DATE 02/18/2008	Columbia County Bu This Permit Must Be Prominently Posted of			PERMIT 000026768
APPLICANT JOHN D	D. HARRINGTON	PHONE	386.462.5323	000020708
ADDRESS 1250	US HWY 441	ALACHUA	FL	32615
	BUTLER	PHONE	561.964.4239	
ADDRESS 902	SW MONTANA STREET	FT. WHITE	FL	32038
CONTRACTOR JO	OHN D. HARRINGTON	PHONE	386.462.5323	1 9
LOCATION OF PROPE	RTY 47-S TO US 27,TR TO 3 RIVERS	S.D,TL GO TO MONTA	NA,TL PAST	
	DINGO WAY & WASHINGTON	AVE, PROPERTY ON R	L.	
TYPE DEVELOPMENT	SFD/UTILITY EST	TIMATED COST OF CO	NSTRUCTION 10	5200.00
HEATED FLOOR ARE.	A 1636.00 TOTAL ARE.	A 2104.00	HEIGHT 17.60	STORIES 1
FOUNDATION CON	NC WALLS FRAMED R	OOF PITCH 6'12	FLOOR	CONC
LAND USE & ZONING	ESA-2	MAX	HEIGHT 35	
Minimum Set Back Requ	uirments: STREET-FRONT 30.00	REAR	25.00 SIDE	25.00
NO. EX.D.U. 0	FLOOD ZONE AE	DEVELOPMENT PERM	MIT NO. 08-006	
PARCEL ID 26-6S-1	5-00772-000 SUBDIVISION	N 3 RIVERS ESTATI	ES	
LOT 30 BLOCK	PHASE UNIT 10	0 TOTA	L ACRES 1.00	
000001559	CRC058087	201	4	
Culvert Permit No.	Culvert Waiver Contractor's License Num		Applicant/Owner/Contra	ector
18"X32'MITERED	08-0154 BLK		ТН	N
Driveway Connection	Septic Tank Number LU & Zonin	g checked by App	roved for Issuance	New Resident
and a service NEE O	25 AND EDUCATE OOD ELEVATION CEDE A			
COMMENTS: MFE @	35.00' . FINISH FLOOR ELEVATION CERT. N	NEEDED PRIOR TO PO	WER.	<u> </u>
1 FOOT RISE LETTER		NEEDED PRIOR TO PO	WER.	
		NEEDED PRIOR TO PO		1112
		-	Check # or Cash	
	FOR BUILDING & ZONIN	-	Check # or Cash	1112 (footer/Slab)
1 FOOT RISE LETTER	FOR BUILDING & ZONIN	G DEPARTMENT	Check # or Cash ONLY Monolithic	
1 FOOT RISE LETTER	FOR BUILDING & ZONIN Foundation date/app. by nbing Slab	G DEPARTMENT date/app. by	Check # or Cash ONLY Monolithic	(footer/Slab) date/app. by
1 FOOT RISE LETTER Temporary Power Under slab rough-in plur	FOR BUILDING & ZONIN Foundation date/app. by date/app. by date/app. by	date/app. by	Check # or Cash ONLY Monolithic Sheathing/Nailing	(footer/Slab) date/app. by
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PERMIT

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

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

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

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

Ch 1112

Columbia County Building Permit Application

71 71 700
For Office Use Only Application # 0801-84 Date Received 16 By 1 Permit # 1559 - 26768 Zoning Official Date 08.02.08 Flood Zone AE FEMA Map # 0225+025 Zoning ESA - 2
Land Use ESK Elevation 34 MFE 35 River Santafe Plans Examiner OK 77H Date 2-11-08
Comments OP Required
CNOCKEH Deed or PA Site Plan - State Road Info - Parent Parcel #
Dev Permit # in Floodway - Letter of Authorization from Contractor
□ Unincorporated area □ Incorporated area □ Town of Fort White □ Town of Fort White Compilance letter
Septic Permit No. 06- 6473-N
Name Authorized Person Signing Permit John J. Harring ton Phone 386-462-5323
Address 12501 US HWY 441 ALACHUE, FL 32615
Owners Name Rence BUTLER Phone 561-964-4239
911 Address 902 SW MONTANA ST FORT WHITE 3203
Contractors Name House CRAFT Homes Phone 386 .462 - 5323
Address 12501 US HWY 441 Ajachva FL 32615
Fee Simple Owner Name & Address Renee BUTLER 3815 Kewanne Rd Lantana FL 33462
Bonding Co. Name & Address
Architect/Engineer Name & Address Mark Dis-
Mortgage Lenders Name & Address WASHINGTON MUTUAL OMAHA NEBRACKO
Circle the correct power company - FL Power & Light - Clay Elec Suwannee Valley Elec Progress Energy
Property ID Number 00-06-00-00772-000 Estimated Cost of Construction 129,000
Subdivision Name Three River Estates Lot 30 Block Unit 10 Phase
Driving Directions 47 South to FORT WHIE, MR ON 27 GO TO THREE RIVER'S
ESTATUS ENTRANCE (JUST BEFORE RIVER) ML INTO 3 RIVER ESTATES GO TO
MONTANA M L CO PAST NINES WAY Number of Existing Dwellings on Property OAST WASHINGTON AUE PROPERTY IS ON RITE SIDE OF RUAD NEXT TO \$56 MONTANA AVE Construction of SINGLE FAMILY DWELLING Total Acreage / Lot Size 100 X 42 Do you need a Culvert Permit or Culvert Walver or Have an Existing Drive Total Building Height 17'6
Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height
Actual Distance of Structure from Property Lines - Front 200 Side 2425 Side 2425 Rear 150† Number of Stories Heated Floor Area 1036 Total Floor Area 2/23 Roof Pitch 6/12
Number of Stories Heated Floor Area
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. Eff M
Page 1 of 2 (Both Pages must be submitted together.)

FROM : COLUMBIA CO BUILDING + ZONING FAX NO. :386-758-2160

Columbia County Building Permit Application

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

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

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

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

ers Signature

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

Contractor's Signature (Permitee)

Contractor's License Number_ Columbia County **Competency Card Number**

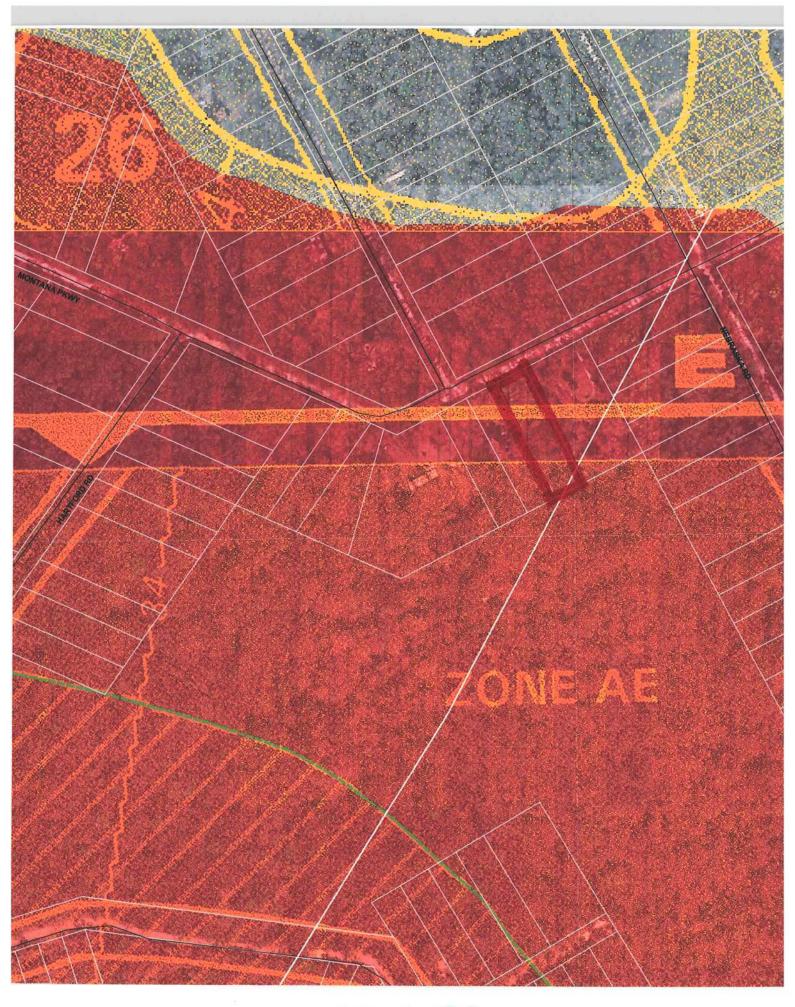
Affirmed under penalty of perjury to by the Contractor and subscribed before me this or Produced Identification PLDL

State of Florida Notary Signature (For the Contractor)

DEBORAH MORRISON Notary Public - State of Florida By Commission Expires Sep 17, 2011 Commission # DD 715174

Page 2 of 2 (Both Pages must be submitted together.)

Revised 11-30-0



0801-84

Quitclaim Deed

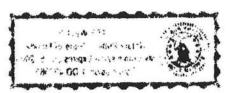
Inst:2005018103 Date:07/29/2005 Time:12:45

Doc Stamp-Deed : 0.70

DC,P. DeWitt Cason, Columbia County B: 1053 P:973

THIS QUITCLAIM DEED, executed this 15T day of July	20.05
this Quitclaim DEED, executed this 15T day of July by first party, Grantor, Aimee Renee Bess whose post office address is 3815 Kewanee Road Lant	ana, FL. 33462
to second party, Grantee, Renee Bess Butler whose post office address is 3815 Kewanee Road Lar WITNESSETH, That the said first party, for good consideration and for the sum	70
paid by the said second party, the receipt whereof is hereby acknowledged, does hereby r	
said second party forever, all the right, title, interest and claim which the said first party harcel of land, and improvements and appurtenances thereto in the County of	as in and to the following described

Parcel ID. 00-00-00-00772-000 Lot 30 Unit 10 Three Rivers Estates, ORB 520-542, 780-1389, 788-179, 826-846



Signature of Witness: (MM) (OWL)	
Print name of Witness: AMDOC DWOOS	The state of the s
Di Saels	
Print name of Witness: SOBIA SAOIB	
Signature of First Party: Claimer Dead	
Print name of First Party: AIMEE BESS	Reg 1
Signature of Second Party Signature Bess Bu	tler
Print name of Second Party: Renee Bess Bu	utler
Signature of Preparer <u>Rimes</u> , Bess	<u></u>
Print Name of Preparer AIMEE BESS	5
Address of Preparer 3815 KEWAND LANTANA, FL, 3	EE RD, 33462-2213
County of Palm Beach	
On 15th day of July, 2005 before me, Gary Welch appeared Aimed Bess	
personally known to me (or proved to me on the basis of satisfactory evidence subscribed to the within instrument and acknowledged to me that he/she/the capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) acted executed the instrument. WITNESS my hand and official seal.	ey executed the same in his/her/their authorized
Signature of Notary	Affiant V A 1
* 15	Affiant Known Produced ID Type of ID Florida Drive Licea
2005018103 Date:07/29/2005 Time:12:45 0.70 Stamp-Deed: 0.70 DC,P.DeWitt Cason,Columbia County B:1053 P:974	(Seal)



Columbia County, Florida Planning & Zoning Department

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

To: John Harrington

Fax: 386.4

02.07.08

From: Brian L. Kepner, County Planner

Fax: 386.758.2160

Number of pages: 1

Date: 30 January 2008

RE: Building Permit Application 0801-84, Renee Butler

Dear John:

Upon review of the above referenced building permit application, this parcel is located within the 100 year flood zone. A signed and sealed one (1) foot rise letter from an engineer stating that once the structure is placed on the property will not cause the flood waters to rise greater than one (1) foot. The side setback requirements for ESA-2 zoning district is twenty-five (25) feet. An Elevation Certificate will be required prior to permanent power being released. The application and site plan show twenty-four (24) feet. A variance would be required in order to approve this application. Variances require a public hearing before the Board of Adjustment and there is a \$750.00 fee. Applications can be picked up here at the Building and Zoning Department or I could FAX you one if you like.

