00	0.09
Reach-1	13.03	16359.00	-5.45	35.43		35.47	0.000046	2.08	40415.37	3897.86	0.07
Reach-1	13.03	16359.00	-5.45	36.20		36.25	0.000051	2.23	28306.75	1832.00	0.07
Reach-1	11.3	16359.00	7.00	35.10		35.14	0.000035	1.71	33321.55	2515.89	0.06
Reach-1	11.3	16359.00	7.00	35.87		35.90	0.000034	1.72	28624.53	1615.00	0.06
Reach-1	10.06	16359.00	1.81	34.76		34.83	0.000070	2.44	21699.93	2585.04	0.08
Reach-1	10.06	16359.00	1.81	35.54		35.61	0.000064	2.38	17981.17	1217.00	0.08
Reach-1	8.43	16359.00	-1.00	34.25		34.31	0.000059	2.35	35529.14	5680.49	0.08
Reach-1	8.43	16359.00	-1.00	35.07		35.13	0.000055	2.32	25212.38	2099.00	0.07

Proposed

HEC-RAS Plan: Imported Pla River: RIVER-1 Reach: Reach-1

Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach-1	15.66	16359.00	10.22	36.47		36.52	0.000071	2.22	36882.34	4942.64	0.08
Reach-1	15.66	16359.00	10.22	37.17		37.24	0.000080	2.41	22414.81	1743.00	0.09
Reach-1	15.08	16359.00	6.52	36.23		36.29	0.000078	2.26	26487.38	2538.75	0.09
Reach-1	15.08	16359.00	6.52	36.94		37.00	0.000074	2.24	22539.27	1643.00	0.08
Reach-1	14.08	16359.00	10.50	35.76		35.83	0.000096	2.51	28574.00	3175.61	0.09
Reach-1	14.08	16359.00	10.50	36.53		36.59	0.000080	2.34	25646.95	1883.00	0.09
Reach-1	13.03	16359.00	-5.45	35.44		35.48	0.000046	2.08	40460.39	3898.26	0.07
Reach-1	13.03	16359.00	-5.45	36.20		36.25	0.000051	2.23	28317.88	1832.00	0.07
Reach-1	11.3	16359.00	7.00	35.12		35.15	0.000035	1.71	33364.91	2517.88	0.06
Reach-1	11.3	16359.00	7.00	35.88		35.92	0.000034	1.72	28653.44	1615.00	0.06
Reach-1	10.13	16359.00	1.98	34.80		34.88	0.000068	2.41	22479.77	2635.85	0.08
Reach-1	10.13	16359.00	1.98	35.58		35.65	0.000062	2.35	18269.36	1219.00	0.08
Reach-1	10.12	16359.00	1.98	34.79		34.87	0.000068	2.41	22020.09	2533.81	0.08
Reach-1	10.12	16359.00	1.98	35.58		35.65	0.000063	2.36	17749.02	1119.16	0.08
Reach-1	10.11	16359.00	1.98	34.78		34.86	0.000068	2.41	21994.68	2531.77	0.08
Reach-1	10.11	16359.00	1.98	35.57		35.64	0.000063	2.36	17740.87	1119.15	0.08
Reach-1	10.10	16359.00	1.98	34.77		34.85	0.000068	2.41	22400.52	2629.73	0.08
Reach-1	10.10	16359.00	1.98	35.55		35.62	0.000063	2.36	18233.06	1219.00	0.08
Reach-1	10.06	16359.00	1.81	34.76		34.83	0.000070	2.44	21699.93	2585.04	0.08
Reach-1	10.06	16359.00	1.81	35.54		35.61	0.000064	2.38	17981.17	1217.00	0.08
Reach-1	8.43	16359.00	-1.00	34.25		34.31	0.000059	2.35	35529.14	5680.49	0.08
Reach-1	8.43	16359.00	-1.00	35.07		35.13	0.000055	2.32	25212.38	2099.00	0.07


Michigan Parkway
Santa Fe Rd
ZONE AE
BOUNDARY
COUNTY
ZONE AE
Reno Rd
Carolina Rd
Santa Fe Blvd
ZONE AE
ZONE X
FEMA
FIRM
River
Mile
10.1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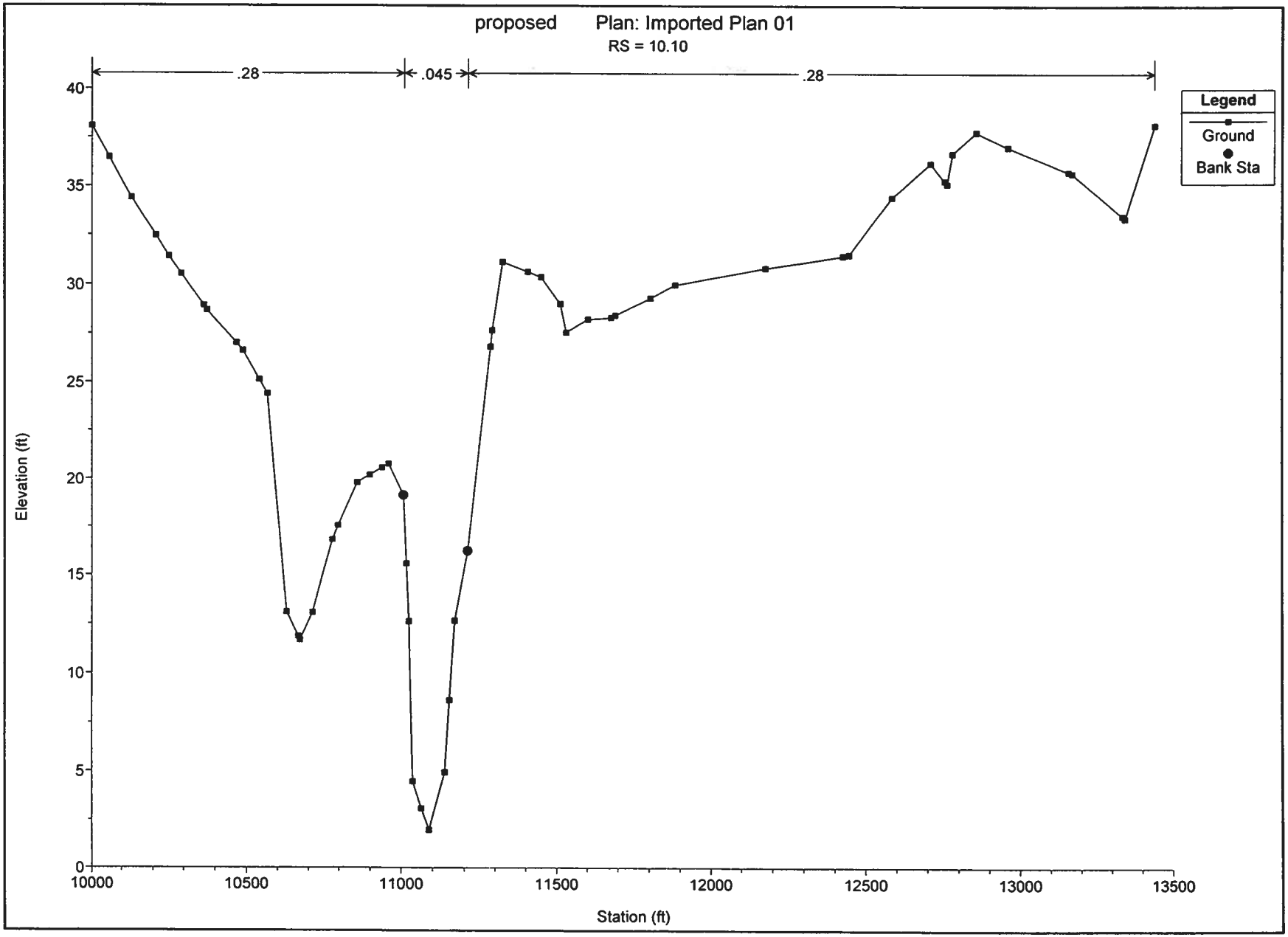
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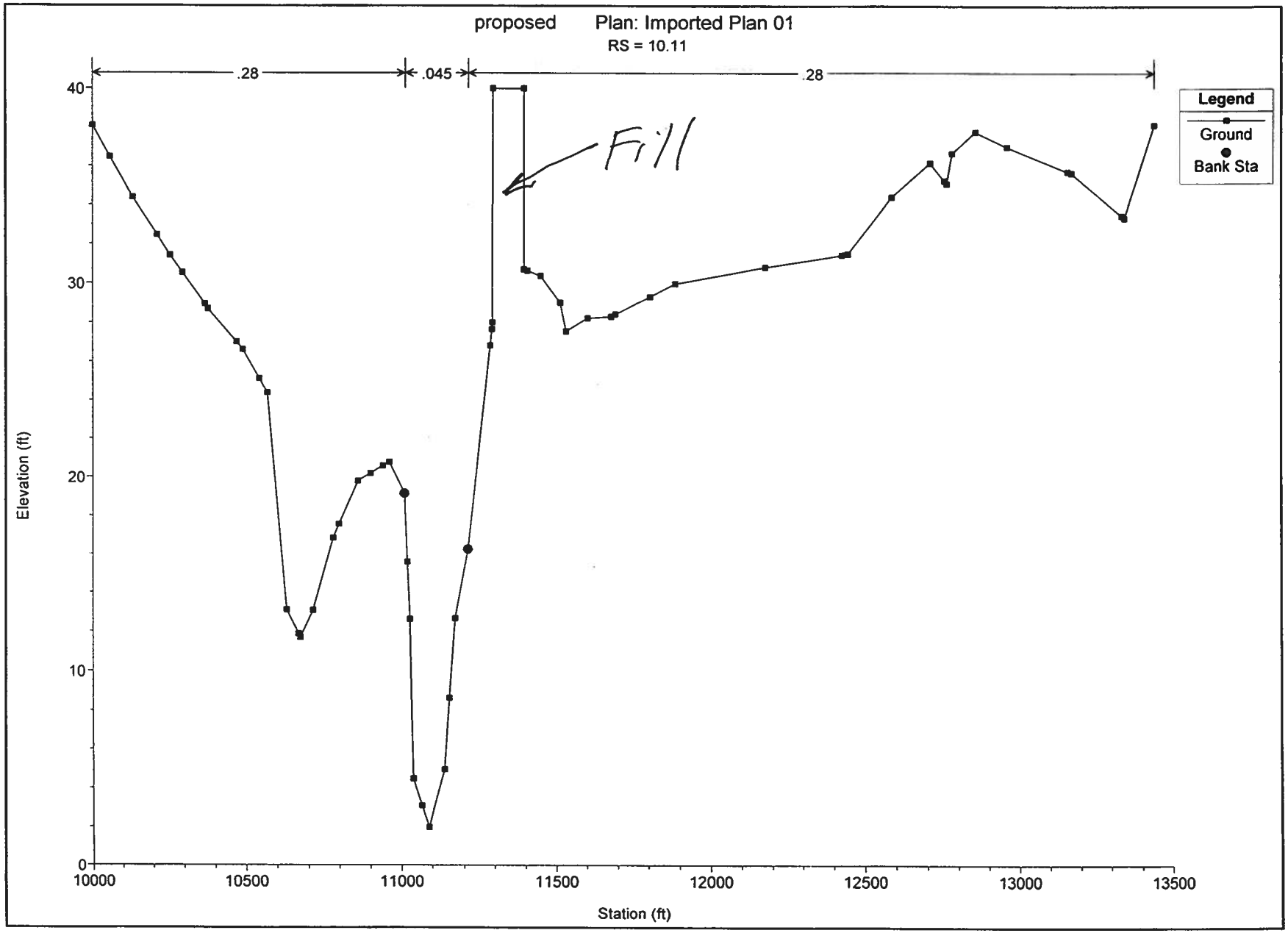
proposed Plan: Imported Plan 01
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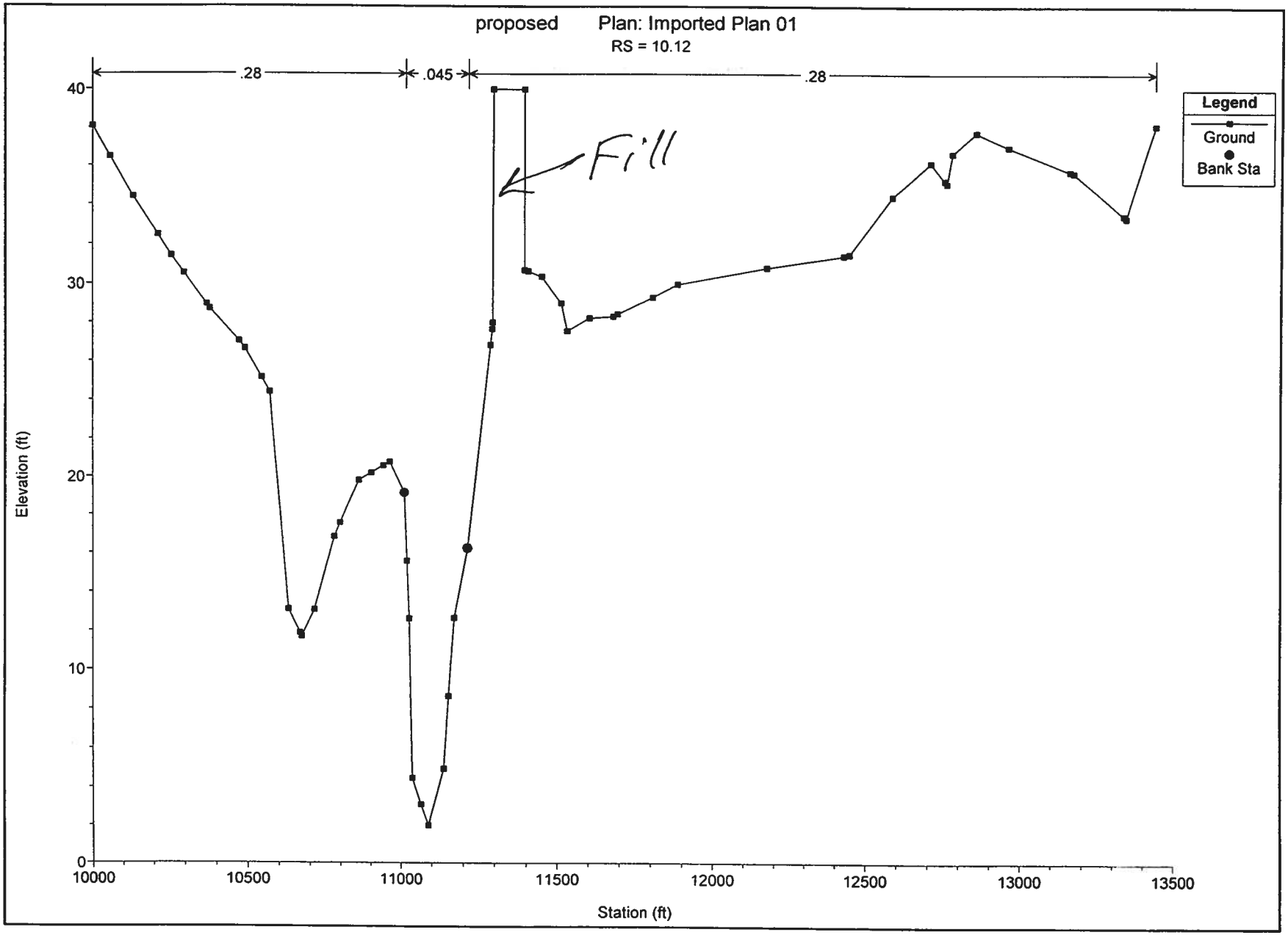
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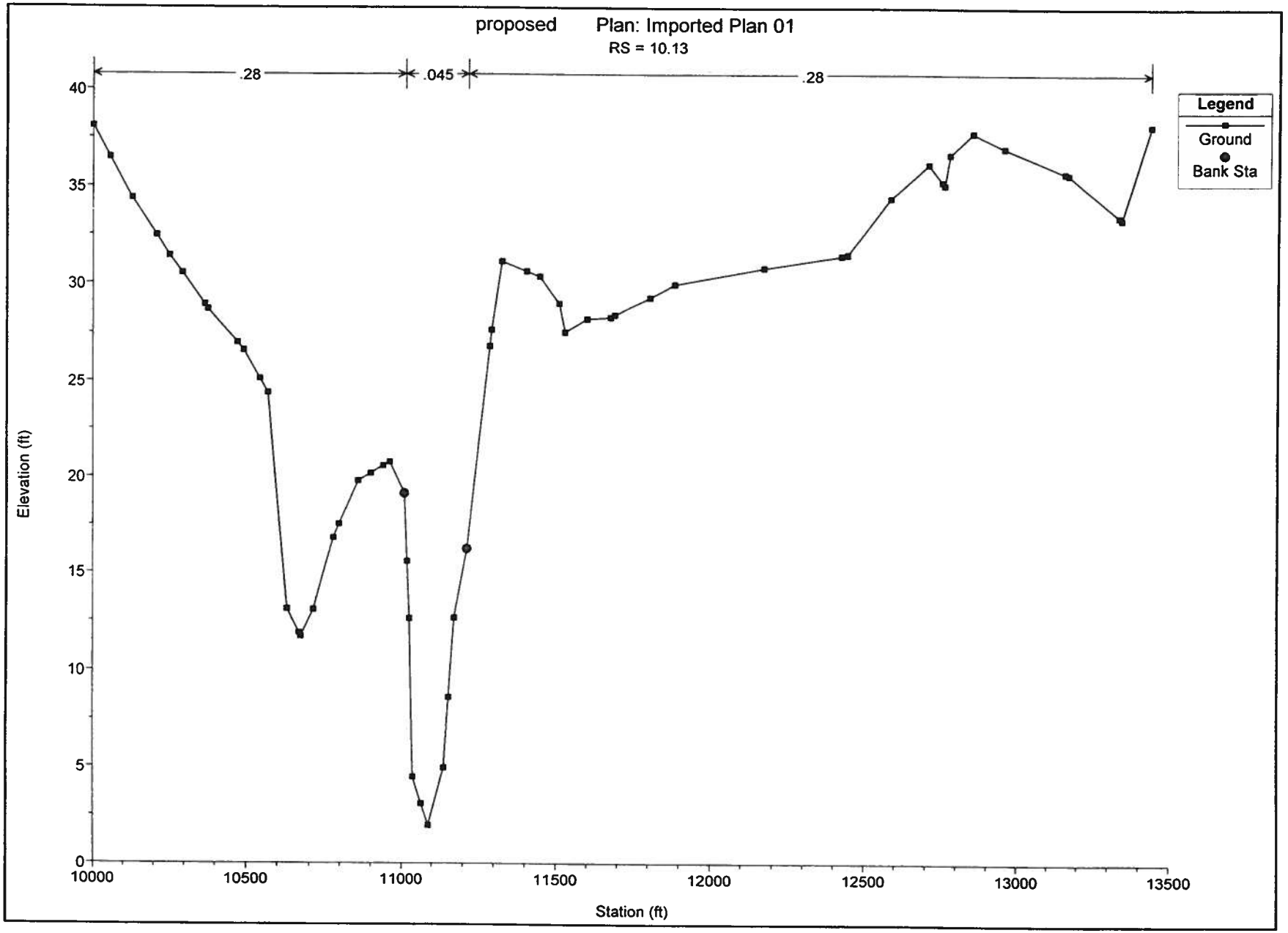
proposed
Plan: Imported Plan 01
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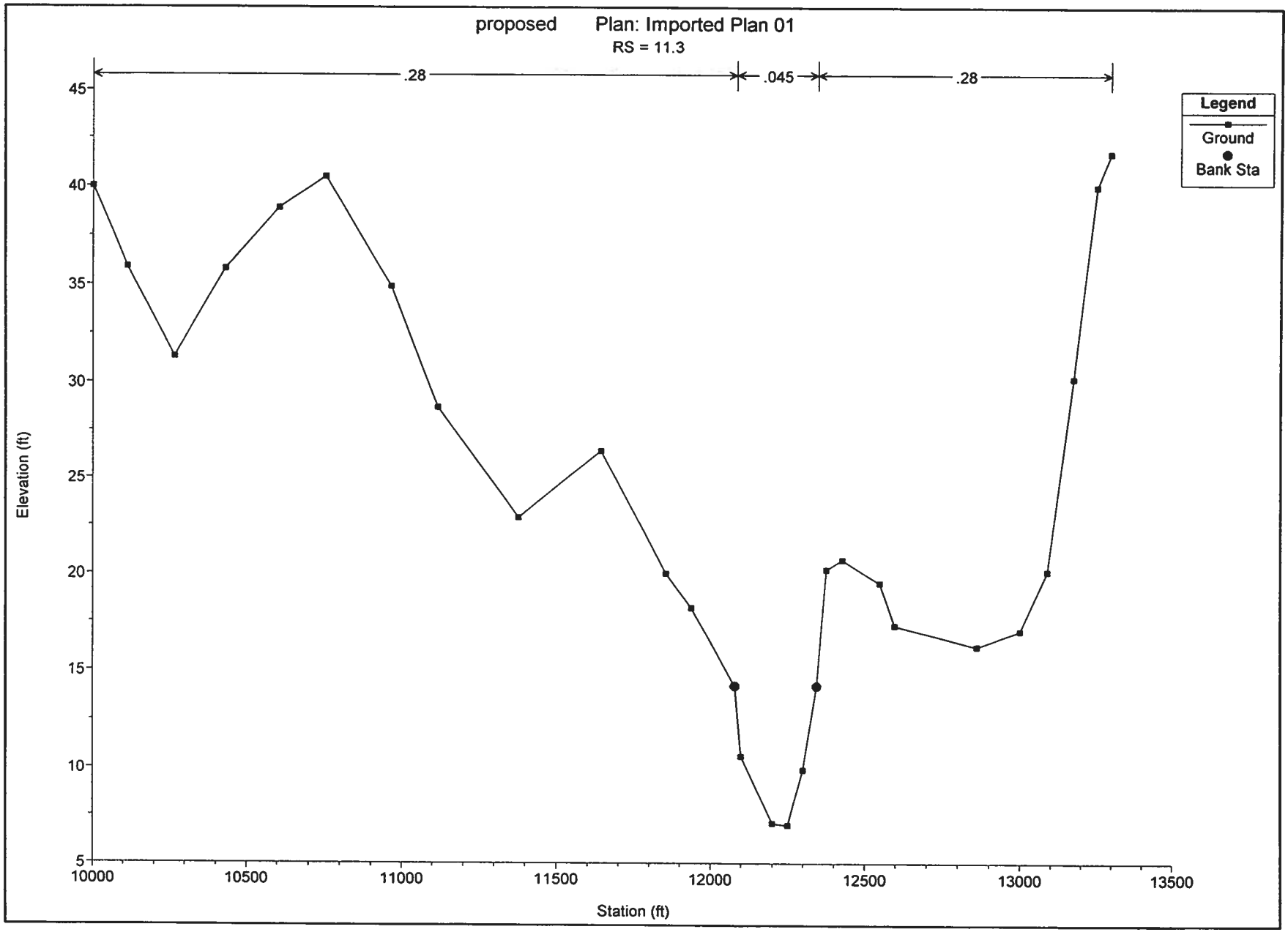
proposed Plan: Imported Plan 01
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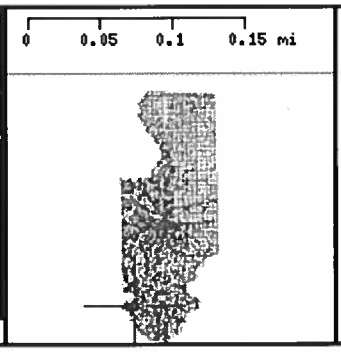
Station (ft)

Columbia County Property Appraiser

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

PARCEL: 00-00-00-00569-001 HX 13 - SINGLE FAM (000100)

Name:	BARCIA PAUL P & ANN R	LandVal	$34,000.00
Site:	MANATEE	BldgVal	$85,733.00
Mail:	552 SW MANATEE TERRACE FT WHITE, FL 32038	ApprVal	$119,983.00
		JustVal	$119,983.00
Sales Info	2/16/2006 $170,000.00 I / Q	Assd	$91,343.00
	2/14/2006 $100.00V / U	Exmpt	$91,343.00
	12/19/2000 $100.00V / U	Taxable	$0.00



This information, GIS Map Updated: 5/5/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

DISCLOSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THER OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $25,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F .I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

(✓) Single Family Dwelling
( ) Two-Family Residence
( ) Farm Outbuilding
( ) Other_____
( ) New Construction
( ) Addition, Alteration, Modification or other Improvement

NEW CONSTRUCTION OR IMPROVEMENT

I Paul P. Barcia, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number 0605-64

Paul P. Barcia 6/7/06

Signature Date

FOR BUILDING USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date_____ Building Official/Representative_____

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

THIS DOCUMENT MUST BE RECORDED AT THE COUNTY CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.

