DATE 08/01/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000024810

APPLICANT LAURA WILLEMS PHONE 752.9811

ADDRESS 137 SW MEADOW TERRACE LAKE CITY FL 32024

OWNER WILLEMS CUSTOM WOODWORKS PHONE 755.7220

ADDRESS 470 SW ARROWHEAD TERRACE LAKE CITY FL 32024

CONTRACTOR ISAAC BRATKOVICH PHONE 719-7143

LOCATION OF PROPERTY 47 S, R 242, R ARROWHEAD RD, ON TH LEFT BEFORE THE PEPSI PLANT, WHITE WTH BLUE TRIM

TYPE DEVELOPMENT COMM. WAREHOUSE ESTIMATED COST OF CONSTRUCTION 240000.00

HEATED FLOOR AREA 6500.00 TOTAL AREA 6500.00 HEIGHT 22.80 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 4'12` FLOOR CONC

LAND USE & ZONING I MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 20' REAR 15' SIDE 15'

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

PARCEL ID 24-4S-16-03120-103 SUBDIVISION WINDSWEPT INDUSTRIAL PARK

LOT 3 BLOCK PHASE 1 UNIT TOTAL ACRES 1.69

		CBC059323	Laura R. Willems	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
EXISTING	X-06-205	BLK	JTH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: NOC ON FILE. SDP. 06-4. PREVENTATIVE REPORT REC'D. CAL-TECH REPORT REC'D.

Check # or Cash 4009

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 $ 1200.00 CERTIFICATION FEE $ 32.50 SURCHARGE FEE $ 32.50

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 1340.00

INSPECTORS OFFICE CH 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.

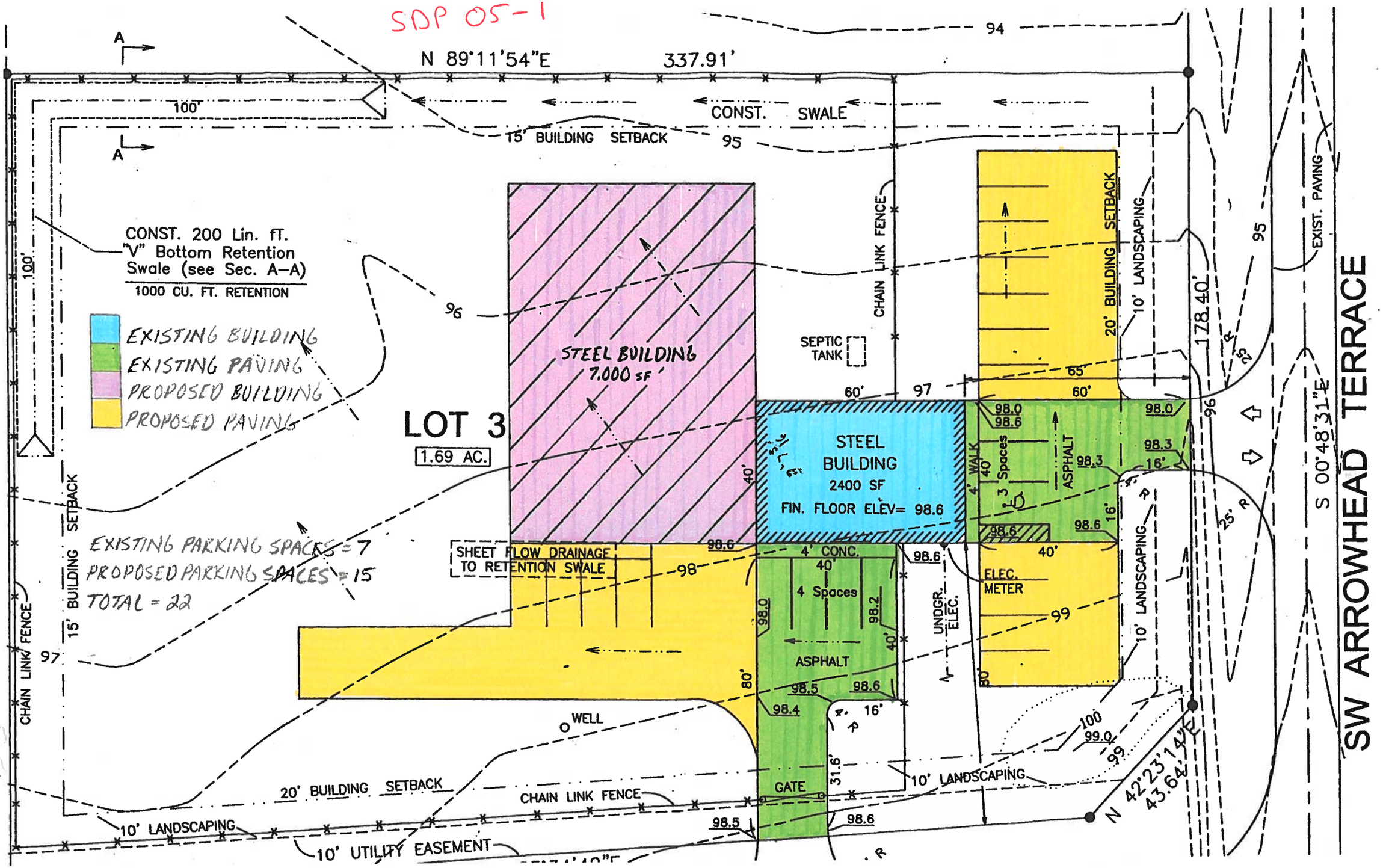
"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

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.

SDP 05-1


N 89°11'54"E 337.91'
CONST. SWALE
15' BUILDING SETBACK
CONST. 200 Lin. ft.
"V" Bottom Retention
Swale (see Sec. A–A)
1000 CU. FT. RETENTION
EXISTING BUILDING
EXISTING PAVING
PROPOSED BUILDING
PROPOSED PAVING
LOT 3
1.69 AC.
STEEL BUILDING
7,000 SF
STEEL
BUILDING
2400 SF
FIN. FLOOR ELEV= 98.6
SEPTIC
TANK
CHAIN LINK FENCE
20' BUILDING SETBACK
10' LANDSCAPING
EXISTING PARKING SPACES = 7
PROPOSED PARKING SPACES = 15
TOTAL = 22
SHEET FLOW DRAINAGE
TO RETENTION SWALE
4' CONC.
4 Spaces
ASPHALT
3 Spaces
4' WALK
ELEC.
METER
UNDGR.
ELEC.
WELL
GATE
10' UTILITY EASEMENT
EXIST. PAVING
SW ARROWHEAD TERRACE
S 00°48'31"E
178.40'
N 42°23'14"E
43.64'

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0606-06 Date Received 6/2/06 By CB Permit # 24810
Application Approved by - Zoning Official BLK Date 28.07.06 Plans Examiner OK JTH Date 8-1-06
Flood Zone X PRLT Development Permit N/A Zoning ILW Land Use Plan Map Category I
Comments SDP 06-4

Applicants Name Laura Willems Phone 752-2281
Address 137 SW Meadow Terrace, Lake City, FL 32024
Owners Name Willems Custom Woodworks Phone 623-2672
911 Address 470 S.W. Arrowhead Terrace Lake City FL 32024
Contractors Name Isaac Bratkovich Phone 719-7143
Address PMB 338 2109 W US 90 Lake City FL 32055
Fee Simple Owner Name & Address NA
Bonding Co. Name & Address NA
Architect/Engineer Name & Address Will Myers/Mark Disosway
Mortgage Lenders Name & Address 1st Federal

Circle the correct power company – FL Power & Light – Clay Elec. – Suwannee Valley Elec. – Progressive Energy
Property ID Number 24-4S-16-03120-103 Estimated Cost of Construction 240,000.00
Subdivision Name Windswept Industries Lot 3 Block ____ Unit ____ Phase I
Driving Directions 47 S., R on CR 242, R on Arrowhead Terrace, see existing building in front part of lot, (470 S.W. Arrowhead Terrace

Type of Construction Commercial - warehouse Number of Existing Dwellings on Property 1
Total Acreage 1.69 Lot Size ____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 270' Side 50' Side 65' Rear 26'-10'
Total Building Height 22'-8" Number of Stories 1 Heated Floor Area 6500 Roof Pitch 4/12

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

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

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

Owner Builder or Agent (Including Contractor)

Barbara C. Webster
Commission # DD329279
Expires July 2, 2008
Bonded Troy Fain Insurance, Inc. 800-385-7019

[signature] Isaac Bratkovich
Contractor Signature
Contractors License Number CBC 059323
Competency Card Number ____
NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 19th day of May 2006.

[signature] Barbara C Webster #23190

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only: Application # 06-06-06 Date Received 6/2/06 By [illegible] Permit # _____

Application Approved by - Zoning Official BLK Date 280706 Plans Examiner _____ Date _____

Flood Zone X Pole Development Permit N/A Zoning ILW Land Use Plan Map Category I

Comments SDP 06-4

: NOC

Applicants Name Linda or Melanie Roder Phone 752-2281

Address 387 S.W. Kemp Ct Lake City FL 32024

Owners Name Willems Custom Woodworks Phone 623-2672

911 Address 470 S.W. Arrowhead Terrace Lake City FL 32024

Contractors Name Isaac Bratkovich. Phone 719-7143

Address PMB 338 2109 W US. 90 Lake City FL 32055

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Will Myers/Mark Disosway

Mortgage Lenders Name & Address 1st Federal

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

Property ID Number 24-4S-16-03120-103 Estimated Cost of Construction 200K

Subdivision Name Windswept Industries Lot 3 Block ___ Unit ___ Phase I

Driving Directions 47 S. Ron CR 242, R on Arrowhead Terrace, see existing building in front part of lot, (470 S.W. Arrowhead Terrace

Type of Construction Commercial - warehouse. Number of Existing Dwellings on Property 1

Total Acreage 1.69 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 270' Side 50' Side 65' Rear 260'-10"

Total Building Height 22'-8" Number of Stories 1 Heated Floor Area 6500 Roof Pitch 2-8

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 [illegible] tion is accurate and all work will be done in [illegible] zoning.

COMMENCMENT MAY RESULT IN YOU PAYING [illegible] TO OBTAIN FINANCING, CONSULT WITH YOUR [illegible] COMMENCEMENT.

Isaac Bratkovich
Contractor Signature

Contractors License Number CBC059323

Competency Card Number _____

NOTARY STAMP/SEAL

Barbara C Webster

COLUMBIA COUNTY PUBLIC HEALTH UNIT
ENVIRONMENTAL HEALTH

PERMIT: 06-205

OWNER Willems Custom Woodworks

ADDRESS 470 SW Arrowhead Terr

RELEASE FOR: Storage Bldg

Personally known X

ISAAC CONSTRUCTION, LLC.
FINE CUSTOM HOMEBUILDING

"BUILDING DREAM HOMES"

2109 W. US HWY 90 | SUITE #170 PMB33
LAKE CITY, FL 32055

LIMITED POWER OF ATTORNEY

I, Isaac Bratkovich of Isaac Construction, LLC, do here by authorize Laura Willems to be my representative and act on my behalf in all aspects of applying for a building permit to be placed on property located in the Columbia County, Florida

Willems Warehouse
470 SW Meadow Terr.
Lake City, FL 32024

Isaac Bratkovich
(Contractor's Signature)

8/1/06
(Date)

Sworn to and subscribed before me this 26th day of September, 2005

Barbara C Webster
Notary Public
My Commission expires: 7-2-08
Commission No: DD329279
Personally Known: X
Produced ID (Type): _____

Barbara C. Webster
Commission # DD329279
Expires July 2, 2008
Bonded Troy Fain - Insurance, Inc. 800-385-7019

Rec. 18.50
Cert. Copy 3.50

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

Inst:200601270 Date:06/13/2006 Time:12:37
DC,P.DeWitt Cason,Columbia County B:1086 P:1766

PERMIT NO._____ TAX FOLIO NO.: 24-4S-16-03120-103

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

1. Description of property:

Lot 3 of WINDSWEPT INDUSTRIAL SUBDIVISION, PHASE ONE, a subdivision according to the plat thereof recorded in Plat Book 7, Pages 84 & 85 of the public records of Columbia County, Florida.

2. General description of improvement: Renovation to existing commercial building and construction of new commercial building.

3. Owner information:

a. Name and address: WILLEMS CUSTOM WOODWORKS, LLC, a Florida Limited Liability Company, 137 SW Meadow Terrace, Lake City, Florida 32024.

b. Interest in property: Fee Simple

c. Name and address of fee simple title holder (if other than Owner):

4. Contractor: ISAAC CONSTRUCTION, LLC, 2109 West US Highway 90, Suite #170 PMB 338, Lake City, Florida 32055.

5. Surety

a. Name and address: None

b. Amount of bond:

6. Lender: FIRST FEDERAL SAVINGS BANK OF FLORIDA, 4705 West US Highway 90, Lake City, Florida 32055.

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes: None

8. In addition to himself, Owner designates PAULA HACKER of FIRST FEDERAL SAVINGS BANK OF FLORIDA, 4705 West US Highway 90, Lake City, Florida 32055, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

WILLEMS CUSTOM WOODWORKS, LLC

By: _____
Raymond M. Willems
Managing Member

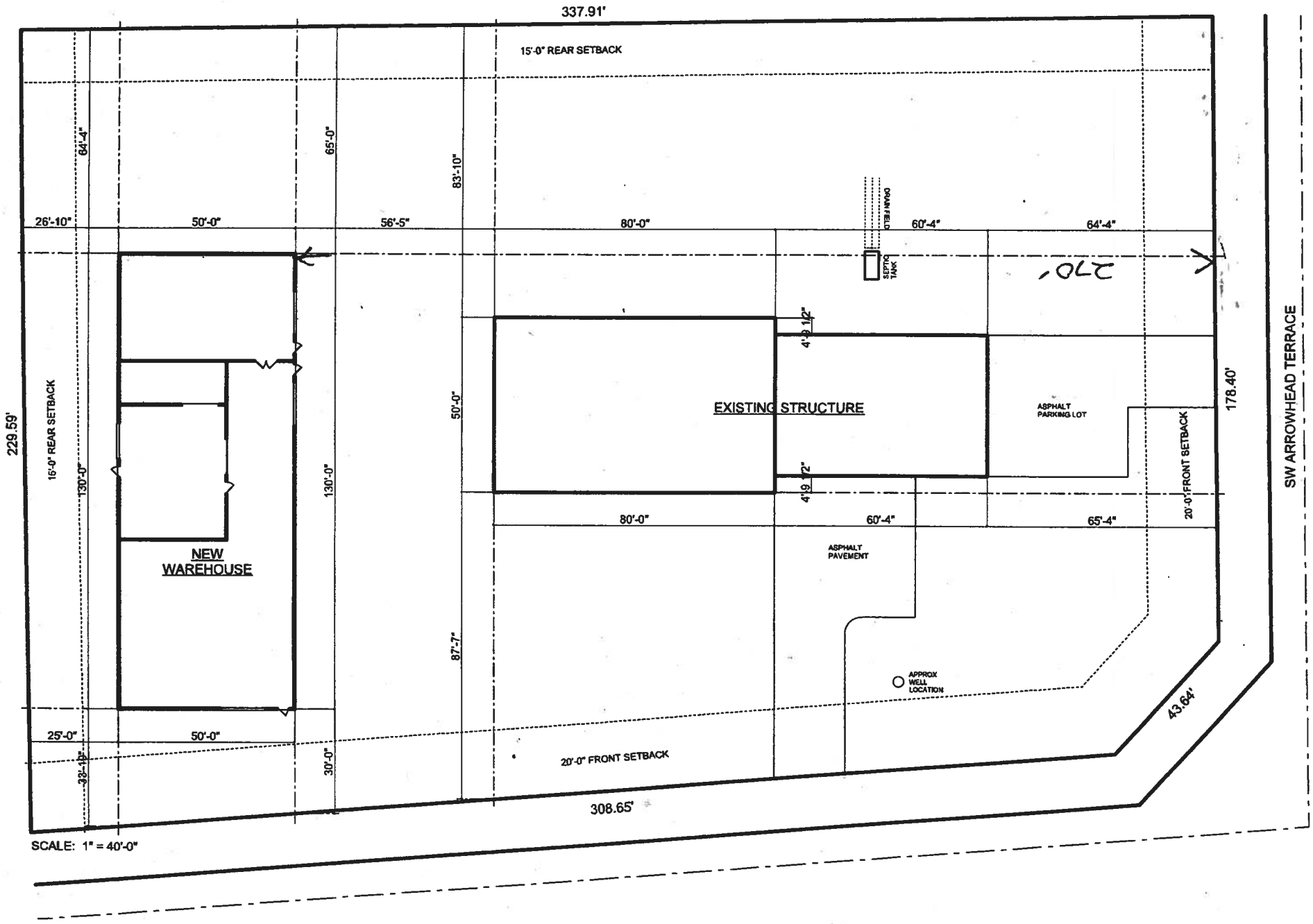
The foregoing instrument was acknowledged before me this 13th day of June 2006, by RAYMOND M. WILLEMS, Managing Member of WILLEMS CUSTOM WOODWORKS, LLC, a Florida Limited Liability Company, on behalf of said company. He is personally known to me and did not take an oath.

_____
Notary Public
My commission expires: _____

TERRY MCDAVID
MY COMMISSION # DD 500788
EXPIRES: January 18, 2010
Bonded Thru Notary Public Underwriters

Inst:2006014270 Date:06/13/2006 Time:12:37
DC,P.DeWitt Cason,Columbia County B:1086 P:1767

Willems Custom Cabinetry



Doc. 18.50
Doc. 1,715.00

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. 05-104

Property Appraiser's
Parcel Identification No.
24-4S-16-03120-103

Inst:2005008719 Date:04/15/2005 Time:10:23
Doc Stamp-Deed : 1715.00
DC,P.DeWitt Cason,Columbia County B:1043 P:1272

WARRANTY DEED

THIS INDENTURE, made this 14th day of April 2005, BETWEEN CAROL J. SIMONSON, who does not reside on the property described herein, whose post office address is 22630 45th Drive, Lake City, Florida 32024, of the County of Columbia, State of Florida, grantor*, and WILLEMS CUSTOM WOODWORKS, LLC, a Florida Limited Liability Company, whose document number assigned by the Secretary of State of Florida is L03000044710 and whose Federal Tax I.D. Number is 43-2036441*, whose post office address is 137 SW Meadow Terrace, Lake City, Florida 32024, 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 of WINDSWEPT INDUSTRIAL SUBDIVISION, PHASE ONE, a subdivision according to the plat thereof recorded in Plat Book 7, Pages 84 & 85 of the public records of Columbia County, Florida.

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

N.B.: Neither the Grantor nor any member of her family live or reside on the property described herein or any land adjacent thereto or claim any part thereof or any land adjacent thereto as their homestead.

*N.B.: THE PURPOSE OF INCLUDING THE DOCUMENT NUMBER AND THE FEDERAL TAX I.D. NUMBER OF THIS GRANTEE IS TO AVOID CONFUSION BETWEEN THIS GRANTEE AND ANY OTHER LIMITED LIABILITY COMPANY OF THE SAME OR SIMILAR NAME.

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

Carol J. Simonson (SEAL)
Carol J. Simonson

Inst:2005008719 Date:04/15/2005 Time:10:23
Doc Stamp-Deed : 1715.00
DC,P.DeWitt Cason,Columbia County B:1043 P:1274

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 14th day of April 2005, by CAROL J. SIMONSON. She is personally known to me and did not take an oath.

Notary Public
My Commission Expires:

TERRY MCDAVID
MY COMMISSION EXPIRES
January 16, 2006
#DD 079305
Bonded thru
Notary Public Underwriters
NOTARY PUBLIC, STATE OF FLORIDA

ASPEN
PEST CONTROL, INC.

Phone (386) 755-361
Fax (386) 755-388
Toll Free 1-800-616-470

Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.
(386) 755-3611
State License # - JB109476
State Certification # - JF104376

Willems Custom Woodworking Lot 3, Wind Swept Industrial Subdivision, Ft. White, Fl 32038

Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate

Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood

Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8.

Celia Dryden
Authorized Signature

5-18-06
Date

Columbia County Property Appraiser

DB Last Updated: 5/5/2006

2006 Proposed Values

Parcel: 24-4S-16-03120-103

Tax Record | Property Card | Interactive GIS Map | Print

Owner & Property Info

Search Result: 1 of 1

Owner's Name	WILLEMS CUSTOM WOODWORKS LLC
Site Address	WINDSWEPT INDUSTRIAL S/D
Mailing Address	137 SW MEADOW TERR LAKE CITY, FL 32024
Description	LOT 3 WINDSWEPT INDUSTRIAL S/D PHASE 1. ORB 976-1301, SWD 1032-1640, WD 1043-1273.

Use Desc. (code)	WAREHOUSE- (004800)
Neighborhood	24416.00
Tax District	2
UD Codes	MKTA06
Market Area	06
Total Land Area	1.690 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (1)	$52,000.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (1)	$144,109.00
XFOB Value	cnt: (3)	$12,505.00
Total Appraised Value		$208,614.00

Just Value	$208,614.00
Class Value	$0.00
Assessed Value	$208,614.00
Exempt Value	$0.00
Total Taxable Value	$208,614.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
4/14/2005	1043/1273	WD	I	U	07	$245,000.00
12/3/2004	1032/1640	WD	I	U	01	$106,000.00
2/28/2003	976/1301	WD	V	Q		$61,300.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	PREF M B A (008700)	2003	Mod Metal (25)	6400	6816	$144,109.00
	Note: All S.F. calculations are based on exterior building dimensions.					