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

Sincerely,

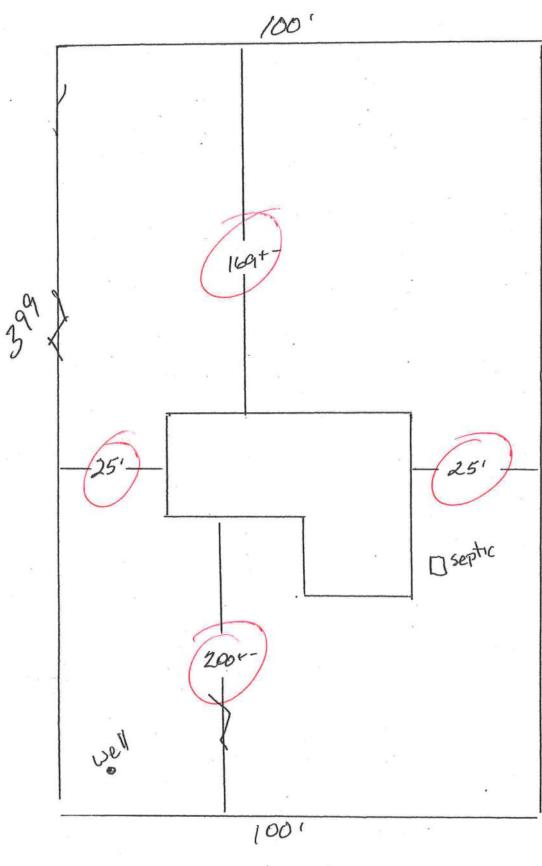
Brian L. Kepner

Land Development Regulation Administrator,

County Planner

Confidentiality Notice: This facsimile transmission is confidential and is intended only for the review of the party to whom it is addressed. It may contain proprietary and/or privileged information protected by law. If you are not the intended recipient, you may not use, copy or distribute this facsimile message or its attachments. If you have received this transmission in error, please immediately telephone the sender above to arrange for its return.

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montana

STATE OF FLORIDA



DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD 1940 NORTH MONROE STREET TALLAHASSEE FL 32399-0783

(850) 487-1395

HARRINGTON, JOHN DANIEL JR HOUSE CRAFTS HOMES LLC 24113 NW OLD BELLAMY RD FL 32643 HIGH SPRINGS



STATE OF FLORIDA

AC# 341177

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CRC058087

10/18/07 00000000

CERTIFIED RESIDENTIAL CONTRACTO HARRINGTON, JOHN DANIEL JR HOUSE CRAFTS HOMES LLC

IS CERTIFIED under the provisions of Ch 489 Expiration date: AUG 31, 2008 L0710 80064

DETACH HERE

3491773

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L0710180064

DATE

BATCH NUMBER LICENSE NBR

CRC058087 000000000 10/18/2007

The RESIDENTIAL CONTRACTOR

Named below IS CERTIFIED

Under the provisions of Chapter 489 FS.

Expiration date: AUG 31, 2008

HARRINGTON, JOHN DANIEL JR HOUSE CRAFTS HOMES LLC 12501 HWY 441

ALACHUA

FL 32615

CHARLIE CRIST GOVERNOR

HOLLY BENSON SECRETARY

District No. 1 - Ronald Williams District No. 2 - Dewey Weaver District No. 3 - Jody DuPree District No. 4 - Stephen E. Bailey

District No. 5 - Scarlet P. Frisina

BOARD OF COUNTY COMMISSIONERS . COLUMBIA COUNTY

26768

The attac	requested copies hed elevation cer ce by the commu-	of elevation cer tificate requires unity.	tificates.	section(s)	
A1 Building O		SI	ECTION A - PROPERTY INFORM	MATION	For Insurance Company Use:
A1. Building Owner	s Name Pp	nee Bu	ler		Policy Number
A2. Building Street	Address (including Ap	ot., Unit, Suite, and/	or Bldg. No.) or P.O. Route and Box I	do.	
City				10.	Company NAIC Number
			State		ZIP Code
A3. Property Descri	ption (Lot and Block)	Numbers, Tax Parce	el Number, Legal Description, etc.)		
	-00772	~ (D) 3			*
A4. Building Use (e.	g., Residential, Non-F	Residential, Addition	n, Accessory, etc.)		
- Harris and Fall Such	uo. Lat.		ona		- D
		building if the Certific	cate is being used to obtain flood insu	Honzoniai i	Datum: NAD 1927 NAD 1983
The building bridged	HAMILING			ranca.	
A8. For a building w	th a crawl space or e	nclosure(s), provide	A9 For a	building with an atta	ched garage, provide:
 a) Square foots 	ige of crawl space or	enclosure(s)	20.0	ounding with an atte	ched garage, provide:
b) No. of perma	ment flood openings	in the crawl space		uare footage of atta	sched garage sq ft
enclosure(s)	walls within 1.0 foot	above adjacent grad		of permanent floo	d openings in the attached garage
c) Total net are	a of flood openings in	A8.b		iis within 1.0 foot a	nove adjacent grade
			sq in c) To	tal net area of flood	openings in A9.b sq in
	SEC	TION B - FLOO	D INSURANCE RATE MAP (FIR		
		Mumbas		W) INFORMATIO	N
B1. NFIP Community	Name & Community		B2. County Name		
B1. NFIP Community	Name & Community	Mumber	Jan Southly Hairie	1	B3. State
	Name & Community				B3. State
B1. NFIP Community B4. Map/Panel Num	Name & Community	B6. FIRM Inde	x B7. FIRM Panel	B8. Flood	
	Name & Community			B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone
B4. Map/Panel Num	Name & Community ber B5. Suffix	B6. FIRM Inde	x B7. FIRM Panel Effective/Revised Date	Zone(s)	
B4. Map/Panel Num	ber B5. Suffix se of the Base Flood	B6. FIRM Inde Date Elevation (BFE) dat	x B7. FIRM Panel Effective/Revised Date a or base flood depth entered in Item	Zone(s)	B9. Base Flood Elevation(s) (Zone
B4. Map/Panel Num 10. Indicate the source FIS Profile	ber B5. Suffix se of the Base Flood	B6. FIRM Inde Date Elevation (BFE) dat Community Deterr	B7. FIRM Panel Effective/Revised Date a or base flood depth entered in Item	Zone(s)	B9. Base Flood Elevation(s) (Zone
B4. Map/Panel Num 10. Indicate the source FIS Profile 11. Indicate elevation	Name & Community ber B5. Suffix te of the Base Flood FIRM datum used for BEE	B6. FIRM Inde	B7. FIRM Panel Effective/Revised Date a or base flood depth entered in Item	Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
B4. Map/Panel Num 10. Indicate the source FIS Profile 11. Indicate elevation 12. Is the building loc	ber B5. Suffix ber B5. Suffix ce of the Base Flood I FIRM datum used for BFE ated in a Coastal Bar	B6. FIRM Inde	B7. FIRM Panel Effective/Revised Date a or base flood depth entered in Item nined Other (Describe) VD 1929 NAVD 1988	Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
B4. Map/Panel Num 10. Indicate the source FIS Profile 11. Indicate elevation 12. Is the building loc Designation Date	ber B5. Suffix ber B5. Suffix ce of the Base Flood I FIRM datum used for BFE ated in a Coastal Bar	B6. FIRM Inde	x B7. FIRM Panel Effective/Revised Date a or base flood depth entered in Item nined Other (Describe)	Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
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All elevation certificates shall be maintained by the community and capter with the attached memo made available exports quest

U.S. DEFARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

ELEVATION CERTIFICATE 26168

OMB No. 1660-0008 Expires February 28. 2009

Important: Read the instructions on pages 1-8.

			SEC	TION A - P	ROPERTY I	NFORMA	ATION	For Insurance Company Use:
A1	. Building Owner's Nam	e RENEE BUT	LER					Policy Number
A2 90	2. Building Street Address 2 SW MONTANA STRE	ss (including Apt. ET	, Unit, Suite, and/or	Bldg. No.) or	P.O. Route a	nd Box No		Company NAIC Number
	City FT. WHITE	State F	L ZIP Code 320	38	9			100
A3	. Property Description (Lot and Block Nu	mbers, Tax Parcel I	Number, Lega	al Description	, etc.)		
_LC	T 10, UNIT 10, THREE	RIVERS ESTATE	ES, COLUMBIA CO.	, FL. PID 00	-00-00-007	72-000		
A5 A6 A7	Building Use (e.g., Re Latitude/Longitude: La Attach at least 2 photo Building Diagram Num For a building with a ca Square footage of No. of permanent fenclosure(s) walls	tt. 29 55.918 Longraphs of the builder 1 rawl space or end crawl space or endododododododododododododododododododo	ng. 82 46.412 illding if the Certificat closure(s), provide nclosure(s)	te is being us	ed to obtain f	lood insura For a bu a) Squ b) No.	uilding with an atta are footage of atta of permanent flood	ched garage, provide:
	c) Total net area of fl				q in	c) Tota	al net area of flood	openings in A9.b NA sq ir
			TION B - FLOOD	INSURANC	E RATE MA	AP (FIRM) INFORMATIO	N
B1 CC	. NFIP Community Name DLUMBIA UNICORPRAT	e & Community N ED 120070	lumber	B2. County COLUMBIA				B3. State FL
В	4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date		37. FIRM Panetive/Revised		B8. Flood Zone(s)	B9 Base Flood Elevation(s) (Zon AO, use base flood depth)
	120070 225	В .	6 JAN. 1988		6 JAN. 1988		AE` ´	34.0
B10.	Indicate the source of ☐ FIS Profile						39.	
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	Indicate elevation datu Is the building located Designation Date	in a Coastal Barr	Market Committee	IGVD 1929 em (CBRS) a ☐ CBRS		ise Protect	Other (Describe ted Area (OPA)?	Yes ⊠No
		SECTIO	N C - BUILDING	ELEVATIO	N INFORMA	TION (SI	JRVEY REQUIR	RED)
	Building elevations are to *A new Elevation Certific Elevations – Zones A1-/below according to the to Benchmark Utilized SA Conversion/Comments	cate will be require A30, AE, AH, A (volulding diagram s F22 Vertical Dat	with BFE), VE, V1-V specified in Item A7.	on of the build 30, V (with B	ding is comple	ete. A, AR/AE,		☑ Finished Construction H, AR/AO. Complete Items C2.a-g
2							heck the measurer	
	d) Attached garage (to	ner floor st horizontal struc op of slab) f machinery or eq quipment in Com nished) grade (LA	etural member (V Zo uipment servicing th ments) AG)	nes only)	35.18 NA. NA. 33.60. 35.18. 29.9 30.4	⊠ feet ⊠ feet ⊠ feet ⊠ feet ⊠ feet	meters (Puerl	to Rico only)
		SECTIO	N D - SURVEYO	R ENGINE	FR OR AR	CHITECT	CERTIFICATIO	M
info I ur	s certification is to be signation. I certify that the oderstand that any false such that the comments of the	ned and sealed to be information on to statement may be	by a land surveyor, e this Certificate repre e punishable by fine	engineer, or a	architect authorst efforts to int	orized by la	w to certify elevati	PLACE
Cer	tifier's Name WILLIAM	N. KITCHEN			License N	lumber 54	490	SEAL HERE
Title	PROFESSIONAL SU	RVEYOR AND I	MAPPER Co	mpany Name	WILLIAM	N. KITCHE	EN, P.S.M.	
	dress 152 N. MARION	AVENUE	City LAKE C	ITY	State FL	ZIP Cod	de 32055	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sig	nature than 1	1. Part	Date 6-17-2008	Teleph	none 386-75	55-7786		$z/\sqrt{x_{-y}} \hat{\xi}_{z_{-}} = z^{-1}$

IMPORTANT: In these spaces				Α	F	or Insurance	Company Use:
Building Street Address (including A 902 SW MONTANA STREET		P.O. Route and E	Box No.		P	olicy Numbe	or .
City FT. WHITE State FL. ZIP	Code 32038				C	ompany NA	IC Number
SECTION	ON D - SURVEYOR, ENGINEER	R, OR ARCHITE	CT CE	RTIFICATION	ON (CONTI	NUED)	
Copy both sides of this Elevation Co	ertificate for (1) community official, (2	2) insurance agent	t/compai	ny, and (3) bu	uilding owner.		
Comments C2e = AC, HOT WATE		TER= 35.0			2		
Signature	4 / 1	Date 6	-17-2008	3		□ cho	eck here if attachme
SECTION E - BUILDING EL	EVATION INFORMATION (SU	RVEY NOT REC	QUIRED) FOR ZOI	NE AO AND		
 E1. Provide elevation information grade (HAG) and the lowest a a) Top of bottom floor (including b) Top of platform of machinery at the second floor floor	ng basement, crawl space, or enclosing basement, crawl space, or enclosing basement flood openings provide its) of the building is metals is feet metals mand/or equipment servicing the building is feet metals feet metals for equipment servicing the building is feet metals feet	asurement used. opriate boxes to s sure) is d in Section A Iter feet mete eters above or ing is the bottom floor el	In Puert how whe	o Rico only, of ther the eleventher	enter meters. vation is above eters above eters	e or below the or below to be or below to below to below to below to below to below the below th	ne highest adjacent ow the HAG. ow the LAG. next higher floor the HAG.
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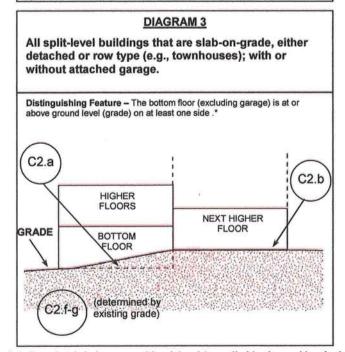
BUILDING DIAGRAMS

The following eight diagrams illustrate various types of buildings. Compare the features of the building being certified with the features shown in the diagrams and select the diagram most applicable. Enter the diagram number in Item A7., the square footage of crawl space or enclosure(s) and the area of flood openings in square inches in Items A8.a-c, the square footage of attached garage and the area of flood openings in square inches in Items A9.a-c, and the elevations in Items C2.a-g.