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

Tax Parcel ID Number 00-00-00-00569-001 PERMIT NUMBER _____

1. Description of property: (legal description of the property and street address or 911 address)
LOT 3 SEC. 2 Three Rivers ESTATES (498 SW MANATee Ter. Ft. White, FL 32038

2. General description of improvement: Remodel Existing home AND Add 300 sq. ft.

3. Owner Name & Address PAUL P. & ANN R. BARCIA 552 SW MANATee Ter, Ft. White, FL 32038 Interest in Property 100% OWNERS

4. Name & Address of Fee Simple Owner (if other than owner): _____

5. Contractor Name OWNER Phone Number 386-497-4770
Address _____

6. Surety Holders Name NONE
Address _____
Amount of Bond _____

Inst:2006011945 Date:05/16/2006 Time:14:48
S.T. DC,P.DeWitt Cason,Columbia County B:1083 P:2527

7. Lender Name NONE
Address _____

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:
Name OWNER Phone Number _____
Address SAME AS ABOVE

9. In addition to himself/herself the owner designates NONE of _____ to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) –
(a) 7. Phone Number of the designee _____

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) _____

NOTICE AS PER CHAPTER 713, Florida Statutes:
The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Paul P. Barcia
Ann R. Barcia
Signature of Owner

Sworn to (or affirmed) and subscribed before day of 28 April, 20 06

NOTARY SEAL

DALE R. BURD
Commission # DD0134600
Expires 7/18/2006
Bonded through
(800-432-4254) Florida Notary Assn., Inc.

Signature of Notary

STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0445E

PART II - SITE PLAN

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

Notes: See Att.

Site Plan submitted by: [signature] 5/2/06
Signature

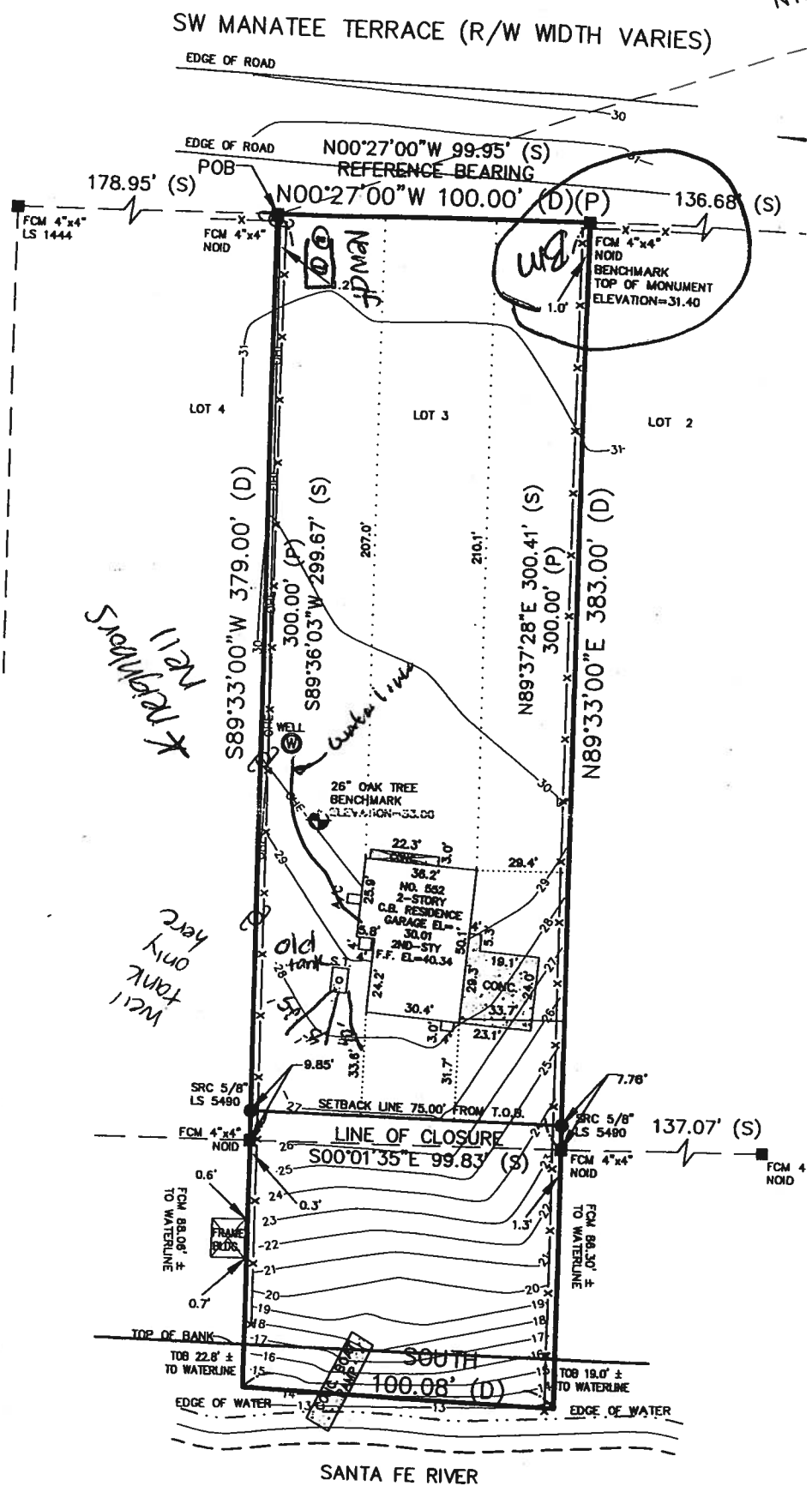
Owner
Title

Plan Approved X Not Approved _____ Date 5/3/06

By Sallie Graddy. ESII County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

N-5h10-90



CERTIFIED TO:
PAUL P. BARCIA
ANN R. BARCIA

I HEREBY CERTIFY THIS SURVEY WAS DONE UNDER MY DIRECT SUPERVISION AND IT MEETS THE MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING PURSUANT TO CHAPTER 61G17-6, FLORIDA ADMINISTRATION CODE, CHAPTER 472, FLORIDA STATUES.

WILLIAM N. KITCHEN PSM 5490.

William N. Kitchen

SURVEYORS NOTE

1. BEARING BASED ON DEED.
2. THIS SURVEY BASED ON LEGAL DESC
   WERE NOT SEARCHED BY THIS SURVI
   RESTRICTIONS, CLOSURES, TAKINGS C
   OTHER MATTER OF RECORD THAT EFI
3. SUBJECT PROPERTY SHOWN HEREON
   F.E.M.A. PANEL # 1 200,700 255
4. SUBJECT PROPERTY SHOWN HEREON

Columbia County Building Department
Flood Development Permit

Development Permit
F 023- 06-015

DATE 06/13/2006 BUILDING PERMIT NUMBER 000024624

APPLICANT PAUL BARCIA PHONE 497-4770

ADDRESS 552 SW MANATEE TERR FT. WHITE FL 32038

OWNER PAUL & ANN BARCIA PHONE 497-4770

ADDRESS 552 SW MANATEE TERR FT. WHITE FL 32038

CONTRACTOR PAUL BARCIA PHONE 497-4770

ADDRESS 552 SW MANATEE TERR FT. WHITE FL 32038

SUBDIVISION 3 RIVERS ESTATES Lot 3 Block ____ Unit ____ Phase ____

TYPE OF DEVELOPMENT ADDITION TO SFD PARCEL ID NO. 36-6S-15-00569-001

FLOOD ZONE AE BY BK 1-6-88 FIRM COMMUNITY #. 120070 - PANEL #. 0255 B

FIRM 100 YEAR ELEVATION 36' PLAN INCLUDED YES or NO

REQUIRED LOWEST HABITABLE FLOOR ELEVATION 35'

IN THE REGULATORY FLOODWAY YES or NO RIVER Santa Fe River

SURVEYOR / ENGINEER NAME James Knight LICENSE NUMBER 47756

____ ONE FOOT RISE CERTIFICATION INCLUDED

✓ ZERO RISE CERTIFICATION INCLUDED

____ SRWMD PERMIT NUMBER ____
(INCLUDING THE ONE FOOT RISE CERTIFICATION)

DATE THE FINISHED FLOOR ELEVATION CERTIFICATE WAS PROVIDED ____

INSPECTED DATE ____ BY ____

COMMENTS ____

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

PERMIT EXPIRES ONE YEAR FROM THE DATE OF ISSUANCE

FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Barcia Residence**	Builder:	
Address:		Permitting Office:	Columbia
City, State:	,	Permit Number:	24624
Owner:	**Paul Barcia**	Jurisdiction Number:	221000
Climate Zone:	**South**		

1. New construction or existing		New	
2. Single family or multi-family		Single family	
3. Number of units, if multi-family		1	
4. Number of Bedrooms		2	
5. Is this a worst case?		Yes	
6. Conditioned floor area (ft²)		2232 ft²	
7. Glass area & type	Single Pane	Double Pane	
a. Clear glass, default U-factor	0.0 ft²	138.9 ft²	
b. Default tint	0.0 ft²	0.0 ft²	
c. Labeled U or SHGC	0.0 ft²	0.0 ft²	
8. Floor types			
a. Raised Wood, Post or Pier		ft²	
b. N/A			
c. N/A			
9. Wall types			
a. Frame, Wood, Exterior		R=13.0, 1536.0 ft²	
b. N/A			
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic		R=30.0, 2455.2 ft²	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=6.0, 60.0 ft	
b. N/A			

12. Cooling systems		
a. Central Unit	Cap: 42.0 kBtu/hr	
	SEER: 13.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 42.0 kBtu/hr	
	HSPF: 8.00	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 50.0 gallons	
	EF: 0.90	
b. N/A		
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	MZ-C, PT, CF,	

Glass/Floor Area: 0.06

Total as-built points: 20606
Total base points: 33727

PASS

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

PREPARED BY: [signature]

DATE: 5/10/06

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

OWNER/AGENT: _____

DATE: _____

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

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	2232.0	32.50	13057.2	Double, Clear	NE	1.5	3.8	39.2	48.54	0.82	1569.0
				Double, Clear	SE	1.5	6.4	60.5	69.60	0.91	3841.4
				Double, Clear	SW	1.5	3.8	39.2	64.05	0.77	1945.4
				As-Built Total:				**138.9**			**7355.8**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1536.0	2.40		3686.4
Exterior	1536.0	2.70	4147.2								
Base Total:	**1536.0**		**4147.2**	**As-Built Total:**				**1536.0**			**3686.4**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	Exterior Wood				19.0	9.40		179.0
Exterior	19.0	6.40	121.9								
Base Total:	**19.0**		**121.9**	**As-Built Total:**				**19.0**			**179.0**
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points
Under Attic	2232.0	2.80	6249.6	Under Attic			30.0	2455.2	2.77 X 1.00		6800.9
Base Total:	**2232.0**		**6249.6**	**As-Built Total:**				**2455.2**			**6800.9**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Post or Pier			19.0	192.0	1.58		302.8
Raised	192.0	-2.16	-414.7								
Base Total:			**-414.7**	**As-Built Total:**				**192.0**			**302.8**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	2232.0	18.79	41939.3					2232.0	18.79		41939.3
Summer Base Points:			**65100.4**	**Summer As-Built Points:**							**60264.1**
Total Summer Points	X System Multiplier	= Cooling Points		Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points		
65100.4	**0.4266**	**27771.8**		60264.1 **60264.1**	1.000 **1.00**	(1.073 x 1.165 x 0.90) **1.125**	0.262 **0.262**	0.857 **0.857**	15247.9 **15247.9**		

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	2232.0	2.36	948.2	Double, Clear	NE	1.5	3.8	39.2	4.18	1.00	163.1	
				Double, Clear	SE	1.5	6.4	60.5	2.87	1.04	180.5	
				Double, Clear	SW	1.5	3.8	39.2	3.63	1.03	146.7	
				As-Built Total:				**138.9**			**490.3**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1536.0	0.60		921.6	
Exterior	1536.0	0.60	921.6									
Base Total:	**1536.0**		**921.6**	**As-Built Total:**				**1536.0**			**921.6**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	Exterior Wood				19.0	2.80		53.3	
Exterior	19.0	1.80	34.3									
Base Total:	**19.0**		**34.3**	**As-Built Total:**				**19.0**			**53.3**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM =		Points	
Under Attic	2232.0	0.10	223.2	Under Attic			30.0	2455.2	0.10 X 1.00		245.5	
Base Total:	**2232.0**		**223.2**	**As-Built Total:**				**2455.2**			**245.5**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	0.0(p)	0.0	0.0	Raised Wood, Post or Pier			19.0	192.0	-0.01		-1.3	
Raised	192.0	-0.28	-53.8									
Base Total:			**-53.8**	**As-Built Total:**				**192.0**			**-1.3**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	2232.0	-0.06	-133.9					2232.0	-0.06		-133.9	
Winter Base Points:			**1939.5**	**Winter As-Built Points:**								**1575.5**
Total Winter Points	X System Multiplier	= Heating Points		Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)		X System Multiplier	X Credit Multiplier	= Heating Points		
1939.5	**0.6274**	**1216.9**		1575.5 **1575.5**	1.000 **1.00**	(1.099 x 1.137 x 0.91) **1.137**		0.426 **0.426**	0.950 **0.950**	725.4 **725.4**		

FORM 600A-2001

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
2	2369.00	4738.0		50.0	0.90	2	1.00	2316.36	1.00	4632.7	
				As-Built Total:						**4632.7**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
27772	**1217**	**4738**	**33727**	**15248**	**725**	**4633**	**20606**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 90.2

The higher the score, the more efficient the home.

Paul Barcia, , , ,

1. New construction or existing		New	
2. Single family or multi-family		Single family	
3. Number of units, if multi-family		1	
4. Number of Bedrooms		2	
5. Is this a worst case?		Yes	
6. Conditioned floor area (ft²)		2232 ft²	
7. Glass area & type	Single Pane	Double Pane	
a. Clear - single pane	0.0 ft²	138.9 ft²	
b. Clear - double pane	0.0 ft²	0.0 ft²	
c. Tint/other SHGC - single pane	0.0 ft²	0.0 ft²	
d. Tint/other SHGC - double pane			
8. Floor types			
a. Raised Wood, Post or Pier		R=19.0, 192.0ft²	
b. N/A			
c. N/A			
9. Wall types			
a. Frame, Wood, Exterior		R=13.0, 1536.0 ft²	
b. N/A			
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic		R=30.0, 2455.2 ft²	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=6.0, 60.0 ft	
b. N/A			

12. Cooling systems		
a. Central Unit	Cap: 42.0 kBtu/hr	
	SEER: 13.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 42.0 kBtu/hr	
	HSPF: 8.00	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 50.0 gallons	
	EF: 0.90	
b. N/A		
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	MZ-C, PT, CF,	

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

Builder Signature: _____ Date: _____

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

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/488-1824.*

Residential System Sizing Calculation

Summary

Paul Barcia

Project Title:
Barcia Residence

Code Only
Professional Version
Climate: South

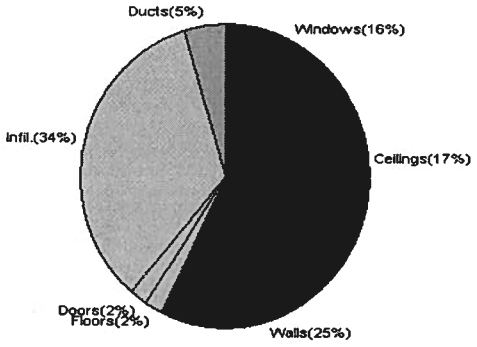
5/10/2006

Location for weather data: Gainesville - User customized: Latitude(29) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (78F) Humidity difference(51gr.)					
Winter design temperature	31	F	Summer design temperature	98	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	39	F	Summer temperature difference	23	F
Total heating load calculation	**18944**	**Btuh**	**Total cooling load calculation**	**26334**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	221.7	42000	Sensible (SHR = 0.5)	100.5	21000
Heat Pump + Auxiliary(0.0kW)	221.7	42000	Latent	385.7	21000
			Total (Electric Heat Pump)	159.5	42000

WINTER CALCULATIONS

Winter Heating Load (for 2232 sqft)

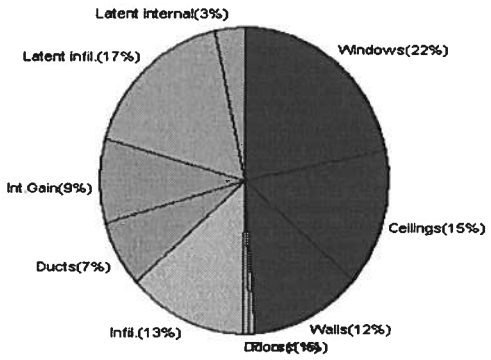
Load component			Load	
Window total	139	sqft	2986	Btuh
Wall total	1536	sqft	4762	Btuh
Door total	19	sqft	342	Btuh
Ceiling total	2455	sqft	3192	Btuh
Floor total	192	sqft	365	Btuh
Infiltration	149	cfm	6396	Btuh
Subtotal			**18042**	**Btuh**
Duct loss			902	Btuh
TOTAL HEAT LOSS			**18944**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2232 sqft)

Load component			Load	
Window total	139	sqft	5770	Btuh
Wall total	1536	sqft	3287	Btuh
Door total	19	sqft	234	Btuh
Ceiling total	2455	sqft	3830	Btuh
Floor total			169	Btuh
Infiltration	130	cfm	3301	Btuh
Internal gain			2400	Btuh
Subtotal(sensible)			**18991**	**Btuh**
Duct gain			1899	Btuh
Total sensible gain			**20890**	**Btuh**
Latent gain(infiltration)			4524	Btuh
Latent gain(internal)			920	Btuh
Total latent gain			**5444**	**Btuh**
TOTAL HEAT GAIN			**26334**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.
PREPARED BY: William H Fuller
DATE: 5/10/06

System Sizing Calculations - Winter

Residential Load - Component Details

Paul Barcia

Project Title:
Barcia Residence

Code Only
Professional Version
Climate: South

Reference City: Gainesville (User customized) Winter Temperature Difference: 39.0 F

5/10/2006

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Wood, DEF	N	39.2	21.5	843 Btuh
2	2, Clear, Wood, DEF	E	60.5	21.5	1300 Btuh
3	2, Clear, Wood, DEF	S	39.2	21.5	843 Btuh
	Window Total		139		2986 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1536	3.1	4762 Btuh
	Wall Total		1536		4762 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exter		19	17.9	342 Btuh
	Door Total		19		342Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2455	1.3	3192 Btuh
	Ceiling Total		2455		3192Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood/Open	19	192.0 sqft	1.9	365 Btuh
	Floor Total		192		365 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	22320(sqft)	149	6396 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			149	6396 Btuh

Totals for Heating	**Subtotal**	**18042 Btuh**
	Duct Loss(using duct multiplier of 0.05)	**902 Btuh**
	Total Btuh Loss	**18944 Btuh**

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

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

System Sizing Calculations - Summer

Residential Load - Component Details

Paul Barcia

Project Title:
Barcia Residence

Code Only
Professional Version
Climate: South

Reference City: Gainesville (User customized) Summer Temperature Difference: 23.0 F 5/10/2006

Window	Type Panes/SHGC/U/InSh/ExSh Ornt		Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load	
1	2, Clear, DEF, N, N	N	1.5	3.75	39.2	0.0	39.2	24	24	941	Btuh
2	2, Clear, DEF, N, N	E	1.5	6.41	60.5	11.7	48.7	24	74	3889	Btuh
3	2, Clear, DEF, N, N	S	1.5	3.75	39.2	39.2	0.0	24	39	941	Btuh
	Window Total				139					5770	Btuh

Walls	Type	R-Value	Area	HTM	Load	
1	Frame - Exterior	13.0	1536.0	2.1	3287	Btuh
	Wall Total		1536.0		3287	Btuh

Doors	Type	Area	HTM	Load	
1	Wood - Exter	19.0	12.3	234	Btuh
	Door Total	19.0		234	Btuh

Ceilings	Type/Color	R-Value	Area	HTM	Load	
1	Under Attic/Dark	30.0	2455.2	1.6	3830	Btuh
	Ceiling Total		2455.2		3830	Btuh

Floors	Type	R-Value	Size	HTM	Load	
1	Raised Wood	19.0	192.0 sqft	0.9	168.96	Btuh
	Floor Total		192.0		169	Btuh

Infiltration	Type	ACH	Volume	CFM=	Load	
	Natural	0.35	22320	130.5	3301	Btuh
	Mechanical			0	0	Btuh
	Infiltration Total			130	3301	Btuh

Internal gain	Occupants		Btuh/occupant		Appliance	Load	
	4	X	300	+	1200	2400	Btuh

Totals for Cooling			
	Subtotal	**18991**	**Btuh**
	Duct gain(using duct multiplier of 0.10)	**1899**	**Btuh**
	Total sensible gain	**20890**	**Btuh**
	Latent infiltration gain (for 51 gr. humidity difference)	**4524**	**Btuh**
	Latent occupant gain (4 people @ 230 Btuh per person)	**920**	**Btuh**
	Latent other gain	**0**	**Btuh**
	TOTAL GAIN	**26334**	**Btuh**

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: 0605-64

Contractor Paul Barcia Owners Paul & Ann Barcia Lot 3 Unit 2 of Three Rives Estate

On the date of May 23, 2006 application 0605-64 and plans for construction of an addition on to a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0605-64 when making reference to this application.