Extra Features & Out Buildings

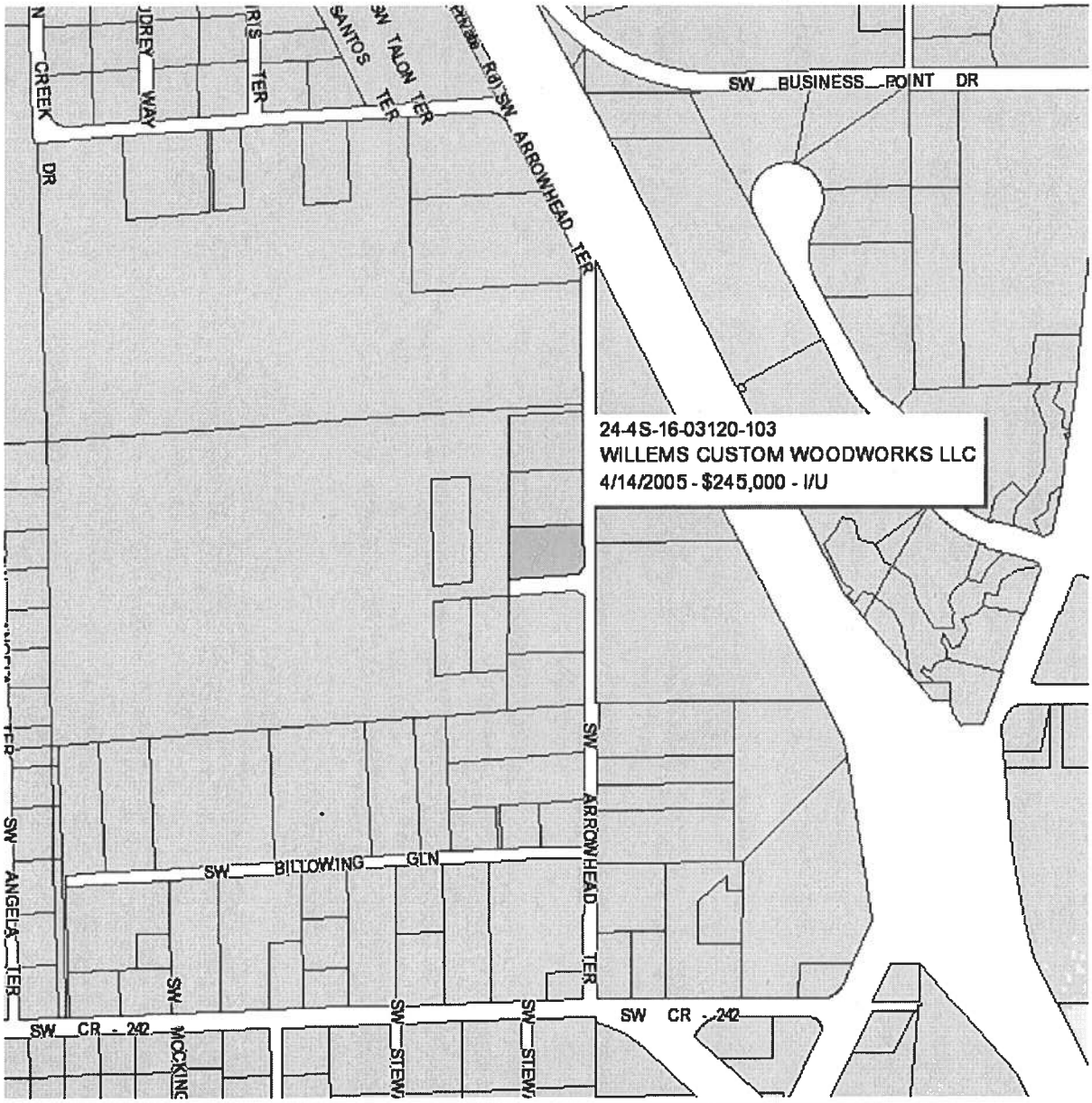
Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0260	PAVEMENT-A	2003	$5,797.00	5270.000	0 x 0 x 0	(.00)
0140	CLFENCE 6	2003	$5,590.00	860.000	0 x 0 x 0	(.00)
0161	3-STRAND B	2003	$1,118.00	860.000	0 x 0 x 0	(.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
004800	WAREHOUSE (MKT)	1.000 LT - (1.690AC)	1.00/1.00/1.00/1.00	$52,000.00	$52,000.00

Columbia County Property Appraiser DB Last Updated: 5/5/2006

1 of 1



Columbia County Property Appraiser

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

PARCEL: 24-4S-16-03120-103 - WAREHOUSE- (004800)

Name:	WILLEMS CUSTOM WOODWORKS LLC	LandVal	$52,000.00
Site:	WINDSWEPT INDUSTRIAL S/D	BldgVal	$144,109.00
Mail:	137 SW MEADOW TERR LAKE CITY, FL 32024	ApprVal	$208,614.00
		JustVal	$208,614.00
Sales Info	4/14/2005 $245,000.00 I / U	Assd	$208,614.00
	12/3/2004 $106,000.00 I / U	Exmpt	$0.00
	2/28/2003 $61,300.00V / Q	Taxable	$208,614.00

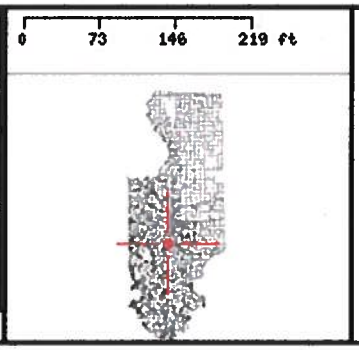
This information, GIS Map Updated: 5/5/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market 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.

Columbia County Property Appraiser

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

PARCEL: 24-4S-16-03120-103 - WAREHOUSE- (004800)

Name:	WILLEMS CUSTOM WOODWORKS LLC	LandVal	$52,000.00
Site:	WINDSWEPT INDUSTRIAL S/D	BldgVal	$144,109.00
Mail:	137 SW MEADOW TERR	ApprVal	$208,614.00
	LAKE CITY, FL 32024	JustVal	$208,614.00
Sales Info	4/14/2005 $245,000.00 I / U	Assd	$208,614.00
	12/3/2004 $106,000.00 I / U	Exmpt	$0.00
	2/28/2003 $61,300.00V / Q	Taxable	$208,614.00



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Doc. 17.50
Doc. 1,715.00

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. 05-104

Property Appraiser's
Parcel Identification No.
24-4S-16-03120-103

Inst:2005008719 Date:04/15/2005 Time:10:23
Doc Stamp-Deed : 1715.00
DC,P.DeWitt Cason,Columbia County B:1043 P:1273

WARRANTY DEED

THIS INDENTURE, made this 14th day of April 2005, BETWEEN CAROL J. SIMONSON, who does not reside on the property described herein, whose post office address is 22630 45th Drive, Lake City, Florida 32024, of the County of Columbia, State of Florida, grantor*, and WILLEMS CUSTOM WOODWORKS, LLC, a Florida Limited Liability Company, whose document number assigned by the Secretary of State of Florida is L03000044710 and whose Federal Tax I.D. Number is 43-2036441*, whose post office address is 137 SW Meadow Terrace, Lake City, Florida 32024, 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 of WINDSWEPT INDUSTRIAL SUBDIVISION, PHASE ONE, a subdivision according to the plat thereof recorded in Plat Book 7, Pages 84 & 85 of the public records of Columbia County, Florida.

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

N.B.: Neither the Grantor nor any member of her family live or reside on the property described herein or any land adjacent thereto or claim any part thereof or any land adjacent thereto as their homestead.

*N.B.: THE PURPOSE OF INCLUDING THE DOCUMENT NUMBER AND THE FEDERAL TAX I.D. NUMBER OF THIS GRANTEE IS TO AVOID CONFUSION BETWEEN THIS GRANTEE AND ANY OTHER LIMITED LIABILITY COMPANY OF THE SAME OR SIMILAR NAME.

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

Carol J. Simonson (SEAL)
Carol J. Simonson

Inst:2005008719 Date:04/15/2005 Time:10:23
Doc Stamp-Deed : 1715.00
DC,P.DeWitt Cason,Columbia County B:1043 P:1274

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 14th day of April 2005, by CAROL J. SIMONSON. She is personally known to me and did not take an oath.

Notary Public
My Commission Expires:

TERRY MCDAVID
MY COMMISSION EXPIRES
January 16, 2006
#DD 079305
Bonded thru
Notary Public Underwriters
NOTARY PUBLIC, STATE OF FLORIDA

ASPEN
PEST CONTROL, INC.

Phone (386) 755-361
Fax (386) 755-388
Toll free 1-800-616-470

Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.
(386) 755-3611
State License # - JB109476
State Certification # - JF104376

Willems Custom Woodworking Lot 3, Wind Swept Industrial Subdivision, Ft. White, Fl 32038

Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate

Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood

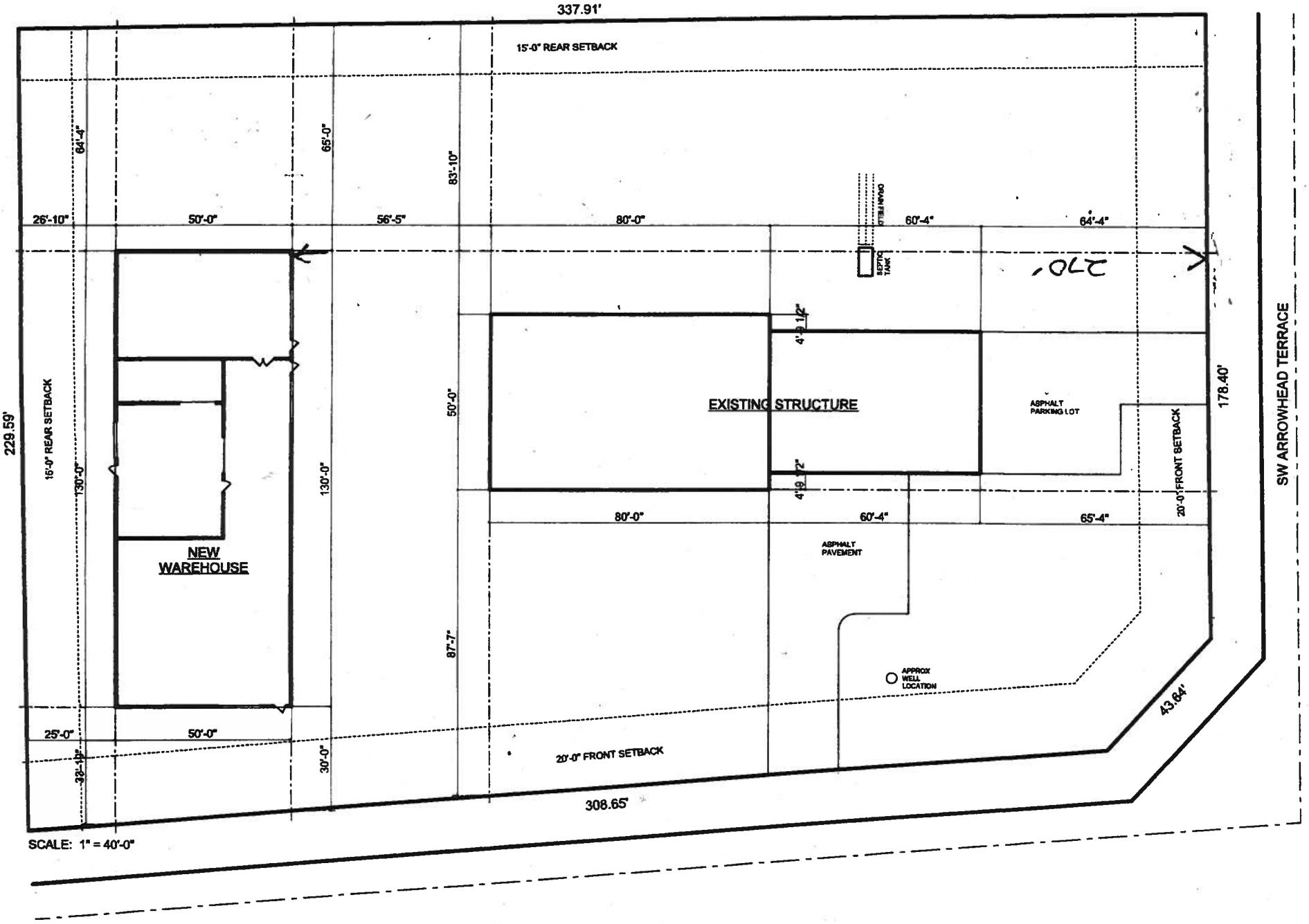
Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8.

Celia Dryden
Authorized Signature

5-18-06
Date

Wilems Custom Cabinetry



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:1SWY487-Z0205104020

Truss Fabricator:	Anderson Truss Company
Job Identification:	6-180--Ray Willems New Shop -- , **
Truss Count:	2
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:

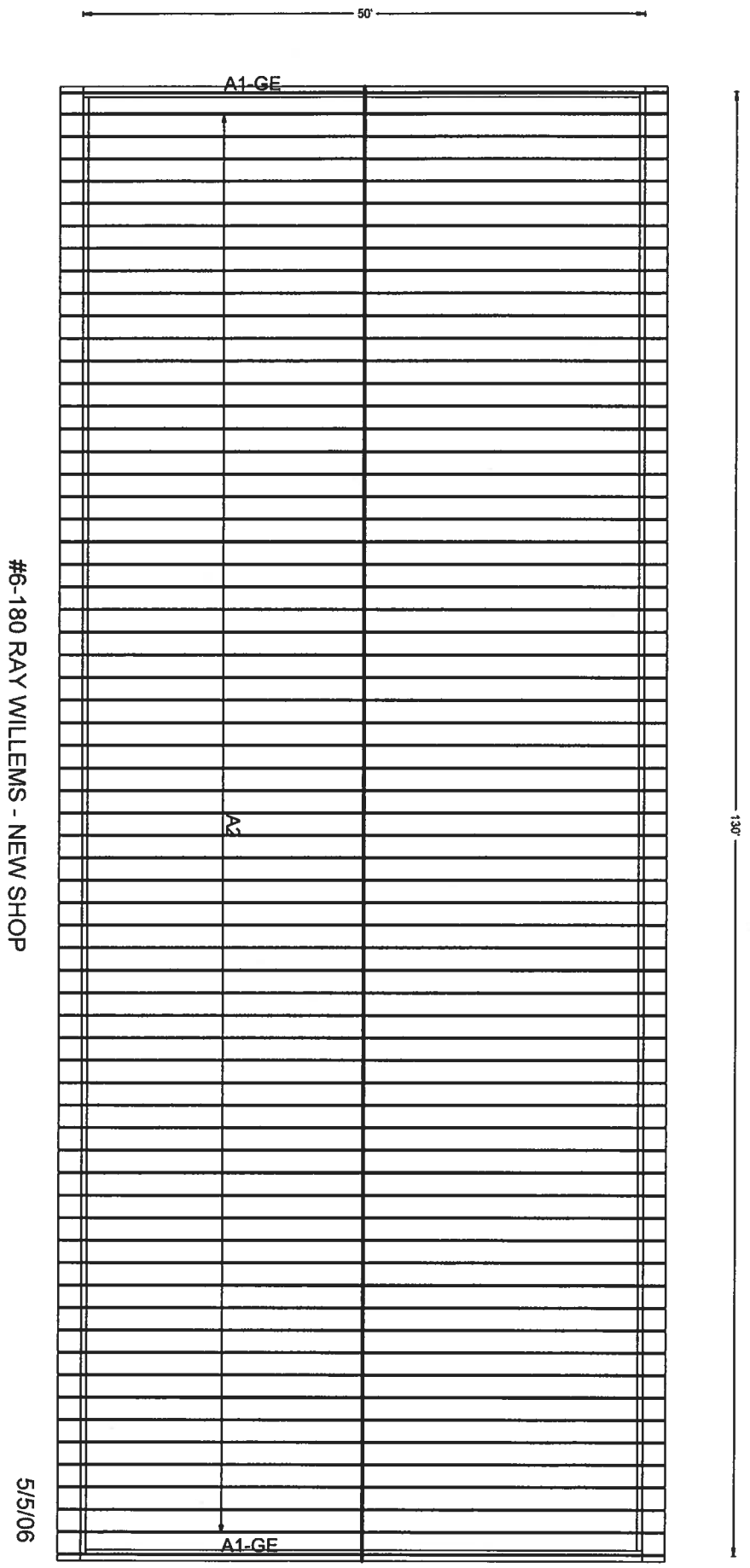
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

Details: A11030EE-GBLLETIN-BRCLBSUB-

#	Ref	Description	Drawing#	Date
1	96314--A1-GE		06125013	05/05/06
2	96315--A2		06125014	05/05/06

Seal Date: 05/05/2006

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



#6-180 RAY WILLEMS - NEW SHOP

5/5/06

623-2672 cell

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

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

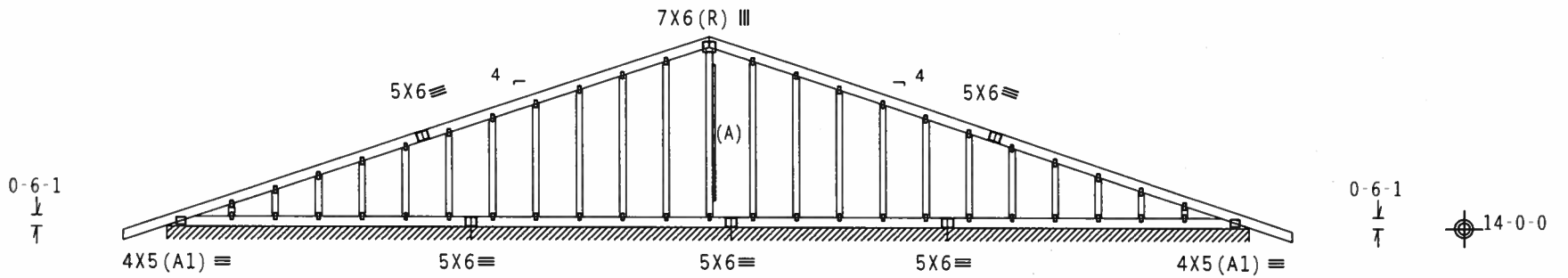
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

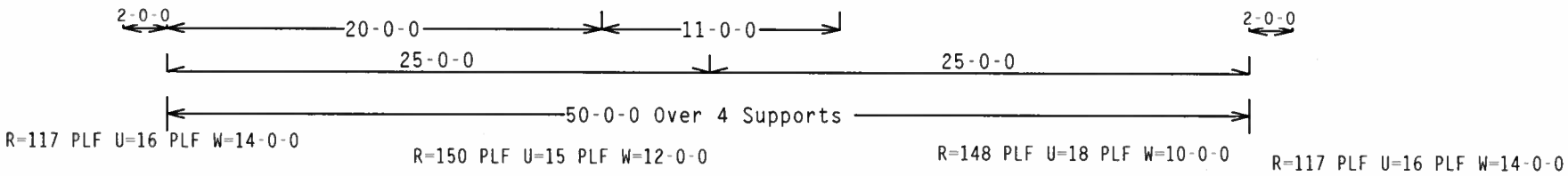
110 mph wind, 18.34 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

See DWGS A11030EE0405 & GBLLETIN0405 for more requirements.

(A) 1x4 SP #3 or better "L" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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

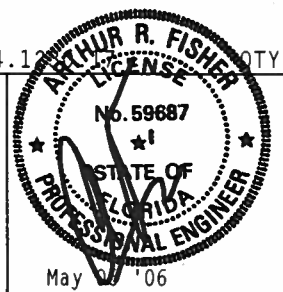
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:2 FL/-/4/-/-/R/- Scale =.125"/Ft.

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.



TC LL	20.0 PSF	REF	R487-- 96314
TC DL	10.0 PSF	DATE	05/05/06
BC DL	10.0 PSF	DRW	HCUSR487 06125013
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	101923
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWY487_Z02

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

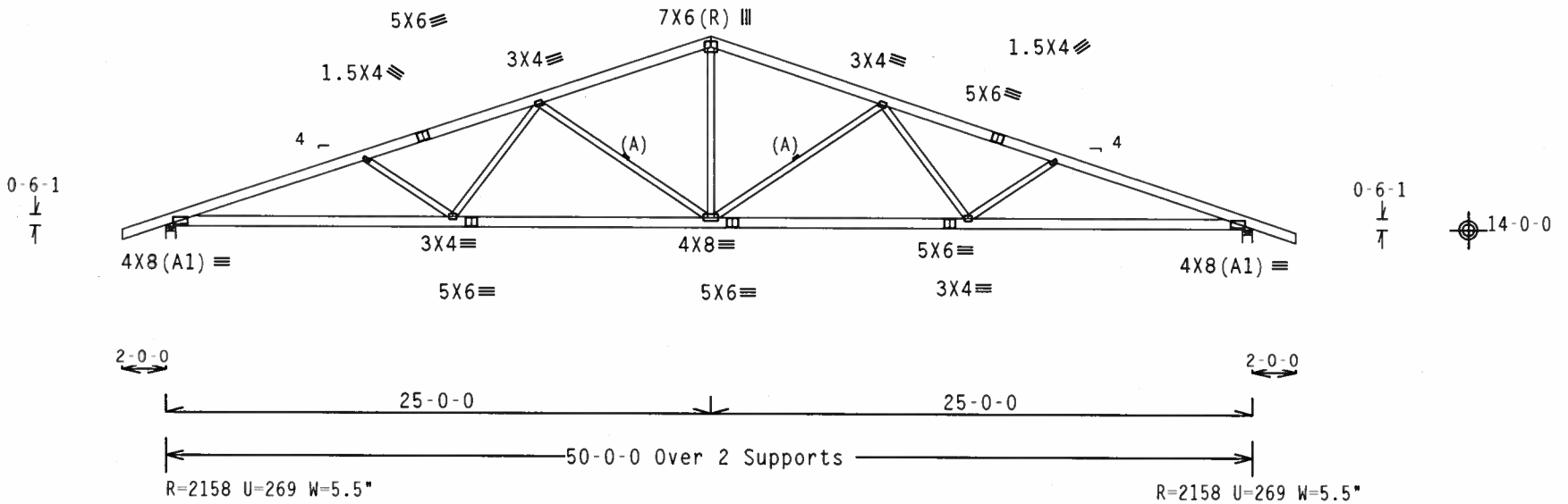
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 18.34 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.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:64 FL/-/4/-/-/R/- Scale =.125"/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-- 96315
TC DL	10.0 PSF	DATE	05/05/06
BC DL	10.0 PSF	DRW	HCUSR487 06125014
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	101919
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWY487_Z02

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

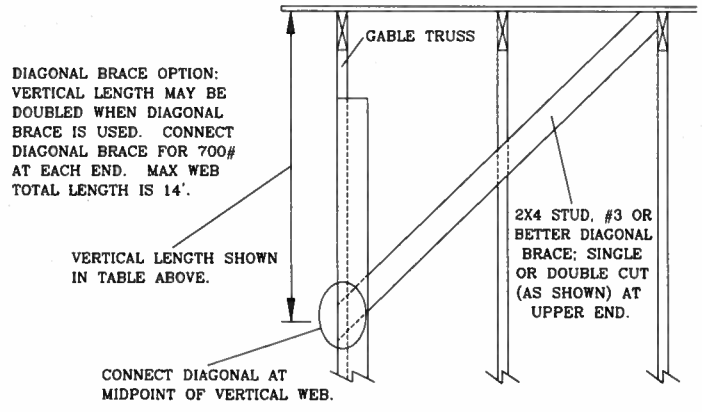
SOUTHERN PINE
#3
STUD
STANDARD

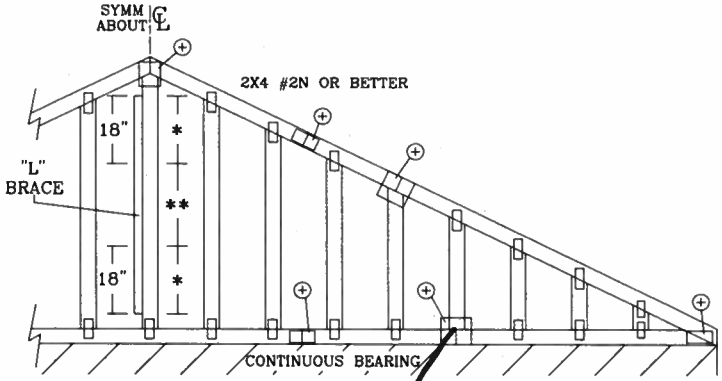
GROUP B:

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

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.