In A zones, the floor elevation is taken at the top finished surface of the floor indicated; in V zones, the floor elevation is taken at the bottom of the lowest horizontal structural member (see drawing in instructions for Section C).

All slab-on-grade single- and multiple-floor buildings (other than split-level) and high-rise buildings, either detached or row type (e.g., townhouses); with or without attached garage. Distinguishing Feature – The bottom floor is at or above ground level (grade) on at least one side. * C2.a NEXT HIGHER FLOOR BOTTOM FLOOR C2.f-g (determined by existing grade)

DIAGRAM 2 All single- and multiple-floor buildings with basement (other than split-level) and high-rise buildings with basement, either detached or row type (e.g., townhouses); with or without attached garage Distinguishing Feature - The bottom floor (basement or underground garage) is below ground level (grade) on all sides. Buildings constructed above crawl spaces that are below grade on all sides should also use this diagram. C2.a C2.b **NEXT HIGHER FLOOR** GRADE **BOTTOM FLOOR** (BASEMENT) (determined by existing grade)



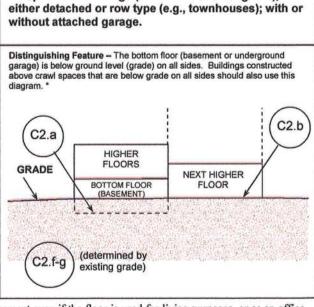


DIAGRAM 4

All split-level buildings (other than slab-on-grade),

* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.



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.

Building permit No. 000026768

19.26

Fire:

Waste: 50.25

Parcel Number 26-6S-15-00772-000

Use Classification SFD/UTILITY

Permit Holder JOHN D. HARRINGTON

Owner of Building RENEE BUTLER

69.51

Total:

Location: 902 SW MONTANA STREET, FT. WHITE, FL

Date: 07/29/2008

Building Inspector

POST IN A CONSPICUOUS PLACE (Business Places Only)

161 N.W. Madison St. Suite 102 Lake City, Florida 32055

Tel: 386-758-4209 Fax: 386-758-4290

2/7/2008

Columbia County Building Department

To whom it may concern,

RE: Butler Residence, Parcel ID 00772-000

I have reviewed the conditions for the referenced property. The property is located in a flood zone (Zone AE). The finished floor elevation of (35.0') shall be set at least 1' above the 100 year flood elevation. The 100 year flood elevation is established at 34.0'. Please find a copy of the calculations verifying the flood rise to be less than 1'-0". If you have any questions, please call me at (386) 758-4209.

Sincerely,

William Freeman, P.E. #56001

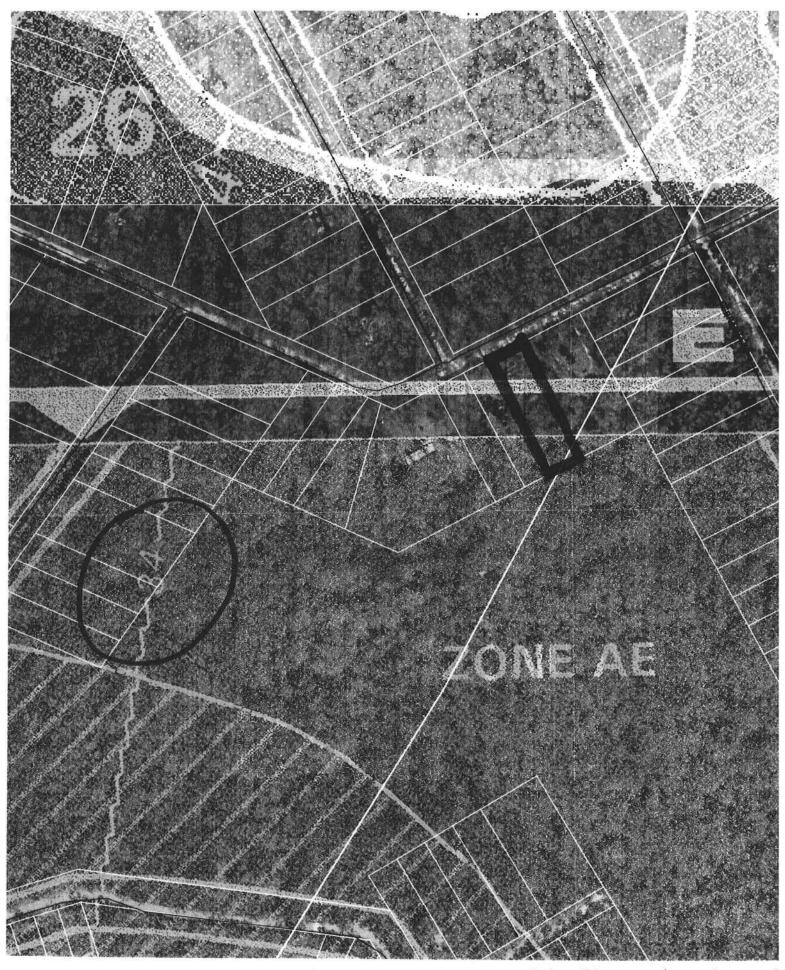
Certificate of Authorization # 00008701

Freeman Design Group, Inc. 161 NW Madison St., Ste. # 102 Lake City, FL 32055 (386) 758-4209

1-ft Ris	e Flood	Certification C	alculations				
Proj	ect: Butler	Residence (ID#0	0772-000)				
Home and building pad							
Footing Area (sf):	2123	slab level	2123.00 sf slab				
Base of Fill (sf)	5180	ground level	5180.00 sf base				
Rise Ht(ft):	3	fill required					
Contributing Area: L	0.92	acres>	40,001.15 sf 3651 500 sf				
Contributing Area: L Avg. Fill Area: Net Land Area (contri			40,001.15 sf 3651.500 sf 36,349.65 sf				
Avg. Fill Area:	buting minu		3651.500 sf				

Base Flood Elevation 34.0 ft Min. Finished Floor Elevation 35.0 ft

> Welte 11/108 PE#56001



RENEE BUTLER

0801-84

1st Floor to be at 35 f

Columbia County Building Department Culvert Permit

Culvert Permit No.

000001559

DATE $02/1$	18/2008 PARC	EL ID # 26-68-15-00772-000	_	
APPLICANT	JOHN D. HARRINGTON	PHON	E 386.462.5323	
ADDRESS _	1250 US HWY 441	ALACHUA	FL_	32615
OWNER RE	ENEE BUTLER	PHON	E 561.964.4239	
ADDRESS _9	02 SW MONTANA STREET	FT. WHITE	FL	32038
CONTRACTO	OR JOHN D. HARRINGTON	PHON	E 386.462.5323	
LOCATION O	F PROPERTY 47-S TO US 27,	TR TO 3 RIVERS S.D,TL GO TO MO	NTANA,TL PAST	
DINGO WAY & V	WASHINGTON AVE, PROPERTY OF	N R.		
				
SUBDIVISION	I/LOT/BLOCK/PHASE/UNIT	3 RIVERS ESTATES	30	
SIGNATURE	1 go bungt			
	INSTALLATION REQUIR	REMENTS		
X	Culvert size will be 18 inches driving surface. Both ends will thick reinforced concrete slab	in diameter with a total lenght of l be mitered 4 foot with a 4 : 1 sl	f 32 feet, leaving 24 lope and poured with	feet of n a 4 inch
	 a) a majority of the current a b) the driveway to be served Turnouts shall be concrete 	nouts will be required as follows: and existing driveway turnouts a d will be paved or formed with co e or paved a minimum of 12 fee ay, whichever is greater. The wid d or concreted turnouts.	are paved, or; oncrete. et wide or the width o	
	Culvert installation shall conf	form to the approved site plan s	tandards.	
	Department of Transportation	n Permit installation approved s	tandards.	
	Other			
ALL PROPER SA	AFETY REQUIREMENTS SHOUL	D BE FOLLOWED		4312 CA

DURING THE INSTALATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21 Lake City, FL 32055

Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00



Columbia County Building Department Flood Development Permit

Development Permit F 023- 08-006

DATE 02/18/2008 BUILDING PERMIT NUMBER 000026768
APPLICANT JOHN D. HARRINGTON PHONE 386.462.5323
ADDRESS 1250 US HWY 441 ALACHUA FL 32615
OWNER RENEE BUTLER PHONE 561.964.4239
ADDRESS 902 SW MONTANA STREET FT. WHITE FL 32038
CONTRACTOR JOHN D. HARRINGTON PHONE 386.462.5323
ADDRESS 12501 US HWY 441 ALACHUA FL 32615
SUBDIVISION 3 RIVERS ESTATES Lot 30 Block Unit 10 Phase
TYPE OF DEVELOPMENT SFD/UTILITY PARCEL ID NO. 26-6S-15-00772-000
FLOOD ZONE AE BY BLK 1-6-88 FIRM COMMUNITY #. 120070 - PANEL #. 0 255 B FIRM 100 YEAR ELEVATION 34.0' PLAN INCLUDED YES OF NO REQUIRED LOWEST HABITABLE FLOOR ELEVATION 35.0' IN THE REGULATORY FLOODWAY YES OF NO RIVER ANTA 7E SURVEYOR / ENGINEER NAME William FREEMAN LICENSE NUMBER 5600
ONE FOOT RISE CERTIFICATION INCLUDED ZERO RISE CERTIFICATION INCLUDED
SRWMD PERMIT NUMBER (INCLUDING THE ONE FOOT RISE CERTIFICATION)
DATE THE FINISHED FLOOR ELEVATION CERTIFICATE WAS PROVIDED
INSPECTED DATE BY

135 NE Hernando Ave., Suite B-21

Lake City, Florida 32055 Phone: 386-758-1008 Fax: 386-758-2160



COLUMBIA COUNTY 9-1-1 ADDRESSING

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

Addressing Maintenance

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

DATE REQUESTED:

1/15/2008

DATE ISSUED:

1/16/2008

ENHANCED 9-1-1 ADDRESS:

902

SW MONTANA

ST

FORT WHITE

FL 32036

PROPERTY APPRAISER PARCEL NUMBER:

00-00-00-00772-000

Remarks:

LOT 30 UNIT 10 THREE RIVERS ESTATES

Address Issued By:

hambia County 9-1-1 Addressing / GIS Department

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

Approved Address

1106

הויי את דממת דדי בהות

· LLOUIS

JAN 16 2000

911Addressing/GIS Dept

STATE OF FLORIDA DEPARTMENT OF HEALTH APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT Permit Application Number_ PART II - SITEPLAN ---Scale: 1 inch = 50 feet. 28 Notes: Site Plan submitted by MASTER CONTRACTOR Plan Approved By_ County Health Departmer

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 10/96 (Replaces HRS-H Form 4016 which may be used) (Stock Number: 5744-002-4015-6)

Page 2 of

Self Miamirich 386-454-1835

Standard System:

4" Well

1 HP Submersible Pump

60 Gallon Captive Air Tank with Cycle Stop Valve

OR

bow6

1 260 Gallon Tank with No Cycle Stop Valve

1 1/4" Schedule #80 PVC Drop Pipe

All Wiring to Electrical Code

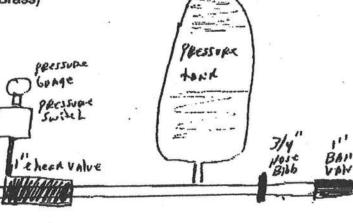
1" Union (PVC)

1" Check Valve (Brass)

3/4" Pressure Relief Valve (Brass)

3/4" Hose Bibb (Brass)

1" Ball Valve (PVC)



ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.7 # 221000

The higher the score, the more efficient the home.