1. Please sign and submit an Owner/ Builder Disclosure statement which is an attachment.
2. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.
3. Please indicate on the plans the total square footage of the existing habitable area which will be one foot above the established 100-year flood elevation and

the square footage of the additional habitable area which will be one foot above the established 100-year flood elevation.

4. Please have Mr. Ronald Haase the architect of record for the plans, supply information on the plans the requirements of FBC-2004 section 1603.1.4 Wind design data. The following information related to wind loads shall be shown, regardless of whether wind loads govern the design of the lateral-force-resisting system of the building:

1. Basic wind speed (3-second gust), miles per hour (km/hr).

2. Wind importance factor, IW, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7.

3. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated.

4. The applicable enclosure classifications and, if designing with ASCE 7, internal pressure coefficient.

5. Components and cladding. The design wind pressures in terms of psf (kN/m2) to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional.

5. Provide a separate foundation drawing detailing the areas which will have the continuous 12"x 20" with 2 # 5 bars top and bottom and also show the 16"x 16" cmu piers locations along with the required amount of #5 bars to support and secure these piers. Also show all pier post locations along with the required amount of #5 bars to support and secure these pier posts. Show the method which the addition foundation will be joined to the existing foundation. At the bottom of each 16"x 16" cmu piers a 8" x

8" clean out plate shall be formed for inspection of the concrete placement within the16"x 16" cmu piers. Include the soil bearing capacity for the foundations as designed.

6. Show a typical shear wall section, which includes a typical header straping detail and show the header sizes over the doors and windows opening.

7. Show the method to be used to provide gable end X bracing for a gable trusses.

8. The drawing show an exterior stairs and landings to be constructed provide a detail drawing for the construction of these stairs and landings to comply with the FRC-2004 sections R311.5 Stairways. Include the total rise and run of the stairs with stair treads and risers heights and lengths.

9. Show a detail drawing of the method and connection points which will be used to replace the 4" stud wall with 8"cmu along with the design detail of all load bearing support beams.

10. Show the existing electrical service main panel location along with it's amperage rating and include the additional amperage load which will be need for the addition and renovation.

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

www.floridabuilding.org. Windows, exterior doors, roofing products and garage doors.

12. Meet all provision of the Columbia County Land Development Regulations sections 8.4 and 8.5.

SECTION 8.4 STANDARDS FOR ELEVATED BUILDINGS. New construction or substantial improvements of elevated buildings that include fully enclosed areas formed by foundation and other exterior walls below the base flood elevation shall be designed to preclude finished living space and designed to allow for the entry and exit of floodwaters to automatically equalize hydrostatic flood forces on exterior walls.

1. Designs for complying with this requirement must either be certified by a professional engineer or architect or meet the following minimum criteria:

   a. Provide a minimum two (2) openings having a total net area of not less than one (1) square inch for every square foot of enclosed area subject to flooding;

   b. The bottom of all openings shall be no higher than one (1) foot above grade; and

   c. Openings may be equipped with screens, louvers, valves or other coverings or devices provided they permit the automatic flow of floodwaters in both directions.

2. Electrical, plumbing, and other utility connections are prohibited below the base flood elevation.

3. Access to the enclosed areas shall be the minimum necessary to allow for parking of vehicles (garage door) or limited storage of maintenance equipment used in connection with the premises (standard exterior door) or entry to the living area (stairway or elevator).

4. The interior portion of such enclosed area shall not be partitioned or finished into separate rooms.

SECTION 8.5 STANDARDS FOR FLOODWAYS. Since the floodway is an extremely hazardous area due to the velocity of flood waters which carry debris, potential projectiles and has erosion potential, the following provisions shall apply:

1. Prohibit encroachments, including fill, new construction, substantial improvements and other developments unless certification (with supporting technical data) by a registered professional engineer is provided demonstrating that encroachments shall not result in any increase in flood levels during occurrence of the base flood discharge;

2. All new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of this Article.

3. Prohibit the placement of mobile homes, except in an existing mobile home parks or subdivisions, which existed prior to the adoption of these land development regulations. A replacement mobile home may be placed on a lot in an existing mobile home park or subdivision provided the anchoring and elevation standards established herein are met.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

DISCLOSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THER OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $25,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F .I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

( ) Single Family Dwelling **( ) Two-Family Residence**
( ) Farm Outbuilding **( ) Other_____**
( ) New Construction **( ) Addition, Alteration, Modification or other Improvement**

NEW CONSTRUCTION OR IMPROVEMENT

I_____, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number_____

_____

Signature **Date**

FOR BUILDING USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date_____ Building Official/Representative_____

Heating and Air Conditioning Economic Analysis

For Future / Existing Home Of

Paul Barcia
552 S. W. Manatee Terr.
Ft. White, Fl 32028

Conducted By

Country Comfort Heating & A. C.
278 S. W. Summers Lane
Lake City, Fl 32025
386-752-5841

Wrightsoft Corporation

Note: Actual costs and savings may differ due to weather, operating conditions, maintenance, and construction.

Project Summary
Entire House
Country Comfort Heating & A. C.

Job:
Date: 4-26-06
By: AW

278 S. W. Summers Lane, Lake City, Fl 32025 Phone: 386-752-5841

Project Information

For: Paul Barcia
552 S. W. Manatee Terr., Ft. White, Fl 32028

Notes: Paul Barcia

Design Information

Weather: Jacksonville, Cecil Field NAS, FL, US

Winter Design Conditions

Outside db	*25* °F
Inside db	70 °F
Design TD	45 °F

Summer Design Conditions

Outside db	*97* °F
Inside db	78 °F
Design TD	19 °F
Daily range	M
Relative humidity	50 %
Moisture difference	30 gr/lb

Heating Summary

Structure	20669 Btuh
Ducts	1033 cfm
Central vent (179 cfm)	8847 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	30550 Btuh

Sensible Cooling Equipment Load Sizing

Structure	18735 Btuh
Ducts	937 Btuh
Central vent (179 cfm)	3735 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	1.02
Equipment sensible load	23875 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	1528	1528
Volume (ft³)	12223	12223
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	77	41

Latent Cooling Equipment Load Sizing

Structure	3031 Btuh
Ducts	614 Btuh
Central vent (179 cfm)	3658 Btuh
Equipment latent load	7303 Btuh
Equipment total load	31178 Btuh
Req. total capacity at 0.70 SHR	2.8 ton

Heating Equipment Summary

Make AmStd
Trade Heritage 12
Model 6H2030A

Efficiency	7.7 HSPF
Heating input	
Heating output	29800 Btuh @ 47°F
Temperature rise	25 °F
Actual air flow	1105 cfm
Air flow factor	0.051 cfm/Btuh
Static pressure	0.00 in H2O
Space thermostat	

Cooling Equipment Summary

Make AmStd
Trade Heritage 12
Cond 6H2030A
Coil TWE036P13

Efficiency	12.1 SEER
Sensible cooling	21280 Btuh
Latent cooling	9120 Btuh
Total cooling	30400 Btuh
Actual air flow	1105 cfm
Air flow factor	0.056 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0.76

Bold/italic values have been manually overridden

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Right-J Worksheet
Entire House
Country Comfort Heating & A. C.

Job:
Date: 4-26-06
By: AW

278 S. W. Summers Lane, Lake City, Fl 32025 Phone: 386-752-5841

1	Room name						Entire House				Bedroom 2			
2	Exposed wall						127.0 ft				19.0 ft			
3	Ceiling height						8.0 ft				8.0 ft		heat/cool	
4	Room dimensions										15.0 x 12.0 ft			
5	Room area						1527.8 ft²				180.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0bw	0.091	n	4.09	1.46	280	262	1073	381	96	96	393	140
.	G	1D-c2ob	0.650	n	29.25	20.37	15	0	439	306	0	0	0	0
.	G	7A-1gwnn	0.600	n	27.00	18.36	3	0	81	55	0	0	0	0
.	W	12C-0bw	0.091	e	4.09	1.46	256	234	956	340	56	41	168	60
11	G	1D-c2ob	0.650	e	29.25	59.57	8	1	219	416	0	0	0	0
	G	1D-c2ob	0.650	e	29.25	59.57	15	1	439	857	15	1	439	857
	W	12C-0bw	0.091	s	4.09	1.46	240	205	839	298	0	0	0	0
	G	7A-1gwnn	0.600	s	27.00	23.97	6	6	162	122	0	0	0	0
	G	1D-c2ob	0.650	s	29.25	26.52	8	8	234	179	0	0	0	0
	D	11N0	0.350	s	15.75	10.68	21	21	331	224	0	0	0	0
	W	12C-0bw	0.091	w	4.09	1.46	240	195	799	284	0	0	0	0
	G	1D-c2ob	0.650	w	29.25	59.57	45	3	1316	2571	0	0	0	0
	C	16B-30ad	0.032	-	1.44	1.73	1528	1528	2200	2640	180	180	259	311
	F	22A-tph	1.358	-	61.11	0.00	1528	127	7761	0	180	19	1161	0
6	c) AED excursion									682				121
	Envelope loss/gain								16849	9356			2420	1488
12	a) Infiltration								3820	849			572	127
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					11			2530	2			460
		Appliances @ 1200					5			6000	0			0
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								20669	18735			2992	2075
15	Duct loads						5%	5%	1033	937	5%	5%	150	104
	Total room load								21703	19672			3141	2179
	Air required (cfm)								1105	1105			160	122

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Right-J Worksheet
Entire House
Country Comfort Heating & A. C.

Job:
Date: 4-26-06
By: AW

278 S. W. Summers Lane, Lake City, Fl 32025 Phone: 386-752-5841

1	Room name						Utility Rm					Office			
2	Exposed wall						22.0 ft					31.0 ft			
3	Ceiling height						8.0 ft		heat/cool			8.0 ft		heat/cool	
4	Room dimensions						1.0	x 125.0 ft				1.0	x 260.0 ft		
5	Room area						125.0 ft²					260.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0bw	0.091	n	4.09	1.46	0	0	0	0	144	129	528	188
.	G	1D-c2ob	0.650	n	29.25	20.37	0	0	0	0	15	0	439	306
.	G	7A-1gwnn	0.600	n	27.00	18.36	0	0	0	0	0	0	0	0
.	W	12C-0bw	0.091	e	4.09	1.46	112	112	459	163	0	0	0	0
11	G	1D-c2ob	0.650	e	29.25	59.57	0	0	0	0	0	0	0	0
	G	1D-c2ob	0.650	e	29.25	59.57	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	s	4.09	1.46	64	43	176	63	0	0	0	0
	G	7A-1gwnn	0.600	s	27.00	23.97	0	0	0	0	0	0	0	0
	G	1D-c2ob	0.650	s	29.25	26.52	0	0	0	0	0	0	0	0
	D	11N0	0.350	s	15.75	10.68	21	21	331	224	0	0	0	0
	W	12C-0bw	0.091	w	4.09	1.46	0	0	0	0	104	89	364	130
	G	1D-c2ob	0.650	w	29.25	59.57	0	0	0	0	15	1	439	857
	C	16B-30ad	0.032	-	1.44	1.73	125	125	180	216	260	260	374	449
	F	22A-tph	1.358	-	61.11	0.00	125	22	1344	0	260	31	1894	0
6	c) AED excursion									-186				274
	Envelope loss/gain								2490	480			4039	2203
12	a) Infiltration								662	147			933	207
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @	230				0			0	2			460
		Appliances @	1200				2			2400	0			0
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								3152	3027			4972	2870
15	Duct loads						5%	5%	158	151	5%	5%	249	144
	Total room load								3309	3178			5220	3014
	Air required (cfm)								168	179			266	169

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Right-J Worksheet
Entire House
Country Comfort Heating & A. C.

Job:
Date: 4-26-06
By: AW

278 S. W. Summers Lane, Lake City, Fl 32025 Phone: 386-752-5841

							WIC 0.0 ft 8.0 ft heat/cool 7.0 x 8.0 ft 56.0 ft²				M Bath 10.0 ft 8.0 ft heat/cool 1.0 x 86.0 ft 86.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0bw	0.091	n	4.09	1.46	0	0	0	0	0	0	0	0
.	G	1D-c2ob	0.650	n	29.25	20.37	0	0	0	0	0	0	0	0
.	G	7A-1gwnn	0.600	n	27.00	18.36	0	0	0	0	0	0	0	0
.	W	12C-0bw	0.091	e	4.09	1.46	0	0	0	0	0	0	0	0
11	G	1D-c2ob	0.650	e	29.25	59.57	0	0	0	0	0	0	0	0
	G	1D-c2ob	0.650	e	29.25	59.57	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	s	4.09	1.46	0	0	0	0	80	72	295	105
	G	7A-1gwnn	0.600	s	27.00	23.97	0	0	0	0	0	0	0	0
	G	1D-c2ob	0.650	s	29.25	26.52	0	0	0	0	8	8	234	179
	D	11N0	0.350	s	15.75	10.68	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	w	4.09	1.46	0	0	0	0	0	0	0	0
	G	1D-c2ob	0.650	w	29.25	59.57	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.44	1.73	56	56	81	97	86	86	124	149
	F	22A-tph	1.358	-	61.11	0.00	56	0	0	0	86	10	611	0
6	c) AED excursion									-6				-29
	Envelope loss/gain								81	91			1264	403
12	a) Infiltration								0	0			301	67
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances @ 1200					0			0	0			0
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								81	91			1565	470
15	Duct loads						5%	5%	4	5	5%	5%	78	24
	Total room load								85	96			1643	494
	Air required (cfm)								4	5			84	28

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Right-J Worksheet
Entire House
Country Comfort Heating & A. C.

Job:
Date: 4-26-06
By: AW

278 S. W. Summers Lane, Lake City, Fl 32025 Phone: 386-752-5841

							Master Bedroom 29.0 ft 8.0 ft heat/cool 17.0 x 12.0 ft 204.0 ft²				Kitchen 11.0 ft 8.0 ft heat/cool 1.0 x 117.8 ft 117.8 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
1	Room name													
2	Exposed wall													
3	Ceiling height													
4	Room dimensions													
5	Room area													
6	W	12C-0bw	0.091	n	4.09	1.46	0	0	0	0	0	0	0	0
.	W-G	1D-c2ob	0.650	n	29.25	20.37	0	0	0	0	0	0	0	0
.	W-G	7A-1gwnn	0.600	n	27.00	18.36	0	0	0	0	0	0	0	0
.	W	12C-0bw	0.091	e	4.09	1.46	0	0	0	0	88	81	330	117
11	W-G	1D-c2ob	0.650	e	29.25	59.57	0	0	0	0	8	1	219	416
	W-G	1D-c2ob	0.650	e	29.25	59.57	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	s	4.09	1.46	96	90	369	131	0	0	0	0
	W-G	7A-1gwnn	0.600	s	27.00	23.97	6	6	162	122	0	0	0	0
	W-G	1D-c2ob	0.650	s	29.25	26.52	0	0	0	0	0	0	0	0
	W-D	11N0	0.350	s	15.75	10.68	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	w	4.09	1.46	136	106	434	154	0	0	0	0
	W-G	1D-c2ob	0.650	w	29.25	59.57	30	2	877	1714	0	0	0	0
	C	16B-30ad	0.032	-	1.44	1.73	204	204	294	353	118	118	170	204
	F	22A-tph	1.358	-	61.11	0.00	204	29	1772	0	118	11	672	0
6	c) AED excursion									791				-172
	Envelope loss/gain								3908	3265			1391	566
12	a) Infiltration								872	194			331	74
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					2			460	1			230
		Appliances @ 1200					0			0	3			3600
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								4780	3919			1722	4469
15	Duct loads						5%	5%	239	196	5%	5%	86	223
	Total room load								5019	4115			1808	4693
	Air required (cfm)								256	231			92	264

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Right-J Worksheet
Entire House
Country Comfort Heating & A. C.

Job:
Date: 4-26-06
By: AW

278 S. W. Summers Lane, Lake City, Fl 32025 Phone: 386-752-5841

1	Room name						Dining Rm				Bath 2				
2	Exposed wall						0.0 ft				5.0 ft				
3	Ceiling height						8.0 ft		heat/cool		8.0 ft		heat/cool		
4	Room dimensions						10.0 x 12.0 ft				11.0 x 5.0 ft				
5	Room area						120.0 ft²				55.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0bw	0.091	n	4.09	1.46	0	0	0	0	40	37	152	54	
.	G	1D-c2ob	0.650	n	29.25	20.37	0	0	0	0	0	0	0	0	
.	G	7A-1gwnn	0.600	n	27.00	18.36	0	0	0	0	3	0	81	55	
.	W	12C-0bw	0.091	e	4.09	1.46	0	0	0	0	0	0	0	0	
11	G	1D-c2ob	0.650	e	29.25	59.57	0	0	0	0	0	0	0	0	
	G	1D-c2ob	0.650	e	29.25	59.57	0	0	0	0	0	0	0	0	
	W	12C-0bw	0.091	s	4.09	1.46	0	0	0	0	0	0	0	0	
	G	7A-1gwnn	0.600	s	27.00	23.97	0	0	0	0	0	0	0	0	
	G	1D-c2ob	0.650	s	29.25	26.52	0	0	0	0	0	0	0	0	
	D	11N0	0.350	s	15.75	10.68	0	0	0	0	0	0	0	0	
	W	12C-0bw	0.091	w	4.09	1.46	0	0	0	0	0	0	0	0	
	G	1D-c2ob	0.650	w	29.25	59.57	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.44	1.73	120	120	173	207	55	55	79	95	
	F	22A-tph	1.358	-	61.11	0.00	120	0	0	0	55	5	306	0	
6	c) AED excursion									-12				-14	
	Envelope loss/gain								173	195			617	190	
12	a) Infiltration								0	0			150	33	
	b) Room ventilation								0	0			0	0	
13	Internal gains:	Occupants @ 230					0			0	0			0	
		Appliances @ 1200					0			0	0			0	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								173	195			768	224	
15	Duct loads						5%	5%	9	10	5%	5%	38	11	
	Total room load								181	205			806	235	
	Air required (cfm)								9	12			41	13	

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Right-J Worksheet
Entire House
Country Comfort Heating & A. C.

Job:
Date: 4-26-06
By: AW

278 S. W. Summers Lane, Lake City, Fl 32025 Phone: 386-752-5841

1	Room name					Living Rm									
2	Exposed wall					0.0 ft									
3	Ceiling height					8.0 ft				heat/cool					
4	Room dimensions					18.0	x	18.0 ft							
5	Room area					324.0 ft²									
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area or perimeter		Load	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0bw	0.091	n	4.09	1.46	0	0	0	0				
.	G	1D-c2ob	0.650	n	29.25	20.37	0	0	0	0				
.	G	7A-1gwnn	0.600	n	27.00	18.36	0	0	0	0				
.	W	12C-0bw	0.091	e	4.09	1.46	0	0	0	0				
11	G	1D-c2ob	0.650	e	29.25	59.57	0	0	0	0				
	G	1D-c2ob	0.650	e	29.25	59.57	0	0	0	0				
	W	12C-0bw	0.091	s	4.09	1.46	0	0	0	0				
	G	7A-1gwnn	0.600	s	27.00	23.97	0	0	0	0				
	G	1D-c2ob	0.650	s	29.25	26.52	0	0	0	0				
	D	11N0	0.350	s	15.75	10.68	0	0	0	0				
	W	12C-0bw	0.091	w	4.09	1.46	0	0	0	0				
	G	1D-c2ob	0.650	w	29.25	59.57	0	0	0	0				
	C	16B-30ad	0.032	-	1.44	1.73	324	324	467	560				
	F	22A-tph	1.358	-	61.11	0.00	324	0	0	0				
6	c) AED excursion									-86				
	Envelope loss/gain								467	474				
12	a) Infiltration								0	0				
	b) Room ventilation								0	0				
13	Internal gains:	Occupants @ 230					4			920				
		Appliances @ 1200					0			0				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								0	0				
14	Subtotal								467	1394				
15	Duct loads						5%	5%	23	70				
	Total room load								490	1464				
	Air required (cfm)								25	82				

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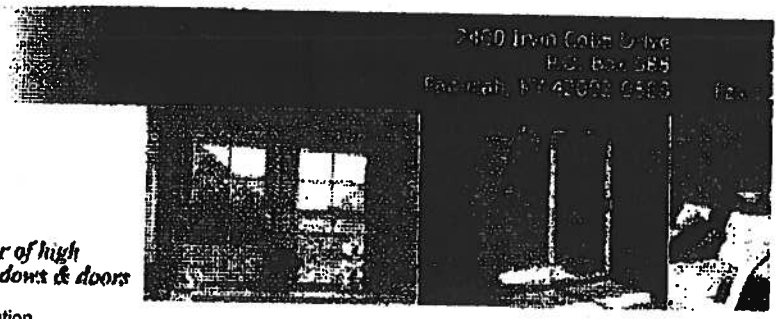


ViWinTech Windows & Doors

A quality manufacturer of high performance vinyl windows & doors

Installation Guide for New Construction Windou

NOTE:CONSULT LOCAL BUILDING CODES PRIOR TO INSTALLATION

FOR INSTALLATION IN FRAME WALLS

1. Make certain rough opening (R.O) dimensions are correct. R.O. width and height must not exceed the window size by more than 1/2".