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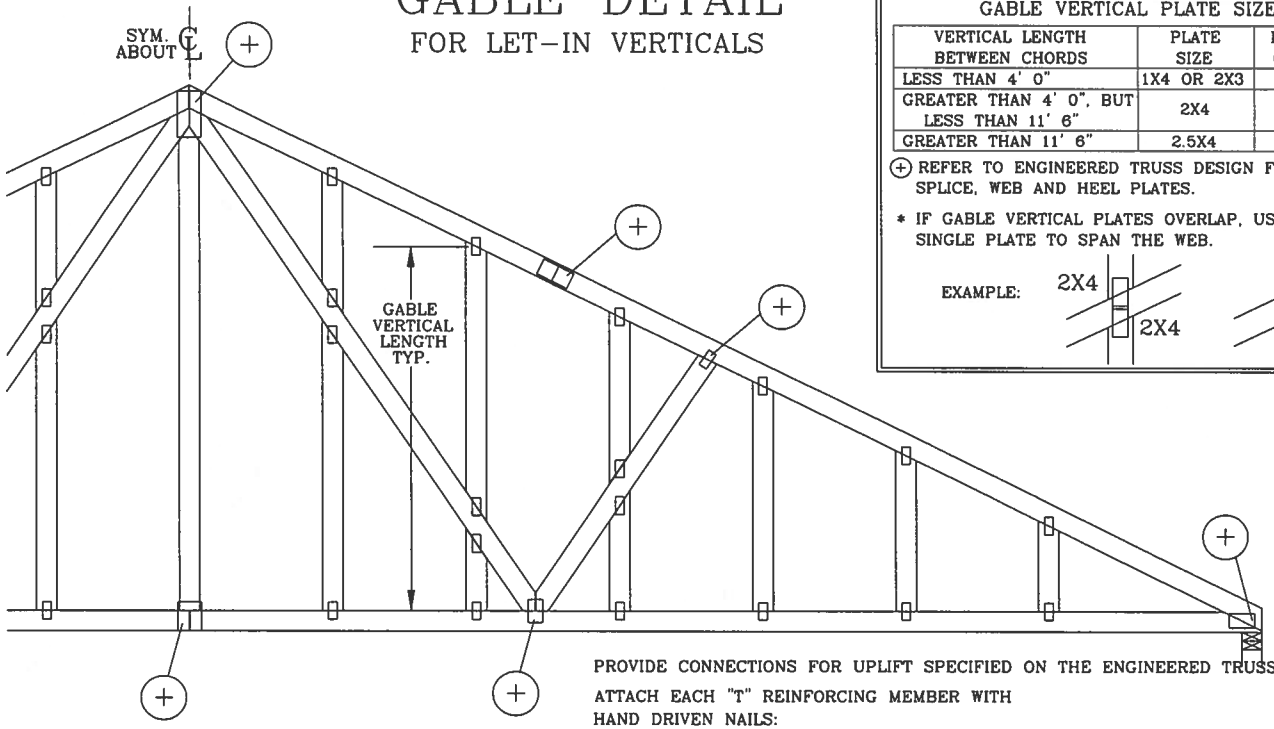
ARTHUR R. FISHER LICENSE NO. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 05

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

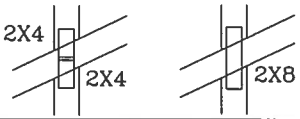


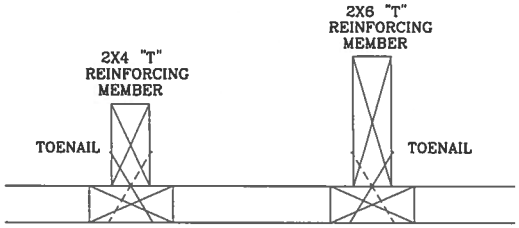
GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

⊕ 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:





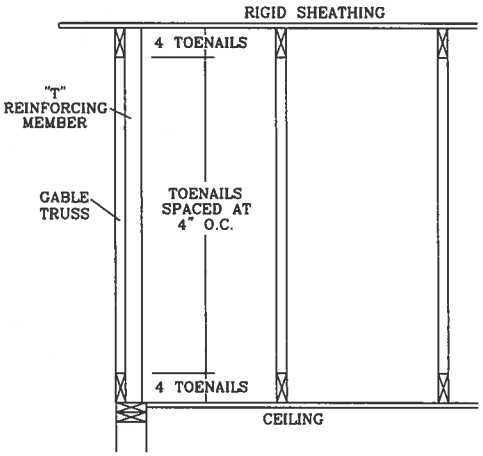
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 0

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

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.

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.

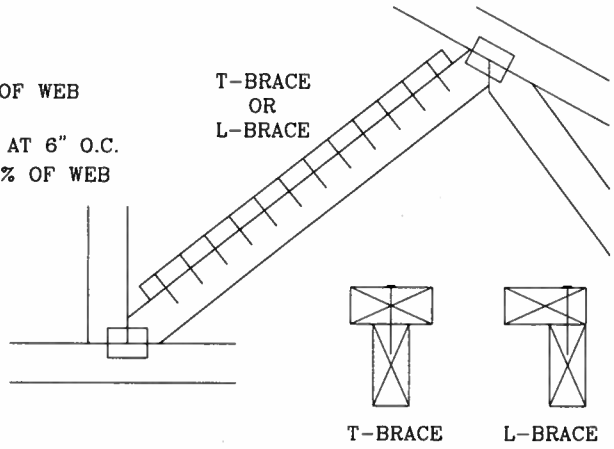
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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.

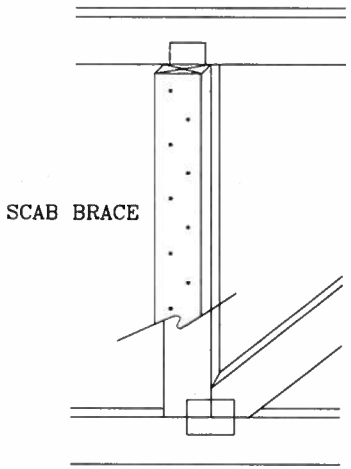
T-BRACING OR L-BRACING:

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

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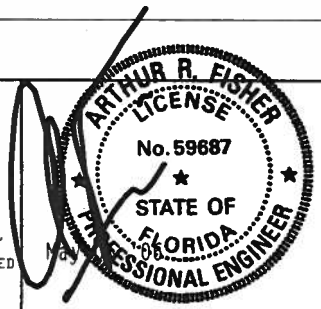


TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

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:1SWY487-Z0205104020

Truss Fabricator:	Anderson Truss Company
Job Identification:	6-180--Ray Willems New Shop -- , **
Truss Count:	2
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

Seal Date: 05/05/2006

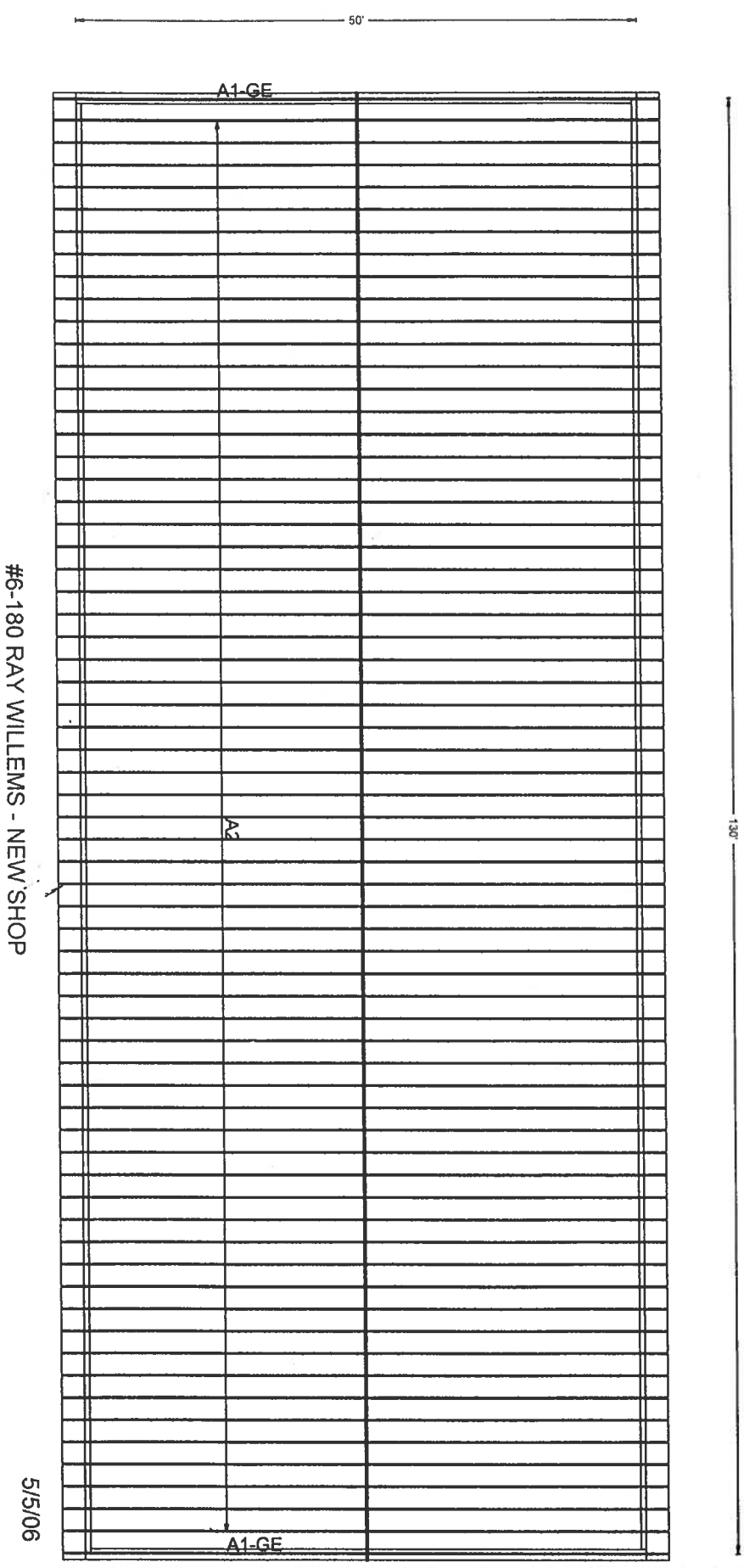
-Truss Design Engineer-
Arthur R. Fisher
Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844

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-

#	Ref	Description	Drawing#	Date
1	96314--A1-GE		06125013	05/05/06
2	96315--A2		06125014	05/05/06



623-2672 cell

(6 180 Ray Willems New Shop . ** A1 GE)

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

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

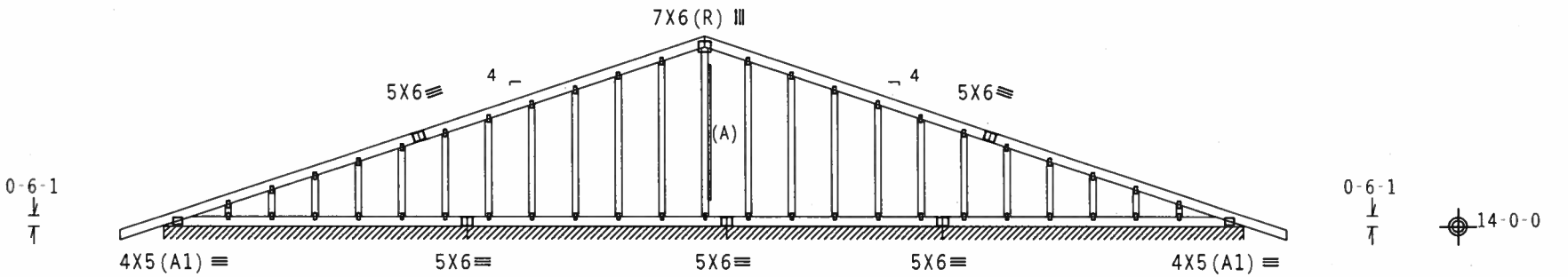
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

110 mph wind, 18.34 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.

(A) 1x4 SP #3 or better "L" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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 QTY:2 FL/-/4/-/-/R/- Scale =.125"/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-- 96314
TC DL	10.0 PSF	DATE	05/05/06
BC DL	10.0 PSF	DRW	HCUSR487 06125013
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	101923
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWY487_Z02

(6 180 Ray Willems New Shop , ** A2)

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

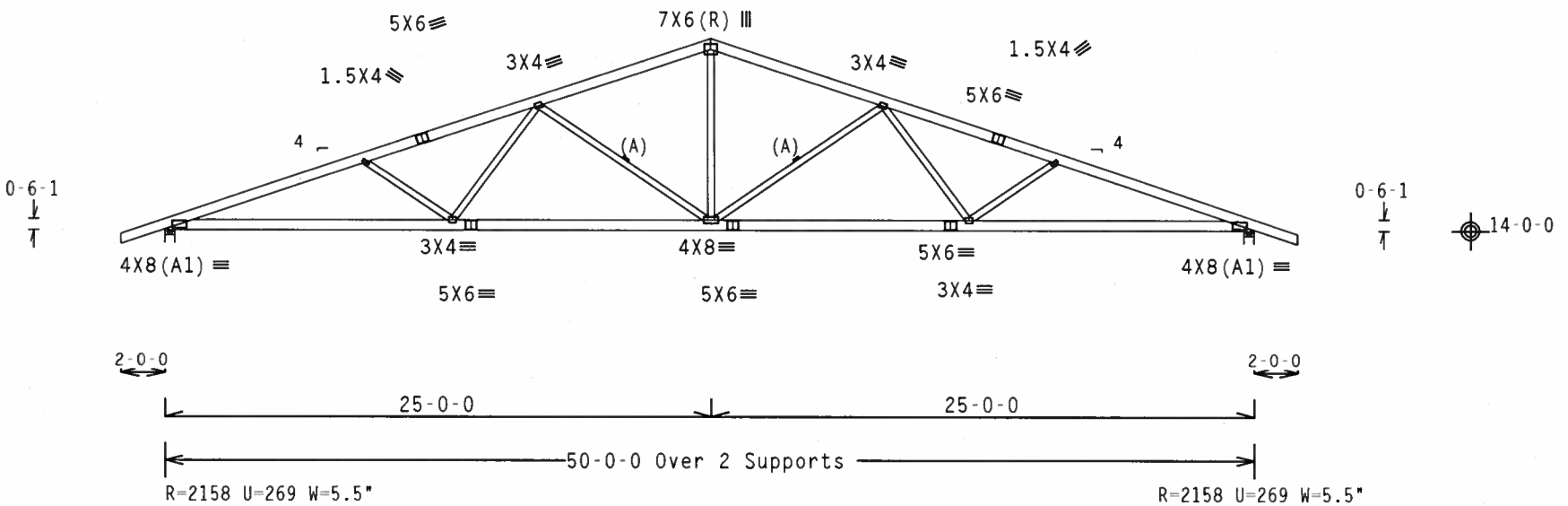
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 18.34 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.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 TY:64 FL/-/4/-/-/R/- Scale =.125"/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 05 '06

TC LL	20.0 PSF	REF	R487-- 96315
TC DL	10.0 PSF	DATE	05/05/06
BC DL	10.0 PSF	DRW	HCUSR487 06125014
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	101919
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWY487_Z02

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

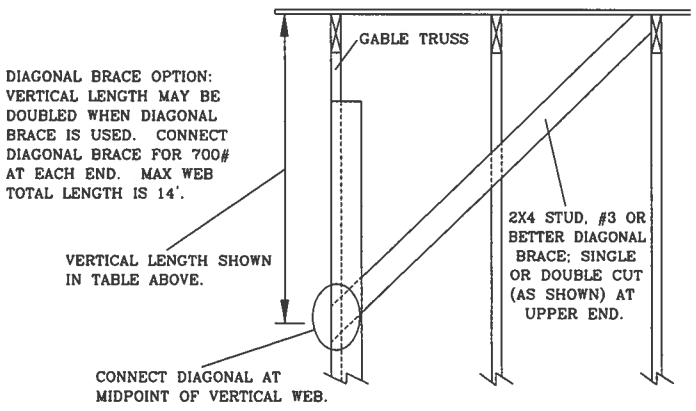
SOUTHERN PINE
#3
STUD
STANDARD

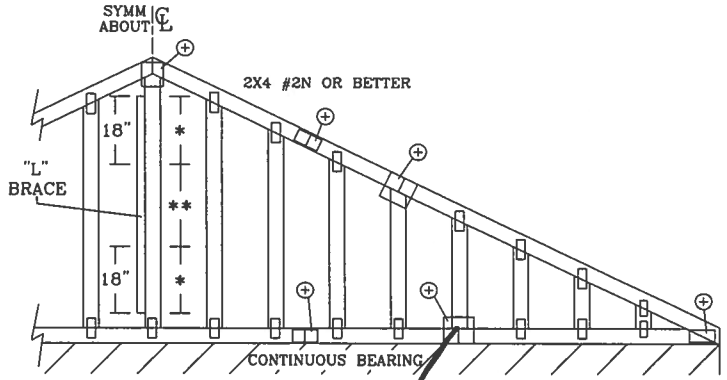
GROUP B:

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

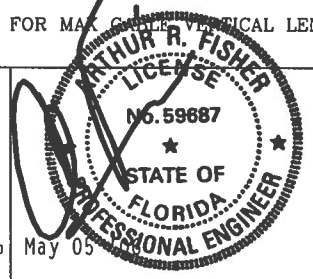
+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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.

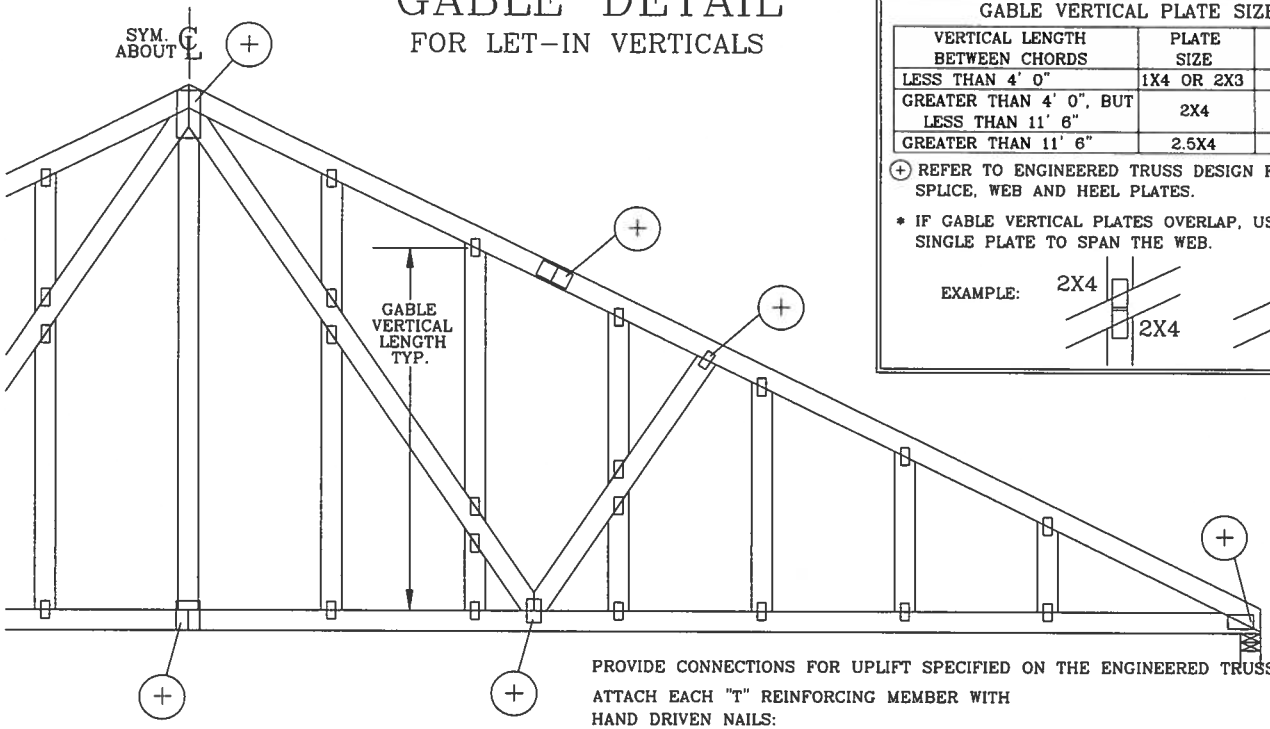


MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

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

GABLE DETAIL
FOR LET-IN VERTICALS

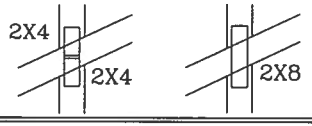


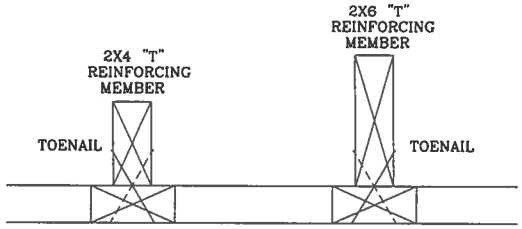
GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

⊕ 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:





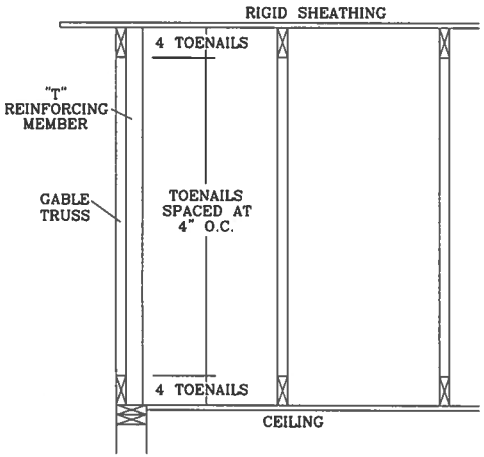
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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.69687 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 0

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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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.

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.

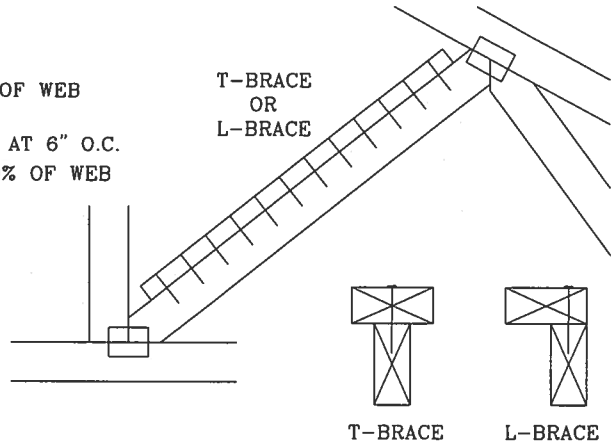
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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.