26 768

RENEE BUTLER, Lot: 30, Sub: Three River Est, Plat: 520-542 780-1389 788-179 826-846, Fort White, FI,

1.	New construction or existing	New		12.	Cooling systems	
2.	Single family or multi-family	Single family		a.	Central Unit	Cap: 36.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 13.00
4.	Number of Bedrooms	3		b.	N/A	
5.	Is this a worst case?	Yes				
6.	Conditioned floor area (fl2)	1636 ft²	-	c.	N/A	
7.	Glass type 1 and area: (Label reqd.	by 13-104.4.5 if not default)				
a	U-factor:	Description Area		13.	Heating systems	
b	(or Single or Double DEFAULT) . SHGC:		_	a.	Electric Heat Pump	Cap: 36.0 kBtu/hr _ HSPF: 7.90 _
	(or Clear or Tint DEFAULT)	7b. (Clear) 170.0 ft ²	_	b.	N/A	22
8.	Floor types					
a	Stem Wall	R=0.0, 1636.0ft ²		C.	N/A	_
b	. N/A					_
c	N/A			14.	Hot water systems	
9.	Wall types			a.	Electric Resistance	Cap: 40.0 gallons
a	Concrete, Int Insul, Exterior	R=6.0, 1029.0 ft ²	_			EF: 0.92
b	. Frame, Wood, Adjacent	R=11.0, 139.0 ft ²	_	b.	N/A	
c	N/A		_			
d	. N/A			C.	Conservation credits	-
e	. N/A		_		(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
a	. Under Attic	R=30.0, 1636.0 ft ²	_	15.	HVAC credits	PT, CF,
b	. Under Attic	R=30.0, 180.0 ft ²	_		(CF-Ceiling fan, CV-Cross ventilation,	
c	N/A				HF-Whole house fan,	
11.	Ducts				PT-Programmable Thermostat,	
a	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 120.0 ft	_		MZ-C-Multizone cooling,	
b	. N/A		-		MZ-H-Multizone heating)	
		Ĩ				

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

Builder Signature:

Address of New Home: Three Render Efets City/FL Zip: Juf blute H

*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating.

Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building

Construction, contact the Department of Community Affairs at 850/487-1824.

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLRCSB v4.5.2)

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 30, Sub: Three River Est, Plat: 520-542 780-1389 788-179 826-846, Fort White, FI, PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 30, Sub: Three River Est, Plat: 520-542 780-1389 788-179 826-846, Fort White, FI, PERMIT #:

BASE					AS-BUILT								
WATER HEA Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	х	Tank X Ratio	Multiplier	х	Credit Multipli	
3		2635.00		7905.0	40.0	0.92	3	W 100 100 100 100 100 100 100 100 100 10	1.00	2635.00		1.00	7905.0
					As-Built To	tal:							7905.0

	CODE COMPLIANCE STATUS													
BASE							AS-BUILT							
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	
6753		8454		7905		23113	5263		9774		7905		22942	

PASS



WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

	BASE		AS-BUILT									
Winter Base	Points:	15260.1	Winter As-Built Points:	19072.7								
Total Winter X Points	System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit = Component Ratio Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	Heating Points								
15260.1	0.5540	8454.1	(sys 1: Electric Heat Pump 36000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Gar(AH) 19072.7 1.000 (1.069 x 1.169 x 1.00) 0.432 0.950 19072.7 1.00 1.250 0.432 0.950	,R6.0 9773.6 9773.6								

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

BASE				AS-	BUI	LT		рон		
GLASS TYPES .18 X Conditioned X BWPM = Floor Area	Points	Type/SC	Over Ornt	rhang Len	Hgt	Area X	WI	PM X	wo	= Point
.18 1636.0 20.17	5940.0	1.Double, Clear 2.Double, Clear 3.Double, Clear 4.Double, Clear 5.Double, Clear 6.Double, Clear 7.Double, Clear	W E N S S	2.0 2.0 2.0 2.0 2.0 2.0 2.0	5.7 5.7 3.7 3.0 3.0 3.0 3.0	51.0 34.0 15.0 5.0 30.0 30.0 5.0	1 2 2 1	20.73 18.79 24.58 24.58 13.30 13.30	1.05 1.07 1.01 1.01 2.06 2.06 2.06	1107.0 681.0 372.0 124.0 823.0 823.0 137.0
		As-Built Total:				170.0			2.00	4067.0
WALL TYPES Area X BWPM	= Points	Туре		R-V	'alue	Area	х	WPM	=	Points
Adjacent 139.0 3.60 Exterior 1029.0 3.70	500.4 3807.3	Concrete, Int Insul, Exterior Frame, Wood, Adjacent			6.0 11.0	1029.0 139.0	CHINANOCA	5.15 3.60		5299.3 500.4
Base Total: 1168.0	4307.7	As-Built Total:				1168.0			orten de la constante	5799.7
DOOR TYPES Area X BWPM	= Points	Туре				Area	Х	WPM	=	Points
Adjacent 21.0 11.50 Exterior 66.0 12.30 Base Total: 87.0	241.5 811.8 1053.3	1.Exterior Insulated 2.Exterior Insulated 3.Adjacent Insulated As-Built Total:				43.0 23.0 21.0 87.0		8.40 8.40 8.00		361.2 193.2 168.0 722.4
CEILING TYPES Area X BWPM :	= Points	Туре	R-\	/alue	Are	ea X W	PM	x wc	M =	Points
Under Attic 1636.0 2.05 Base Total: 1636.0	3353.8 3353.8	1. Under Attic 2. Under Attic As-Built Total:			30.0 30.0			X 1.00 X 1.00		3353.8 369.0 3722.8
FLOOR TYPES Area X BWPM :	= Points	Туре		R-V	'alue	Area	х	WPM	=	Points
Slab 0.0(p) 0.0 Raised 1636.0 0.96	0.0 1570.6	1. Stem Wall			0.0	1636.0		3.50		5726.0
Base Total:	1570.6	As-Built Total:		***************************************	retters e service	1636.0		William Market County		5726.0
INFILTRATION Area X BWPM :	= Points					Area	Х	WPM	=	Points
1636.0 -0.59	-965.2				A SEN E	1636.	0	-0.59	Simeha	-965.2

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

	BASE		AS-BUILT								
Summer Ba	se Points:	20779.8	Summer As-Built Points:	17941.2							
Total Summer Points	X System Multiplier	= Cooling Points	Total X Cap X Duct X System X Credit = Component Ratio Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	= Cooling Points							
20779.8	0.3250	6753.4	(sys 1: Central Unit 36000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS 17941 1.00 (1.09 x 1.147 x 1.00) 0.260 0.902 17941.2 1.00 1.250 0.260 0.902	5263.3 5263.3							

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

I	BASE					AS-	BUI	LT	- 1-3WF2M1-11-1		
GLASS TYPES .18 X Condition		SPM =	Points	Type/SC	Ove Ornt	rhang Len	Hgt	Area X	SPM >	(SOF	= Points
.18 1636.0	1	18.59	5474.0	1.Double, Clear 2.Double, Clear 3.Double, Clear 4.Double, Clear 5.Double, Clear 6.Double, Clear 7.Double, Clear As-Built Total:	W E N N S S	2.0 2.0 2.0 2.0 2.0 2.0 2.0	5.7 5.7 3.7 3.0 3.0 3.0	34.0 15.0 5.0 30.0 30.0	38.52 42.06 19.20 19.20 35.87 35.87	0.83 0.83 0.82 0.78 0.59 0.59	1638.0 1190.0 234.0 74.0 634.0 634.0 105.0
WALL TYPES	The second second		= Points	Туре		R-\	/alue		X SP	M =	Points
Adjacent Exterior	139.0 1029.0	0.70 1.70	97.3 1749.3	Concrete, Int Insul, Exterior Frame, Wood, Adjacent	r		6.0 11.0	1029.0 139.0	0.8 0.7		874.7 97.3
Base Total:	1168.0		1846.6	As-Built Total:				1168.0			972.0
DOOR TYPES	Area X	BSPM	= Points	Туре				Area	X SP	M =	Points
Adjacent Exterior Base Total:	21.0 66.0 87.0	2.40 6.10	50.4 402.6 453.0	1.Exterior Insulated 2.Exterior Insulated 3.Adjacent Insulated As-Built Total:				43.0 23.0 21.0 87.0	4.1 4.1 1.6	0	176.3 94.3 33.6 304.2
CEILING TYPES	Area X	BSPM	= Points	Туре	R	-Valu	e A	rea X S	SPM X S	SCM =	Points
Under Attic	1636.0 1636.0	1.73	2830.3 2830.3	1. Under Attic 2. Under Attic As-Built Total:			30.0 30.0		1.73 X 1.0 1.73 X 1.0		2830.3 311.4 3141.7
FLOOR TYPES	Area X	BSPM	= Points	Туре		R-\	/alue	Area	X SP	M =	Points
	0.0(p) 1636.0	0.0 -3.99	0.0 -6527.6	1. Stem Wall			0.0	1636.0	-4.7	0	-7689.2
Base Total:			-6527.6	As-Built Total:			7 11	1636.0	-	-	-7689.2
INFILTRATION	Area X	BSPM	= Points					Area	X SP	M =	Points
	1636.0	10.21	16703.6					1636.	0 10.	21	16703.6

Project Name:

Address:

City, State:

BUTLER RESIDENCE

Fort White, FI

House Craft Homes

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Lot: 30, Sub: Three River Est, Plat: 520-542 780-1389 788-179 828-enanitting Office:

Builder:

BUILDING OFFICIAL: ____

DATE:

Permit Number:

Owner: RENEE BUTLER Climate Zone: North	Jurisdiction Number:
1. New construction or existing New 2. Single family or multi-family Single family 3. Number of units, if multi-family 1 4. Number of Bedrooms 3 5. Is this a worst case? Yes 6. Conditioned floor area (ft²) 1636 ft² 7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default) a. U-factor: Description Area (or Single or Double DEFAULT) 7a. (Dble Default) 170.0 ft² b. SHGC: (or Clear or Tint DEFAULT) 7b. (Clear) 170.0 ft² 8. Floor types a. Stem Wall R=0.0, 1636.0ft² b. N/A R=0.0, 1636.0ft² Concrete, Int Insul, Exterior R=6.0, 1029.0 ft² b. Frame, Wood, Adjacent R=11.0, 139.0 ft² R=11.0, 139.0 ft² c. N/A R=30.0, 1636.0 ft² R=30.0, 1636.0 ft² b. Under Attic R=30.0, 180.0 ft² R=30.0, 180.0 ft² c. N/A R=30.0, 180.0 ft² R=30.0, 180.0 ft² c. N/A R=30.0, 180.0 ft² R=30.0, 180.0 ft² b. Under Attic R=30.0, 180.0 ft² R=30.0, 180.0 ft² c. N/A R=30.0, 180.0 ft² R=30.0, 180.0 ft² c. N/A R=30.0, 180.0 ft²	12. Cooling systems a. Central Unit b. N/A c. N/A 13. Heating systems a. Electric Heat Pump b. N/A c. N/A 14. Hot water systems a. Electric Resistance b. N/A c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) 15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)
(Hass/Floor Area: II III)	points: 22942 points: 23113
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

OWNER/AGENT: Wilh

DATE:

16887

This Instrument Prepared By: Michael H. Harrell Abstract & Title Services, Inc. 283 NW Cole Terrace Lake City, Florida 32055

NOTICE OF COMMENCEMENT

TO WHOM IT MAY CONCERN:

The undersigned hereby give notice that improvements will be made to certain real property and in accordance with Chapter 713, Florida Statues, the following is provided in this Notice of Commencement:

- Description of Property: Lot 30, Unit 10, of Three Rivers Estates, Inc., according to the plat thereof as recorded in Plat Book 6, Page 10, of the Public Records of Columbia County, Florida.
- General Description of Improvement: Construction of Dwelling
- 3. Owner Information:
 - a. Name and Address: Renee Bess Butler, 3815 Kewanee Road, Lantana, FL 33462
 - b. Interest in property: Fee Simple
 - c. Name and address of fee simple title holder (if other than Owner): NONE
- Contractor (name and address): House Craft Homes, LLC, 12523 Highway 441, Alachua, FL 32615
- 5. Surety:
 - a. Name and Address: N/A

Inst:200812003203 Date:2/15/2008 Time:2:43 PM DC,P.DeWitt Cason,Columbia County Page 1 of 1

Bess Butler

- b. Amount of Bond: N/A
- 6. LENDER: Washington Mutual Bank, FA, 3060 139th Ave Suite 200, Bellevue, WA 98005
- Persons within the State of Florida designated by Owner upon whom notices of other 7. documents may be served as provided in Section 713.13(1)(a)7., Florida Statutes: NONE
- In addition to himself, Owner designates Reina Jones, of Washington Mutual Bank at 3060 139th Ave Sulte 200, Bellevue, WA 98005, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b) Florida Statutes.
- 8. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

*Owner is used for singular or plural as context requires.