2. R.O. must be plumb, level and square.

3. For operable units, make certain sash is closed and locked.

4. Apply a continuous 1/4" bead of silicon caulk to the backside of the

5. From the outside, center the window in opening, leaving 1/4" space on each side.

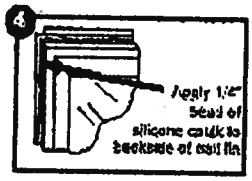
6. Nail one top corner first, through the prepunched slot. Then level with shims, as required. USE ROOFING NAILS THAT WILL PENETRATE 1" INTO THE WALL STUD AND HEADER.
NOTE: METAL STUDS REQUIRE THE USE OF CORROSION-RESISTANT #6 FASTENERS WITH A PAN-TYPE HEAD AND SHARP POINT.THE FASTENER MUST PENETRATE THROUGH THE METAL STUD BY 1/4".

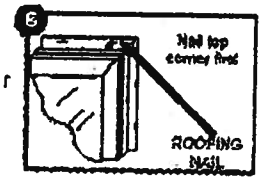
7. Shim and adjust window as necessary to achieve a plumb, square and level condition. An even sash reveal around window frame should be evident, Nail two remaining corners.Units over 36" in width require blocking under the window sill.(MULLED UNITS : Also place shims under mulls at sill for support and to keep straight and level).

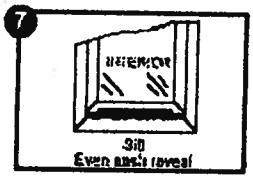
8. Starting inward 2" to 3" from each corner, nail head and jambs of window only through every other pre-punched slot.

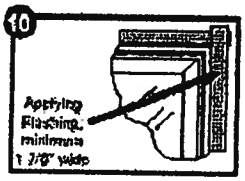
9. Check operation of window to verify proper installation.

10.Apply flashing such as roofing felt, aluminum, etc. along sill edge behind the nailing fin first, then nail sill









OTHER ITEMS TO BE AWARE OF:

a. If applying exterior, window casing, leav between frame and trim for expansion.

b. Do not drill through sill to install alarm w

c. For the frame and sash cleaning, use a window cleaner or mild detergent solution cloth. Use a lint-free cloth and common wi for cleaning glass.

edge of window. Continue flashing over the nail fin along jambs followed by the head to ensure watertight seal.

11.Place strips of fiberglass insulation (or equivalent) between window frame and rough opening. Be careful not to overpack.

FOR INSTALLATION IN MASONRY & BRICK VENEER WALLS
1. When using wood bucks, follow procedure as in frame walls.

a. Provide a 1/4" minimum clearance between the window frame perimeter and brick.

b. Fill void with silicone caulk.

IMPORTANT: DO NOT USE EXPANDIN(IN TYPE FOAMS. THEY WILL DISTORT WINDOW FRAME, CAUSING OPERATI PERFORMANCE PROBLEMS.

Installation Guide for Replacement Windows

Read these instructions completly before beginning work.

Caution: Always make sure the dimensions of the new replacement windows are correct before removing the old window or wood sashes.

Wood Removal
Depending on existing window style, remove sash and balance system (Pulley, Jamb, Liner, etc...)

1. Remove sash bead. Score first with a razor knife and use special care in removal if the existing sash bead is to be reinstalled.

2. Cut cords and remove lower sash.

3. Remove parting bead, cut cords, and remove upper sash.

4. Remove or pound in pulley on both sides of opening

Clean up after Installation

1. Make sure window operates properly.

2. Clean the inside and outside glass surfaces with glass cleaner; clean vinyl parts with soap and water.

3. Remove all debris from job site.

4. Demonstrate proper window operation for the homeowner.

Installation Procedures

1. Only if window unit is very large or over remove both sash and screen from the ma

2. Window can be installed with or without expander. If using a head expander, seal expander and fasten with nails or screws t minimum 3/4" solid lumber. Some window 3/8" vinyl flanges that extend past the bod window frame. The vinyl flanges can be tri block plane to accommodate an out-of-squ smaller than desired opening.

3. Clean the opening of dirt and debris, th stops and sill.

4. Wrap insulation around window (this ca purchased as an option already applied).

5. Insert the window into the opening and tightly against the caulked stops and sill.

6. Use a level and square to make sure th level, square, and plumb, regardless of th of the opening.

7. Run until just snug all four installation s top two, then the bottom two, centering th side to side and checking to be sure the fr square. Temporarily shimming each corne the screws helps to keep the frame center square.

8. Adjust jamb alignment screws (if includ windows) on the side of each jamb height jamb height is straight and the opening at the main frame measures the same as the the top and bottom.

9. If window has jamb shim pads, shim wi needed making sure window unit is squar Do not over or under tighten screws.

10. Measure the space where the sill exte used. Trim sill extension as needed, then extension into the accessory groove on th

11. If sashes and screen were removed in screen and both sashes. Check for proper locking, and fit, make adjustments as nec

12. Complete necessary exterior trim and weather tight seal

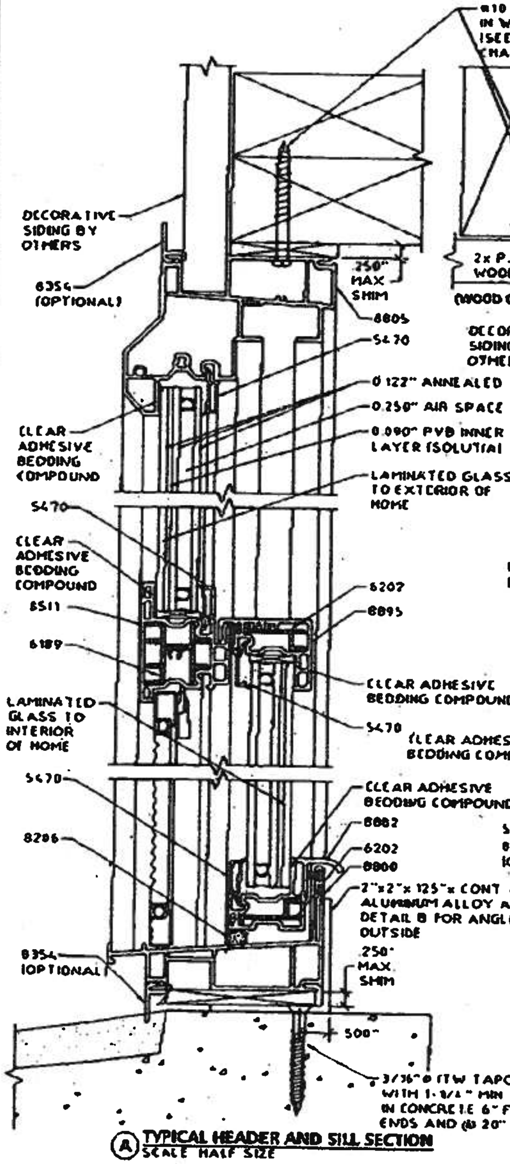
IMPORTANT: Extra care should be exercised to avoid damage to windows before, during and after installation. When handling windows, always lift at jambs for added safety and prevention of component damage. Prior to installation, store windows in a near vertical position, never lay flat. Always protect from outside elements when storing or transporting. ViWinTech assumes no responsibility for the consequences of inadequate or improper installation or lack of product care.

WARNING: ViWinTech windows are mad annealed glass and are not provided with unless specifically ordered. Broken Glass and cause personal injury. Many laws and codes require safety glass to be used in c conditions. It is the sole responsibility of th architect, builder and/or contractor to dete need for safety glazing to conform to local

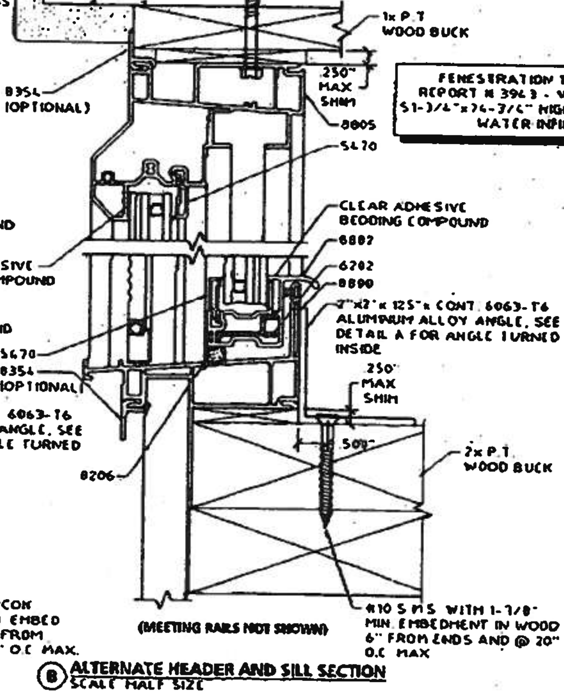
Print Information: P:\FLI\Projects\KK5492.00\Drawings\RO-sub\05-492-02.dwg MContu 09/15/2005 03:16:24pm

09/14/05 10:20

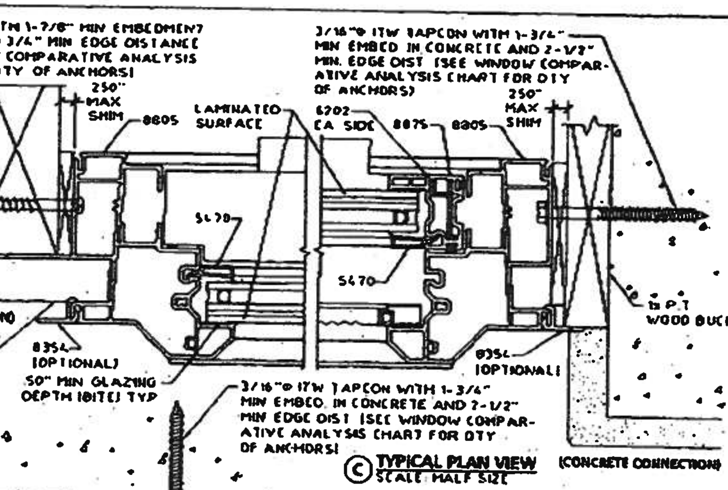
FL Product Approval # FL 1909-R1



(A) TYPICAL HEADER AND SILL SECTION
SCALE HALF SIZE

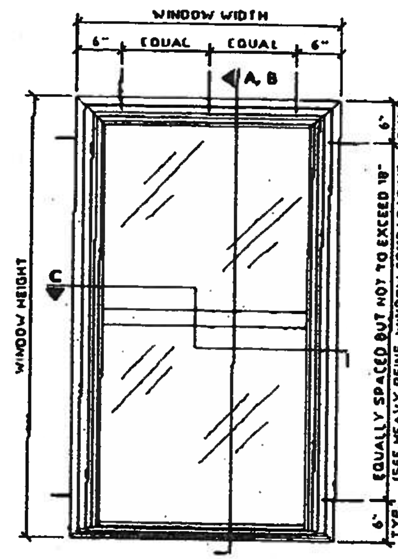


(B) ALTERNATE HEADER AND SILL SECTION
SCALE HALF SIZE



(C) TYPICAL PLAN VIEW
SCALE HALF SIZE

FENESTRATION TESTING LABORATORY INC
REPORT # 3943 - VINYL SH IMPACT WINDOW DX
51-3/4"x74-3/4" HIGH - DESIGN LOAD = ± 50.0 P.S.F.
WATER INFILTRATION = 7.5 P.S.F.



(D) TYPICAL ELEVATION
SCALE: 3/4" = 1'-0"

STANDARD REINFORCED IMPACT WINDOW COMPARATIVE ANALYSIS CHART
THREE 1/8" (0.120") ANNEALED INSULATED AND 0.090" PVB INNERLAYER GLASS WITH FLANGE JAMB & REINFORCED MEETING AND VENT RAILS

WINDOW DIMENSIONS		DESIGN LOAD CAPACITY - PSF					
		WOOD SCREWS (2x WOOD BUCK)			ITW TAPCONS (1x WOOD BUCK)		
WIDTH (INCHES)	HEIGHT (INCHES)	QTY. OF SCREWS	POSITIVE	NEGATIVE	QTY. OF SCREWS	POSITIVE	NEGATIVE
18-1/8	25	3	50.0	211.0	3	50.0	212.0
	37-3/8	4	50.0	188.9	4	50.0	189.0
	49-5/8	5	50.0	177.9	4	50.0	143.0
	62	6	50.0	170.0	4	50.0	116.4
	75	7	50.0	164.0	5	50.0	118.2
25-1/2	25	3	50.0	150.6	3	50.0	151.3
	37-3/8	4	50.0	134.3	4	50.0	134.9
	49-5/8	5	50.0	126.4	5	50.0	127.0
	62	6	50.0	121.6	6	50.0	122.0
	75	7	50.0	117.1	7	50.0	117.7
36	25	3	50.0	106.6	3	50.0	107.2
	37-3/8	4	50.0	95.1	4	50.0	95.6
	49-5/8	5	50.0	89.5	5	50.0	90.0
	62	6	50.0	86.0	6	50.0	86.4
	75	7	50.0	82.9	7	50.0	83.3
52	25	3	50.0	73.8	3	50.0	74.2
	37-3/8	4	50.0	65.8	4	50.0	66.2
	49-5/8	6	50.0	63.5	5	50.0	62.3
	62	6	50.0	55.9	6	50.0	55.1
	75	7	50.0	50.0	7	50.0	50.0

FLORIDA BUILDING CODE, 2004

revisions

date 09/14/2005 — scale AS NOTED — drawing no. 05-492 — sheet 2 of 2

SINGLE HUNG IMPACT WINDOW

VINTECH — 2400 Irvin Cobb Dr. Paducah, KY 42003

Thornton-Tomasetti Group
330 N. Andrews Ave., Suite 450 · Ft. Lauderdale, FL 33301 · Website: www.TheTTGroup.com

PRODUCT SPECIFIC CONDITIONS

1. DESCRIPTION OF PRODUCT

1.1 UNIT TYPE
- 1.1.1 FLANGE FRAME VINYL SINGLE HUNG IMPACT WINDOW
- 1.1.2 FIN FRAME VINYL SINGLE HUNG IMPACT WINDOW

1.2 MODEL DESIGNATION
- SERIES: SH-IMPACT (FLANGE OR FIN FRAME)

1.3 OVERALL SIZES (LARGEST TESTED UNIT)
- 1.3.1 FLANGE: 51-3/4" WIDE X 74-3/4" HIGH
- 1.3.2 FIN: 51-3/4" WIDE X 74-3/4" HIGH

1.4 CONFIGURATION: O/X

1.5 NO. & SIZE OF VENTS (LARGEST TESTED UNIT)
- 1.5.1 FLANGE: 48.625" WIDE X 38.3375" HIGH
- 1.5.2 FIN: 48.625" WIDE X 38.3375" HIGH

2. MATERIAL CHARACTERISTICS:

2.1 FRAME & VENT MATERIAL: RIGID POLY VINYL CHLORIDE (PVC) (see specific extrusion type)

2.2 GLAZING:
- 2.2.1 GLAZING MATERIAL: 1/8" ANNEALED GLASS, 0.090" PVB INTERLAYER, GLASS 1/8" ANNEALED GLASS, 3/4" AIRSPACE, 1/8" ANNEALED 0.090" PVB INTERLAYER - [illegible]
- 2.2.2 GLAZING METHOD: EXTERIOR GLAZED USING A COLORED STRUCTURAL SILICONE SEALANT BEDDING COMPOUND (DOW CORNING 995) AND PVC SNAP GLAZING BEAD (5470)
- 2.2.3 DAYLIGHT OPENING SIZE: (LARGEST TESTED UNIT)
  - FIXED LIGHT: 46.250" WIDE X 40.8625" HIGH
  - OPERABLE VENT: 46.250" WIDE X 27.0125" HIGH

2.3 FRAME CONSTRUCTION: ALL PVC SECTIONS (0.065" typ wall) EACH CORNER SECURED BY MITER AND CORNER WELD CONSTRUCTION. VINYL FLANGE AND FIN FRAMES MEASURED 51-3/4" WIDE X 74-3/4" HIGH (LARGEST TESTED UNIT)

		Extrusion Type	Dimensions
2.3.1	FLANGE HEAD:	HOLLOW	2.880" ext. face x 2.383" int. face x 3.625" deep (DWG # 8805)
	FIN HEAD:	HOLLOW	2.880" ext. face x 2.383" int. face x 3.625" deep (DWG # 8805)
2.3.2	FLANGE JAMBS:	HOLLOW	2.880" ext. face x 2.383" int. face x 3.135" deep (DWG # 8805)
	FIN JAMBS:	HOLLOW	2.880" ext. face x 2.383" int. face x 3.615" deep (DWG # 8805)
2.3.3	FLANGE SILL:	HOLLOW	0.891" ext. face x 2.389" int. face x 3.550" deep (DWG # 8800)
	FIN SILL:	HOLLOW	0.891" ext. face x 2.389" int. face x 3.590" deep (DWG # 8800)
2.3.4	MEETING RAIL:	HOLLOW	2.118" ext. face x [illegible] int. face x 1.524" deep (DWG # 5311)

2.4 VENT CONSTRUCTION: ALL PVC SECTIONS SECURED IN CORNERS BY MITER AND CORNER WELD

		Extrusion Type	Dimensions
2.4.1	TOP RAIL:	HOLLOW	0.625" ext. face x 1.250" int. face x 1.564" deep (DWG # 8795)
2.4.2	BOTTOM RAIL:	HOLLOW	0.625" ext. face x 1.250" int. face x 1.925" deep (DWG # 8802)
2.4.3	JAMB RAIL:	HOLLOW	0.625" ext. face x 1.250" int. face x 1.300" deep (DWG # 8815)

2.5 WEATHER STRIPPING:

	QTY:	Description	Location
2.5.1	Single Row	0.384" x 0.398" Vinyl Bulb w/fin	At vent bottom rail
2.5.2	Single Row	woolpile 0.187" x 0.290" w/integral plastic fin	Frame sill
2.5.3	Single Row	woolpile 0.187" x 0.290" w/integral plastic fin	Sash top rail exterior
2.5.4	Single Row	woolpile 0.187" x 0.290" w/integral plastic fin	At each vent jamb rail

2.6 HARDWARE:

	QTY:	Description	Location
2.6.1	TWO	Constant Force Coil Spring Balance - Ashland Hdw	1 each at jambs
2.6.2	TWO	Balance Shoe and spring cover	1 each at jambs
2.6.3	TWO	Pivot Bar	1 at each end of vent bottom
2.6.4	TWO	Positive Action push button lock	2 located on vent top rail
2.6.5	TWO	Keepers for sash lock	2 located on meeting rail
2.6.6	TWO	Meeting rail anchor	1 at each end of meeting rail
2.6.7	TWO	Surface Mount Impact Tilt Latches	1 at each vent top rail
2.6.8	TWO	Impact tilt latch "F" leg	1 mounted above each balance spring cover

2.7 WEEP HOLES:

	QTY:	Description	Location
2.7.1	TWO	1" WEEP NOTCH	1 at each end of sill in corner

2.8 REINFORCEMENT:

	QTY:	Extrusion Type	Part/Dwg #	Location:
2.8.1	TWO	SOLID	6202	1 in each horiz. component of vent
2.8.2	TWO	SOLID	6202	1 in each vert. component of vent
2.8.3	ONE	SOLID	6203	1 inside meeting rail

2.9 GLAZING METHOD:
- 2.9.1 All specimens interior glazed with Dow Corning 995 back-bedding compound and vinyl snap in glazing bead (5470). Interior side of glass glazed with extended PVC glass stop with a fin gasket. The interior stop was fitted into the frame without sealant.