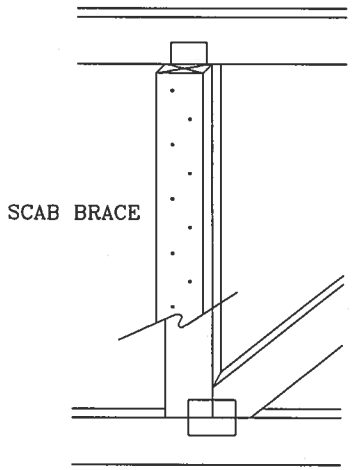
T-BRACING OR L-BRACING:

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

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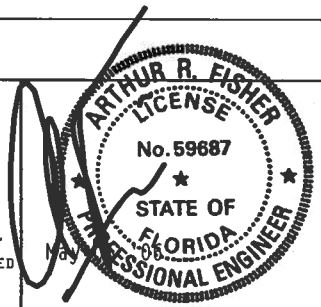
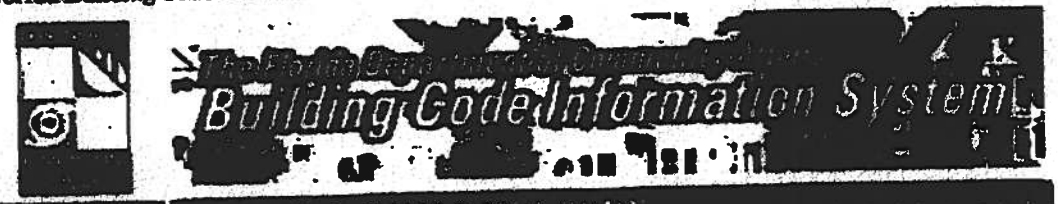


TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			



FLORIDA BUILDING CODE

Overview | User Registration | Organization Registration | User Authentication | Organization Search | Organization Accreditation

Select the organization type, status, or name to find an organization

Organization Type: Product Manufacturer

Manufact. Buildings

Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel Search

Result List for Organizations

Displaying 1-1 of 1

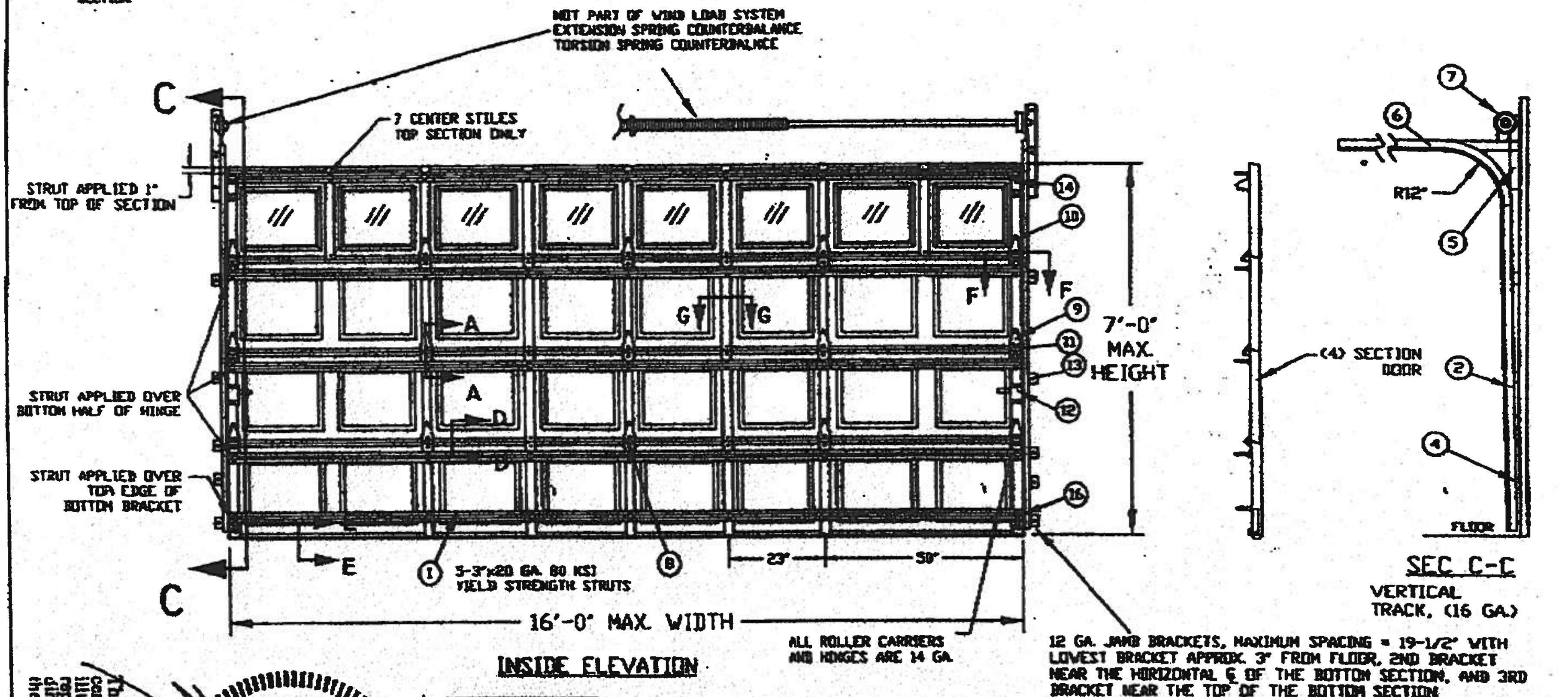
Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2099	Approved
Org Code: PDM System ID: 3585			Site Link: www.gadoo.com			

Displaying 1-1 of 1

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

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21"
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MINIMUM LENGTH OF ROLLER STEM IS 5¼" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR (2) AS TESTED.
9. (A) DROP IN TYPE OF INSULATION IS OPTIONAL



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

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

LISTED SBCCI REPORT No. 2202

TEST REPORTS ON FILE VIDEO 10/19/00 00293D

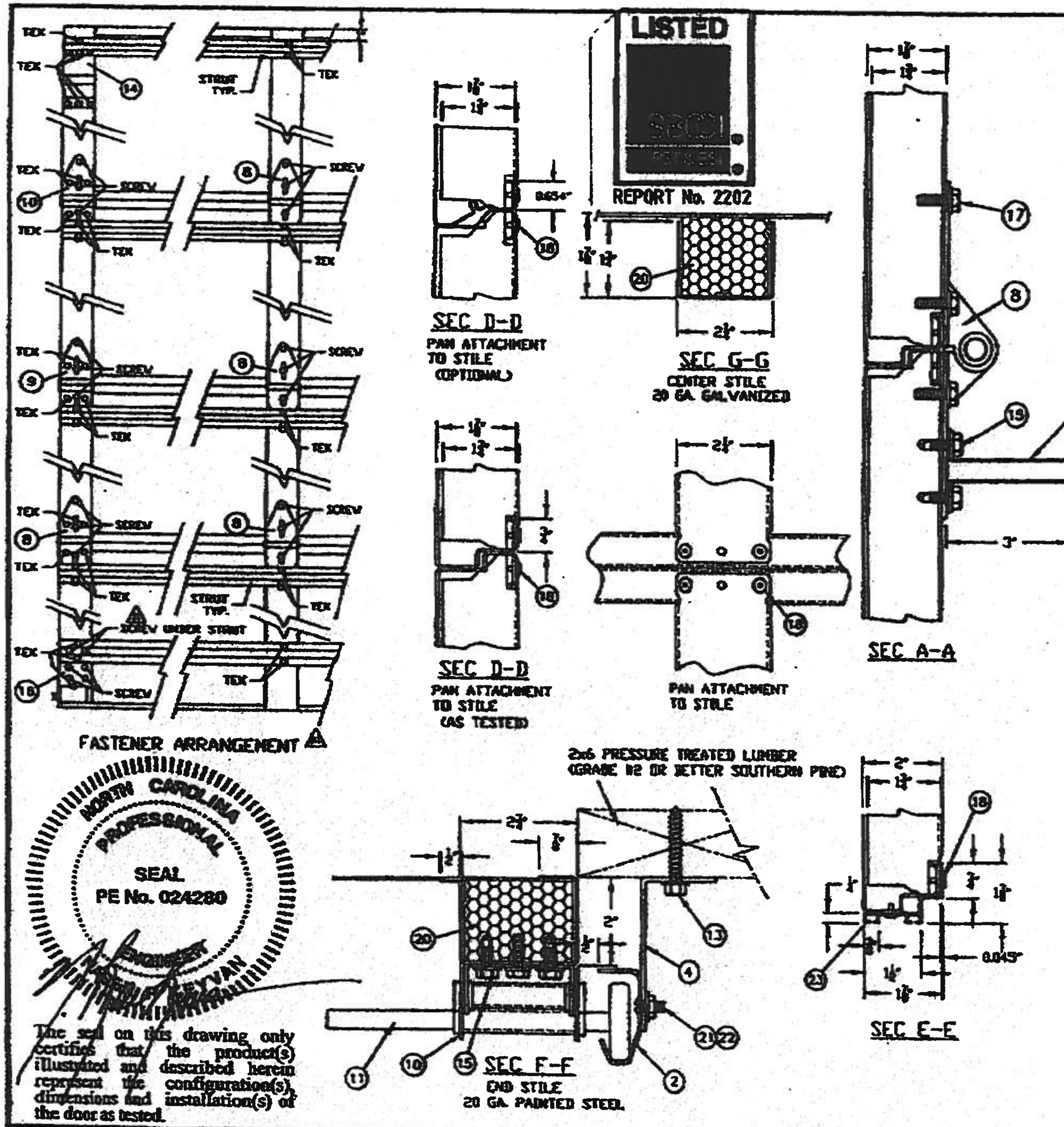
DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

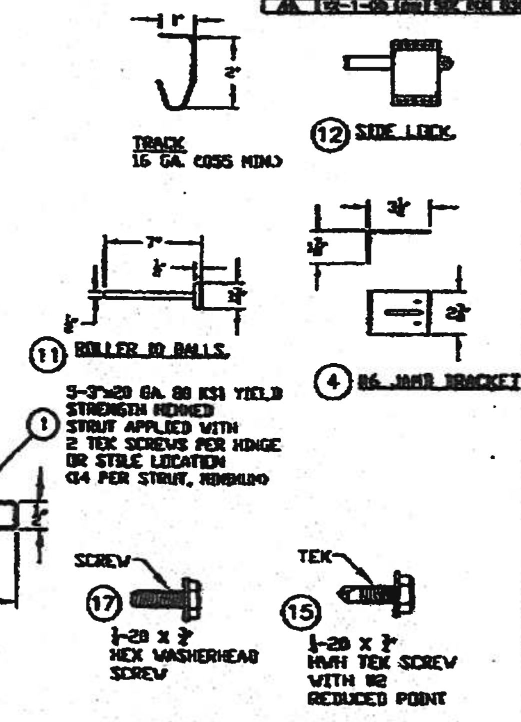
GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN (A)
SERIES 7524, EXTERIOR STEEL =.024" MIN (A)
(TESTED WITH WINDOWS)

MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

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

SCALE: NTS | APPROVED BY: | DRAWN BY: D. WIEDMAN
DATE: 10-20-00 | REVISED: (A) 11-10-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF
PART NUMBER: PAGE 1 OF 2 | DRAWING NUMBER: V13220-1



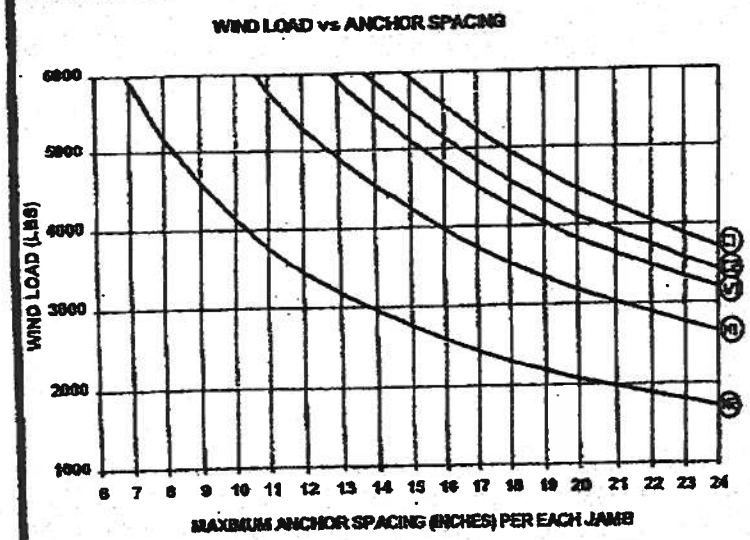


23	3485	BOTTOM RAIL, 6063 T6 ALUM EXT.
22	1396	1/4"-20 X 5/8" RIBBED NECK SCREW
21	4864	1/4"-20 SERRATED FLANGE NUT
20		1.1# DENSITY FILLER BLOCK EPS
19		
18	4385	[illegible]
17	4229	HEX WASHERHEAD SCREW 1/4"-20 X 3/4"
16	[illegible]	BOTTOM ROLLER BRACKET
15	[illegible]	HWH TEK SCREW 1/4-20 X 3/4 W/ REDUCED PT.
14	[illegible]	TOP SUPPORT BRACKET
13	4840	5/16" X 1-5/8" LAG SCREW
12	4710	SIDE LOCK
11	4305	LONG STEM ROLLER 2"
10	[illegible]	ROLLER CARRIER HINGE #3 (14 GA)
9	[illegible]	ROLLER CARRIER HINGE #2 (14 GA)
8	[illegible]	ROLLER CARRIER HINGE #1 (14 GA)
7		COUNTER BALANCE (TORSION BAR & SPRINGS)
6		HORIZONTAL TRACK & ANGLE (16 GA)
5		VERTICAL FLAG ANGLE
4	4595-6	TRACK BRACKET #6 (12 GA)
3		
2		VERTICAL TRACK (16 GA)
1		3" HEMMED STRUT(20 GA) MIN. YIELD STR. 80KSI
ITEM	PART NO.	DESCRIPTION

GADCO

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE
DATE: 11-7-00
REVISED: (B) 12-1-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR-WINDLOAD ±28 PSF
PAGE 2 OF 2
DRAWING NUMBER: W13220-2



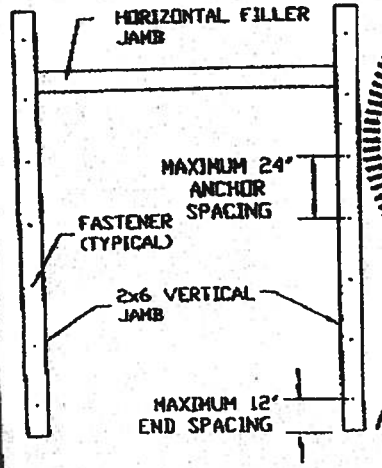
DESIGN LOAD (LBS)/FT² X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

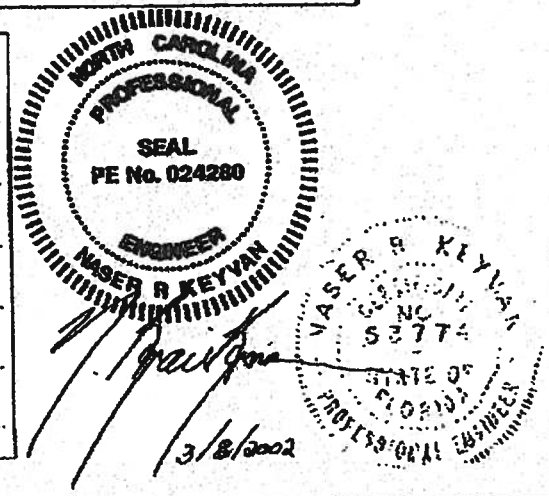
EXAMPLE

30 LBS/FT² X 08 FT WIDE X 8 FT HIGH = 3840 LBS

- (I) USE 22" SPACING
- (II) USE 21" SPACING
- (V) USE 19" SPACING
- (III) USE 16" SPACING
- (IV) USE 10" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS





2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.

2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTD 10," CURRENT EDITION.

3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

4) WOOD FRAME BUILDINGS: STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.

5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI; GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI; REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4"

8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

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

GADCO

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

MINE		BY
6-30-99		

JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

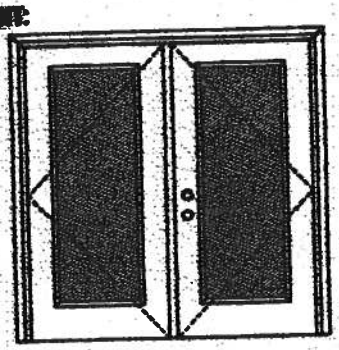
A10560

XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

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

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

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

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


152, 155 Series


156 Series


600 Series


622 Series

1/2 GLASS:


105 Series*


106, 150 Series*


120 Series*


200 Series*


12 RL, 22 RL, 24 RL Series*


107 Series*


108 Series


304 Series

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

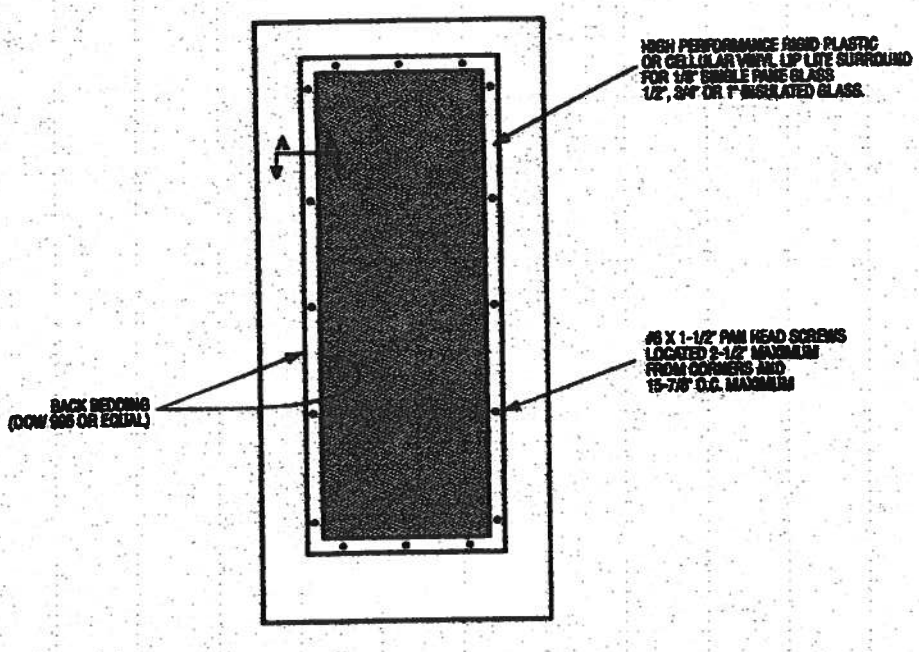
Johnson
EntrySystems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

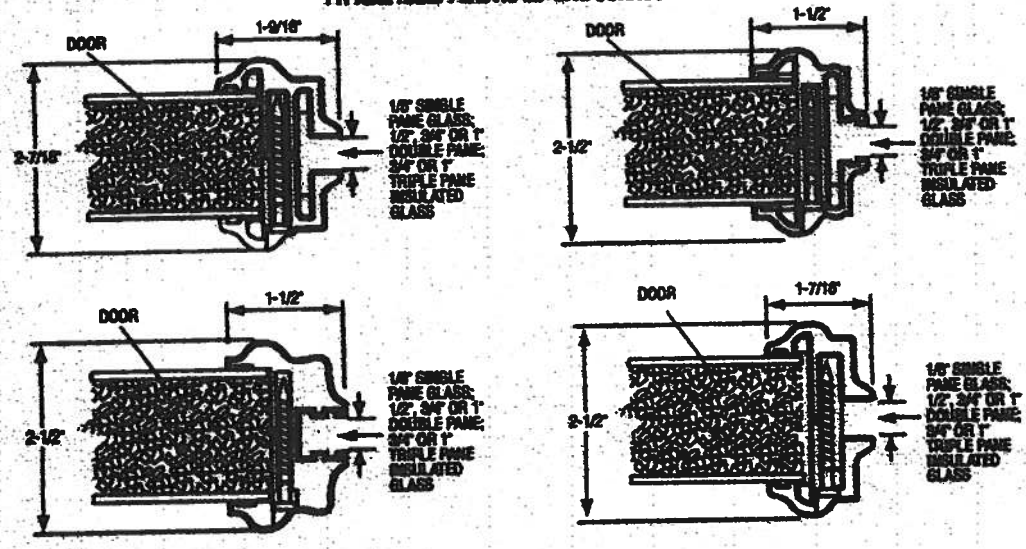
PREMDOR Collection
Premium Quality Doors

Exclusively from
Masonite®
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



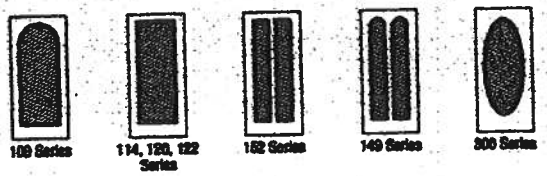
XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:
3/4 GLASS:

FULL GLASS:



CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip tite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Johnson Entry Systems

March 28, 2002
Our continuing program of product improvement makes specifications, design and product details subject to change without notice.

PREMDOR Collection Premium Quality Doors

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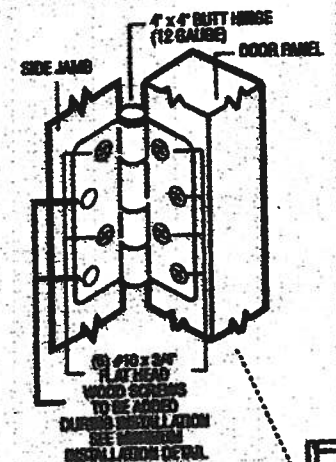
Masonite International Corporation

XX
Unit

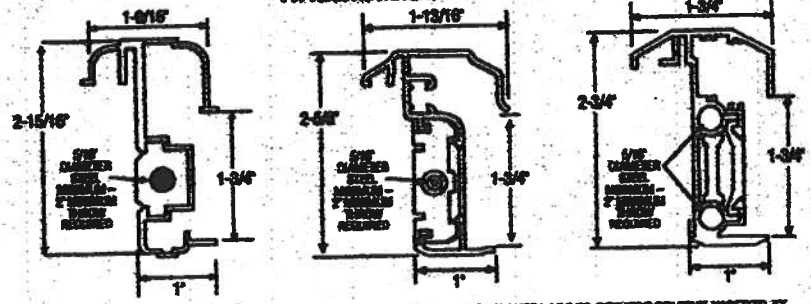
MAD-WI-WA0012-02

OUTSWING UNITS WITH DOUBLE DOOR

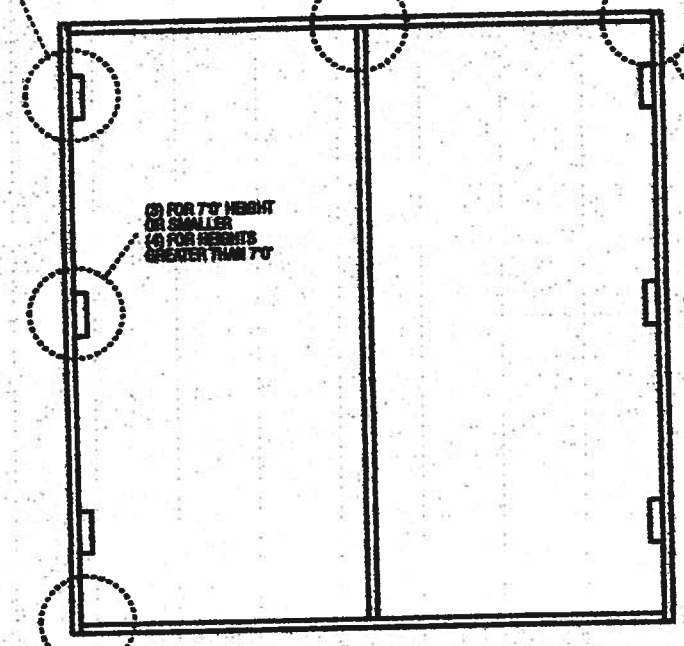
TYPICAL HINGE ATTACHMENT



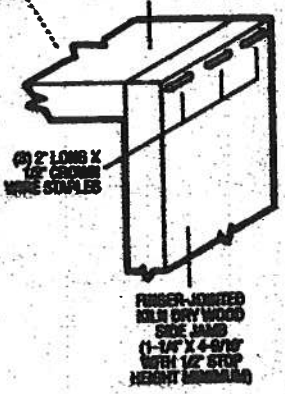
TYPICAL ASTRAGAL PROFILES



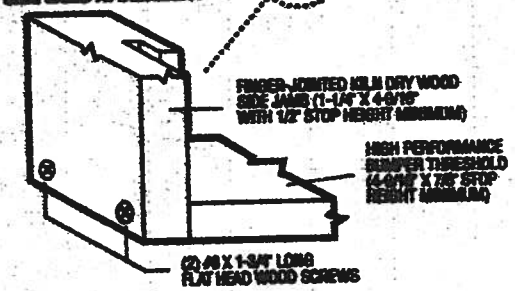
ALUMINUM EXTRUDED ASTRAGAL (0.05" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDRICAL/DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS – LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



TYPICAL HEADER & SIDE JAMB ATTACHMENT



TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



March 29, 2002

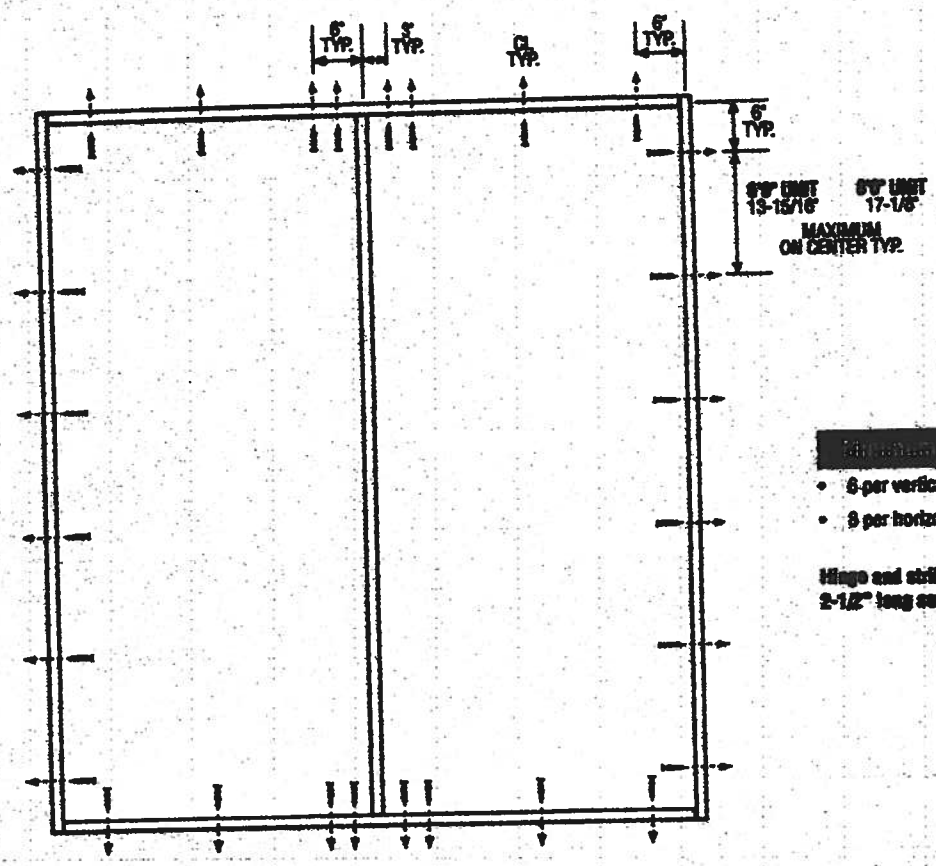
PREMDOOR Collection
Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

XX
Unit

[redacted]

DOUBLE DOOR



[redacted]

- 6 per vertical framing member.
- 3 per horizontal framing member

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

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylinderical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 29, 2002

PREMDOR Molton Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

metal . Roofing

FL3576	MILLENNIUM METALS INC.	Roofing	Non-structural Metal Roofing	Schaefer, P.E. (561) 775-4902	☑ Evaluation Report - Hardcopy Received

Page:

Go

Page 1 / 1

CALCULATED BY ______ DATE ______ JOB NO. ______

CHECKED BY ______ DATE ______ SUBJECT ______ SH. 1 OF 8

SKETCH NO. ______ SCALE ______

CALCULATIONS FOR

ATTACHMENTS FOR

RIB PANELS

29 & 26 Gauge

FOR

MILLENNIUM METALS, INC.