Signed, sealed and delivered in the presence:

Porter

L. Cuevas

Refiee Bess Butler.

STATE OF FLORIDA

COUNTY OF Palm Brach

Before me, personally appeared Renee Bess Butler, to me known to be the person(s) described in and who executed the foregoing instrument, and they acknowledged to and before me that they executed said instrument for the purpose therein expressed.

Witness my hand and official seal this 13th day of February, 2008.

(SEAL)

WITNESS

NOTARY PUBL

My Commission Expires: Dec. 19, 20,0

Butler HVAC Load Calculations

for

House Craft Homes 12501 N.W U.S HWY 441 Alachua FI 32615



Prepared By:

Chuck Fischer
North Central Florida Air Conditioning I
P. O. Box 700
High Springs FI 32655-0700
(386) 454-4767
Wednesday, February 06, 2008

Rhvac - Residential & Light Commercial HVAC Loads

North Central Florida A/C Inc. High Springs, FL 32643



Elite Software Development, Inc.

Butler Page 2

Project Report

General Project Information

Project Title:

Butler

Designed By:

Chuck Fischer

Project Date:

Monday, January 07, 2008

House Craft Homes

Client Name:

Client Address:

12501 N.W U.S HWY 441

Client City:

Alachua FI 32615

Client Phone:

386-462-5323

Client Fax:

386-462-1509

Company Name:

North Central Florida Air Conditioning I

Company Representative: Company Address:

Chuck Fischer

Company City:

P. O. Box 700 High Springs FI 32655-0700

Company Phone:

(386) 454-4767

Company Fax:

386) 454-4854

Company Comment:

heat load for addition

Design Data

Reference City:

Gainesville, Florida

Daily Temperature Range:

Medium

Latitude:

29 Degrees

Elevation:

152 ft.

Altitude Factor:

0.995

Elevation Sensible Adj. Factor:

1.000

Elevation Total Adj. Factor:

1.000

Elevation Heating Adj. Factor:

1.000

Elevation Heating Adj. Factor:

1.000

77

Outdoor

Winter:	
Summer:	

Indoor Rel.Hum Grains

Dry Bulb Wet Bulb 0

Indoor Dry Bulb

Difference

31 93

Outdoor

50

72

38

50

75

50

Check Figures

Total Building Supply CFM:

1,175 1,594 CFM Per Square ft.:

0.737

Square ft. of Room Area: Volume (ft3) of Cond. Space:

15,649

Square ft. Per Ton: Air Turnover Rate (per hour): 573 4.5

Building Loads

Total Heating Required With Outside Air:

39,869 Btuh

39.869 MBH

Total Sensible Gain:

25,701 Btuh

85 %

Total Latent Gain: Total Cooling Required With Outside Air:

4,682 Btuh 30,383 Btuh

15 % 2.53 Tons (Based On Sensible + Latent)

2.78 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads.

Rhvac - Residential & Li North Central Florida A/C High Springs, FL 32643		I HVAC Loads	1				Elite Softwa	are Develop	ment, Inc. Butler Page 3
Load Preview I	Report			William Property	AT WEST	St. Com	4, 3,000		200
		Sens	Lat	Net	Sens	Win	Sum	Sys	Duct
Scope	Area	Gain	Gain	Gain	Loss	CFM	CFM	CFM	Size
Building: 2.53 Net Tor	ns, 2.78 Rec	ommended To	ons, 573 ft	.2/Ton, 39.8	7 MBH Heat	ting			
Building	1,594	25,701	4,682	30,383	39,869	521	1,175	1,175	
System 1: 2.53 Net To	ons, 2.78 Re	commended '	Tons, 573	ft.2/Ton, 39.	.87 MBH He	ating	State Indian		Reliable to
System 1	1,594	25,701	4,682	30,383	39,869	521	1,175	1,175	15x15
AED Excursion		93		93					
Zone 1	1,594	25,608	4,682	30,290	39,869	521	1,175	1,175	
1-Bedroom 3	196	3,178	767	3,945	6,101	80	146	146	1-7
2-Bath 2	60	1,343	105	1,448	1,248	16	62	62	1-5
3-Bedroom 2	230	3,323	784	4,107	6,311	82	152	152	1-7
4-Great Room	321	5,010	592	5,602	7,924	103	230	230	2-6
5-Dining Room	257	3,186	483	3,669	5,269	69	146	146	1-7

489

408

1,054

3,863

2,318

4,997 338 2,183

3,971

6,755

29

52

88

1

155

88

181

15

155

181

88

15

1-7

1-5

1-8

1-2

6-Kitchen

7-Master Bath

9-Master W.I.C

8-Master Bedroom

144

113

238

35

3,374

1,910

3,943 338

•		Elite So	oftware Develo	opment, Inc. Butler Page 4
والمراجع والمراجع	coltabel 19	S ye Steam	1.5 16.5	
Area	Sen	Lat	Sen	Total
				Gain
lear, 129.6 .23, rnal rage	3,453	0	3,605	3,605
ass, 40.8	2,426	0	2,447	2,447
39.4	469	0	332	332
pard 1095.6	6,426	0	2,867	2,867
169 I studs	547	0	300	300
nted 225	297	0	234	234
o 163 heavy	9,076	0	0	0
	22,694	0	9,785	9,785
5		1,150	1,500	2,650
		0	1,200	1,200
1995			6,803	6,803
		0		4,267
	10,529	3,532	2,053	5,585
	0	0	0	0
	0	0	93	93
	39,869	4,682	25,701	30,383
WE ASSET	THE PARTY			
				737
				573
Ai	r Turnover Rat	te (per nour):		4.5
				fallschaft.
25,701 Btuh	85 %			
4,682 Btuh 30,383 Btuh	15 %	Based On Sens	351 1 - 1	
3	Quan lear, 129.6 .23, .7nal .7age .8ss, 40.8 .3 .39.4 .0ard 1095.6 .169 .studs .nted 225 .nd .0 .0 .163 .heavy .5 .19956 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6	Quan Loss lear, 23, rnal 129.6 3,453 rage ass, 40.8 2,426 3 sss, 40.8 2,426 3 pard 1095.6 6,426 6,426 studs anted 225 297 297 and anted 225 297 3 anted 225 297 3	Area Sen Lat Quan Loss Gain lear, 129.6 3,453 0 .23, rmal rage less, 40.8 2,426 0 .3 39.4 469 0 .5 169 547 0 .5 10	Quan Loss Gain Gain

Notes

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary. Be sure to select a unit that meets both sensible and latent loads.

Rhvac - Residential & Light Commercial HVAO North Central Florida A/C Inc High Springs, FL 32643	CLoads	•		Elite So	oftware Develo	opment, Inc. Butler Page 5
System 1 Main Floor Summa	ary Loads	and the second	17 11 19 11	28 - Y II		
Component		Area	Sen	Lat	Sen	Tota
Description		Quan	Loss	Gain	Gain	Gain
D-cb-o: Glazing-Double pane, operable v metal frame with break, ground reflect outdoor insect screen with 50% cover shade screen coefficient of 0.45 and 5	ance = 0.23, age, external	129.6	3,453	0	3,605	3,605
0B-m: Glazing-French door, double pane metal frame no break, ground reflecta		40.8	2,426	0	2,447	2,447
1P: Door-Polyurethane Core		39.4	469	0	332	332
3A-4ocs: Wall-Block, board insulation on	ly R-4 board	1095.6	6,426	0	2,867	2,867
insulation, open core, siding finish	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1000.0	0,120		2,00.	2,00.
12B-3sw: Wall-Frame, R-11 insulation in 2 cavity, R-3 board insulation, siding fini		169	547	0	300	300
16DR-30: Roof/Ceiling-Under attic or knee Attic with Radiant Barrier, White or Lig Shingles, Any Wood Shake, Light Met Gravel Membrane, R-30 insulation	wall, Vented ht Color	225	297	0	234	234
22A-ph: Floor-Slab on grade, No edge ins insulation below floor, any floor cover, moist soil		163	9,076	0	0	0
Subtotals for structure:			22,694	0	9,785	9,785
People:		5	22,001	1,150	1,500	2,650
Equipment:				0	1,200	1,200
Lighting:		1995			6,803	6,803
Ductwork:		1000	6,646	0	4,267	4,267
Infiltration: Winter CFM: 235, Summer CF	M: 104		10,529	3,532	2,053	5,585
Ventilation: Winter CFM: 0, Summer CFM			0	0	2,033	0,303
AED Excursion:	1. 0		0	0	93	93
System 1 Main Floor Load Totals:			39,869	4,682	25,701	30,383
Check Figures	5-14-22-6-1					
Supply CFM:	1,175	CF	M Per Square	ft.:	0.	737
Square ft. of Room Area:	1,594		uare ft. Per To			573
	5,649		Turnover Rate			4.5
System Loads		Sent Ween Mean.				Brigger St.
Total Heating Required With Outside Air:	39,869	Btuh 39	9.869 MBH			
Total Sensible Gain:	25,701		85 %			
Total Latent Gain:	4,682		15 %			
Total Cooling Required With Outside Air:	30,383		2.53 Tons (B	ased On Sens	sible + Laten	t)
	55,500		2.78 Tone (B			

Notes

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads.

2.78 Tons (Based On 77% Sensible Capacity)

Rhvac - Residential & Light	Commercial HVAC Loads
NEW CONTRACTOR AND LONG	

High Springs, FL 32643



Elite Software Development, Inc. Butler Page 6

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

Component	Area	Sen	Lat	Sen	Total
Description	Quan	Loss	Gain	Gain	Gain
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, external shade screen coefficient of 0.45 and 50% coverage	129.6	3,453	0	3,605	3,605
10B-m: Glazing-French door, double pane clear glass, metal frame no break, ground reflectance = 0.23	40.8	2,426	0	2,447	2,447
11P: Door-Polyurethane Core	39.4	469	0	332	332
13A-4ocs: Wall-Block, board insulation only, R-4 board insulation, open core, siding finish	1095.6	6,426	0	2,867	2,867
12B-3sw: Wall-Frame, R-11 insulation in 2 x 4 stud cavity, R-3 board insulation, siding finish, wood studs	169	547	0	300	300
16DR-30: Roof/Ceiling-Under attic or knee wall, Vented Attic with Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel Membrane, R-30 insulation	225	297	0	234	234
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	163	9,076	0	0	0
Subtotals for structure:		22,694	0	9,785	9,785
People:	5		1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	1995			6,803	6,803
Ductwork:		6,646	0	4,267	4,267
Infiltration: Winter CFM: 235, Summer CFM: 104		10,529	3,532	2,053	5,585
System 1, Zone 1 Load Totals:		39,869	4,682	25,608	30,290

Check Figures			
Supply CFM:	1,175	CFM Per Square ft.:	0.737
Square ft. of Room Area:	1,594	Square ft. Per Ton:	575
Volume (ft3) of Cond. Space:	15,649	Air Turnover Rate (per hour):	4.5

Zone Loads				
Total Heating Required:	39,869	Btuh	39.869	MBH
Total Sensible Gain:	25,608	Btuh	85	%
Total Latent Gain:	4,682	Btuh	15	%
		0.2500000000000000000000000000000000000		10000

Total Cooling Required: 30,290 Btuh 2.52 Tons (Based On Sensible + Latent) 2.77 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads.