BILL OF MATERIALS

ASS'Y NAME	DESCRIPTION	WIDTH (IN.)	HEIGHT (IN.)	PCS/UNIT	DESCRIPTION
SINGLE HUNG SH #3		51.75	74.75		
BTM SASH		48.625	38.3125		
17510-991	PIVOT BARS			2	ASHLAND HDWE OR SIMILAR
5470	SNAP GLAZE BEAD		29.0625	2	DAYTON TECH
5471	SNAP GLAZE BEAD	46.313		2	DAYTON TECH
6202	SASH REINFORCE (H)	45.625		2	ALCOA
6202	SASH REINFORCE (V)		29.3125	2	ALCOA
1310L	IMPACT TILT LATCH			1	[illegible] DESIGN GROUP
1310R	IMPACT TILT LATCH			1	[illegible] DESIGN GROUP
8706	SILL [illegible]	48.625		1	DAYTON TECH
8802	SASH [illegible] RAIL	45.625		1	DAYTON TECH
0.187 X 0.290 WHITE W/FIN		*PRE-EXTRUDED IN PROFILE			SCHLEGEL
8795	SASH LOCK RAIL	45.625		1	DAYTON TECH
0.187 X 0.290 WHITE W/FIN		*PRE-EXTRUDED IN PROFILE			SCHLEGEL
8815	SASH STILES		30.3125	2	DAYTON TECH
0.187 X 0.290 WHITE W/FIN		*PRE-EXTRUDED IN PROFILE			SCHLEGEL
LAMINATED GLASS IG UNIT	SASH GLASS	47.25	29.8125		1/8" ANN 0.090" PVB INTER/ 1/8" ANN
		0.785" OR 11/16" AIR SPACE			1/4" AIR / 1/8" ANN
		SOLUTIA/LAMINATED BY [illegible] GLASS, INC.			
18605	PUSH BUTTON LOCK			2	[illegible] HARDWARE
[illegible]	SASH LOCK			4	HENDRICKS OR SIMILAR
[illegible]	SH KEEPER			4	HENDRICKS OR SIMILAR
[illegible]	PIVOT BARS			4	HENDRICKS OR SIMILAR
DOW CORNING 995	BACK BED SEALANT				DOW CORNING
FRAME		51.75	74.75		
13008	[illegible] KEEPER			2	ASHLAND HDWE OR SIMILAR
5470	SNAP GLAZE BEAD		41.3125	2	DAYTON TECH
5471	SNAP GLAZE BEAD	46.313		2	DAYTON TECH
6203	MEETING RAIL REINF.	46.063		2	DAYTON TECH
79563	MEETING RAIL ANCHOR			1	[illegible]
8531	MEETING RAIL	48.125		2	ASHLAND HDWE OR SIMILAR
8800	SILL FRAME	51.75		1	DAYTON TECH
8805	HEAD FRAME SH/FIN		74.75	2	DAYTON TECH
8805	HEAD FRAME SH/FIN	51.75		1	DAYTON TECH
LAMINATED GLASS IG UNIT	SASH GLASS	47.25	41.0625		1/8" ANN 0.090" PVB INTER/ 1/8" ANN
		0.785" OR 11/16" AIR SPACE			1/4" AIR / 1/8" ANN
		SOLUTIA/LAMINATED BY [illegible] GLASS, INC.			
[illegible]	BALANCE SCREW			2	HENDRICKS OR SIMILAR
DOW CORNING 995	BACK BED SEALANT				DOW CORNING
COIL SPRING BALANCE	CONSTANT FORCE BAL.			2	ASHLAND HARDWARE
[illegible]	F-CLIP FOR [illegible] IMPACT			1	[illegible] DESIGN GROUP
[illegible]	F-CLIP FOR [illegible] IMPACT			1	[illegible] DESIGN GROUP

GENERAL NOTES:

1. THIS WINDOW SYSTEM HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) 2004 CHAPTER [illegible], UNDER THE SPECIFIC CONDITIONS SHOWN OF THIS DRAWING. COMPLIES WITH ASTM [illegible], ASTM [illegible], [illegible] IMPACT RESISTANT.
2. [illegible] 2 x WOOD BUCKS SHALL BE INSTALLED [illegible] SO THAT THE BUILDING RESISTS THE [illegible] LOADS IN ACCORDANCE WITH REQUIREMENTS OF THE 2004.
3. ANCHOR CONDITIONS NOT DESCRIBED IN THIS DRAWING ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS.
4. [illegible] WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7-98, A DIRECTIONALITY FACTOR OF KD = 0.85 WAS BE USED.
5. [illegible]
6. THESE PRODUCT EVALUATION DOCUMENTS ARE PREPARED BY THE PRODUCT ENGINEER AND ARE GENERIC. THEY DO NOT INCLUDE INFORMATION PREPARED FOR A SPECIFIC SITE.
7. THESE PRODUCT EVALUATION DOCUMENTS ARE NOT VALID FOR PERMIT WITHOUT ORIGINAL SIGNATURE, DATE + RAISED SEAL ON EACH PERMIT COPY. THIS ORIGINAL SIGNATURE AND SEAL REQUIREMENT IS APPLICABLE WHETHER OR NOT A MASTER APPROVAL DOCUMENT IS ON FILE WITH A MUNICIPALITY OR OTHER GOVERNING AGENCY.
8. THESE PRODUCT EVALUATION DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THE EXISTING STRUCTURE IS CAPABLE OF SUPPORTING THE LOADS.
9. WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT. IF THE DEVIATING SITE SPECIFIC DOCUMENTS ARE PREPARED BY A DELEGATED FLORIDA REGISTERED ENGINEER OR ARCHITECT, SAID DOCUMENTS SHALL BEAR THE DATE, SIGNATURE, AND ORIGINAL SEAL OF THE DELEGATED ENGINEER OR ARCHITECT AND SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW.
10. WHERE THE CONTRACTOR OR THE BUILDING OFFICIAL REQUIRES DOCUMENTS FOR SITE SPECIFIC APPLICATION, THESE DOCUMENTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT FOR SAID APPLICATION.
11. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED.
12. [illegible] GLASS MAY BE USED IN LIEU OF ANNEALED GLASS.

Thornton-Tomasetti Group
[illegible] Andrews Ave. Suite 430 Ft. Lauderdale, FL 33301
Tel. (954) 525-3690 · Fax (954) 525-3691 · COA # 7319
Website: www.TheTTGroup.com

SINGLE HUNG IMPACT WINDOW

WinTech Windows & Doors
2400 Irvin Cobb Dr.
Paducah, KY 42003

FLORIDA BUILDING CODE, 2004

revisions			
no.	date	by	description

date: 09/14/2005
drawing no. 05-492
sheet 1 of 2

FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM

ELEVATION CERTIFICATE

O.M.B. No. 3067-0077
Expires July 31, 2002

24624

Important: Read the instructions on pages 1 - 7.

SECTION A - PROPERTY OWNER INFORMATION

BUILDING OWNER'S NAME: BARCIA, PAUL	For Insurance Company Use:
BUILDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO.: 552 SW MANATEE	Policy Number
CITY: FT. WHITE STATE: FL ZIP CODE: 32038	Company NAIC Number

PROPERTY DESCRIPTION (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.): LOT 3 UNIT 2 THREE RIVER EST. 00-00-00-005 0

BUILDING USE (e.g., Residential, Non-residential, Addition, Accessory, etc. Use a Comments area, if necessary.): RESIDENTS

LATITUDE/LONGITUDE (OPTIONAL) (##° - ##' - ##.##" or ##.#####°) HORIZONTAL DATUM: ☐ NAD 1927 ☐ NAD 1983 SOURCE: ☐ GPS (Type): ☐ USGS Quad Map ☐ Other:

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP COMMUNITY NAME & COMMUNITY NUMBER	B2. COUNTY NAME	B3. STATE
COLUMBIA 120070	COLUMBIA	FL.

B4. MAP AND PANEL NUMBER	B5. SUFFIX	B6. FIRM INDEX DATE	B7. FIRM PANEL EFFECTIVE/REVISED DATE	B8. FLOOD ZONE(S)	B9. BASE FLOOD ELEVATION(S) (Zone AO, use depth of flooding)
120070 0259	B	JAN 6, 88	JAN 6, 1988	AE	35

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other (Describe):

B11. Indicate the elevation datum used for the BFE in B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe):

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date:

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Building Diagram Number 5 (Select the building diagram most similar to the building for which this certificate is being completed - see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)

C3. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO
Complete Items C3.a-i below according to the building diagram specified in Item C2. State the datum used. If the datum is different from the datum used for the BFE in Section B, convert the datum to that used for the BFE. Show field measurements and datum conversion calculation. Use the space provided or the Comments area of Section D or Section G, as appropriate, to document the datum conversion.
Datum NGVD 29 Conversion/Comments NA
Elevation reference mark used SITE BM Does the elevation reference mark used appear on the FIRM? ☐ Yes ☒ No

☐ a) Top of bottom floor (including basement or enclosure)	40.3	ft.(m)
☐ b) Top of next higher floor	47.3	ft.(m)
☐ c) Bottom of lowest horizontal structural member (V zones only)	____	ft.(m)
☐ d) Attached garage (top of slab)	30.0	ft.(m)
☐ e) Lowest elevation of machinery and/or equipment servicing the building (Describe in a Comments area.)	NA	ft.(m)
☐ f) Lowest adjacent (finished) grade (LAG)	28.0	ft.(m)
☐ g) Highest adjacent (finished) grade (HAG)	29.0	ft.(m)
☐ h) No. of permanent openings (flood vents) within 1 ft. above adjacent grade	NA	
☐ i) Total area of all permanent openings (flood vents) in C3.h	NA	sq. in. (sq. cm)

License Number, Embossed Seal, Signature, and Date

William Kitch.
PSM 5490
8-24-2006

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information.
I certify that the information in Sections A, B, and C on this certificate represents my best efforts to interpret the data available.
I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME: WILLIAM N. KITCHEN LICENSE NUMBER: PSM 5490
TITLE: PROFESSIONAL SURVEYOR COMPANY NAME: WILLIAM N. KITCHEN PS
ADDRESS: 152 N MARION AVE CITY: LAKE CITY STATE: FL ZIP CODE: 32055
SIGNATURE: William N. Kitchen DATE: 8-24-2006 TELEPHONE: (386) 755-7786

IMPORTANT: In these spaces, copy the corresponding information from Section A.	For Insurance Company Use:
BUILDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO.	Policy Number
CITY STATE ZIP CODE	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

COMMENTS

☐ Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zone AO and Zone A (without BFE), complete Items E1. through E4. If the Elevation Certificate is intended for use as supporting information for a LOMA or LOMR-F, Section C must be completed.

E1. Building Diagram Number _____ (Select the building diagram most similar to the building for which this certificate is being completed – see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)

E2. The top of the bottom floor (including basement or enclosure) of the building is ☐☐ ft.(m) ☐☐ in.(cm) ☐ above or ☐ below (check one) the highest adjacent grade. (Use natural grade, if available.)

E3. For Building Diagrams 6-8 with openings (see page 7), the next higher floor or elevated floor (elevation b) of the building is ☐☐ ft.(m) ☐☐ in.(cm) above the highest adjacent grade. Complete Items C3.h and C3.i on front of form.

E4. For Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, C (Items C3.h and C3.i only), and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, C, and E are correct to the best of my knowledge.*

PROPERTY OWNER'S OR OWNER'S AUTHORIZED REPRESENTATIVE'S NAME

ADDRESS CITY STATE ZIP CODE

SIGNATURE DATE TELEPHONE

COMMENTS

☐ Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below.

G1. ☐ The information in Section C was taken from other documentation that has been signed and embossed by a licensed surveyor, engineer, or architect who is authorized by state or local law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4-G9) is provided for community floodplain management purposes.

G4. PERMIT NUMBER	G5. DATE PERMIT ISSUED	G6. DATE CERTIFICATE OF COMPLIANCE/OCCUPANCY ISSUED

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building is: _____ . ___ ft.(m) Datum: _____

G9. BFE or (in Zone AO) depth of flooding at the building site is: _____ . ___ ft.(m) Datum: _____

LOCAL OFFICIAL'S NAME TITLE

COMMUNITY NAME TELEPHONE

SIGNATURE DATE

COMMENTS

☐ Check here if attachments

DIAGRAM 5

All buildings elevated on piers, posts, piles, columns, or parallel shear walls. No obstructions below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is open, with no obstruction to flow of flood waters (open lattice work and/or readily removable insect screening is permissible).

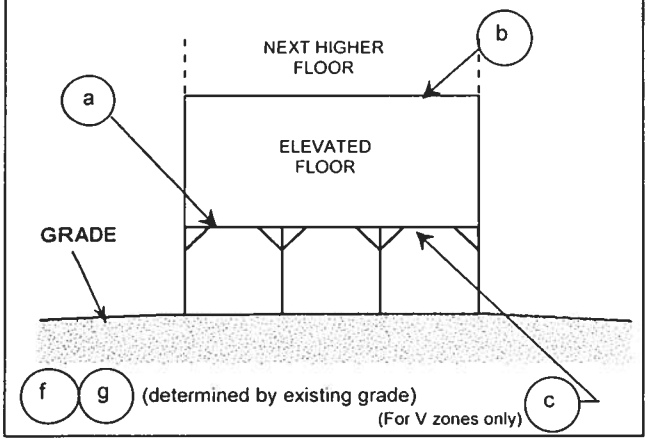


DIAGRAM 6

All buildings elevated on piers, posts, piles, columns, or parallel shear walls with full or partial enclosure below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about openings in Section C, Building Elevation Information (Survey Required).

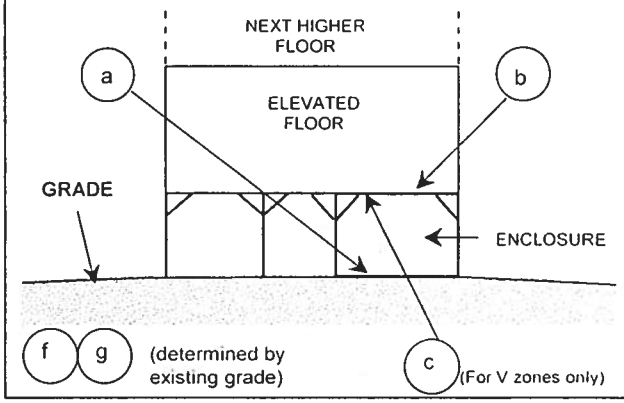


DIAGRAM 7

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least one side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about openings in Section C, Building Elevation Information (Survey Required).

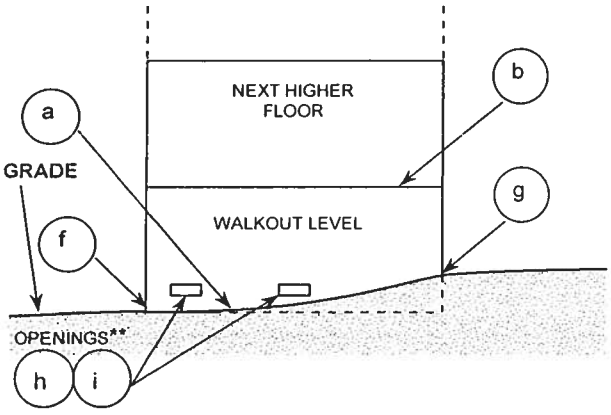
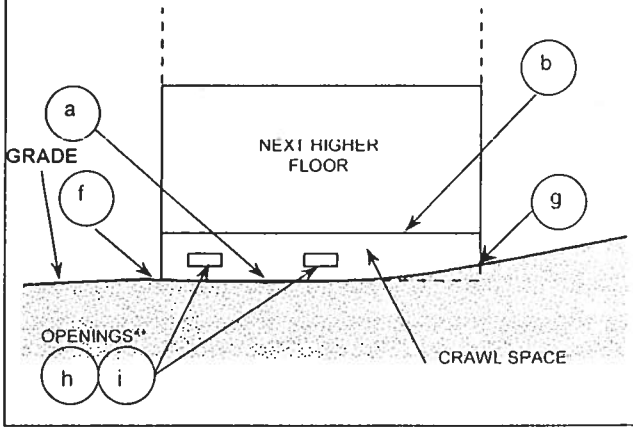


DIAGRAM 8

All buildings elevated on a crawl space with the floor of the crawl space at or above grade on at least one side, with or without an attached garage.

Distinguishing Feature – For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawl space is with or without openings** present in the walls of the crawl space. Indicate information about the openings in Section C, Building Elevation Information (Survey Required).



** An "opening" (flood vent) is defined as a permanent opening in a wall that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of two openings is required for enclosures or crawl spaces with a total net area of not less than one square inch for every square foot of area enclosed. Each opening must be on different sides of the enclosed area. If a building has more than one enclosed area, each area must have openings on exterior walls to allow floodwater to directly enter. The bottom of the openings must be no higher than one foot above the grade underneath the flood vents. Alternatively, you may submit a certification by a registered professional engineer or architect that the design will allow for the automatic equalization of hydrostatic flood forces on exterior walls. A window, a door, or a garage door is not considered an opening.

Cal-Tech Testing, Inc.
• Engineering
• Geotechnical
• Environmental
LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456
Tel. (904) 262-4046 • Fax (904) 262-4047

June 9, 2006

Paul Barcia
552 S. W. Manatee Terrace
Fort White, Florida 32038

Reference: Bearing Capacity Evaluation
Proposed Residence
Three Rivers Estates, Lot 3, Unit 2
Columbia County, Florida
Cal-Tech Project No. 02-363

Dear Mr. Barcia,

Cal-Tech Testing, Inc. has completed a subsurface investigation and engineering evaluation of foundation bearing soils at the site for a proposed residence at the referenced location in Columbia County, Florida. The purposes of our investigation were to determine the general subsurface conditions at the site and to evaluate the suitability of the existing site soils to provide an allowable bearing pressure of 2,000 psf.

We understand the residence will be elevated and have lateral dimensions of approximately 36 feet by 40 feet. Support for the structure is to be provided by piers, grade beams and shallow spread footings that are at least 3 feet square. Footings are to be embedded at least 3 feet below the finished surface grade. Foundations loads were not provided; however, we assume pier loads will not exceed about 20 kips.

Site Investigation

The subsurface conditions were investigated by performing two Standard Penetration test borings advanced to depths of 10 feet. The borings were performed at the approximate locations indicated on the attached drawing. These locations were selected by Cal-Tech Testing, Inc., and the building limits were delineated on site.

The Standard Penetration Test (ASTM D-1586) is performed by driving a standard split-barrel sampler into the soil by blows of a 140-pound hammer falling 30 inches. The number of blows required to drive the sampler 1 foot, after seating 6 inches, is designated the penetration resistance, or N-value; this value is an index to soil density or consistency.

Findings

The soil borings generally encountered two soil strata. The first layer consists of about 2.5 feet of loose, tannish gray and grayish tan sand (SP) and sand with silt (SP/SM). The N-values of this layer range from 4 to 8 blows per foot.

The second layer consists of an undetermined thickness of generally medium dense to very dense limestone with lenses of stiff to hard, sandy clay (CL). The N-values of this layer range from 6 to 64 blows per foot.

Groundwater was not encountered at the time of our investigation (6/8/06).

For a more detailed description of the subsurface conditions encountered, please refer to the attached Boring Logs.

Discussion

We have performed a bearing capacity evaluation for the site soils as encountered using the proposed 3-foot square foundations embedded 3 feet below the existing surface grade. For this foundation we obtained an allowable bearing pressure of 3,000 pounds per square foot with a factor of safety exceeding 1.6 for each boring location. Based upon this finding, it is our opinion the site soils are suitable for the proposed foundations and the required allowable bearing pressure of 2,000 pounds per square foot.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.

Linda Creamer
President / CEO

John C. Dorman, Jr., Ph.D., P.E
Geotechnical Engineer

6/5/06

B-1

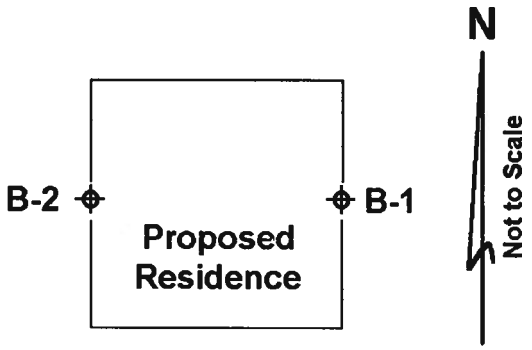
Water Table: N/A

Depth (ft)	N-value	Soil Description
0		Light Tannish Gray SAND with SILT (SP/SM)
	4	Loose, Grayish Tan SAND (SP)
	12	Stiff, Gray and Orange, SANDY CLAY, Trace Limestone (CL)
5	28	Medium Dense, Tan and Orange, WEATHERED LIMESTONE
	39	Hard, Light Gray and Orange, SANDY CLAY with LIMESTONE (CL)
	64	Very Dense LIMESTONE
10	60	

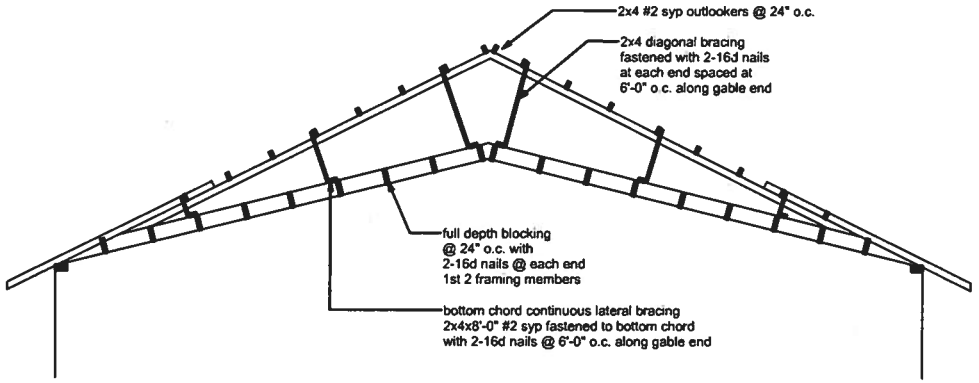
B-2

Water Table: N/A

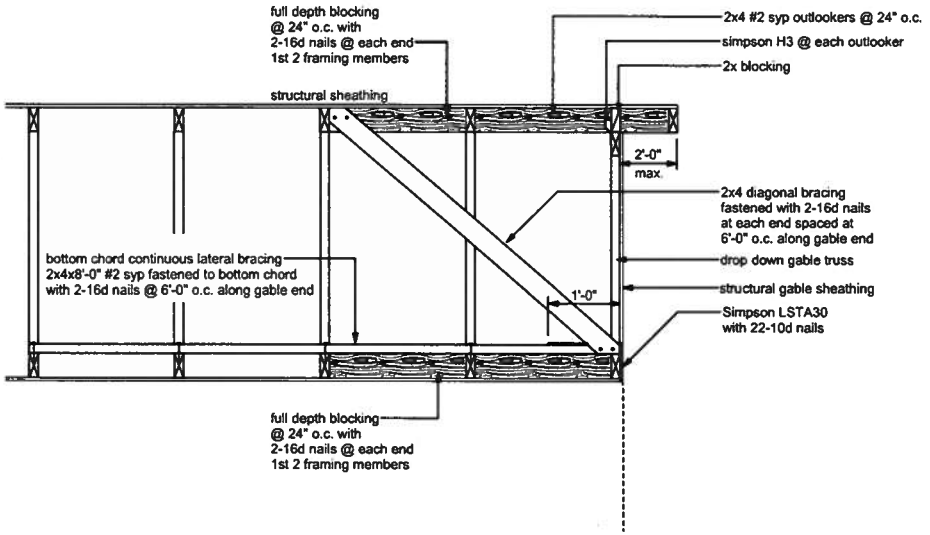
Depth (ft)	N-value	Soil Description
0		Dark Grayish Tan SAND with SILT (SP/SM)
	8	Loose, Grayish Tan SAND (SP)
	37	
5	31	
	26	Loose to Dense LIMESTONE
	23	
10	6	



Boring Logs and Location Plan: Proposed Residence
Three Rivers Estates
Lot 3, Unit 2
Columbia County, Florida



SECTION



END WALL BRACING FOR CEILING DIAPHRAGM

NTS

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

6/9/06

SEAL

DATE: 6/9/06

REVISED:

DRAWING: S-1

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL. 32055
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

Freeman Design Group Inc.