[illegible] HAINES STREET EXPRESSWAY • JACKSONVILLE, FL [illegible]
904-[illegible] • WATTS 1-877-[illegible] (ROOF)
FAX 904-[illegible]

Greatest Mean Height 30' Exposure B

Pitches 3/12 to 12/12

BY

[signature] #6579

2/14/2003

CALCULATED BY ____ DATE ____ SUBJECT ____

CHECKED BY ____ SCALE ____ RIB PANELS

SKETCH NO. ____

ZONE	TYPE OF FASTENER	ATTACHMENT MATERIAL	FASTENER SIZE	WIND SPEED 100 MPH ON CENTER SPACING	110 MPH ON CENTER SPACING	120 MPH ON CENTER SPACING	140 MPH ON CENTER SPACING
ZONE 1 THRU ZONE 3	WOOD SCREW	EXISTING 1/2" TIMBER DECK WITH BATTENS**	#9 x 3 1/2	16" O.C.	16" O.C.	16" O.C.	16" O.C.
		5/8" THICK PLYWOOD	#9 x 1 1/2"	16" O.C.	16" O.C.	16" O.C.	16" O.C.
		2x4 RAFTERS @ 2' O.C. WITH BATTENS	#9 x 3"	24" O.C.	24" O.C.	24" O.C.	24" O.C.
	METAL SCREW	12 THROUGH 18 GAUGE	#12 x 1"	16" O.C.	16" O.C.	16" O.C.	16" O.C.
		20 THROUGH 26 GAUGE	# x 1 1/8	16" O.C.	16" O.C.	16" O.C.	SEE NOTE

TYPICAL ATTACHMENT IS 9" O.C. EXCEPT AS NOTED

NOTE = DOUBLE SCREWS @ 9" O.C. WITH ROWS OF 16" PER DETAIL C

** Battens 2x4 Attached over 1/2" Plywood 12" O.C. (10d) with A #8 x 3" Ring Shank Fastener

2x4 open Rafter Attachment of Battens are the Responsibility of the Engineer of the post Frame Application

Alternative RIB PANEL FASTENING RECOMMENDATIONS (ON RIB)

NOTE: NAIL ATTACHMENTS IS THROUGH MAJOR RIBS.

DETAIL B
FIELD PURLIN
ATTACHMENT #9 x 2 1/2
WOOD FASTENER

DETAIL C
(EAVES, RIDGES & ENDLAPS)
#9 x 2 1/2 WOOD FASTENER

[signature] 3/14/2003

PP 505 9282

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

DJK DATE 2/2003

JOB TITLE MILLENNIUM

JOB NO. 01 2

RIB PANELS :

UPLIFT ATTACHMENTS -

ZONE 1
WOOD SCREWS INTO 1/2" TIMBER
UPLIFT = 152 #/IN x 1/2" = 76# x 1.6 = 121

TABLE 1606.3B
100 MPH = -18.0 #/□'

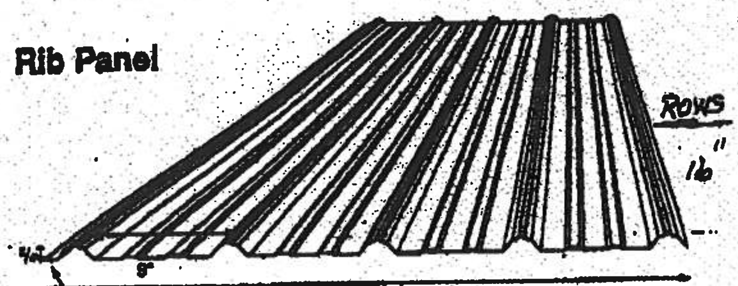
ZONE 2
100 MPH = -34.8 #/□'

ZONE 3
100 MPH = -45.4 #/□'   121# / 45.4 #/□' = 2.66□'

SCREWS @ 9" O.C.   2.66□' / .75' = 3.55' > 1.33'
NOTE - USE 9" O.C. WITH ROWS @ 16" O.C. MAX.

MILLENNIUM METALS, INC.

Rib Panel



ROWS 16"

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Ix in.⁴	Sx in³	Ix in.⁴	Sx in³
							Positive Bending		Negative Bending	
26	80	0.0187	36	36	0.91	45	.0228	.0483	.0252	.1882
29	80	0.0142	36	36	0.68	40.575	.0222	.0374	.0262	.1783

5/8" PLYWOOD
PULL OUT = 152 #/" x .625" = 95# x 1.6 = 152 #/SCREW

ZONE 3 - 152# / 45.4 #/□' = 3.34□' / .75' = 4.46' > 1.33' MAX.

2x4 BATTENS ; @ 24" O.C.
PULL OUT = 152 #/IN x 1.5" = 228# x 1.6 = 364
MAX PULL = .75' x 2' x 45.4 #/□' = 68.1# < 364# CAPACITY

#12 SCREWS INTO METAL
#12 - 18 GAUGE - ULT = 487/3 = 162# x 1.3 = 210#
#14 - 26 GAUGE - ULT = 142/3 = 47.0 x 1.3 = 61.1#

MAX PULL-OUT = .75 x 1.33 x 45.4 #/□' = 45.# < 61.1#

OK FOR #12 SCREWS @ 9" AND ROWS OF 16"

[signature] 2/14/2003

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

JOB TITLE MILLENNIUM

CALCULATED BY DJK DATE 2/2003
CHECKED BY DATE
SKETCH NO. SCALE

SUBJECT RIB PANELS JOB NO.
SH 4 OF 8

RIB PANELS CONT:

110 MPH

ZONE 1 = -24.8 #/ft²
ZONE 2 = -40.1 #/ft²
ZONE 3 = -55.0 #/ft²

WOOD SCREWS

1½" JUMPER - PULL OUT CAPACITY = 121#
9" x 16" = 1.0 = -55# < 121

5/8" PLYWOOD = PULL OUT CAPACITY = 152#
9" x 16" = 1.0 x -55 = 55# < 152

2x4 BATTENS @ 24" O.C.
PULL OUT CAPACITY = 364#
9" x 24" = 1.6 x -55 #/ft² = 82.5# < 364

SCREWS INTO METAL DECK

#12 - THRU 18 GA. = CAPACITY = 210#
#14 - THRU 26 GA. = CAPACITY = 61.1#

MAX PULL OUT = .75 x 1.33 x -55 #/ft² = 55# < 61.1#

FLORIDA BUILDING CODE — BUILDING

1606.2.5 Components and cladding. Pressure for wind loading actions on components and cladding shall be determined from Table 1606.2B for enclosed portions of the building and Table 1606.2C for overhangs, based on the effective area for the element under consideration. The pressures in Table 1606.2C include internal pressure. The pressure shall be applied in accordance with the loading diagrams in Figure 1606.2c.

FROM :JASON ELIXSON FAX NO. :3867552735 Apr. 25 2005 02:19PM P3

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

JOB TITLE MILLENNIUM
CALCULATED BY DJK DATE 2/2003
CHECKED BY DATE
SUBJECT RIB PANELS JOB NO.
SKETCH NO. SCALE SH 5 OF 8

RIB PANELS

120 MPH - UPLIFT

ZONE 1 = -25.9 #/ft²

ZONE 2 = -50.1 #/ft²

ZONE 3 = -65.4 #/ft²

1/2" TIMBER - PULL OUT CAPACITY = 121 #

9"x16" = 1.0 ft² x 65.4 #/ft² = 65.4 # < 121

5/8" PLYWOOD = PULL OUT CAPACITY = 152 #

9"x16" = 1.0 ft² x 65.4 #/ft² = 65.4 # < 152 #

2x4 BATTENS @ 24" O.C.

PULL OUT CAPACITY = 96 #

MAX UPLIFT = .75 x 2' x 65.4 = 98.1 #

SCREWS INTO METAL

#12 - 18 GAUGE = 210 #

#14 - 20 GAUGE = 61 # < 65.4

IN ZONE 3 - USE 9x1.0 = .75 x 65.4 #/ft² = 49 # < 61 #

Page 2 of 2

AIA

2/9/2005

DOLE J. KELLEY, JR., P.E.
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JACKSONVILLE, FLORIDA

JOB TITLE MILLENNIUM
CALCULATED BY DJK DATE 2003
CHECKED BY DATE
SUBJECT RIB PANELS JOB NO.
SKETCH NO. SCALE SH 20 OF 8

RIB PANELS CONT:

140 M.P.H.

ZONE 1 = -35.3 #/ft²
ZONE 2 = -68.1 #/ft²
ZONE 3 = -89.0 #/ft²

½" TIMBER PULL OUT CAPACITY = 121#
UPLIFT = 9"x16" = 1.0 x 89.0 = 89.0# < 121#

⅝" PLYWOOD = PULL OUT CAPACITY = 152#
UPLIFT = 9"x16" = 1.0 x 89 #/ft² = 89# < 152#

2x4 BATTENS @ 24" O.C.
PULL OUT CAPACITY = 364#
UPLIFT = 9"x28"=1.5' x 89 #/ft² = 133# < 364#

SCREWS INTO METAL

#12 - 18 GAUGE = 210# > 89#

#14 - 26 GAUGE = 61#/SCREW — IN ZONE 3 DOUBLE UP ON SCREWS ON EACH SIDE OF RIBS.

9"
0.375x133 = 5" x 89.0 #/ft² = 44.5#/SCREW < 61.0

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

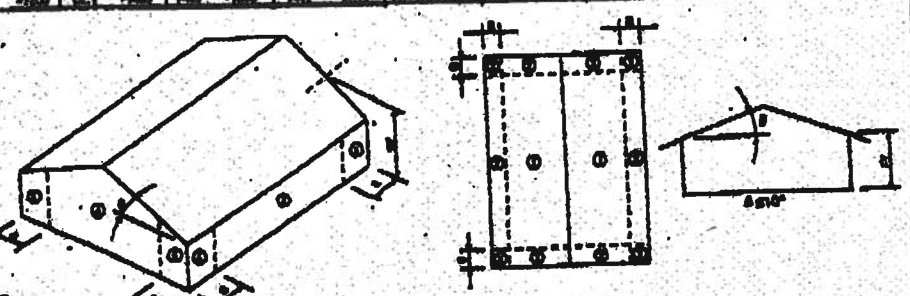
JOB TITLE MILLENNIUM
JOB NO.
SUBJECT RIB PANELS
SH. 7 OF 8

CALCULATED BY DJK DATE 2/2003
CHECKED BY DATE
SKETCH NO. SCALE

UPLIFT VALUES:

TABLE [illegible]
COMPONENT AND CLADDING WIND LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET LOCATED IN EXPOSURE B (psf)

Zone[a]	Effective wind area (SF)	Basic Wind Speed V (mph - 3 second gust)															
		85		90		100		110		120		130		140		150	
Roof Angle > 0-10 degrees																	
1	10.0	10.0	-13.0	10.0	-14.6	10.0	-18.0	10.0	-21.8	10.5	-25.9	12.4	-30.4	14.3	-35.3	16.5	-40.5
1	20.0	10.0	-12.7	10.0	-14.2	10.0	-17.5	10.0	-21.2	10.0	-25.2	11.6	-29.6	13.4	-34.4	15.4	-39.4
1	50.0	10.0	-12.2	10.0	-13.7	10.0	-16.9	10.0	-20.5	10.0	-24.4	10.6	-28.6	12.3	-33.2	14.1	-38.1
1	100.0	10.0	-11.9	10.0	-13.3	10.0	-16.5	10.0	-19.9	10.0	-23.7	10.0	-27.8	11.4	-32.3	13.0	-37.0
2	10.0	10.0	-21.8	10.0	-24.4	10.0	-30.2	10.0	-36.5	10.5	-43.5	12.4	-51.0	14.3	-59.2	16.5	-67.9
2	20.0	10.0	-19.5	10.0	-21.8	10.0	-27.0	10.0	-32.6	10.0	-38.8	11.6	-45.6	13.4	-52.9	15.4	-60.7
2	50.0	10.0	-16.4	10.0	-18.4	10.0	-22.7	10.0	-27.5	10.0	-32.7	10.6	-38.4	12.3	-44.5	14.1	-51.1
2	100.0	10.0	-14.1	10.0	-15.8	10.0	-19.5	10.0	-23.6	10.0	-28.1	10.0	-33.0	11.4	-38.2	13.0	-43.9
3	10.0	10.0	-32.8	10.0	-36.8	10.0	-45.4	10.0	-55.0	10.5	-65.4	12.4	-76.8	14.3	-89.0	16.5	-102.2
3	20.0	10.0	-27.2	10.0	-30.5	10.0	-37.6	10.0	-45.5	10.0	-54.2	11.6	-63.6	13.4	-73.8	15.4	-84.7
3	50.0	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	-33.1	10.0	-39.3	10.6	-46.2	12.3	-53.5	14.1	-61.5
3	100.0	10.0	-14.1	10.0	-15.8	10.0	-19.5	10.0	-23.6	10.0	-28.1	10.0	-33.0	11.4	-38.2	13.0	-43.9
Roof Angle > 10-30 degrees																	
1	10.0	10.0	-11.9	10.0	-13.3	10.4	-16.5	12.5	-19.9	14.9	-23.7	17.5	-27.8	20.3	-32.3	23.3	-37.0
1	20.0	10.0	-11.6	10.0	-13.0	10.0	-16.0	11.4	-19.4	13.6	-23.0	16.0	-27.0	18.5	-31.4	21.3	-36.0
1	50.0	10.0	-11.1	10.0	-12.5	10.0	-15.4	10.0	-18.6	11.9	-22.2	13.9	-26.0	16.1	-30.2	18.5	-34.6
1	100.0	10.0	-10.8	10.0	-12.1	10.0	-14.9	10.0	-18.1	10.5	-21.5	12.4	-25.2	14.3	-29.3	16.5	-33.6
2	10.0	10.0	-25.1	10.0	-28.2	10.4	-34.7	12.5	-42.1	14.9	-50.1	17.5	-58.7	20.3	-68.1	23.3	-78.2
2	20.0	10.0	-22.8	10.0	-25.6	10.0	-31.6	11.4	-38.2	13.6	-45.4	16.0	-53.3	18.5	-61.8	21.3	-71.0
2	50.0	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	-33.0	11.9	-39.3	13.9	-46.1	16.1	-53.5	18.5	-61.4
2	100.0	10.0	-17.4	10.0	-19.5	10.0	-24.1	10.0	-29.1	10.5	-34.7	12.4	-40.7	14.3	-47.2	16.5	-54.2
3	10.0	10.0	-25.1	10.0	-28.2	10.4	-34.7	12.5	-42.1	14.9	-50.1	17.5	-58.7	20.3	-68.1	23.3	-78.2
3	20.0	10.0	-22.8	10.0	-25.6	10.0	-31.6	11.4	-38.2	13.6	-45.4	16.0	-53.3	18.5	-61.8	21.3	-71.0
3	50.0	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	-33.0	11.9	-39.3	13.9	-46.1	16.1	-53.5	18.5	-61.4
3	100.0	10.0	-17.4	10.0	-19.5	10.0	-24.1	10.0	-29.1	10.5	-34.7	12.4	-40.7	14.3	-47.2	16.5	-54.2
Roof Angle > 30-45 degrees																	
1	10.0	11.9	-13.0	13.3	-14.6	16.5	-18.0	19.9	-21.8	23.7	-25.9	27.8	-30.4	32.3	-35.3	37.0	-40.5
1	20.0	11.6	-12.3	13.0	-13.8	16.0	-17.1	19.4	-20.7	23.0	-24.6	27.0	-28.9	31.4	-33.5	36.0	-38.4
1	50.0	11.1	-11.5	12.5	-12.8	15.4	-15.9	18.6	-19.2	22.2	-22.8	26.0	-26.8	30.2	-31.1	34.6	-35.7
1	100.0	10.8	-10.8	12.1	-12.1	14.9	-14.9	18.1	-18.1	21.5	-21.5	25.2	-25.2	29.3	-29.3	33.6	-33.6
2	10.0	11.9	-15.2	13.3	-17.0	16.5	-21.0	19.9	-25.5	23.7	-30.3	27.8	-35.6	32.3	-41.2	37.0	-47.3
2	20.0	11.6	-14.5	13.0	-16.3	16.0	-20.1	19.4	-24.3	23.0	-29.0	27.0	-34.0	31.4	-39.4	36.0	-45.3
2	50.0	11.1	-13.7	12.5	-15.3	15.4	-18.9	18.6	-22.9	22.2	-27.2	26.0	-32.0	30.2	-37.1	34.6	-42.5
2	100.0	10.8	-13.0	12.1	-14.6	14.9	-18.0	18.1	-21.8	21.5	-25.9	25.2	-30.4	29.3	-35.3	33.6	-40.5
3	10.0	11.9	-15.2	13.3	-17.0	16.5	-21.0	19.9	-25.5	23.7	-30.3	27.8	-35.6	32.3	-41.2	37.0	-47.3
3	20.0	11.6	-14.5	13.0	-16.3	16.0	-20.1	19.4	-24.3	23.0	-29.0	27.0	-34.0	31.4	-39.4	36.0	-45.3
3	50.0	11.1	-13.7	12.5	-15.3	15.4	-18.9	18.6	-22.9	22.2	-27.2	26.0	-32.0	30.2	-37.1	34.6	-42.5
3	100.0	10.8	-13.0	12.1	-14.6	14.9	-18.0	18.1	-21.8	21.5	-25.9	25.2	-30.4	29.3	-35.3	33.6	-40.5



1606.2.3 Edge strips and end zones. The width of the edge strips (a), as shown in Figure 1606.2 (c), shall be 10% of the least horizontal dimension or 40% of the eave height, whichever is less but not less than either 4% of the least horizontal dimension or 3 feet (914 mm). End zones as shown in Figure 1606.2b shall be twice the width of the edge strip (a).

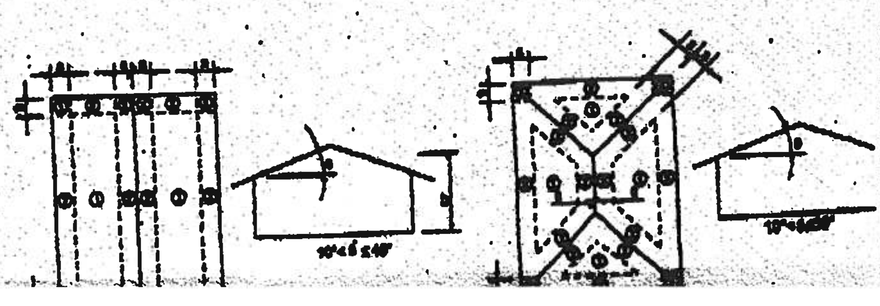


FIGURE 1609.6(2)
COMPONENT AND CLADDING LOADING DIAGRAMS

DOLIE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

JOB TITLE MILLENNIUM

JOB NO.

CALCULATED BY DJK DATE 2/2003

CHECKED BY DATE

SKETCH NO. SCALE

SUBJECT RIB PANELS

SH 8 OF 8

2

DESIGN VALUES.

Table 2.3.2 Frequently Used Load Duration Factors, C_D[1]

Load Duration	C_D	Typical Design Loads

Willems Custom Woodworking

COLUMBIA COUNTY BUILDING DEPARTMENT

COMMERCIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001 WITH AMENDMENTS

ALL REQUIREMENTS LISTED ARE SUBJECT TO CHANGE

EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INCLUDE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 WITH AMENDMENTS BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SIGNATURE AND SEAL OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA. THE FOLLOWING BASIC WIND SPEED AS PER SECTION 1606 SHALL BE USED.