Rhvac - Residential	& Light Co	ommercial HVAC Loads
North Central Florida	A/C Inc	

1

Elite Software Development, Inc. Butler Page 7

System 1 Room Load Summary

Room Name	Area	Htg Sens	Htg	Run	Run	Clg	Clg	Clg	Air
	AT I WAS INCOME.		Nom	Duct	Duct	Sens	Lat	Nom	Sys
	SF	Btuh	CFM	Size	Vel	Btuh	Btuh	CFM	CFM
e 1									
Bedroom 3	196	6,101	80	1-7	546	3,178	767	146	146
Bath 2	60	1,248	16	1-5	452	1,343	105	62	62
Bedroom 2	230	6,311	82	1-7	570	3,323	784	152	152
Great Room	321	7,924	103	2-6	585	5,010	592	230	230
Dining Room	257	5,269	69	1-7	547	3,186	483	146	146
Kitchen	144	2,183	29	1-7	579	3,374	489	155	155
Master Bath	113	3,971	52	1-5	643	1,910	408	88	88
Master Bedroom	238	6,755	88	1-8	518	3,943	1,054	181	181
Master W.I.C	35	107	1	1-2	710	338	0	15	15
AED Excursion						93			
System 1 total	1,594	39,869	521			25,701	4,682	1,175	1,175
田田でいくシング	sedroom 3 seth 2 sedroom 2 sedroom 2 sereat Room sining Room sitchen flaster Bath flaster Bedroom flaster W.I.C	dedroom 3 196 deth 2 60 dedroom 2 230 dereat Room 321 Dining Room 257 ditchen 144 Master Bath 113 Master Bedroom 238 Master W.I.C 35 AED Excursion	dedroom 3 196 6,101 death 2 60 1,248 dedroom 2 230 6,311 dereat Room 321 7,924 dening Room 257 5,269 ditchen 144 2,183 Master Bath 113 3,971 Master Bedroom 238 6,755 Master W.I.C 35 107 AED Excursion	dedroom 3 196 6,101 80 deth 2 60 1,248 16 dedroom 2 230 6,311 82 dereat Room 321 7,924 103 deining Room 257 5,269 69 ditchen 144 2,183 29 Master Bath 113 3,971 52 Master Bedroom 238 6,755 88 Master W.I.C 35 107 1 AED Excursion	dedroom 3 196 6,101 80 1-7 deth 2 60 1,248 16 1-5 dedroom 2 230 6,311 82 1-7 Great Room 321 7,924 103 2-6 Dining Room 257 5,269 69 1-7 Citchen 144 2,183 29 1-7 Master Bath 113 3,971 52 1-5 Master Bedroom 238 6,755 88 1-8 Master W.I.C 35 107 1 1-2 AED Excursion	dedroom 3 196 6,101 80 1-7 546 deth 2 60 1,248 16 1-5 452 dedroom 2 230 6,311 82 1-7 570 Great Room 321 7,924 103 2-6 585 Dining Room 257 5,269 69 1-7 547 Citchen 144 2,183 29 1-7 579 Master Bath 113 3,971 52 1-5 643 Master Bedroom 238 6,755 88 1-8 518 Master W.I.C 35 107 1 1-2 710 AED Excursion	dedroom 3 196 6,101 80 1-7 546 3,178 deth 2 60 1,248 16 1-5 452 1,343 dedroom 2 230 6,311 82 1-7 570 3,323 Great Room 321 7,924 103 2-6 585 5,010 Dining Room 257 5,269 69 1-7 547 3,186 Citchen 144 2,183 29 1-7 579 3,374 Master Bath 113 3,971 52 1-5 643 1,910 Master Bedroom 238 6,755 88 1-8 518 3,943 Master W.I.C 35 107 1 1-2 710 338 AED Excursion 93	Sedroom 3 196 6,101 80 1-7 546 3,178 767 Seth 2 60 1,248 16 1-5 452 1,343 105 Sedroom 2 230 6,311 82 1-7 570 3,323 784 Great Room 321 7,924 103 2-6 585 5,010 592 Joining Room 257 5,269 69 1-7 547 3,186 483 Gitchen 144 2,183 29 1-7 579 3,374 489 Master Bath 113 3,971 52 1-5 643 1,910 408 Master Bedroom 238 6,755 88 1-8 518 3,943 1,054 Master W.I.C 35 107 1 1-2 710 338 0	dedroom 3 196 6,101 80 1-7 546 3,178 767 146 deth 2 60 1,248 16 1-5 452 1,343 105 62 dedroom 2 230 6,311 82 1-7 570 3,323 784 152 Great Room 321 7,924 103 2-6 585 5,010 592 230 Dining Room 257 5,269 69 1-7 547 3,186 483 146 Citchen 144 2,183 29 1-7 579 3,374 489 155 Master Bath 113 3,971 52 1-5 643 1,910 408 88 Master Bedroom 238 6,755 88 1-8 518 3,943 1,054 181 Master W.I.C 35 107 1 1-2 710 338 0 15 AED Excursion 93

System 1 Main Trunk Size:

15x15 in.

Velocity: Loss per 100 ft.:

High Springs, FL 32643

841 ft./min 0.086 in.wg

Cooling System Summary

	Cooling	Sensible/Latent	Sensible	Latent	Total
	Tons	Split	Btuh	Btuh	Btuh
Net Required:	2.53	85% / 15%	25,701	4,682	30,383
Recommended:	2.78	77% / 23%	25,701	7,677	33,378
Actual:	2.92	76% / 24%	26,500	8,500	35,000

Equipment Data

	Heating System	Cooling System
Type:	air source heat pump	Air Source Heat Pump
Model:	GSH130361+ARUF364216+HKR-10	GSH130361+ARUF364216
Brand:	Goodman	Goodman
Efficiency:	7.7 HSPF	13 seer
Sound:	0	
Capacity:	32000	35000
Sensible Capacity:	n/a	26,500 Btuh
Latent Capacity:	n/a	8,500 Btuh

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.7

The higher the score, the more efficient the home.

RENEE BUTLER, Lot: 30, Sub: Three River Est, Plat: 520-542 780-1389 788-179 826-846, Fort White, FI,

1.	New construction or existing	New		12.	Cooling systems	
2.	Single family or multi-family	Single family		a.	Central Unit	Cap: 36.0 kBtu/hr
3.	Number of units, if multi-family	1	-			SEER: 13.00
4.	Number of Bedrooms	3	-	b.	N/A	_
5.	Is this a worst case?	Yes				-
6.	Conditioned floor area (ff2)	1594 ft²		C.	N/A	-
7.	Glass type 1 and area: (Label reqd.	by 13-104.4.5 if not default)				-
a.	U-factor:	Description Area		13.	Heating systems	
	(or Single or Double DEFAULT)				Electric Heat Pump	Cap: 36.0 kBtu/hr
Ь.	SHGC:	(======================================				HSPF: 7.90
	(or Clear or Tint DEFAULT)	7b. (Clear) 169.0 ft ²		b.	N/A	
8.	Floor types					-
a.	Stem Wall	R=0.0, 1594.0ft ²		c.	N/A	_
b.	N/A					_
c.	N/A		LATE:	14.	Hot water systems	
9.	Wall types			a.	Electric Resistance	Cap: 40.0 gallons
a.	Concrete, Int Insul, Exterior	R=6.0, 881.0 ft2				EF: 0.92
Ъ.	Frame, Wood, Adjacent	R=11.0, 139.0 ft ²		b.	N/A	-
c.	N/A		127.00			-
d.	N/A			c.	Conservation credits	
e.	N/A		200		(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
a.	Under Attic	R=30.0, 1594.0 ft ²		15.	HVAC credits	PT, CF,
b.	Under Attic	R=30.0, 180.0 ft ²			(CF-Ceiling fan, CV-Cross ventilation,	
c.	N/A				HF-Whole house fan,	
11.	Ducts				PT-Programmable Thermostat,	
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 120.0 ft	_		MZ-C-Multizone cooling,	
b.	N/A	55			MZ-H-Multizone heating)	
					55	

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

Builder Signature:

ite: 2/5/08

Address of New Home: The liver Catalo

City/FL Zip: Jut white

*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is <u>not</u> a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStaTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for

information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLRCSB v4.5.2)



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 30, Sub: Three River Est, Plat: 520-542 780-1389 788-179 826-846, Fort White, FI, PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 30, Sub: Three River Est, Plat: 520-542 780-1389 788-179 826-846, Fort White, FI, PERMIT #:

BASE					AS-BUILT								
WATER HEA Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	Х	Tank X Ratio	Multiplier		Credit Aultipli	
3		2635.00		7905.0	40.0	0.92	3		1.00	2635.00	1	1.00	7905.
					As-Built To	otal:							7905.

			(CODE	CC	MPLI	ANCE	ST	ATUS	•			
BASE			AS-BUILT										
Cooling Points				Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points			
6518		8010		7905		22432	5128		9265		7905		22298

PASS



WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

	BASE		AS-BUILT			
Winter Base Points: 14457.9		14457.9	Winter As-Built Points:	18080.2		
Total Winter X Points	System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit : Component Ratio Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	= Heating Points		
14457.9	0.5540	8009.7	(sys 1: Electric Heat Pump 36000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Gar(AH 18080.2 1.000 (1.069 x 1.169 x 1.00) 0.432 0.950 18080.2 1.00 1.250 0.432 0.950	9265.0 9265.0		

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

BASE				AS-	BUI	LT				
GLASS TYPES .18 X Conditioned X BWPM = Poin Floor Area	ts	Type/SC		rhang Len	Hgt	Area X	W	PM >	(WO	F = Point
.18 1594.0 20.17 5787	7.0	1.Double, Clear 2.Double, Clear 3.Double, Clear 4.Double, Clear 5.Double, Clear	W E N N	2.0 2.0 2.0 2.0 2.0	5.7 5.7 3.7 3.0 3.0	50.0 34.0 15.0 5.0 30.0	2 2	20.73 18.79 24.58 24.58 13.30	1.05 1.07 1.01 1.01 2.06	1085.0 681.0 372.0 124.0 823.0
		6.Double, Clear 7.Double, Clear As-Built Total:	s s	2.0	3.0	30.0 5.0	1	13.30	2.06	823.0 137.0
WALL TYPES Area X BWPM = Po	oints	Туре	es y de la companya	R-V	/alue	Area	Х	WPI	И =	Points
	500.4 259.7	Concrete, Int Insul, Exterior Frame, Wood, Adjacent			6.0 11.0	881.0 139.0		5.15 3.60		4537.1 500.4
Base Total: 1020.0 3	760.1	As-Built Total:				1020.0				5037.5
DOOR TYPES Area X BWPM = Po	oints	Туре				Area	Χ	WPI	VI =	Points
Exterior 66.0 12.30	241.5 811.8	Exterior Insulated Exterior Insulated Adjacent Insulated				43.0 23.0 21.0		8.40 8.40 8.00)	361.2 193.2 168.0
	053.3	As-Built Total:			-	87.0	_		Name and Address of the Owner, where the Owner, which is	722.4
CEILING TYPES Area X BWPM = Po	-	Туре	R-\	/alue	Are	ea X W	-	THE RESERVE	de la companie	Points
	267.7 267.7	Under Attic Under Attic As-Built Total:			30.0 30.0			X 1.00		3267.7 369.0 3636.7
FLOOR TYPES Area X BWPM = Po	oints	Туре		R-V	/alue	Area	Χ	WPI	vi =	Points
Slab 0.0(p) 0.0 Raised 1594.0 0.96 15	0.0 530.2	1. Stem Wall			0.0	1594.0		3.50)	5579.0
Base Total:	530.2	As-Built Total:			At always and	1594.0	name of the last			5579.0
INFILTRATION Area X BWPM = Po	oints					Area	Х	WPI	И =	Points
1594.0 -0.59 -	940.5		00011037000		aliani annu mara	1594.	0	-0.5	9	-940.5

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

	BASE		AS-BUILT			
Summer Ba	se Points:	20054.3	Summer As-Built Points: 1747	79.3		
Total Summer Points	X System Multiplier	= Cooling Points		ooling Points		
20054.3	0.3250	6517.6		27.8 27.8		