SCALE: NTS

DRAWN BY: W.H.F.

APPROVED:

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 36-6S-15-00569-001 **Building permit No.** 000024624

Use Classification ADDITION TO SFD **Fire:** 0.00

Permit Holder PAUL BARCIA **Waste:** 0.00

Owner of Building PAUL & ANN BARCIA **Total:** 0.00

Location: 498 SW MANATEE TERR(3 RIVERS EST.LOT 3)

Date: 01/10/2007

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
 Document ID:1SWX487-Z0505081249

Truss Fabricator:	Anderson Truss Company
Job Identification:	6-179-| -- | Paul Barcia
Truss Count:	12
Model Code:	Florida Building Code 2004
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Version 7.24.
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 - 110 MPH ASCE 7-02 -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: HCUSR487

Details: A11030EE-GBLLETIN-BRCLBSUB-VALTRU02-

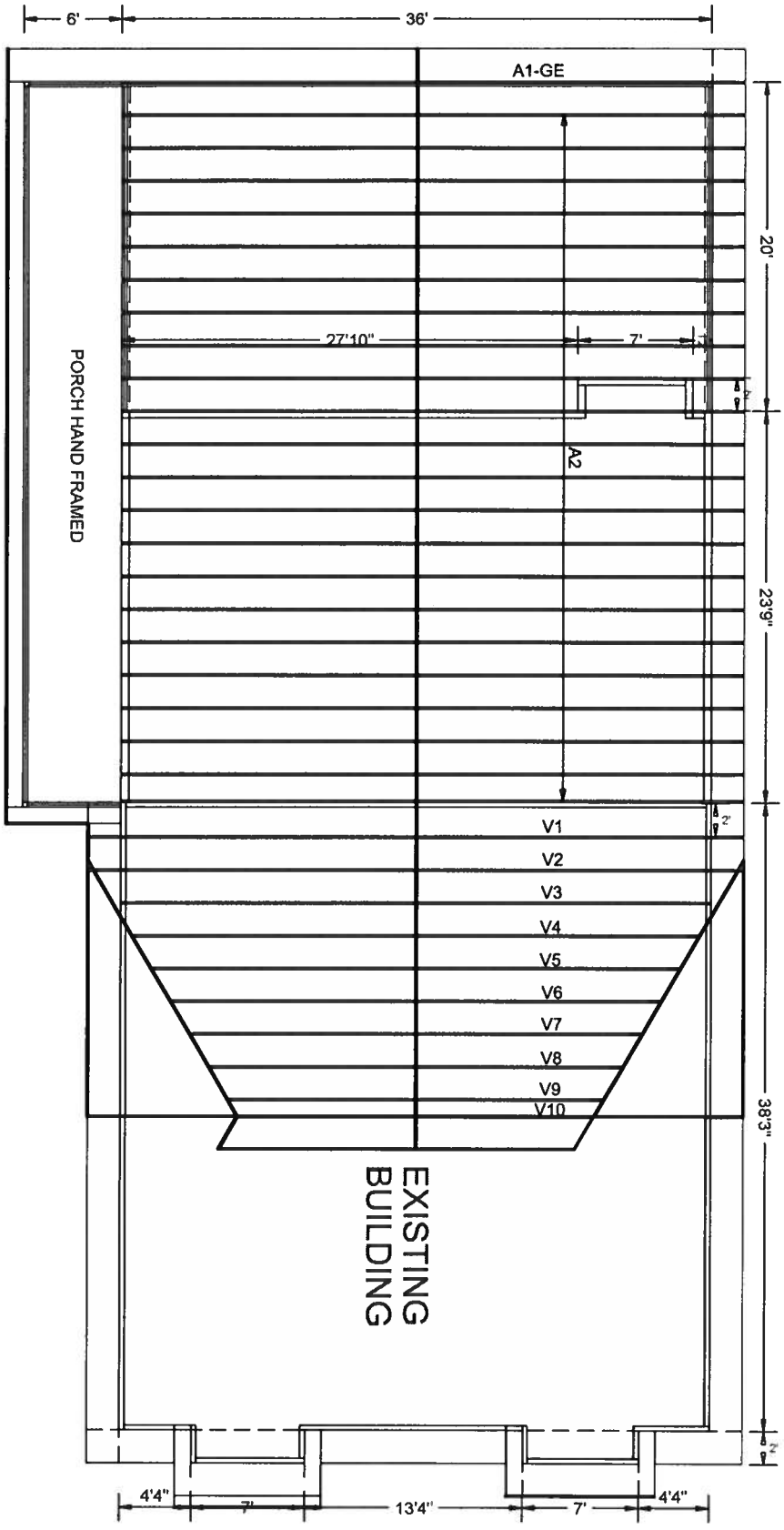
Seal Date: 05/05/2006

-Truss Design Engineer-
Arthur R. Fisher
Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	94050	A1-GE	06124001	05/04/06
2	94051	A2	06124002	05/04/06
3	94052	V1	06125001	05/05/06
4	94053	V2	06125002	05/05/06
5	94054	V3	06125003	05/05/06
6	94055	V4	06125004	05/05/06
7	94056	V5	06125005	05/05/06
8	94057	V6	06125006	05/05/06
9	94058	V7	06125007	05/05/06
10	94059	V8	06125008	05/05/06
11	94060	V9	06125009	05/05/06
12	94061	V10	06125010	05/05/06

#6-179 PAUL BARCIA (ADDITION) 5/4/06

Scale: 3/32" = 1'



Hm 386-497-4770
Cell 386-365-1537

PAGE NO: 1 OF 1

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP #1 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

Calculated horizontal deflection is 0.31" due to live load and 0.47" due to dead load.

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.

Calculated vertical deflection is 0.50" due to live load and 0.77" due to dead load at X = 18-0-0.

110 mph wind, 27.17 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

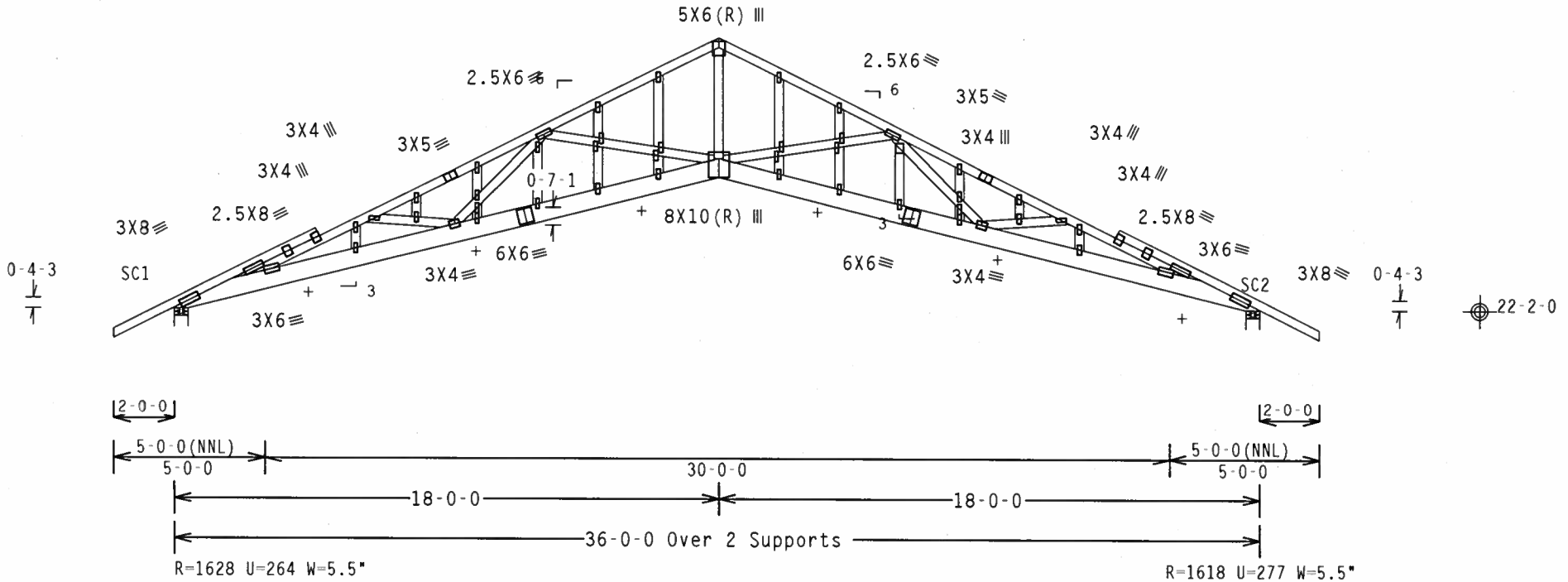
See DWGS A11030EE0405 & GBLLETIN0405 for more requirements.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

+ MEMBER TO BE LATERALLY BRACED FOR HORIZONTAL WIND LOADS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1 03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. 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. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF 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.

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 05 '06

TC LL	20.0 PSF	REF	R487-- 94050
TC DL	10.0 PSF	DATE	05/04/06
BC DL	10.0 PSF	DRW	HCUSR487 06124001
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	101036 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWX487 Z05

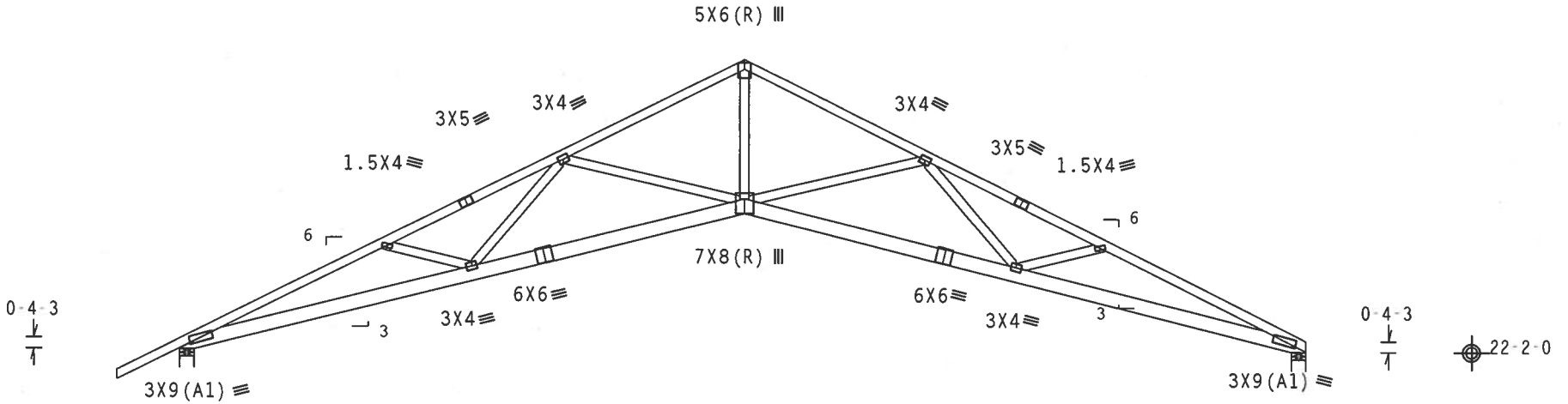
Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3

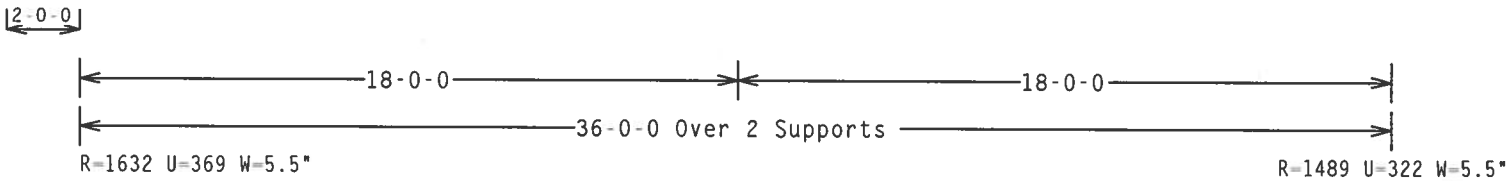
Calculated horizontal deflection is 0.25" due to live load and 0.40" due to dead load.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 26.51 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.[illegible] TY:22 FL/-/4/-/-/R/- Scale =.1875"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. 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. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF 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.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # 567

ARTHUR B. FISHER
LICENSE
No.59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 05 '06

TC LL	20.0 PSF	REF R487-- 94051
TC DL	10.0 PSF	DATE 05/04/06
BC DL	10.0 PSF	DRW HCUSR487 06124002
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 101022
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1SWX487 Z05

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

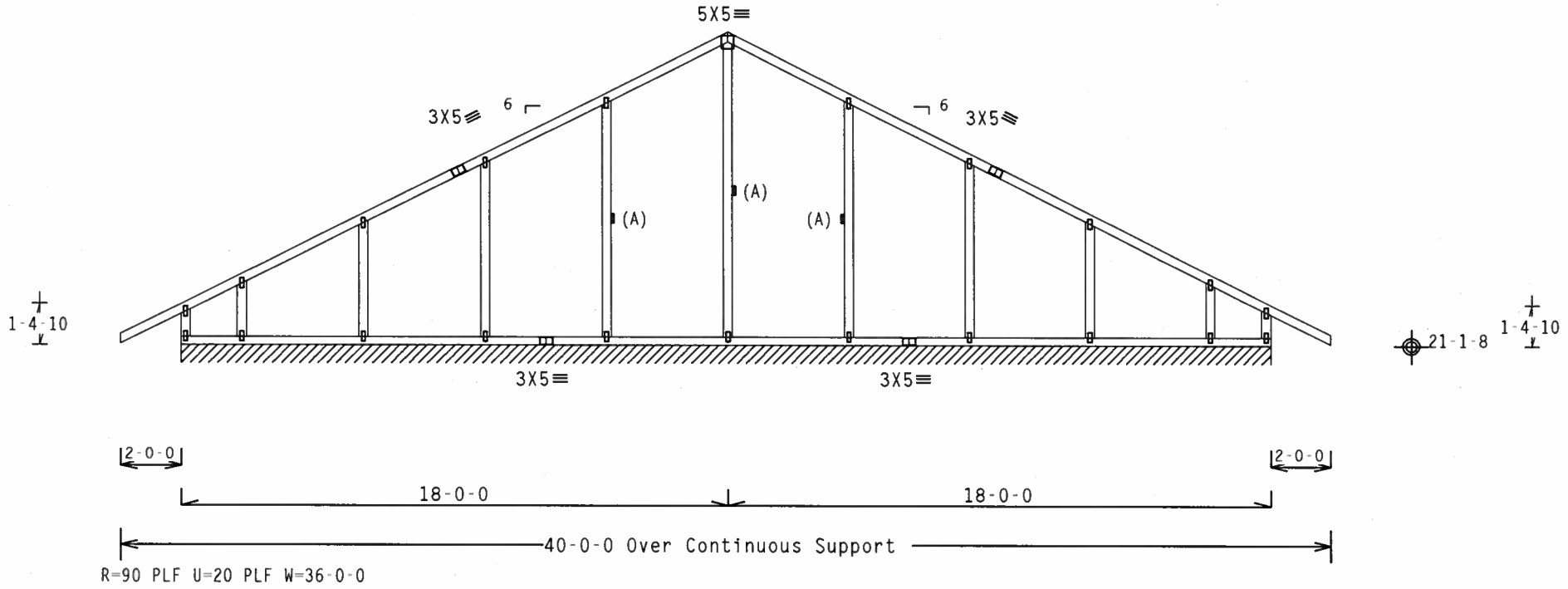
(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 26.51 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

See DWG VALTRUSS0405 for valley details.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1 03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. 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. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF 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.

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

May 05 '06

TC LL	20.0 PSF	REF R487-- 94052
TC DL	10.0 PSF	DATE 05/05/06
BC DL	10.0 PSF	DRW HCUSR487 06125001
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 101844
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SWX487 Z05

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Stubbed Wedge 2x4 SP #3::Rt Stubbed Wedge 2x4 SP #3:

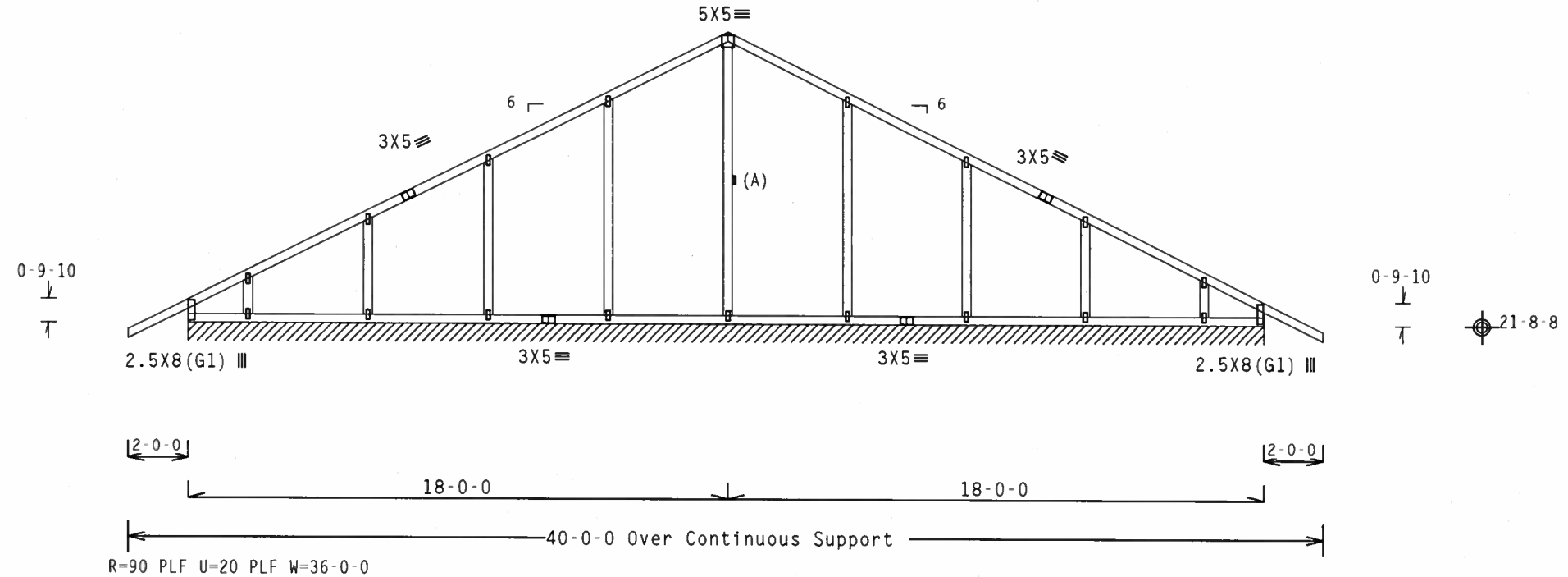
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

See DWG VALTRUSS0405 for valley details.