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: **Two (2) complete sets of plans containing a floor plan, site plan, foundation plan, floor/roof framing plan or truss layout, wall sections and all exterior elevations with the following criteria and documents:**

Applicant	Plans Examiner	
☑	☐	**All drawings must be clear, concise and drawn to scale ("Optional" details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.**
☑	☐	**Designers name and signature on document (FBC 104.2.1) If licensed architect or engineer, official seal shall be affixed.**
☑	☐	**Two (2) Copies of Approved Site Plan**
☑	☐	**Minimum Type Construction (FBC Table 500)**
☑	☐	**Wind Load Engineering Summary, calculations and any details required:** a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC 1. Basic wind speed (MPH) 2. Wind importance factor (I) and building category 3. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated 4. The applicable internal pressure coefficient 5. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional
☑	☐	**Fire Resistant Construction Requirements shall include:**
☑	☐	a) Fire resistant separations (listed system)
☑	☐	b) Fire resistant protection for type of construction
☑	☐	c) Protection of openings and penetrations of rated walls (listed systems)
☑	☐	d) Fire blocking and draft-stopping
☑	☐	e) Calculated fire resistance

Fire Suppression Systems shall include: (To be reviewed by Fire Department)

- ☐ ☐ a) Fire sprinklers
- ☐ ☐ b) Fire alarm system (early warning) with name of licensed installer. If not shown on plans or not known at time of permitting, a separate permit shall be required by the licensed installer
- ☐ ☐ c) Smoke evacuation system schematic
- ☐ ☐ d) Stand-pipes
  - Pre-engineered system
  - Riser diagram

Life Safety Systems shall include: (To be reviewed by Fire Department)

- ☐ ☐ a) Occupancy load and egress capacity
- ☐ ☐ b) Early warning
- ☐ ☐ c) Smoke control
- ☐ ☐ d) Stair pressurization
- ☐ ☐ e) Systems schematic

Occupancy Load/Egress Requirements shall include:

- ☑ ☐ a) Occupancy load (gross and net)
- ☑ ☐ b) Means of egress
  - exit access, exit and exit discharge
- ☐ ☐ c) Stair construction/geometry and protection
- ☑ ☐ d) Doors
- ☑ ☐ e) Emergency lighting and exit signs
- ☑ ☐ f) Specific occupancy requirements
  1. Construction requirements
  2. Horizontal exits/exit passageways

Structural Requirements shall include:

- ☑ ☐ a) Soil conditions/analysis
- ☑ ☐ b) Show type of termite treatment (termicide or alternative method)
- ☑ ☐ c) Design loads
- ☑ ☐ d) Wind requirements
- ☑ ☐ e) Building envelope
- ☑ ☐ f) Structural calculations
- ☑ ☐ g) Foundations
- ☑ ☐ h) Wall systems
- ☑ ☐ i) Floor systems
- ☑ ☐ j) Roof systems
- ☑ ☐ k) Threshold inspection plan (if applicable)
- ☐ ☐ l) Stair systems

Materials shall include:

- ☐ ☐ a) Wood
- ☑ ☐ b) Steel
- ☑ ☐ c) Aluminum
- ☑ ☐ d) Concrete
- ☐ ☐ e) Plastic
- ☑ ☐ f) Glass (mfg. Listing for wind zone including details for installation and attachments
- ☐ ☐ g) Masonry
- ☐ ☐ h) Gypsum board and plaster
- ☑ ☐ i) Insulating (mechanical)
- ☑ ☐ j) Roofing (mfg. Listed system for wind zone with installation and attachments)
- ☑ ☐ k) Insulation

Accessibility Requirements shall include:

- ☑ ☐ a) Site requirements
- ☑ ☐ b) Accessible route
- ☑ ☐ c) Vertical accessibility
- ☐ ☐ d) Toilet and bathing facilities
- ☐ ☐ e) Drinking fountains
- ☐ ☐ f) Equipment
- ☐ ☐ g) Special occupancy requirements
- ☐ ☐ h) Fair housing requirements

Interior Requirements shall include:

- ☐ ☐ a) Interior finishes (flame spread/smoke develop)
- ☑ ☐ b) Light and ventilation
- ☐ ☐ c) Sanitation

Special Systems shall include:

- ☐ ☐ a) Elevators
- ☐ ☐ b) Escalators
- ☐ ☐ c) Lifts

Swimming Pools – Commercial – Plans shall be signed and sealed by a Professional Engineer registered in the State of Florida and approved by the Department of Business and Professional Regulation/Health Department Indicating compliance with the Florida Administrative Code, Chapter 64E-9 And Section 424 of the Florida Building Code

Electrical:

- ☑ ☐ a) Electrical wiring, services, feeders and branch circuits, over-current protection, grounding, wiring methods and materials, GFCIs
- ☐ ☐ b) Equipment
- ☐ ☐ c) Special Occupancies
- ☐ ☐ d) Emergency Systems
- ☐ ☐ e) Communication Systems
- ☐ ☐ f) Low Voltage
- ☐ ☐ g) Load calculations
- ☐ ☐ h) Riser diagram

Plumbing:

- ☐ ☐ a) Minimum plumbing facilities
- ☐ ☐ b) Fixture requirements
- ☐ ☐ c) Water supply piping
- ☐ ☐ d) Sanitary drainage
- ☐ ☐ e) Water heaters
- ☐ ☐ f) Vents
- ☐ ☐ g) Roof drainage
- ☐ ☐ h) Back flow prevention
- ☐ ☐ i) Irrigation
- ☐ ☐ j) Location of water supply
- ☐ ☐ k) Grease traps
- ☐ ☐ l) Environmental requirements
- ☐ ☐ m) Plumbing riser

Mechanical:

- ☐ ☐ a) Energy calculation (signed and sealed by Architect or Engineer, registered in the State of Florida)
- ☐ ☐ b) Exhaust systems (clothes dryer exhaust, kitchen equipment exhaust, Specialty equipment exhaust)
- ☐ ☐ c) Equipment
- ☐ ☐ d) Equipment location
- ☐ ☐ e) Make-up air
- ☐ ☐ f) Roof mounted equipment
- ☐ ☐ g) Duct systems
- ☐ ☐ h) Ventilation
- ☐ ☐ i) Combustion air
- ☐ ☐ j) Chimneys, fireplaces and vents
- ☐ ☐ k) Appliances
- ☐ ☐ l) Boilers
- ☐ ☐ m) Refrigeration
- ☐ ☐ n) Bathroom ventilation
- ☐ ☐ o) Laboratory

Gas:

- ☐ ☐ a) Gas piping
- ☐ ☐ b) Venting
- ☐ ☐ c) Combustion air
- ☐ ☐ d) Chimney's and vents
- ☐ ☐ e) Appliances
- ☐ ☐ f) Type of gas
- ☐ ☐ g) Fireplaces
- ☐ ☐ h) LP tank locations
- ☐ ☐ i) Riser diagram/shut offs

☐ ☐ **Disclosure Statement for Owner Builders**

☐ ☐ ***Notice of Commencement Required Before Any Inspections will be Done**

☐ ☐ **Private Potable Water:**

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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS:

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all construction projects; If you were required to have a Site and Development Plan Approval, list SDP number.

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

3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic tank approval or sewer tap is required

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

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

6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit must be made **($25.00)**. Culvert installation for commercial, industrial and other uses shall **conform to the approved site plan or to the specifications of a registered engineer. Joint use culverts will comply with Florida Department of Transportation specifications**. If the project is to be located on a F.D.O.T. maintained road, then an F.D.O.T. access permit is required.

7. **Suwannee River Water Management District Approval:** All commercial projects must have ~~an SRWMD permit issued or an exemption letter, before a building will be issued.~~

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

NOTICE:

ADDRESSES BY APPOINTMENT ONLY!

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

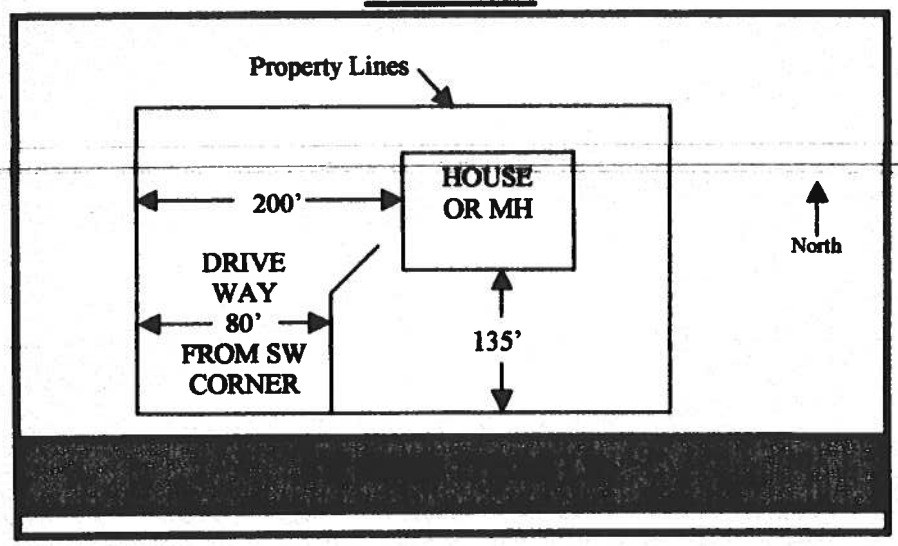
YOU CAN NOT OBTAIN A NEW ADDRESS OVER THE TELEPHONE. MUST MAKE AN APPOINTMENT!

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

THE REQUESTER WILL NEED THE FOLLOWING:

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

SAMPLE:



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

Joe H

Products

fire wall garage doors
06 06 06

The Genuine. The Original.

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Drawings/Specs
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Email Page
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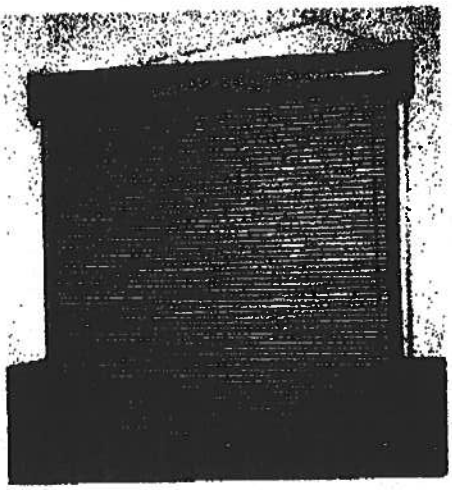
Home >> Commercial Products >> Fire Doors >> 630

Fire Doors 630



When your project requires a listed rolling service fire door, the 630, 631 and 634 Series provide a better all-around solution. The 630/631/634 Series are designed to meet the most stringent fire safety standards in a range of labels, sizes, and mounting options. These NFPA-80-compliant doors are also available in a variety of slat profiles, material finishes and colors — so you won't have to sacrifice style in favor of functionality.

Standard Features At a Glance

- Available with UL and FM 3-hour labels for doors up to 12' (3.7 m) wide or high (630 Series only)
- Available with UL oversize label for doors up to 14' (4.2 m) wide or high (630 Series only)
- NFPA-80 compliant
- Labeled to meet New York City and California State Fire Marshal fire safety standards
- Fusible link separates at 165°F (74°C) to automatically close the door
- Governor controls rate of door descent during a fire
- UL-listed welded wall angle (630 Series) for face-of-wall applications in masonry fire walls eliminates drill and tap processes
- 1 1/2-hour UL label for non-masonry applications (630 and 631 Series)
- Guide assemble rest on sill for flush guide installation
- Locking standards
- Slide bolt on push-up and crank
- Drivetrain on motor

Options

- Fire Sentinel™ time-delay release device
- FireLite® vision lites in 4-, 3-, and 1 1/2-hour labels
- UL-listed brush-type smoke gaskets
- Photoelectric or ionization-type smoke detectors
- Chain hoist (below 80 sq. ft. or 7432 sq.mm), crank or electric operation
- Powder-coat paint finish in 197 colors, or color-matched to architect's specification

Commercial Products
- Sectional Doors
- Rolling Doors
- Fire Doors
  - FireCoil
    Optima
    Standard
  - FireCurtain
- Traffic Doors
- Operators
- Specifications
- Choosing a Door

Residential Products

Dealer Locator

Literature

FIRECOIL™ STANDARD

Compa

Click to view larger image

Quick Links

Features | Product Details | Finishes/Options | Specs/Drawings | Tech Info |

Door	
Type	Commercial Fire Doors
Model	FireCoil STANDARD
Size	18' with Slat Restrictions
Operation	Manual, Hand Chain; Motor: Bracket or Wall Mount
Drive	Left or Right Hand
Fire Rating	3-Hour Factory Mutual, 4-Hour Underwriters Laboratory
Fire Listing	FM, UL, CSFM, ISO-3008, C-UL
Curtain	
Slat Type	Small Contour, Large Contour, Flat
Endlocks/Baffled Endlocks	Zinc Plated Malleable Cast Iron
Material	Steel
Gauge	20 or 22-Gauge
Bottom Bar	Hot-Rolled
Color/Finish	Standard: Gray or Tan; Optional ArmorBrite Powdercoated or Galvaniz
Guides	
Mounting	Face (E or Z) or Jamb
Guide Constuction	Hot-Rolled Steel Angle
Jamb Constuction	Steel, Masonry or Non-masonry
Wear Strips	Polyethelene Tape (UHMW)
Color/Finish	Black or ArmorBrite Powdercoated
Counterbalance System	

Type	Torsion Spring System (Standard or High-Cycle) or SureTest Weight
Head Plates	Thickness: 3/16", 1/4", 3/8", 1/2"
Barrel	Size: 4", 6", 8", 10"
Springs	Inside Diameters: 2-7/8", 4-9/16", 6-1/4", 8-3/8"; Configuration: Single, I Tri-Plex
Bearing Plug Assembly	Removable: 4" or 6"; Welded: 8", 10", 12"
Shafts	Solid Shaft: 1", 1-1/4", 1-1/2", 1-3/4"
Ring-Splits	As required
Counterbalance Hardware	Includes all required components.
Enclosures	
Hood	Type: Round; Material: Steel (24 ga.)
Weight Counterbalance Cover	Material: Steel (24 ga.)
HeadPlate Cover	Material: Steel (24 ga.)
Color/Finish	Standard: Gray or Tan; Optional ArmorBrite Powdercoated
Release System	
Type	Fusible Links (McCabe, Globe); Electro-Thermal Links (Standard, Manu Manual with Junction Box); Solid State Fail-Safe Units (SS-90 models / C)
Descent Control	Mechanical Oscillating, Viscus Governor, Centrifugal Governor
Hardware/Accessories	
Miscellaneous Parts	Curtain Stops, Hood Support
Nuts/Bolts	Headplate Bolts, Lag Screws, Thread Cutters, Masonry Anchors, Hood Drive Pins
Lock	Locking Bars, Hand-Chain Lock, or Cylinder Lock
Seals	Header Brush, Flame Baffle, Guide Brush
Detection Equipment	Ionization, Photo-Electric, Heat
Warranty	
Counterbalance	1 Year or Cycle Life
Parts	1 Year

Download FireCoil Brochure PDF file

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: 0606-06

Contractor: Isaac Construction Owner Willems Custom woodworks Windswept Industries lot 3 phase 1.

On the date of June 12, 2006 application 0606-06 and plans for construction of a Commercial Warehouse 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 0606-06 when making reference to this application.

This is a plan review for compliance with the Florida Building Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

1. Please submit a letter of approval from the Suwannee River Water Management District office, which permits the structure to be constructed without any additional permits from the water management district.
2. The Florida Building Code 2004 section 106.3.5 Minimum plan review criterion for commercial buildings requires a soil conditions/analysis be

preformed. Therefore please follow the prescribed testing methods of chapter 18 to reveal the soil load bearing capacities. Please have a registered professional conduct subsurface explorations at the project site upon which foundations are to be constructed, a sufficient number (not less than four, one boring on each corner of the building foundation) borings shall be made to a depth of not less than 10 feet (3048 mm) below the level of the foundations to provide assurance of the soundness of the foundation bed and its load-bearing capacity.

3. A review of the floor plans as submitted indicates that the commercial warehouse will have Moderate-hazard storage, Group S-1. usage and Factory Industrial Group F-1 occupancy includes, among others, the use of a building or structure, or a portion thereof, for assembling, disassembling, fabricating, finishing, manufacturing, packaging, repair or processing operations that are not classified as a Group H hazardous or Group S storage occupancy.
    a. 302.1.1 Incidental use areas: Spaces which are incidental to the main occupancy shall be separated or protected, or both, in accordance with Table 302.1.1 or the building shall be classified as a mixed occupancy and comply with Section 302.3. Areas that are incidental to the main occupancy shall be classified in accordance with the main occupancy of the portion of the building in which the incidental use area is located. Room area: Paint shops, not classified as Group H, located in occupancies other than Group F

required separation 2 hours; or 1 hour and provide automatic fire-extinguishing system. This would include the finish prep area walls which on the plans is located between the warehouse and storage areas of the building. Please show a detail which will provide the required 2 hour separation for these walls which separate the warehouse and the storage area from the finish prep area. The 10'X12' rollup door will required to have the same 2 hour rating.

4. In the finish prep area any emergency means of egress needs to be established. The 10'X12' rollup door will not meet the code as a means of egress from the finish prep area.

Joe Haltiwanger

Plan Examiner
Columbia County Building Department

FLORIDA BUILDING CODE

Overview | User Registration | Organization Registration | User Authorization | Organization Search | Organization Accreditation

Select the organization type, status, or name to find an organization

Organization Type: Product Manufacturer

Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel Search

Result List for Organizations

Displaying 1-1 of 1

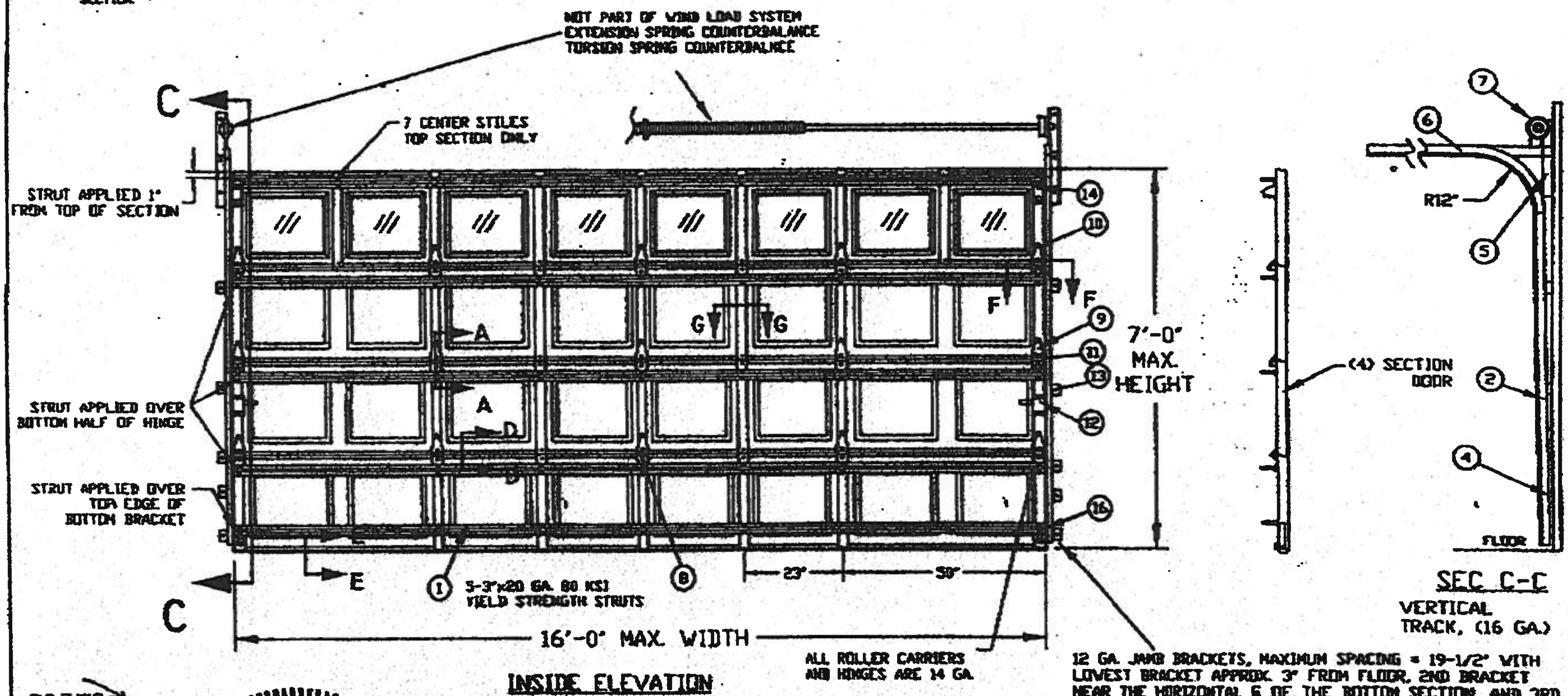
Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2099	Approved
Org Code: PDM System ID: 3585			Site Link: www.gadoor.com			

Displaying 1-1 of 1

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

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21"
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MINIMUM LENGTH OF ROLLER STEM IS 5¼" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR (2) AS TESTED.
9. (A) DROP IN TYPE OF INSULATION IS OPTIONAL.



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

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

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

LISTED SBCCI REPORT No. 2202

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

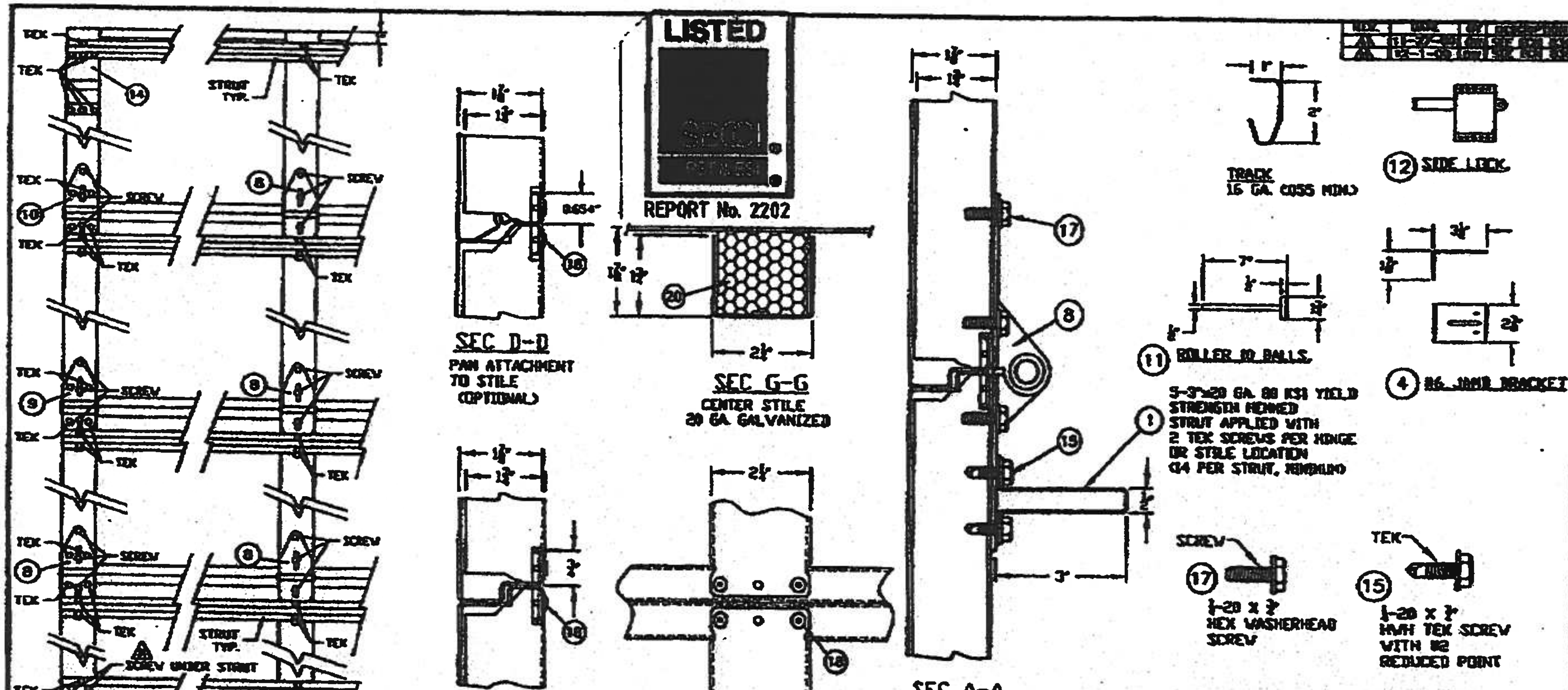
DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN (A)
SERIES 7524, EXTERIOR STEEL =.024" MIN (A)
(TESTED WITH WINDOWS)

MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

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

SCALE: NTS | APPROVED BY: | DRAWN BY: D. WIEDMAN
DATE: 10-20-00 | REVISED: (A) 11-10-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF
PART NUMBER: | PAGE 1 OF 2 | DRAWING NUMBER: V13220-1



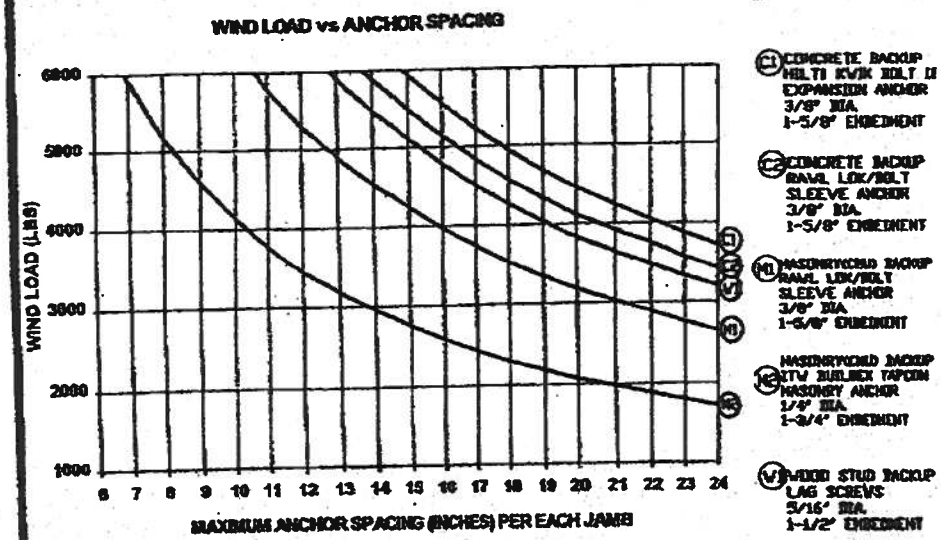
ITEM	PART NO.	DESCRIPTION
23	[illegible]	BOTTOM RAIL, 6063 T6 ALUM EXT.
22	[illegible]	1/4-20 X 3/4" [illegible] NECK SCREW
21	[illegible]	1/4-20 SERRATED FLANGE NUT
20		[illegible] EPS
19		
18	[illegible]	POP RIVET 5/32" STEEL
17	[illegible]	HEX WASHERHEAD SCREW 1/4"-20 X 3/4"
16	[illegible]	BOTTOM ROLLER BRACKET
15	[illegible]	HWH TEK SCREW 1/4-20 X 3/4 W/ REDUCED PT.
14	[illegible]	[illegible] BRACKET
13	[illegible]	5/16" X 1-5/8" LAG SCREW
12	[illegible]	SIDE LOCK
11	[illegible]	LONG STEM ROLLER 2"
10	[illegible]	ROLLER CARRIER HINGE [illegible]
9	[illegible]	ROLLER CARRIER HINGE [illegible]
8	[illegible]	ROLLER CARRIER HINGE [illegible]
7		COUNTER BALANCE (TORSION BAR & SPRINGS)
6		HORIZONTAL TRACK & ANGLE (16 GA)
5		VERTICAL FLAG ANGLE
4	[illegible]	TRACK BRACKET [illegible]
3		
2		VERTICAL TRACK (16 GA)
1		3" HINGED STRUT (20 GA) MIN. YIELD STR. 80KSI

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE	APPROVED BY:	DRAWN BY: D. VIECHMAN
DATE: 11-7-00		REVISED: (JD) 12-8-00

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

PAGE 2 OF 2 — DRAWING NUMBER: V13228-2



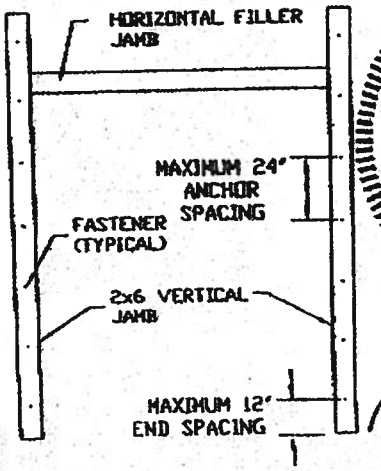
DESIGN LOAD (LBS)/FT² X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

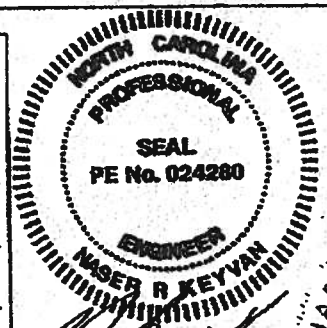
EXAMPLE

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

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

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS





3/8/2002

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.