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

BASE			AS-	BUI	LT				
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area	Type/SC	Over Ornt	-	Hgt	Area X	SP	мх	SOF	= Points
.18 1594.0 18.59 5334.0	1.Double, Clear 2.Double, Clear 3.Double, Clear 4.Double, Clear 5.Double, Clear 6.Double, Clear 7.Double, Clear	W E N N S S	2.0 2.0 2.0 2.0 2.0 2.0 2.0	5.7 5.7 3.7 3.0 3.0 3.0	50.0 34.0 15.0 5.0 30.0 30.0 5.0	4 1 1 3	8.52 2.06 9.20 9.20 5.87 5.87	0.83 0.83 0.82 0.78 0.59 0.59	1606.0 1190.0 234.0 74.0 634.0 105.0
WALL TYPES Area X BSPM = Points	Туре		R-\	/alue		Х	SPN	1 =	Points
Adjacent 139.0 0.70 97.3 Exterior 881.0 1.70 1497.7	Concrete, Int Insul, Exterior Frame, Wood, Adjacent	r		6.0 11.0	881.0 139.0		0.85 0.70	yerookuled _i co	748.9 97.3
Base Total: 1020.0 1595.0	As-Built Total:			=3	1020.0				846.2
DOOR TYPES Area X BSPM = Points	Туре				Area	Х	SPN	1 =	Points
Adjacent 21.0 2.40 50.4 Exterior 66.0 6.10 402.6 Base Total: 87.0 453.0	1.Exterior Insulated 2.Exterior Insulated 3.Adjacent Insulated As-Built Total:				43.0 23.0 21.0 87.0		4.10 4.10 1.60		176.3 94.3 33.6 304.2
CEILING TYPES Area X BSPM = Points	Туре	R	-Valu	e A	rea X S	SPM	X SC	= Mc	Points
Under Attic 1594.0 1.73 2757.6 Base Total: 1594.0 2757.6	Under Attic Under Attic As-Built Total:			30.0 30.0			X 1.00 X 1.00		2757.6 311.4 3069.0
FLOOR TYPES Area X BSPM = Points	Туре		R-\	/alue	Area	Х	SPN	1 =	Points
Slab 0.0(p) 0.0 0.0 Raised 1594.0 -3.99 -6360.1	1. Stem Wall			0.0	1594.0		-4.70		-7491.8
Base Total: -6360.1	As-Built Total:				1594.0				-7491.8
INFILTRATION Area X BSPM = Points					Area	Х	SPN	1 =	Points
1594.0 10.21 16274.7					1594.	0	10.21		16274.7

Project Name:

Address:

DATE:

DATE:

OWNER/AGENT:

I hereby certify that this building, as designed, is in

compliance with the Florida Energy Code.

BUTLER RESIDENCE

House Craft Homes

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Lot: 30, Sub: Three River Est, Plat: 520-542 780-1389 788-179 82 Permitting Office:

Builder:

this building will be inspected for compliance with Section 553,908

BUILDING OFFICIAL:

Florida Statutes.

DATE:

City, State:	Fort White, FI		Permit Number:	7.
Owner:	RENEE BUTLER		Jurisdiction Number:	
Climate Zone:	North			
			10.05	
1. New construction	2000 TO 100 TO 1	New _	12. Cooling systems	26 0 l-De-/l
2. Single family or i		Single family	a. Central Unit Ca	p: 36.0 kBtu/hr
Number of units,	February 1 200 1 42 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 —		SEER: 13.00
4. Number of Bedro	100 (100 (100 (100 (100 (100 (100 (100	3 —	b. N/A	()
Is this a worst ca		Yes _	2000	-
6. Conditioned floor		1594 ft²	c. N/A	· ·
7. Glass type 1 and	area: (Label reqd. by 13-104.	4.5 if not default)	AND THE CONTROL OF TH	-
a. U-factor:		cription Area	13. Heating systems	
(or Single or Do	uble DEFAULT) 7a. (Dble	Default) 169.0 ft ²	a. Electric Heat Pump Ca	p: 36.0 kBtu/hr
b. SHGC:				HSPF: 7.90
(or Clear or Tin	t DEFAULT) 7b.	(Clear) 169.0 ft ²	b. N/A	
8. Floor types		The construction of the co	=	
a. Stem Wall		R=0.0, 1594.0ft ²	c. N/A	
b. N/A		The same of the sa		
c. N/A			14. Hot water systems	
9. Wall types			a. Electric Resistance Ca	ap: 40.0 gallons
a. Concrete, Int Ins	ul. Exterior	R=6.0, 881.0 ft ²		EF: 0.92
b. Frame, Wood, A		R=11.0, 139.0 ft ²	b. N/A	_
c. N/A	ajaran.			-
d. N/A		*	c. Conservation credits	377
e. N/A		-	(HR-Heat recovery, Solar	1—2
10. Ceiling types		-	DHP-Dedicated heat pump)	
a. Under Attic		R=30.0, 1594.0 ft ²	15. HVAC credits	PT, CF, _
		R=30.0, 1394.0 ft ²	(CF-Ceiling fan, CV-Cross ventilation,	r i, cr,
b. Under Attic		R-30.0, 180.0 It		
c. N/A		-	HF-Whole house fan,	
11. Ducts	0 110 07 10		PT-Programmable Thermostat,	
a. Sup: Unc. Ret: U	Inc. AH: Garage S	up. R=6.0, 120.0 ft	MZ-C-Multizone cooling,	
b. N/A		-	MZ-H-Multizone heating)	
		_		
		1 7 7 11 51 4		
Gla	ss/Floor Area: 0.11	Total as-built		
Cid		Total base	oints: 22432	
I become		tions sourced by	Periou of the plane and	
	t the plans and specifica		Review of the plans and specifications covered by this	F THE STATE
8.18 17.35	in compliance with the	Florida Energy	calculation indicates compliance	9
Code.	. 10 . 11	i	with the Florida Energy Code.	15/1/1/20
PREPARED BY	1: Jan Otherst		Before construction is completed	

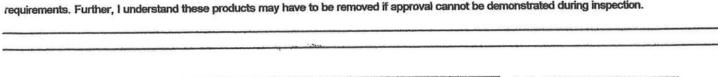
Permit#	
User ID	

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)	Х
I. EXTERIOR DOORS				
SWINGING	Masonite	Entry Door	FL. 4940.4	_
3. SLIDING	HR Danvid	502 SGD	FI 6396.5	
C. SECTIONAL/ROLL UP	Overhead Door	Garage door	FL 674	
D. OTHER				-
2. WINDOWS				
A. SINGLE/DOUBLE HUNG	Kinco	M50 SH Alum. Window	Fl. 123	-
B. HORIZONTAL SLIDER				_
C. CASEMENT				1
D. FIXED	Kinco	M50 PC Window	Fl. 125	
E. MULLION	HR	340	FL 5872	_
F. SKYLIGHTS				4_
G. OTHER / GLASS BLOCK	Hy-Lite	Glass Block window	FL 1956.3	+
3. PANEL WALL				_
A. SIDING				+-
B. SOFFITS	Kaycan	Aluminum soffits	FL 1146.5	-
C. STOREFRONTS				-
D. GLASS BLOCK				+-
F. OTHER				+
4. ROOFING PRODUCTS	7			1
A. ASPHALT SHINGLES	Tamko	Heritage 38-R	FL. 7154	1
B. NON-STRUCT METAL				
C. ROOFING TILES				_
D. SINGLE PLY ROOF			1	_
E. OTHER			10	+
5. STRUCT COMPONENTS				T
A. WOOD CONNECTORS				_
B. WOOD ANCHORS	Simpson	Truss anchors	1901.17 1901.45	-
C. TRUSS PLATES			1901.25 1901.21	-
D. INSULATION FORMS				-
E. LINTELS	Cenemt Precast	Concrete lintels	FL. 4569	-
F. TRUSSES	Thomas E. Miller	engineer	PE 56877	+
6. NEW EXTERIOR				1
ENVELOPE PRODUCTS				_
A.				

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





	**	-
OPLICANT SIGNATURE		DATE

WINDOWS, DOORS, AND MULL BARS INFORMATION

BAC' NOT ABE-GOD WELLSIONS DESCRIBLION BRADBHTON, PL. 84207 PRONS: (841) 758-1581 FASTENER SCHEDULE any CHE DI STE DAG DI LER SCOTE HEE SCOTE 18/55/01 NOWVNDEX INSLYTTYLION DELVIT STONIS 257 434 SINCTE HONG ELVE TON SERIES: PSF PASTENEE SCHEDULE 一部海 AND 26" 0.0. MAX. UNIT VEDTS NO. SSE) (PSF) ANCHORS 35 AND (PSF) OC WAX NO. 76-3/4 50-5/8 HENCE AND RESCHE , 83 S # 10 P.H. S.M.S. W/1-1/2" MIN. EMBEDMENT SEE ELEVATION FOR ANCHOR SPACING. 28-1/8 -1/8 NOTES:
1) SHIM AS REQUIRED, MAX SHIM STACK 1/4.
2) ALL ALVIENUE EXTRUSIONS ARE ALLOY 6039-T5
0) USE THE TYPICAL WALL THEICHESS OF 0.62.
3) USE HIGH QUALTY CALLE BEHIND TRIDOV FLANCE. [WIND CLASS THICKNESS BASED ON TABLE ELSOO GLASS
4) GLASS THICKNESS BASED ON TABLE ELSOO GLASS
CHARTS, AND MAY VART DEPENDING ON SIZE
5) THE RESPONSIBILITY FOR SELECTION OF NORANDEX PRODUCTS TO MET ANY APPLICABLE LOCAL LAWS. REQUIREMENTS REST SOLELY WITH THE ARCHITECT, 528
BUILDING OWNER OR CONTRACTOR.
6) A PRESSURE TREATED WOODEN BUCK OR MARBLE SIZE
FIRMLY SUPPORT UNIT. THIS SUPPORT SHALL BE FIRMLY AND SUPPORT THE PRODUCT TO STEALY AND SUPPORT THE PRODUCT OF STEALY AND SUPPORT THE PRODUCT OVER ITS FULL LENGTH (SUPPLIED BY OTHERS).
7) COUNTERED DAYS.
7) COUNTERED DAYS. 4 SECTION BY BUCK TYP--JAMB SIZE WIDTH CALL BY BUCK (C 3/16" TAPCON W/1-1/4" MIN. EMBEDMENT SEE ELEVATION FOR FOR ANCHOR SPACING. MAX (BOTH JAMBS) T/4, NVX HEADER SECTIO BUCK # 10 P.H. S.M.S. WITH A
MIN. 1-1/2" MIN. EMBEDMENT
SIE ELEVATION FOR
ANCHOR SPACING. BY Q SEE NOTE TYP. VENT HIEGHT SECTION 1.500 MIHS .V/T BUCK 3/16" TAPCON WITH A
MIN. 1-1/4" MIN. EMBEDMENT
SEE ELEVATION FOR
ANCHOR SPACING. 1.940 SILL Δ BY Δ AND TYP. PAGE HEADER .750 TYP 4 (C'S'H') (A) CALL SIZE HEIGHT