110 mph wind, 26.51 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER
LICENSE
No. 59697
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 05, 06

TC LL	20.0 PSF	REF R487-- 94053
TC DL	10.0 PSF	DATE 05/05/06
BC DL	10.0 PSF	DRW HCUSR487 06125002
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 101850
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SWX487 Z05

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

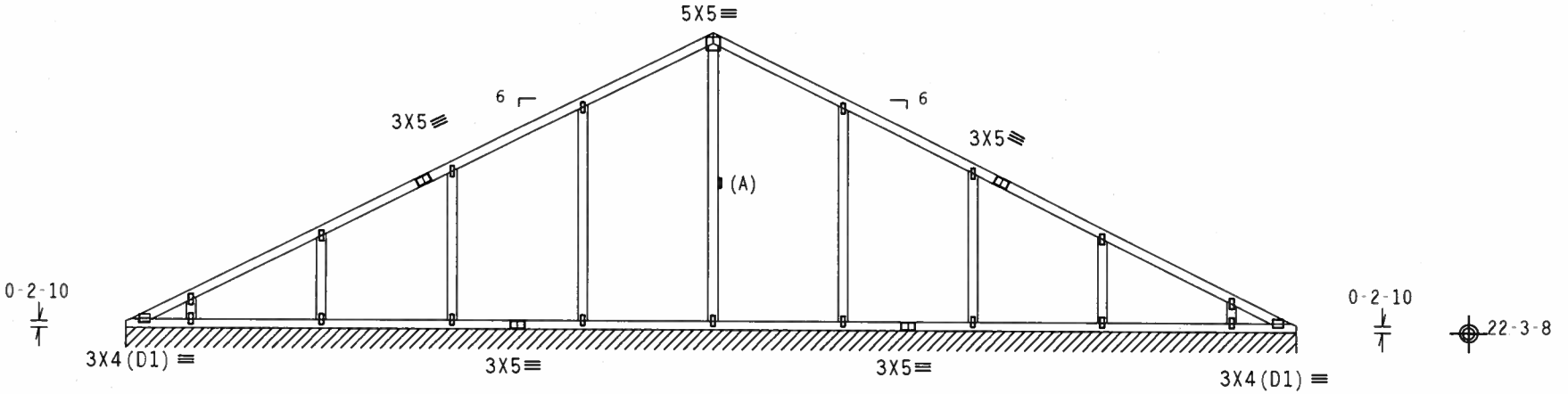
(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 27.05 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

See DWG VALTRUSS0405 for valley details.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

Scale =.1875"/Ft.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

May 05 '06

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # 567

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TC LL	20.0 PSF	REF	R487-- 94054
TC DL	10.0 PSF	DATE	05/05/06
BC DL	10.0 PSF	DRW	HCUSR487 06125003
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	101856
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWX487 Z05

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

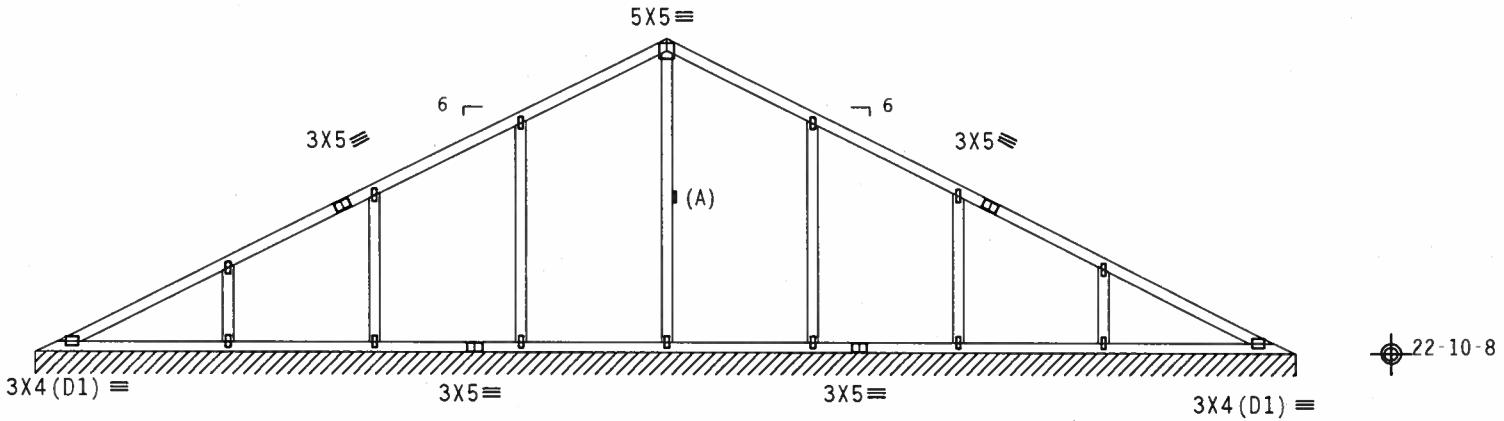
(A) Continuous lateral bracing equally spaced on member.

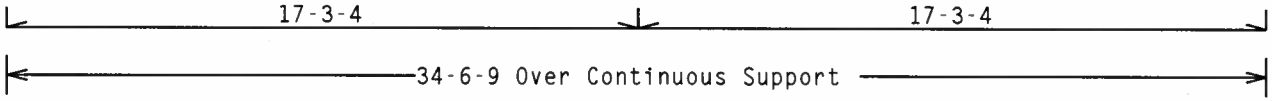
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 27.34 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

See DWG VALTRUSS0405 for valley details.





R=82 PLF U=18 PLF W=34-7-0

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 05 '06

TC LL	20.0 PSF	REF	R487-- 94055
TC DL	10.0 PSF	DATE	05/05/06
BC DL	10.0 PSF	DRW	HCUSR487 06125004
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	101862
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SWX487 Z05

(6 179 | | V5)

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

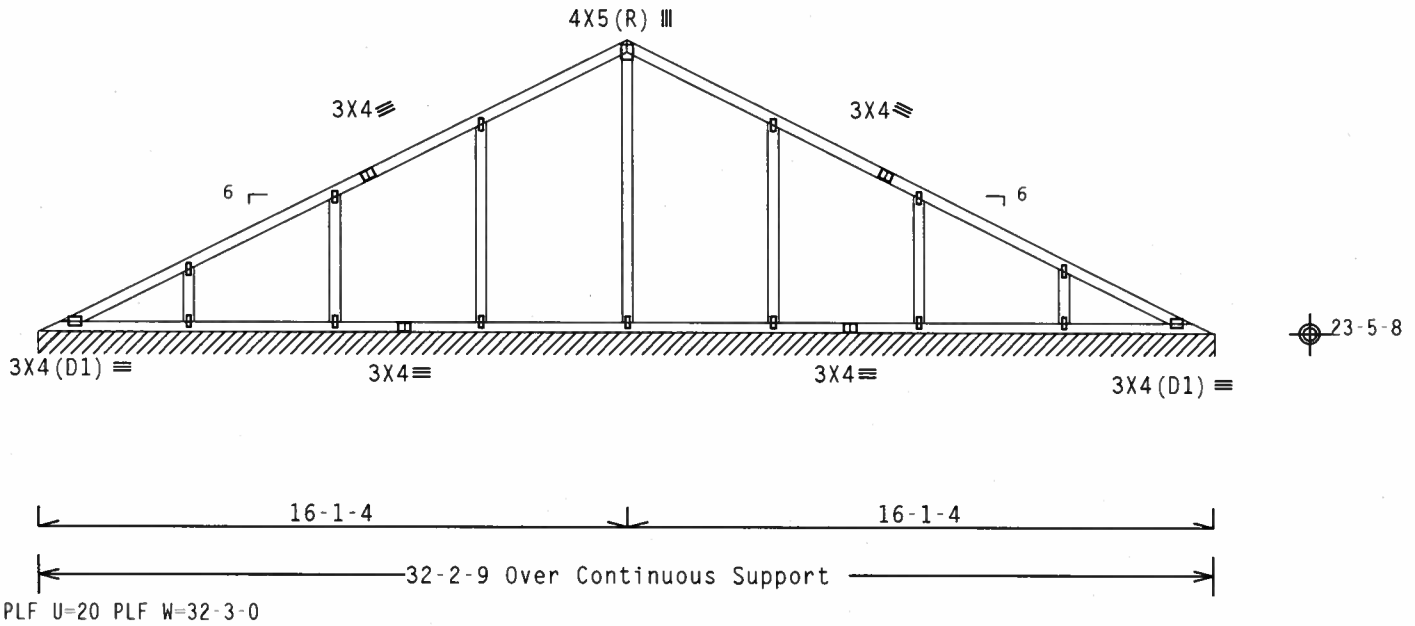
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

See DWG VALTRUSS0405 for valley details.

110 mph wind, 27.63 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 [illegible]Y:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

May [illegible] '06

TC LL	20.0 PSF	REF	R487-- 94056
TC DL	10.0 PSF	DATE	05/05/06
BC DL	10.0 PSF	DRW	HCUSR487 06125005
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	101868
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWX487 Z05

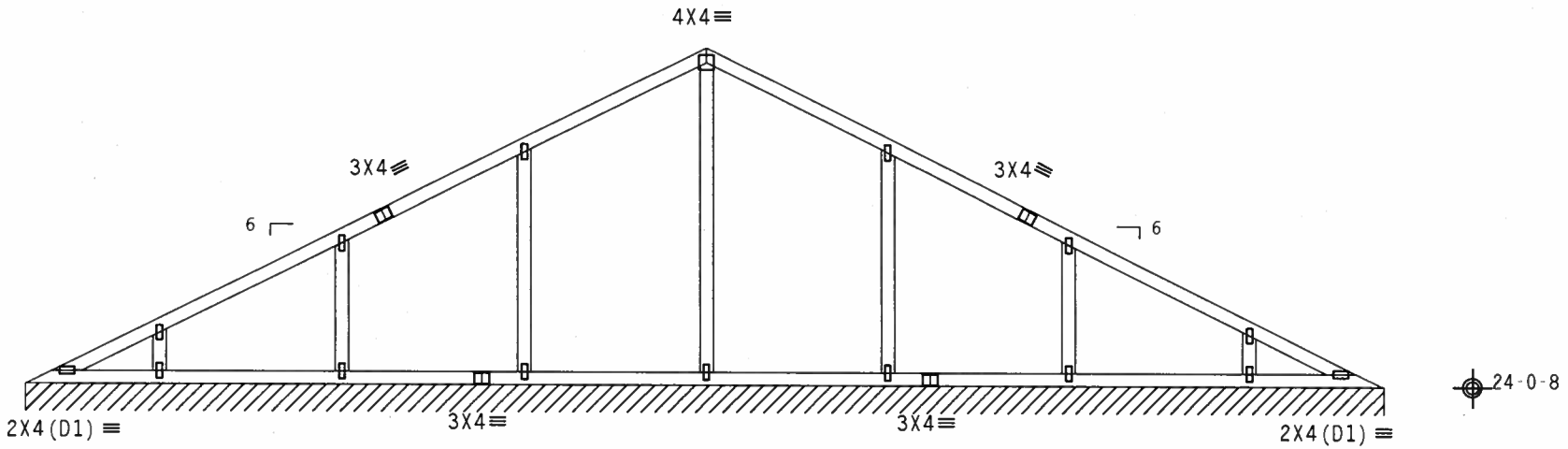
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

See DWG VALTRUSS0405 for valley details.

110 mph wind, 27.92 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



14-11-4 14-11-4

29-10-9 Over Continuous Support

R=82 PLF U=22 PLF W=29-11-0

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR A. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER

May 05 '06

TC LL	20.0 PSF	REF R487-- 94057
TC DL	10.0 PSF	DATE 05/05/06
BC DL	10.0 PSF	DRW HCUSR487 06125006
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 101874
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SWX487 Z05

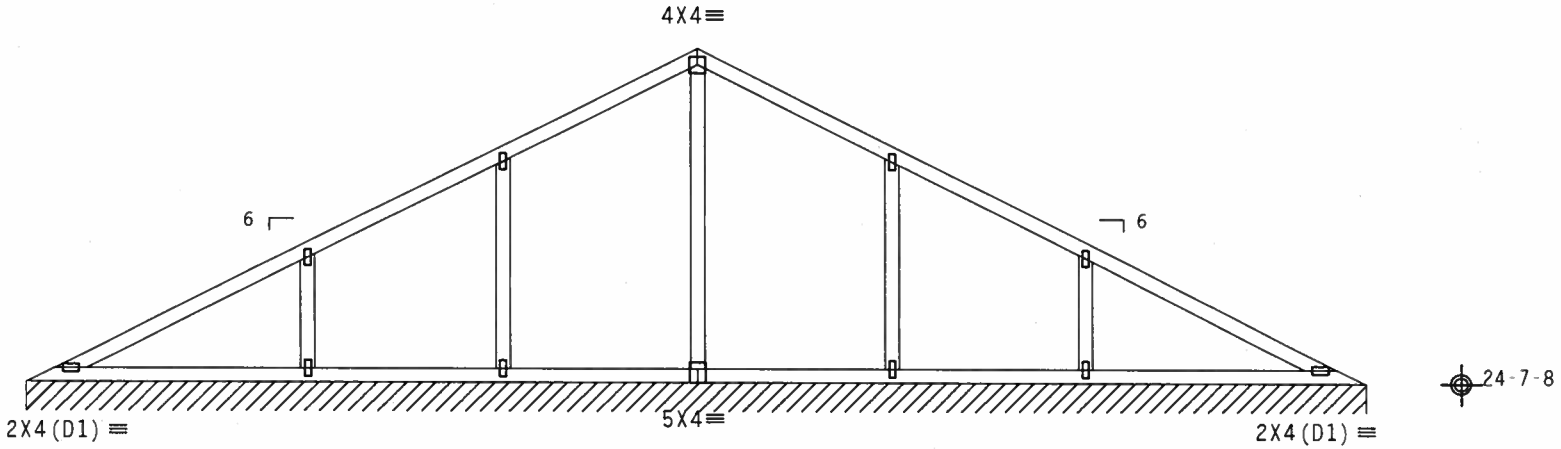
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

See DWG VALTRUSS0405 for valley details.

110 mph wind, 28.22 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



13-9-4 13-9-4

27-6-9 Over Continuous Support

R=82 PLF U=22 PLF W=27-7-0

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

May 05 '06

TC LL	20.0 PSF	REF	R487-- 94058
TC DL	10.0 PSF	DATE	05/05/06
BC DL	10.0 PSF	DRW	HCUSR487 06125007
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	101881
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWX487 Z05

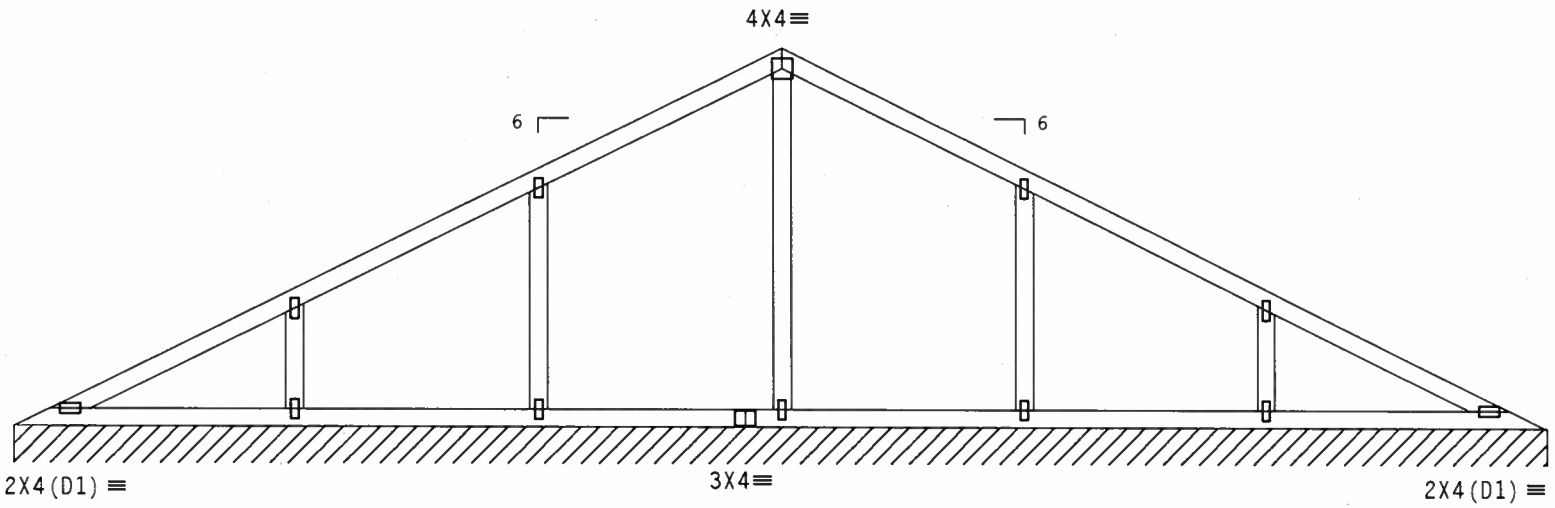
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

See DWG VALTRUSS0405 for valley details.

110 mph wind, 28.51 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=82 PLF U=22 PLF W=25-3-0

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No. 59887 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 05 '06

TC LL	20.0 PSF	REF R487-- 94059
TC DL	10.0 PSF	DATE 05/05/06
BC DL	10.0 PSF	DRW HCUSR487 06125008
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 101887
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SWX487 Z05

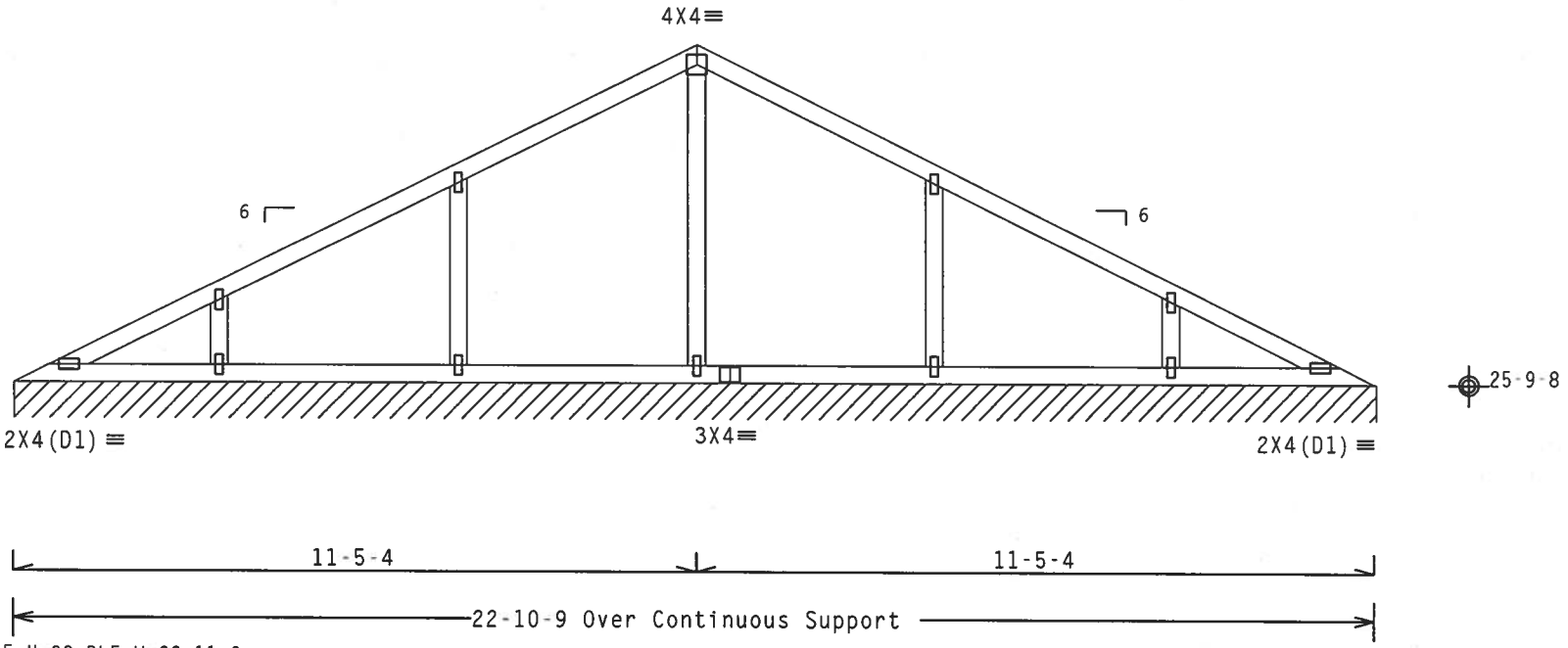
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

See DWG VALTRUSS0405 for valley details.

110 mph wind, 28.80 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.13 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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ARTHUR R. FISHER LICENSE No.59837 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 0[illegible] '06

TC LL	20.0 PSF	REF R487-- 94060
TC DL	10.0 PSF	DATE 05/05/06
BC DL	10.0 PSF	DRW HCUSR487 06125009
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 101893
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SWX487 Z05

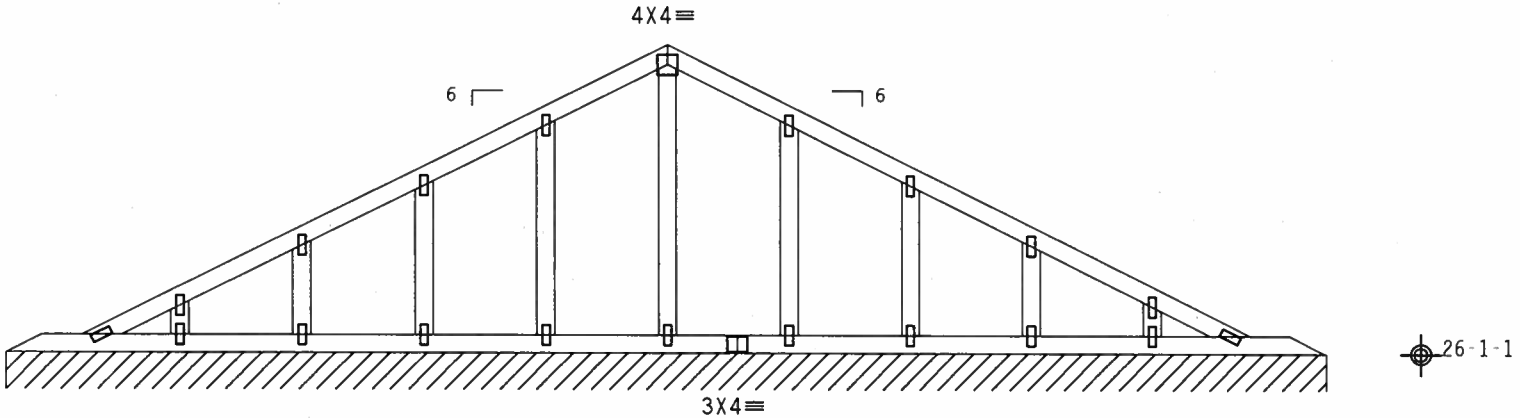
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

See DWG VALTRUSS0405 for valley details.