2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION" SSTD 10," CURRENT EDITION.

3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

4) WOOD FRAME BUILDINGS: STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.

5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI, GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI, REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4".

8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

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

GADCO

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE	APPROVED BY:	DRAWN BY: DV
DATE: 6-30-99		REVISED:

DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

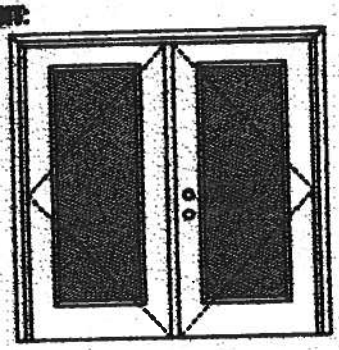
GADCO DRAWING NUMBER: A10560 DRAWING NUMBER:

XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

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

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

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

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


122, 125 Series


126 Series


600 Series


622 Series

1/2 GLASS:


105 Series*


106, 150 Series*


129 Series*


200 Series*


12 RL, 28 RL, 84 RL Series*


107 Series*


103 Series


304 Series

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

Johnson Entry Systems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Doors

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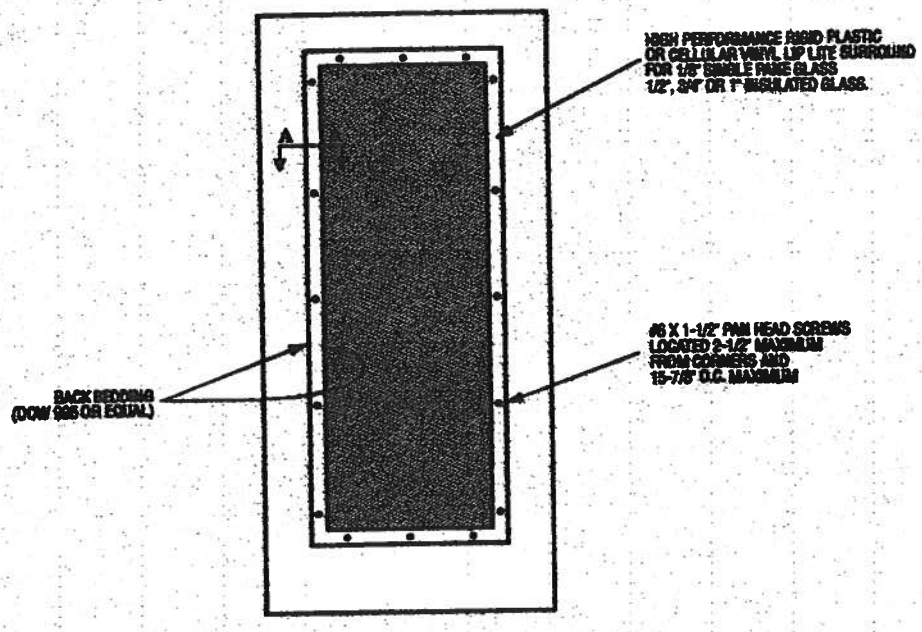
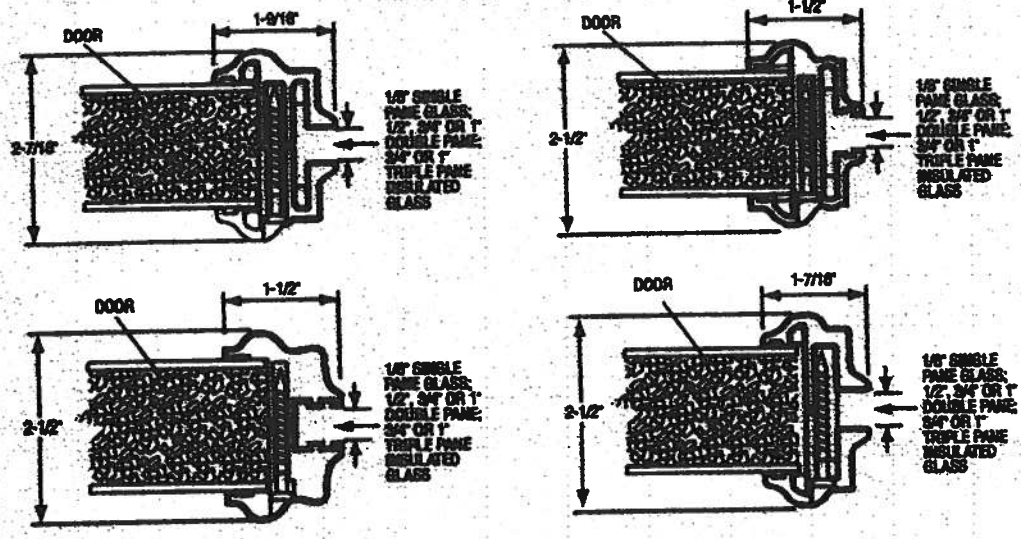
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:
3/4 GLASS:


404 Series


416 Series


450 Series

FULL GLASS:


189 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Johnson Entry Systems

March 20, 2002
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PREMDOR Premium Quality Doors

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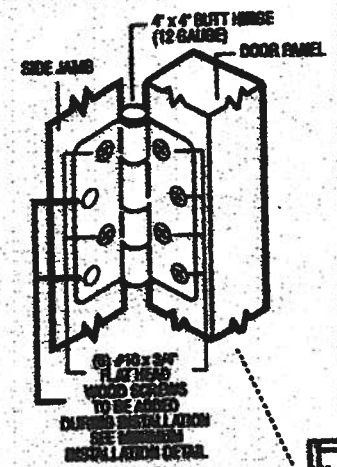
XX
Unit

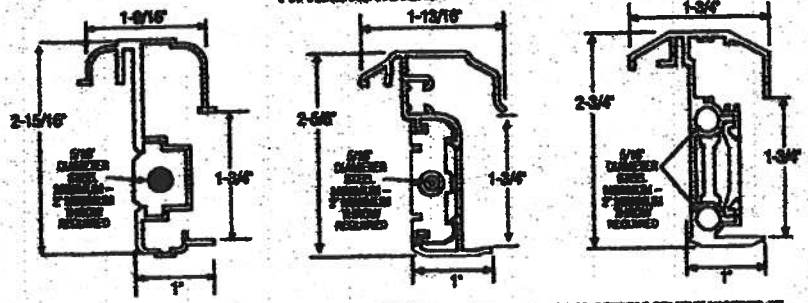
MAD WE WA0612-02

OUTSWING UNITS WITH DOUBLE DOOR

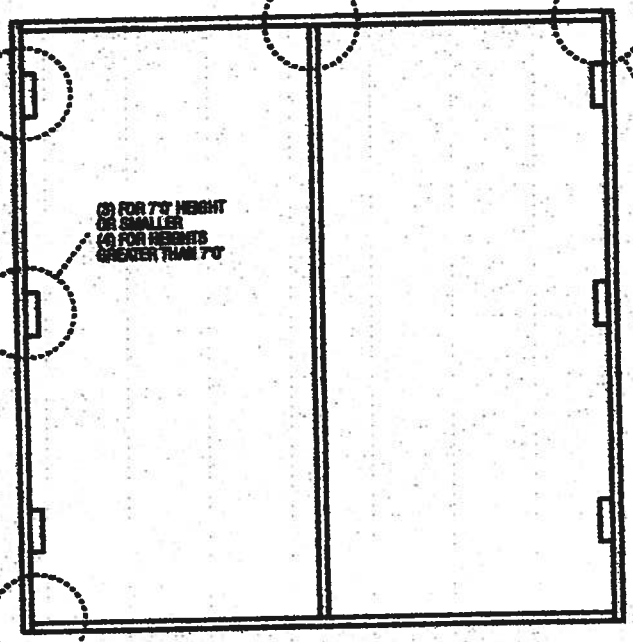
TYPICAL HINGE ATTACHMENT



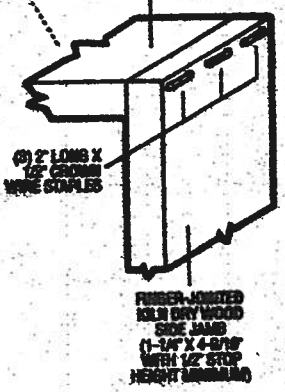
TYPICAL ASTRAGAL PROFILES



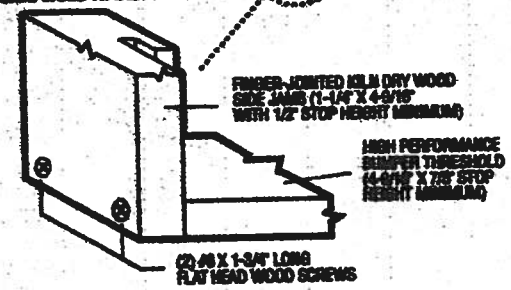
ALUMINUM EXTRUDED ASTRAGAL (0.05" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDRICAL/DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS – LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



TYPICAL HEADER & SIDE JAMB ATTACHMENT



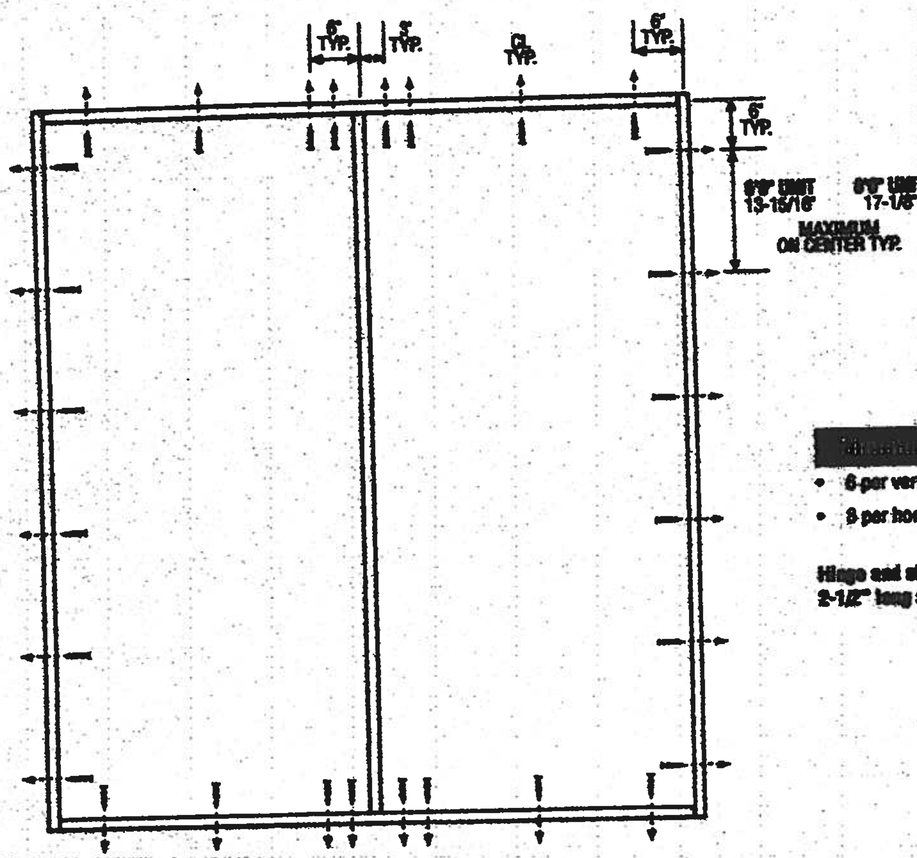
TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



XX
Unit

MID-WL-MA0002-02

DOUBLE DOOR



Minimum Fastener Count

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

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

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylinderical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

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March 29, 2002
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metal . Roofing

FL3576	MILLENNIUM METALS INC.	Roofing	Non-structural Metal Roofing	Schaefer, P.E. (561) 775-4902	☑ Evaluation Report - Hardcopy Received

Page:
Go

Page 1 / 1

CALCULATED BY ______ DATE ______ JOB NO. ______

CHECKED BY ______ DATE ______ SUBJECT ______ SH. 1 OF 8

SKETCH NO. ______ SCALE ______

CALCULATIONS FOR

ATTACHMENTS FOR

RIB PANELS

29 & 26 Gauge

FOR

MILLENNIUM

METALS, INC.

1933 HAINES STREET EXPRESSWAY • JACKSONVILLE, FL 32202
904-358-8968 • WATTS 1-877-358-7663 (ROOF)
FAX 904-358-9295

Greatest Mean Height 30' Exposure B

Pitches 3/12 to 12/12

BY

[signature] #6579

2/14/2003

CALCULATED BY ________ DATE ________ SUBJECT ________

CHECKED BY ________

SKETCH NO. ________ SCALE ________ RIB PANELS

ZONE	TYPE OF FASTENER	ATTACHMENT MATERIAL	FASTENER SIZE	WIND SPEED 100 MPH ON CENTER SPACING	110 MPH ON CENTER SPACING	120 MPH ON CENTER SPACING	140 MPH ON CENTER SPACING
ZONE 1 THRU ZONE 3	WOOD SCREW	EXISTING 1/2" TIMBER DECK WITH BATTENS**	#9 x 3 1/2	16" O.C.	16" O.C.	16" O.C.	16" O.C.
		5/8 THICK PLYWOOD	#9 x 1 1/2"	16" O.C.	16" O.C.	16" O.C.	16" O.C.
		2x4 RAFTERS @ [illegible] O.C. WITH BATTENS	#9 x 3"	24" O.C.	24" O.C.	24" O.C.	24" O.C.
	METAL SCREW	12 THROUGH 18 GAUGE	#12 x 1"	16" O.C.	16" O.C.	16" O.C.	16" O.C.
		20 THROUGH 26 GAUGE	[illegible]	16" O.C.	16" O.C.	16" O.C.	SEE NOTE

TYPICAL ATTACHMENT IS 9" O.C. EXCEPT AS NOTED

NOTE - DOUBLE SCREWS @ 9" O.C. WITH ROWS OF 16" PER Detail C

** Battens 2x4 Attached over 1/2" Plywood 12" O.C. with a #8 x 3" Ring Shank Fastener

2x4 open Rafter Attachment of Battens are the Responsibility of the Engineer of the Post Frame Application

Alternative

RIB PANEL FASTENING RECOMMENDATIONS (ON RIB)

NOTE: NAIL ATTACHMENTS IS THROUGH MAJOR RIBS.

DETAIL B
FIELD PURLIN
ATTACHMENT #9 x 2 1/2
WOOD FASTENER

DETAIL C
(EAVES, RIDGES & ENDLAPS)
#9 x 2 1/2 WOOD FASTENER

3/4/[illegible]2003

DALE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

JOB TITLE MILLENNIUM

DJK DATE 2/2003

JOB NO. 03 2

Consulting Structural Engineer
JACKSONVILLE, FLORIDA

JOB TITLE	MILLENNIUM
CALCULATED BY	DJK
DATE	2/2003
CHECKED BY	
DATE	
SKETCH NO.	
SCALE	
JOB NO.	
SUBJECT	RIB PANELS
SH.	3 OF 8

RIB PANELS :

UPLIFT ATTACHMENTS -

ZONE 1

WOOD SCREWS INTO 1/2 TIMBER

UPLIFT = 152 #/IN x 1/2 = 76# x 1.6 = 121#

TABLE 1606.3B

100 MPH = -18.0 #/'

ZONE 2

100 MPH = -34.8 #/'

ZONE 3

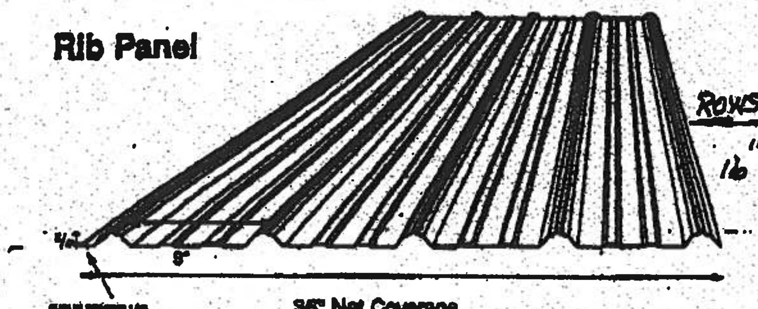
100 MPH = -45.4 #/' 121#/45.4#/' = 2.66'

SCREWS @ 9" O.C. 2.66'/.75' = 3.55 > 1.33

NOTE - USE 9" O.C. WITH ROWS @ 16" O.C. MAX.

MILLENNIUM METALS, INC.

Rib Panel



36" Net Coverage

35" Overall Width

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Ix in.4 (Positive Bending)	Sx in3 (Positive Bending)	Ix in.4 (Negative Bending)	Sx in3 (Negative Bending)
26	80	0.0187	36	26	0.91	41	[illegible]	[illegible]	[illegible]	[illegible]
29	80	0.0142	36	26	[illegible]	[illegible]	[illegible]	.0374	[illegible]	[illegible]

5/8" PLYWOOD

PULL OUT = 152 #/" x .625" = 95 x 1.6 = 152 #/SCREW

ZONE 3 - 152#/45.4#/' = 3.34'/.75' = 4.46' > 1.33 MAX.

2X4 BATTENS ; @ 24" O.C.

PULL OUT = 152 #/IN x 1.5" = 228 x 1.6 = 364#

MAX PULL = .75' x 2' x 45.4#/' = 68.1# < 364# CAPACITY

#12 SCREWS INTO METAL

#12 - 18 GAUGE - ULT = 487/3 = 162# x 1.3 = 210#

#14 - 26 GAUGE - ULT = 14?/3 = 47.0 x 1.3 = 61.1#

MAX PULL-OUT = .75 x 1.33 x 45.4#/' = 45.# < 61.1#

OK FOR #12 SCREWS @ 9" AND ROWS OF 16"

2/14/2003

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

JOB TITLE MILLENNIUM
CALCULATED BY DJK DATE 2/2003
CHECKED BY DATE
SUBJECT RIB PANELS JOB NO.
SKETCH NO. SCALE SH 4 OF 8

RIB PANELS CONT:

110 MPH

ZONE 1 = -24.8 #/ft²
ZONE 2 = -40.1 #/ft²
ZONE 3 = -55.0 #/ft²

WOOD SCREWS

1½" TIMBER - PULL OUT CAPACITY = 124#
9" x 11⅛" = 1.0 = -55# < 124

5/8" PLYWOOD = PULL OUT CAPACITY = 152#
9" x 16" = 2.0 x -55 = 55# < 152

2x4 BATTENS @ 24" O.C.
PULL OUT CAPACITY = 364#
9" x 24" = 1.6 x -55½ = 82.5# < 364

SCREWS INTO METAL DECK

#12 - THRU 18 GA. = CAPACITY = 210#
#14 - THRU 26 GA = CAPACITY = 61.1#

MAX PULL OUT = .75 x 133 x -55 11/16 = 58# < 61.1#

FLORIDA BUILDING CODE — BUILDING

1606.2.5 Components and cladding. Pressure for wind loading actions on components and cladding shall be determined from Table 1606.2B for enclosed portions of the building and Table 1606.2C for overhangs, based on the effective area for the element under consideration. The pressures in Table 1606.2C include internal pressure. The pressure shall be applied in accordance with the loading diagrams in Figure 1606.2c.

FROM : JASON ELIXSON FAX NO. : 3867552735 Apr. 25 2005 02:19PM P3

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

CALCULATED BY DJK DATE 2/2003
CHECKED BY DATE
SKETCH NO. SCALE

JOB TITLE MILLENNIUM
SUBJECT RIB PANELS
JOB NO.
SH 5 OF 8

RIB PANELS

120 MPH - UPLIFT

ZONE 1 = -25.9 #/ft²
ZONE 2 = -50.1 #/ft²
ZONE 3 = -65.4 #/ft²

½" TIMBER - PULL OUT CAPACITY = 121#

9"x14" = 1.0² x 65.4# = 65.4# < 121

5/8" PLYWOOD = PULL OUT CAPACITY = 152#

9"x16" = 1.0² x 65.4#/ft² = 65.4# < 152#

2x4 BATTENS @ 24" O.C.

PULL OUT CAPACITY = 96.4#

MAX UPLIFT = .75 x 2' x 65.4 = 98.1#

SCREWS INTO METAL

#12 - 18 GAUGE = 210#
#14 - 20 GAUGE = 61# < 65.4

IN ZONE 3 - USE 9"x1'-0" = .75 x 65.4 #/ft² = 49# < 61#

AIA

2/2/2005

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

CALCULATED BY: DJK DATE 2003
CHECKED BY: DATE
SKETCH NO. SCALE

JOB TITLE MILLENNIUM
SUBJECT RIB PANELS
JOB NO.
SH. 12 OF 18

RIB PANELS CONT'

140 M.P.H.

ZONE 1 = -35.3 #/ft²
ZONE 2 = -68.1 #/ft²
ZONE 3 = -89.0 #/ft²

½" TIMBER PULL OUT CAPACITY = 121#
UPLIFT = 9"x16"=1.0'x89.0 = 89.0# < 121#

5/8" PLYWOOD = PULL OUT CAPACITY = 152#
UPLIFT = 9"x16"=1.0'x89 #/ft² = 89# < 152#

2x4 BATTENS @ 24" O.C.
PULL OUT CAPACITY = 364#
UPLIFT = 9"x24"=2.0'x89 #/ft² = 133# < 364#

SCREWS INTO METAL

#12 - 18 GAUGE = 210# > 89#

#14 - 26 GAUGE = 61#/SCREW — IN ZONE 3 DOUBLE UP ON SCREWS ON EACH SIDE OF RIBS.

9"
0.375x133 ÷ 5 x 89 #/ft² = 44.5#/SCREW < 61.0#

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

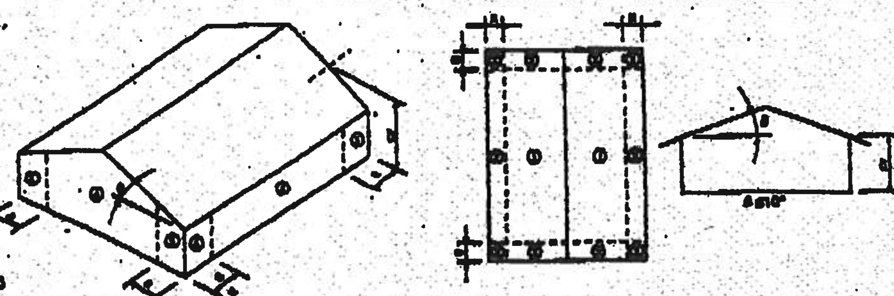
JOB TITLE MILLENNIUM

CALCULATED BY DJK DATE 2/2003 JOB NO.
CHECKED BY DATE SUBJECT RIB PANELS SH. 7 OF 8
SKETCH NO. SCALE

UPLIFT VALUES :

TABLE [illegible]
COMPONENT AND CLADDING WIND LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET LOCATED IN EXPOSURE B (psf)

Zone	Effective wind area (SF)	Basic Wind Speed V (mph - 3 second gust) 85		90		100		110		120		130		140		150	
Roof Angle > 0-10 degrees																	
1	10.0	10.0	-13.0	10.0	-14.6	10.0	-18.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	20.0	10.0	-12.7	10.0	-14.2	10.0	-17.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	50.0	10.0	-12.2	10.0	-13.7	10.0	-16.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	100.0	10.0	-11.9	10.0	-13.3	10.0	-16.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	10.0	10.0	-21.8	10.0	-24.4	10.0	-30.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	20.0	10.0	-19.5	10.0	-21.8	10.0	-27.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	50.0	10.0	-16.4	10.0	-18.4	10.0	-22.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	100.0	10.0	-14.1	10.0	-15.8	10.0	-19.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	10.0	10.0	-32.8	10.0	-36.8	10.0	-45.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	20.0	10.0	-27.2	10.0	-30.5	10.0	-37.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	50.0	10.0	-19.7	10.0	-22.1	10.0	-27.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	100.0	10.0	-14.1	10.0	-15.8	10.0	-19.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Roof Angle > 10-30 degrees																	
1	10.0	10.0	-11.9	10.0	-13.3	10.4	-16.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	20.0	10.0	-11.6	10.0	-13.0	10.0	-16.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	50.0	10.0	-11.1	10.0	-12.5	10.0	-15.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	100.0	10.0	-10.8	10.0	-12.1	10.0	-14.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	10.0	10.0	[illegible]	10.0	[illegible]	10.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	20.0	10.0	[illegible]	10.0	[illegible]	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	50.0	10.0	-19.7	10.0	[illegible]	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	100.0	10.0	-17.4	10.0	-19.5	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	10.0	10.0	[illegible]	10.0	[illegible]	10.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	20.0	10.0	[illegible]	10.0	[illegible]	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	50.0	10.0	[illegible]	10.0	[illegible]	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	100.0	10.0	-17.4	10.0	[illegible]	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Roof Angle > 30-45 degrees																	
1	10.0	11.9	-13.0	13.3	-14.6	16.5	-18.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	20.0	11.6	[illegible]	13.0	[illegible]	16.0	-17.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	50.0	11.1	-11.6	12.5	[illegible]	15.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	100.0	10.8	-10.9	12.1	-12.1	14.9	-14.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	10.0	11.9	-15.2	13.3	-17.0	16.5	-21.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	20.0	11.6	-14.5	13.0	[illegible]	16.0	-20.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	50.0	11.1	-13.7	12.5	-15.3	15.4	-18.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	100.0	10.8	-13.0	12.1	-14.6	14.9	-18.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	10.0	11.9	-15.2	13.3	-17.0	16.5	-21.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	20.0	11.6	-14.5	13.0	[illegible]	16.0	-20.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	50.0	11.1	-13.7	12.5	-15.3	15.4	-18.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	100.0	10.8	[illegible]	12.1	-14.6	14.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



1606.2.3 Edge strips and end zones. The width of the edge strips (a), as shown in Figure 1606.2 (c), shall be 10% of the least horizontal dimension or 40% of the eave height, whichever is less but not less than either 4% of the least horizontal dimension or 3 feet (914 mm). End zones as shown in Figure 1606.2b shall be twice the width of the edge strip (a).

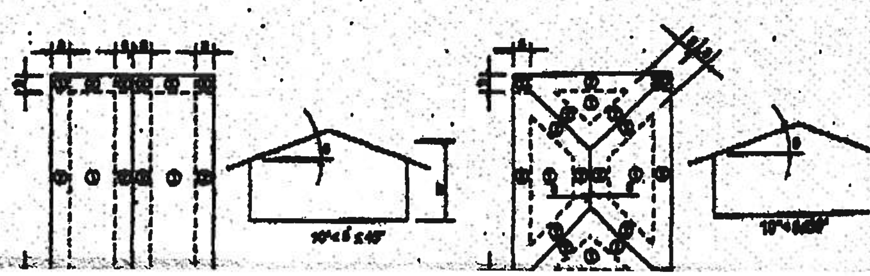


FIGURE 1609.3(a)
COMPONENT AND CLADDING LOADING DIAGRAMS

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

JOB TITLE MILLENNIUM

CALCULATED BY DJK DATE 2/2003

CHECKED BY DATE

SKETCH NO. SCALE

SUBJECT RIB PANELS

JOB NO.

SH 8 OF 8

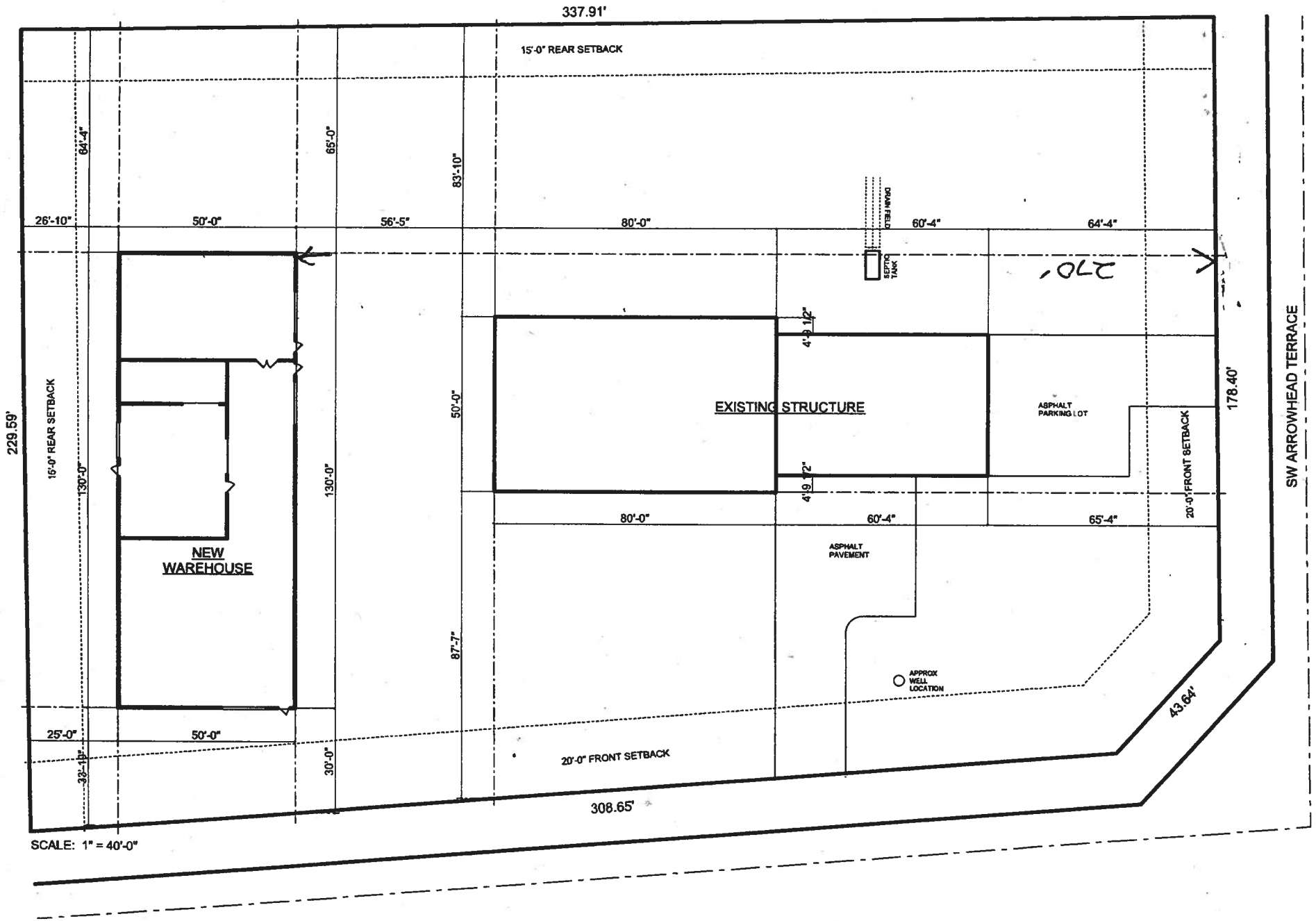
2

DESIGN VALUES.

Table 2.3.2 Frequently Used Load Duration Factors, C_D[1]

Load Duration	C_D	Typical Design Loads

Willems Custom Cabinetry



LAKE CITY / COLUMBIA COUNTY
FIRE DEPARTMENT

225 NW Main Blvd., Suite 101, Lake City, FL 32055
Phone: 386-752-3312 Fax: 386-758-5424

Alphonso Wilson
Fire Chief

Inspection Division

Firesafety Inspectors

Carlton A. Tunsil
Assistant Fire Chief

Frank E. Armijo
Captain

Nathiel L. Williams, Sr.
Driver/Engineer

TO: Ray Willems

FROM: Nathiel L. Williams
State Fire Inspector License #113360

DATE: September 26,2006

SUBJECT: Fire Safety Inspection

A fire safety inspection was performed today at Willems Custom Woodworks, located at 470 Arrowhead road, Lake City, FL. This Business meets all requirements of Chapter 39 of Life Safety Code 101, 199X Edition. No violations were noted. I recommend approval.

Nathiel L. Williams, Sr.
State Fire Inspector License #113360

#24810

2480

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

July 31, 2000

Ray Willems
137 S. W. Meadow Terrace
Lake City, Florida 32024

Reference: Proposed Commercial Building
470 S. W. Arrowhead Terrace
Columbia County, Florida
Cal-Tech Project No. 06-461

Dear Mr. Willems,

Cal-Tech Testing, Inc. has completed the subsurface investigation and engineering evaluation of the site for a commercial building to be constructed at the referenced location in Columbia County, Florida. Our work was authorized by you.

Introduction

It is our understanding you will construct a single-story, wood-frame and metal building with lateral dimensions of approximately 50 feet by 130 feet. Support for the structure is to be provided by a monolithic foundation. Detailed foundation loads have not been provided; however, we assume column and wall loads will not exceed 30 kips and 2 kips per foot, respectively.

The purposes of our investigation were to determine the general subsurface conditions at the site and to present recommendations for foundation design and construction.

Site Investigation

The subsurface conditions were investigated by performing four 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 four soil strata. The first layer consists of 4.0 to 7.0 feet of loose to medium dense, tan, orangish tan, tannish gray and grayish tan sand (SP) and sand with silt (SP/SM). The N-values of this layer range from 7 to 19 blows per foot.

The second layer consists of 1.5 to 3 feet of loose to medium dense, generally tan, gray, orange and red, clayey sand (SC). The N-values of this layer range from 7 to 22 blows per foot.

The third layer consists of 1.5 to 3.0 or more feet of hard, generally gray and orange, sandy clay (CL). The N-values of this layer are on the order of 35 to 37 blows per foot. The fourth layer consists of an undetermined thickness of dense, orange and light gray, clayey sand (SC) with N-values on the order of 36 blows per foot.

Groundwater was not encountered at any boring location at the time of our investigation, and we estimate the seasonal high groundwater table will occur at a depth of 5.0 or more feet below the existing surface grade.

For a more detailed description of the subsurface conditions encountered, please refer to the attached Boring Logs. Note specifically the transition between soil layers may be gradual and not abrupt as indicated by the logs; therefore, the thickness of soil layers should be considered approximate.

Discussion and Recommendations

From the results of our investigation, it is our opinion the structure can be supported by monolithic foundations sized to exert a maximum soil bearing pressure of 2,500 pounds per square foot. These foundations should have minimum widths of 16 and 24 inches for wall and column locations, respectively. The bottoms of thickened sections should be embedded at least 14 inches below the lowest adjacent grade (finished surface grade, for example).

It is also our opinion the existing site soils, when compacted, are suitable to provide support for the structure. The use of replacement soils is not anticipated, and only normal, good practice site preparation procedures should be required to prepare the site.

Initially, the building limits should be stripped of grass, roots and other deleterious materials. Excavation should then be performed as required to establish the appropriate site grading. Clean, sandy soils should be stockpiled for later use as fill as required. The site should then be proof-rolled using heavy, rubber-tired equipment (a large, loaded, front-end loader, for example). Proof rolling helps to compact the bearing soils and to locate zones of especially loose or soft soil not encountered in the soil test

borings. Such zones should be undercut and back-filled or otherwise treated as directed by the geotechnical engineer.

The subgrade should then be proof-compacted to a minimum of 95% of the Modified Proctor maximum dry density to a depth of 2 feet in foundation areas and to a depth of 1 foot in floor slab areas.

Fill to raise the site can be placed as required. Fill should consist of relatively clean, fine sand containing less than 10% passing the No. 200 sieve. Fill should be placed in maximum 12-inch, loose lifts, and each lift should be proof-compacted to a minimum of 95% of the Modified Proctor maximum dry density. Foundation cuts may be placed in the compacted fill, but disturbed fill materials should be recompacted prior to placement of the foundations or slabs.

Field density testing should be performed in the compacted subgrade, in each lift of fill, and in foundation excavations to verify the recommended compaction has been achieved.

Our recommendations are based upon our findings as described in this report; however, subsurface conditions may exist that were not encountered in the soil test borings. Cal-Tech Testing, Inc. should be notified immediately if different soil conditions are encountered during construction. It may be necessary to reevaluate this site and revise our recommendations.

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 or further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.

Linda Creamer
President / C. E. O.

John C. Dorman, Jr., Ph.D., P.E.
Geotechnical Engineer 7/31/06
52612

Columbia County, Florida
Planning & Zoning Department

Review of Building Permit for compliance with County's Comprehensive Plan and Land Development Regulations

To: Linda Roder **Fax:**

From: Brian L. Kepner **Fax:** 386.758.2160

Number of pages: 6

Date: 15 June 2006

RE: Building Permit Application 0606-06, Willems Custom Woodworks, LLC
Windswept Industrial Subdivision, Phase 1, Lot 3

Dear Linda:

The above referenced application is located within an Industrial, Light Warehousing (ILW) zoning district and requires Site and Development Plan approval from the Planning and Zoning Board for all development before the building permit can be issued. I have attached an application for Site and Development Plan Approval. The fee is $300.00 and the application must be submitted not less than fifteen (15) days prior to the public meeting for the Planning and Zoning Board. The Planning and Zoning Board meets the fourth Thursday of each month. The next public meeting date that this application could be heard is 27 July 2006 and the application and site plan would need to be submitted no later than the end of the day on 11 July 2006.

If you have any questions concerning this matter, please do not hesitate to contact me at 386.758.1007.

Sincerely,

Brian L. Kepner
Land Development Regulation Administrator,
County Planner

Attachment

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 24-4S-16-03120-103 **Building permit No.** 000024810

Use Classification COMM. WAREHOUSE **Fire:** 40.14

Permit Holder ISAAC BRATKOVICH **Waste:**

Owner of Building WILLEMS CUSTOM WOODWORKS **Total:** 40.14

Location: WINDSWEPT INDUSTRIAL PARK LOT 3 PHASE 1

Date: 09/27/2006

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

B-1

Water Table: N/A

Depth (ft)	N	Soil Description
0 ft		
	7	Loose, Light Greyish Tan Sand (SP)
	11	Medium Dense, Tannish Grey Sand with Silt (SP/SM)
5 ft	19	Medium Dense, Greyish Tan Sand (SP)
	9	Loose, Orangish Tan Sand, Trace Clay (SP)
	13	Medium Dense, Tan, Light Grey and Orange, Clayey Sand (SC)
	16	Medium Dense, Orange, Light Grey and Red, Slightly Clayey Sand (SC)
10 ft		TOB

B-2

Water Table: N/A

Depth (ft)	N	Soil Description
0 ft		Tannish Grey Sand (SP)
	13	Medium Dense, Light Greyish Tan Sand (SP)
	16	Medium Dense, Tannish Grey Sand (SP)
5 ft	14	Medium Dense, Dark Greyish Tan Sand (SP)
	9	Loose, Light Tan and Orange Sand, Trace Clay (SP)
	17	Medium Dense, Orange and Light Grey, Clayey Sand (SC)
	16	Medium Dense, Light Grey and Orange, Very Clayey Sand (SC)
10 ft		TOB

B-3

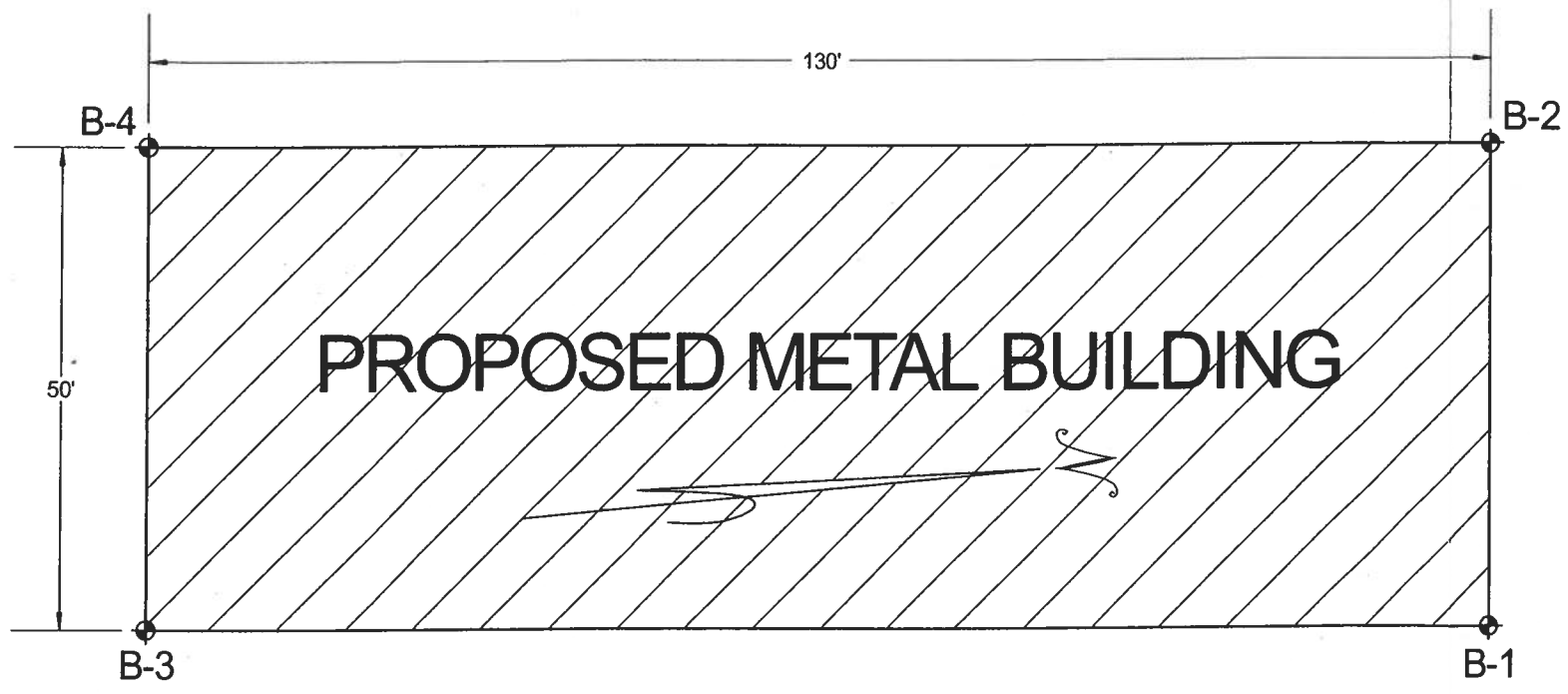
Water Table: N/A

Depth (ft)	N	Soil Description
0 ft		Tannish Grey Sand (SP)
	15	Medium Dense, Greyish Tan Sand (SP)
	7	Loose, Tan Sand (SP)
5 ft	7	Loose, Orangish Tan, Clayey Sand (SC)
	22	Medium Dense, Light Grey, Orange and Red, Very Clayey Sand (SC)
	36	Hard, Light Grey, Red and Orange, Sandy Clay (CL)
10 ft	37	TOB

B-4

Water Table: N/A

Depth (ft)	N	Soil Description
0 ft		Tannish Grey Sand (SP)
	7	Loose, Greyish Tan Sand with Silt (SP/SM)
	8	Loose, Tan Sand (SP)
5 ft	9	
	10	Loose, Light Grey, Orange and Red, Very Clayey Sand (SC)
	35	Hard, Light Grey to Grey and Orange, Sandy Clay (CL)
	36	Dense, Orange and Light Grey, Clayey Sand (SC)
10 ft		TOB



ENGINEERING CLASSIFICATION

GRANULAR MATERIALS-

Relative Density	SPT (Blows/12 inches)
Very Loose	Less than 4
Loose	4-10
Medium Dense	11-30
Dense	31-50
Very Dense	Greater than 50

SILTS AND CLAYS-

Consistency	SPT (Blows/12 inches)
Very Soft	Less than 2
Soft	2-4
Medium Stiff	5-8
Stiff	9-15
Very Stiff	16-30
Hard	Greater than 30

LEGEND:

TOB	Termination of Boring
GSE	Ground Surface Elevation
∇	Ground Water at Time of Drilling
V	Wet Season Water Table
N	Standard Penetration Resistance in Blows Per 12 inches (18- inch Spoon, ASTM D-1586)
WOR	Weight of Rod
WOH	Weight of Hammer
MC	Moisture Content (%)
OC	Organic Content (%)
-200	Percent Passing No. 200 U.S. Standard Sieve
LL	Liquid Limit
PI	Plasticity Index
(SP)	Unified Soil Classification Based on Visual Observation and Laboratory Tests

SAND | SILTY SAND | SAND with SILT | CLAYEY SAND | SAND with CLAY | SANDY CLAY | CLAY | LIMESTONE | MARL | ORGANICS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	NAMES	DATE
DRAWN BY	S.C. Young	7/31/06
CHECKED BY	J.C. Dorman	
CHECKED BY		
APPROVED BY	J.C. Dorman	
CAL-TECH JOB NO.	06-461	

ENGINEER OF RECORD
CAL- TECH TESTING, INC.
P.O. BOX 1625
LAKE CITY, FL. 32056
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FAX NO. (386) 752-5456

SEAL

JOHN C. DORMAN, JR.
P.E. 52612

PROPOSED METAL BUILDING

ROAD NO.	COUNTY	FINANCIAL PROJECT I.D.
	COLUMBIA	

REPORT OF SOIL BORINGS

SHEET NO.

1 of 1