110 mph wind, 28.78 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



10-10-4 | 10-10-4

21-8-7 Over Continuous Support

R=80 PLF U=20 PLF W=21-8-14

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR B. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

May 05 '06

TC LL	20.0 PSF	REF	R487-- 94061
TC DL	10.0 PSF	DATE	05/05/06
BC DL	10.0 PSF	DRW	HCUSR487 06125010
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	101904
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1SWX487 Z05

ASCE 7-02: 110 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

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	3' 8"	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"
		#3	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"
		STUD	3' 7"	5' 5"	5' 5"	7' 1"	7' 1"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"
		STANDARD	3' 7"	4' 8"	4' 8"	6' 1"	6' 1"	8' 3"	8' 3"	9' 6"	9' 6"	12' 11"	12' 11"
	SP DFL	#1	4' 0"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#2	3' 11"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#3	3' 9"	5' 7"	5' 7"	7' 4"	7' 4"	8' 11"	9' 5"	11' 5"	11' 5"	14' 0"	14' 0"
		STUD	3' 9"	5' 6"	5' 6"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"	14' 0"
		STANDARD	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	8' 5"	8' 5"	9' 9"	9' 9"	13' 3"	14' 0"
16" O.C.	SPF HF	#1 / #2	4' 2"	7' 3"	7' 5"	8' 7"	8' 10"	10' 3"	10' 6"	13' 5"	13' 10"	14' 0"	14' 0"
		#3	4' 1"	6' 8"	6' 8"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"
		STUD	4' 1"	8' 0"	8' 0"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"
		STANDARD	4' 1"	5' 8"	5' 8"	7' 6"	7' 6"	10' 1"	10' 1"	11' 8"	11' 8"	14' 0"	14' 0"
	SP DFL	#1	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
		#2	4' 6"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	6' 10"	6' 10"	8' 7"	9' 0"	10' 3"	10' 9"	13' 5"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	6' 9"	6' 9"	8' 7"	8' 11"	10' 3"	10' 9"	13' 5"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 2"	5' 10"	5' 10"	7' 8"	7' 8"	10' 3"	10' 4"	11' 11"	11' 11"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 7"	8' 0"	8' 2"	9' 5"	9' 8"	11' 3"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 8"	7' 8"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 6"	7' 8"	7' 8"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 6"	6' 7"	6' 7"	8' 8"	8' 8"	11' 3"	11' 3"	13' 6"	13' 6"	14' 0"	14' 0"
	SP DFL	#1	5' 1"	8' 0"	8' 7"	9' 5"	10' 2"	11' 3"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 11"	8' 0"	8' 7"	9' 5"	10' 2"	11' 3"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	7' 11"	7' 11"	9' 5"	9' 11"	11' 3"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 9"	7' 9"	7' 9"	9' 5"	9' 11"	11' 3"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 7"	6' 9"	6' 9"	8' 10"	8' 10"	11' 3"	11' 7"	13' 10"	13' 10"	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

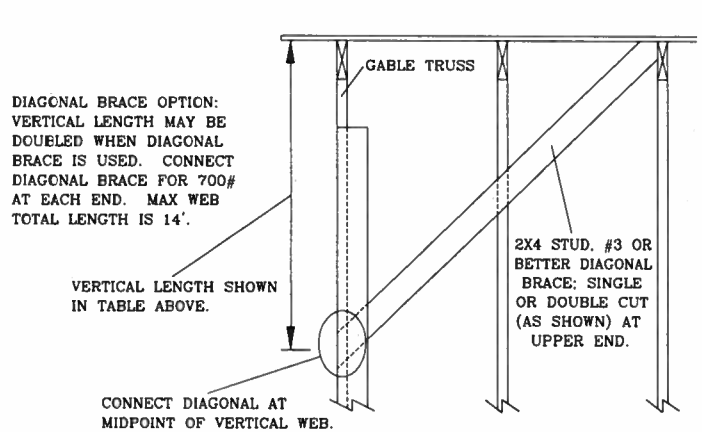
SOUTHERN PINE
#3
STUD
STANDARD

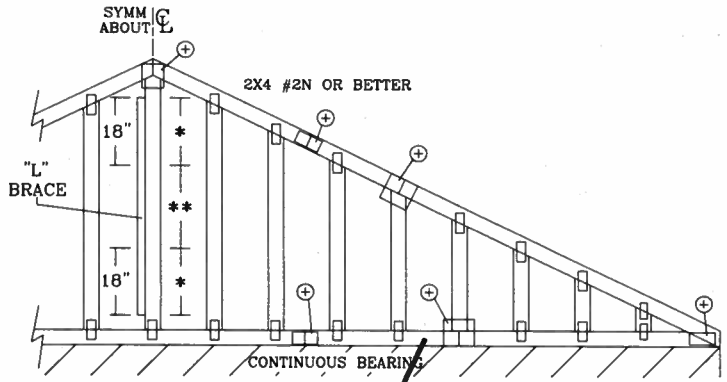
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 100 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.

ATTACH EACH "L" BRACE WITH 10d 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
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

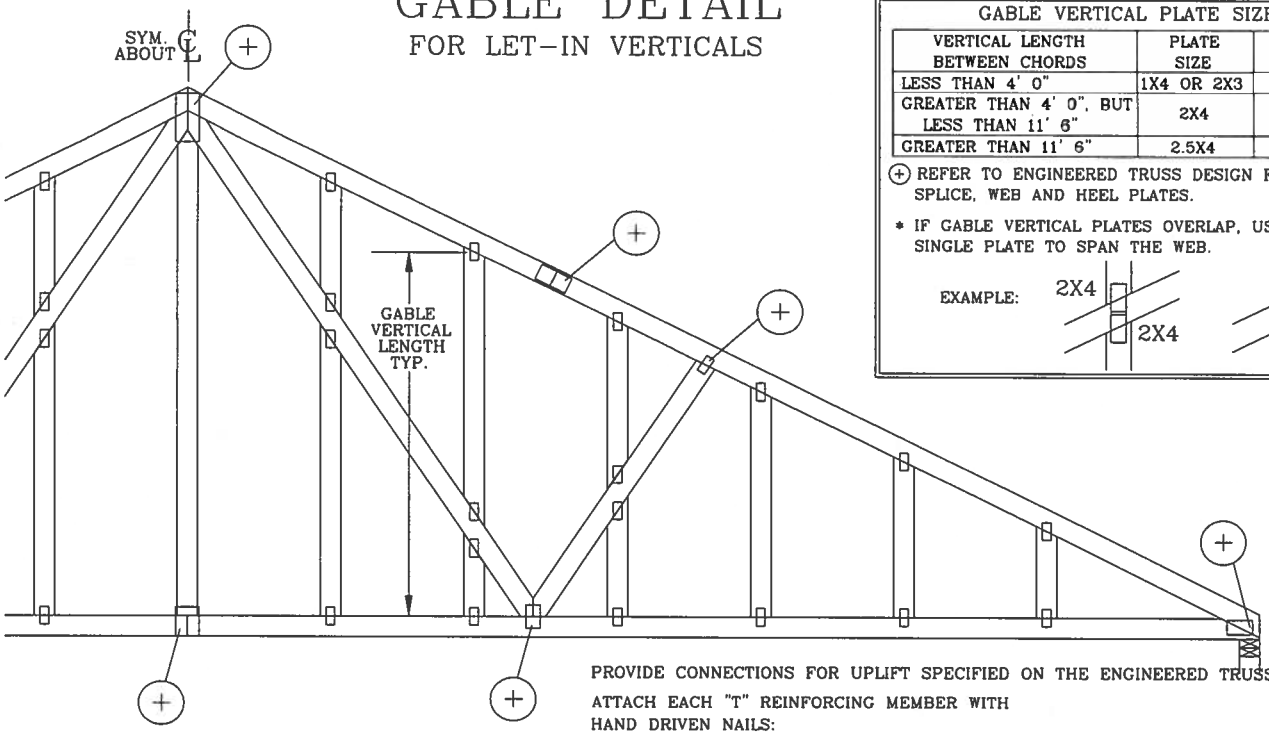
May 06

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11030
DATE	04/14/05
DRWG	A11030EE0405
-ENG	

GABLE DETAIL
FOR LET-IN VERTICALS

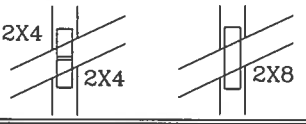


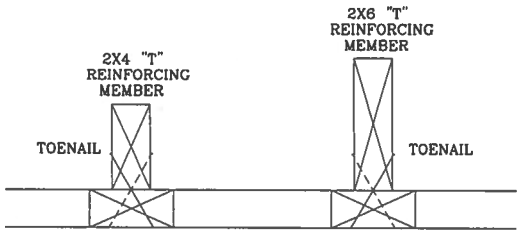
GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:





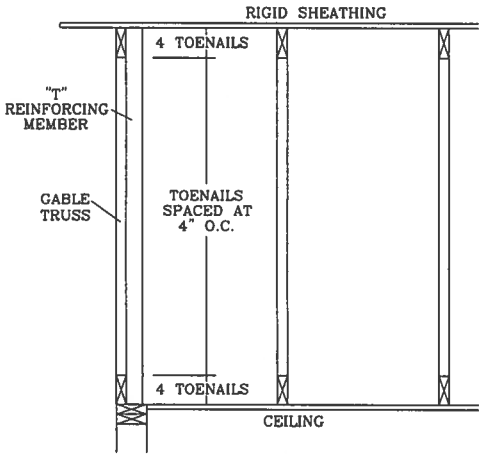
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148"X 3.",MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5",MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:
8d COMMON (0.131"X 2.5",MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103
ASCE 7-02 GABLE DETAIL DRAWINGS
A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405,
A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

ARTHUR R. FISHER LICENSE No. 56687 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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MAX TOT. LD. 60 PSF
DUR. FAC. ANY
MAX SPACING 24.0"

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLLETIN0405
-ENG	DLJ/KAR

CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON AN ALPINE 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.

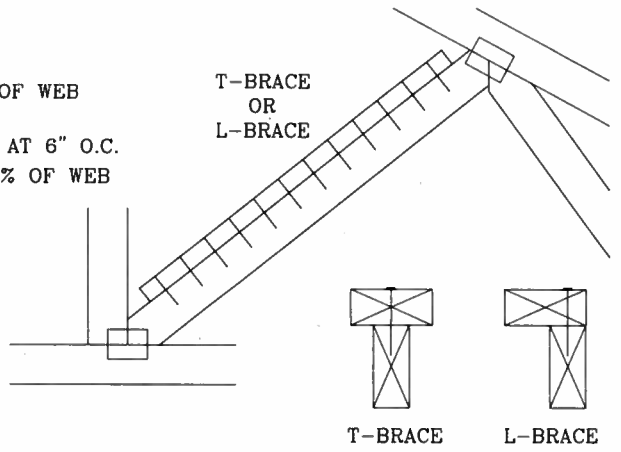
(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE

ATTACH WITH 16d NAILS AT 6" O.C.

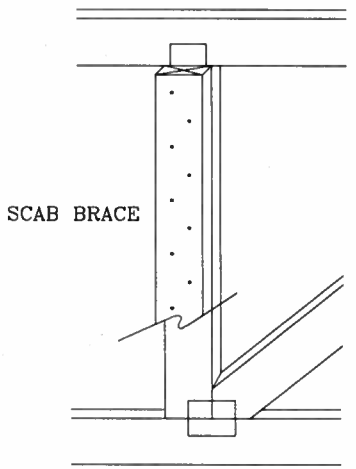
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB. NO MORE THAN (1) SCAB PER FACE.

ATTACH WITH 10d OR .128"x3" GUN NAILS AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579,640

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., 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. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W,K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF 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.

ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Mov 26 03

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH: (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR SBC 110 MPH, ASCE 7-93 110 MPH WIND OR ASCE 7-98, OR ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=5 PSF.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

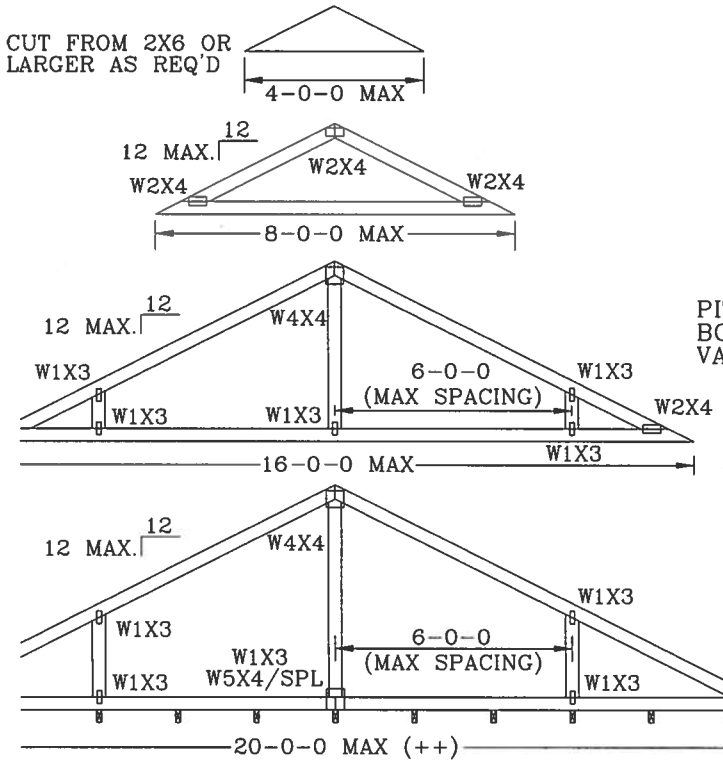
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

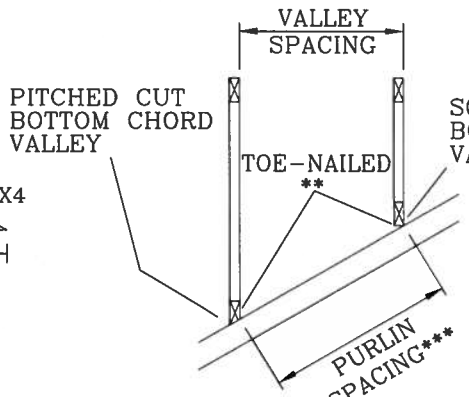
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

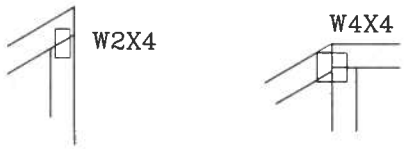
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

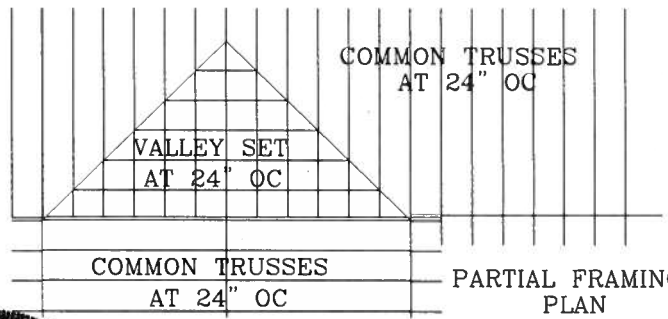
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







PARTIAL FRAMING PLAN

THIS DRAWING REPLACES DRAWING A105

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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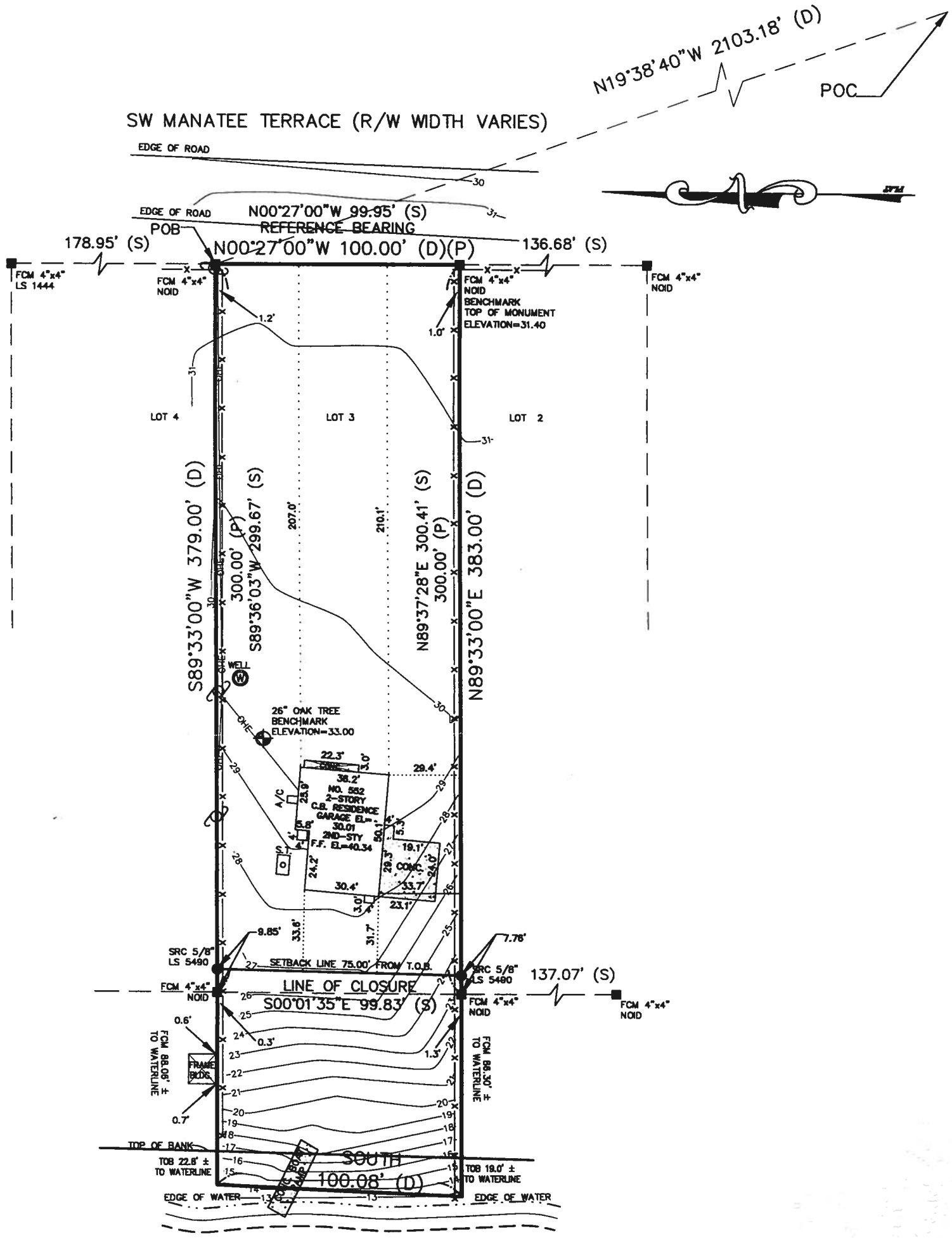
TC LL	30	30	40 PSF
TC DL	20	15	7 PSF
BC DL	10	10	10 PSF
BC LL	0	0	0 PSF
TOT. LD.	60	55	57 PSF
DUR.FAC.	1.25/1.33	1.15	1.15
SPACING		24"	

REF	VALLEY DETAIL
DATE	04/14/05
DRWG	VALTRUSS0405
-ENG	MLH/KAR

MAP OF BOUNDARY SURVEY

SHOWING LOT 3, SECTION 2, THREE RIVERS ESTATES, AN UNRECORDED SUBDIVISION OF A PART OF SECTION 36, TOWNSHIP 6 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS: COMMENCE AT THE QUARTER SECTION CORNER SOUTH LINE SECTION 36, TOWNSHIP 6 SOUTH, RANGE 15 EAST, AND RUN N 19° 38' 40" W A DISTANCE OF 2103.18 FEET FOR A POINT OF BEGINNING ON WESTERLY RIGHT-OF-WAY LINE SANTA FE RIVER ROAD; THENCE S 89° 33' W A DISTANCE OF 379 FEET, MORE OR LESS, TO WATERS EDGE SANTA FE RIVER; THENCE SOUTHERLY ALONG WATERS EDGE SANTA FE RIVER 100 FEET, MORE OR LESS; THENCE N 89° 33' E A DISTANCE OF 383 FEET, MORE OR LESS, TO SAID RIGHT-OF-WAY LINE; THENCE N 0° 27' W A DISTANCE OF 100 FEET TO THE POINT OF BEGINNING. BEING A PART OF THE NE 1/4 OF SW 1/4, SECTION 36, TOWNSHIP 6 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA.



CERTIFIED TO:
PAUL P. BARCIA
ANN R. BARCIA

I HEREBY CERTIFY THIS SURVEY WAS DONE UNDER MY DIRECT SUPERVISION AND IT MEETS THE MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING PURSUANT TO CHAPTER 61G17-6, FLORIDA ADMINISTRATION CODE, CHAPTER 472, FLORIDA STATUES.

WILLIAM N. KITCHEN PSM 5490 .

William N. Kitchen

4-28-2006

SURVEYORS NOTES

1. BEARING BASED ON DEED.
2. THIS SURVEY BASED ON LEGAL DESCRIPTION FURNISHED. THE PUBLIC RECORDS, WERE NOT SEARCHED BY THIS SURVEYOR FOR EASEMENTS, TITLE, COVENANTS, RESTRICTIONS, CLOSURES, TAKINGS OR ORDINANCES, ETC., THERE COULD BE OTHER MATTER OF RECORD THAT EFFECT THIS PARCEL.
3. SUBJECT PROPERTY SHOWN HEREON LIES IN FLOOD "AE" AS BEST DETERMINED BY F.E.M.A. PANEL # 1 200,700 255 B, DATED: JANUARY 6, 1988.
4. SUBJECT PROPERTY SHOWN HEREON LIES IN RIVER MILE 10 PER SUWANNEE RIVER MANAGEMENT DISTRICT; 100-YEAR FLOOD = 35 FEET; 10-YEAR FLOOD = 31 FEET; 2-YEAR FLOOD = 23 FEET.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

REV:		

WILLIAM N. KITCHEN
PROFESSIONAL SURVEYOR AND MAPPER
152 N MARION AVENUE
LAKE CITY, FLORIDA 32055
PHONE (386) 755-7786

DRAWN BY: RI	FIELD BOOK: 06193
SCALE: 1" = 50'	
SURVEY DATE: APRIL 20, 2006	
JOB NUMBER	SHEET
06193	1 OF 1

CLIENT: PAUL P. & ANN R. BARCIA

LEGEND

(D) = DEED
(P) = PLAT
(S) = SURVEY MEASUREMENT
NOID = NO SURVEYORS IDENTIFICATION
LS = LAND SURVEYOR
LB = LICENSE BUSINESS
FCM = FOUND CONCRETE MONUMENT
POC = POINT OF COMMENCEMENT
POB = POINT OF BEGINNING
R/W = RIGHT OF WAY
CB = CONCRETE BLOCK
OHE = OVER HEAD ELECTRIC
CONC = CONCRETE
TOB = TOP OF BANK
BLDG = BUILDING
SRC = SET REBAR & CAP
FF = FINISHED FLOOR
EL = ELEVATION
= WOOD POWER POLE
S.T. = SEPTIC TANK
X——X = WIRE FENCE
□——□ = WOOD FENCE