NORANDEX PAGE 9

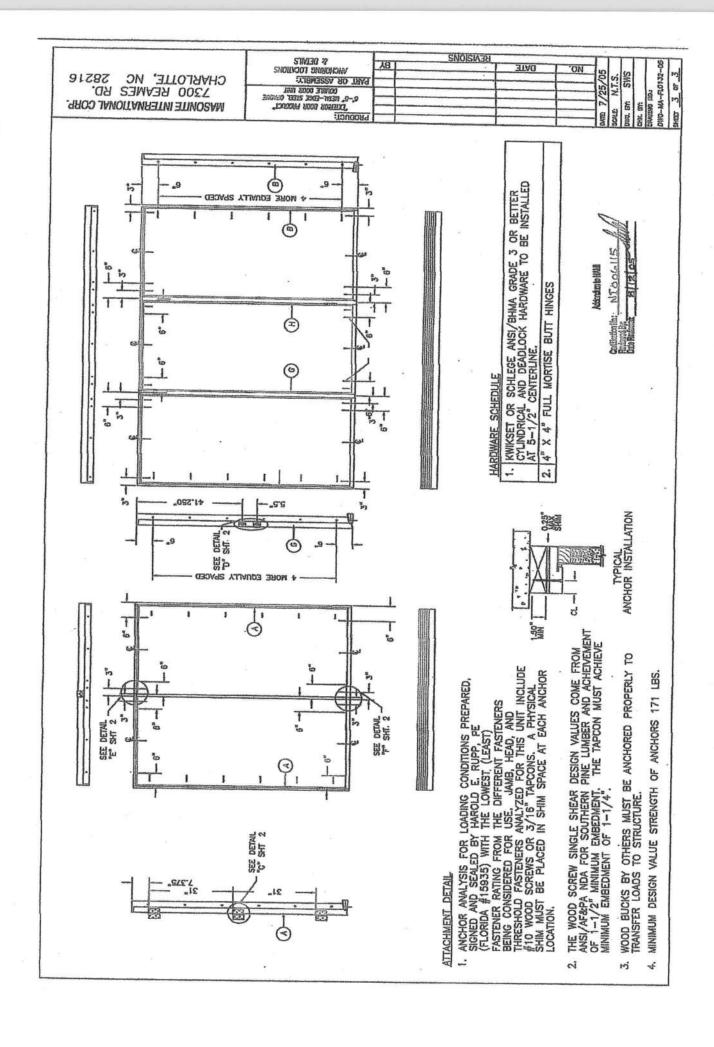
FASTENER SCHEDULE 1091-221 (100) 12HOMA 40872 "34" (100) 12HOMA HEALSIONS DESCRIPTION 180-DES POR anv INSTALLATION DETAIL ANG UM TES FEY DE THE THE PLY TESTON FEYER IS TO THE NOBVIDEX a sexua moningi ASP 'SZIVES 437 FIXED WINDOW MAYE OR PASTENER SCHEDULE 30 96 Š. 88 NO. ANCHORS
HEAD/SILL
SIEE NOTE 8
35 45-60
(PSF) (PSF) 8 6 18 18 2 8 8 8 18 18 MIN 04 04 04 07 05 05 05 03 80-5/8 78-3/4" (DICHES) (NICHES) 88 DIMENSIONS S D 10 P.H. S.M.S. 2 BY BUCK TYP JAMB SECTION I HIGH EMBREDATENT IT FOR ANCHOR SPACING) STEE HEADER SECTION MIHS 1/4. NVX CALL BY BUCK BY BUCK (C # 10 F.H. S.M.S.
W/1-1/2' MIN. EMBEDMENT
SEE ELEVATION FOR
ANCHOR SPACING. MAX (BOTH JAMES) 3/16" TAPCON W/1-1/4" MIN. ED (SER ELEVATION TYP. 2 SEE NOTE SILL SECTION A MHS. BUCK Δ 3/16" TAPCON WITH A MEN. I-1/4" MEN. EMBEDMENT SEE ELEVATION FOR ANCHOR SPACING. —7 BY AND Δ HEADER 4 (C.S.H.) (A) (E) CVIT BISE HEIGHL

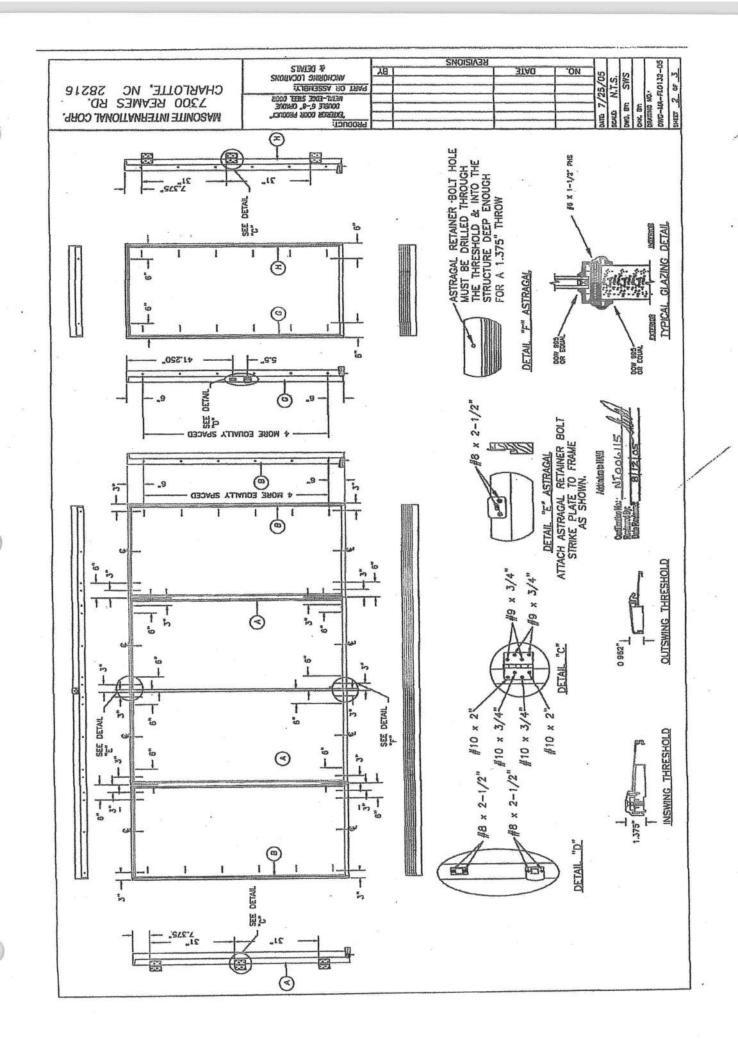
NORAL Z

BEALSIONS DESCRIBLION EVELENER SCHEDULE PRONE: (841) 765-1691 PRONE: (841) 755-1691 INSTALLATION DETAIL AND ALE NOWVNDEX BAG' BL' WE'S' SCIT'D WE'S' S\11\08 LIV-42 VACHOK CIIL VICHULAR SINCES BANC SEBIES: MATTION SEVE ON VERTICIAL MULLION NUMBER AND TYPE OF FASTENERS OR 6063 TS.
WHEN THERE IS ONE TAPCON (1/44" X 1-1/2")
ON EACH ANGLE LEG, THE TAPCON SHALL BE
PLACED ON MULLION CLP CENTERINE.
CONCRETE COMPRESSIVE STRENGTH = 3,000 PSI
AT 26 DAYS. ALUMINUM EXTRUSIONS ARE ALLOY 6063 T6 VERTICAL MULLION SCHEDULE কাকাকাক অভ্যাত্যতাত 44444 6000000 CLIP FLA-45 TYPE OF MULLION TYPE OF DESIGN PRESSURE 8 ଚ PSF 35 CA. PAS 19-1/8" 50-5/8" 76-3/4" 26. 38-1/4. 50-5/8. 76-3/4. 26" 38-1/4" 50-5/8" 78-3/4" 26" 38-1/4" 50-5/8" 78-3/4" HEIGHT SINGLE WIDTH 53-1/8 37, MULLION ANCHOR CLIP
16 GA. GALV.
SHEET METAL
800 LB. MAX CAPACITY 1x3 MULLION (XFLA-26-1) -1x4 MULLION (XFLA-39) SEE CHART FOR FASTENERS SEE CHART FOR WINDOW 3/8"MIN -3/4"MAX - WINDOW HEAD FASTENERS -3/8"MIN. 1-1/8" 1x3 MULLION (XFLA-26-1) -7/8" -7/8" Δ 4 0 Δ Δ CAULK TOP OF MULL CAULK BOTTOM-OF MULL PAGE 29 #10 X 3/4" TEK SCREW-PRECASTED - SILL #10 x 3/4" TEX SCREW WINDOW WINDOW

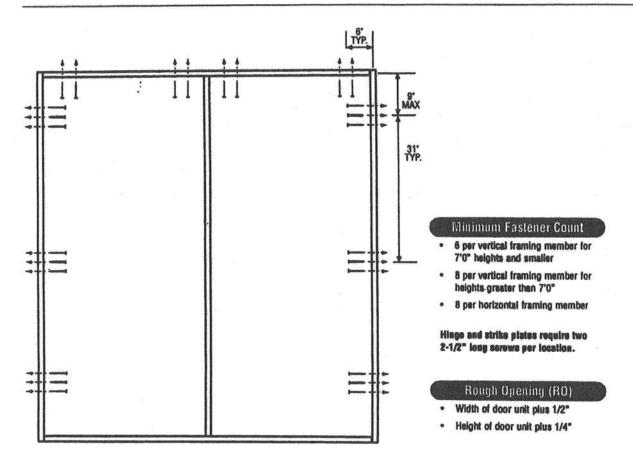
NORANDEX

NAAL CORP. RD. 28216	MASONITE INTERNATIC CHARLOTTE, NC	CENCUM HOLEZ BOOK ETENYBOKZ VZZENBIJE F-EDEZ ELET DODB INSTE Q.S., GANORE BOOK BANDONEL	FODUCA CREATER OF THE	BEAISIONS	0 0	OMT. 7/25/05 SOUR. ST. SWS CH. BT. DWGHE IN. DWG-MA-PLO132-05 SWET 1 OF 3
	T HEIGHL 19.250	GREAT TOWN			_	
FRAME WIDTH 37.5" MAX. FRAME WIDTH			IT W/SIDELITES Identrate Name of the County		OCUBIE DOOR UNIT "MASIDELITES	PRESSURE 15 PRESSURE 15 PRESSURE 15 -55.0 -55.0 -55.0 -55.0 -55.0 -55.0
11" MAX 36.375" MAX. D.L.O. — PANEL WIDTH WASTRAGAL.			DOUBLE AISWING UNIT W/SIDELITES		SINGLE DOOR UNIT WASIDELITES	WHERE WATER INFILITRATION PERFORMANCE REQUIRED TO BE 15% OF DESIGN PRESSUR 19.0
	WAE HEIGHT 81,875"————————————————————————————————————	W WW LE			SINIGE DOOR UNIT	DESIGN PRESSURE RATING 1 + 76.0 / -76.0 +76.0 -76.1 + 25.0 / -36.0 +76.0 / -36.1 + 25.0 / -36.0 +36.0 / -36.1 + 35.0 / -36.0 +36.0 / -36.1
OOR UNIT SIDELITES	TO ESSURE HAWLUM RUCHUES, S NOT REQUIRED D SOEUTES F SO TIM EB4.	RESULT 880 'F 880 'F 1.10 M/MN 89.03			SINCLE DOOR UNIT	CONFIG MAX WITE X X 37.5 CX or XO 76 CXO 112.5 CXO 112.5
SIDE-HINGED METAL-EDGE STEEL DOOR UNIT 6'-8". DOUBLE DOOR WITH / WITHOUT SIDELITES	SE PER SE	TEST DESCRIPTION DESIGNATION RESULT SELF TO THE PARTY OF SELF TRENDERS SERVIN ASTA DESUS OF SELF TRENDERS SERVIN ASTA METHOD 1	8		SINGLE DOOR UNIT DOUBLE DOOR UNIT	SHEET # TYPICAL ELEVATIONS & GENERAL HOTES A MACHORNO LOCATIONS & DETAILS ANCHORNO LOCATIONS & DETAILS ANCHORNO LOCATIONS & DETAILS





DOUBLE DOOR





Test Data Review Cartificate #3028447A; #3028447B; #3028447C and COP/Test Report Validation Matrix #3028447A-001, 002, 003, 004; #3028447A-001, 002, 003, 004; #3028447C-001, 002, 003, 004; #3028447C-001, 002, 003, 004 provides additional transmission - available from the ITS/VMI website (www.etsemice.com), the Mascrotte website (www.etsemice.com), the Mascrotte website

Latching Hardware:

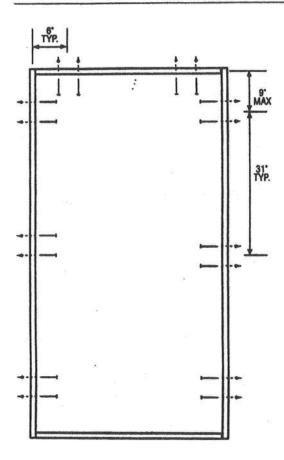
- Compliance requires that GRADE 3 or better (ANSI/BHMA A158.2) cylindrical and deadlock hardware be installed.
- UNITS COVERED BY COP DOCUMENT 9247°, 9267°, 3242°, 3247, 3252° or 3267
 Compilance requires that 8° GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel (1) at top and (1) at boltom.
- "Based on required Design Pressure see COP sheet for details.

Notes:

- Anchor calculations have been carried out with the fastener rating from the different fasteners being considered for use. Jamb and head
 fasteners analyzed for this unit include #8 wood screws and 10d common nails. Threshold fasteners analyzed for this unit include Liquid Nails
 Builders Choice 490 (or equal structural adhesive).
- 2. The wood screw and common nall single shear design values come from ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment of 1-1/4".
- 3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

Masonite.

SINGLE DOOR



Minimum Fastener Count

- 6 per vertical framing member for 7'0" height and smaller
- 8 per vertical framing member for heights greater than 7'0"
- 4 per horizontal framing member

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

Rough Opening (RO)

- Width of door unit plus 1/2"
- · Height of door unit plus 1/4"



Tind Date Review Cartificate #3029447A; #3029447R; #3029447C and COP/feet Report Validation Matrix #302947A-001, 002, 003, 004; #30294478-001, 002, 009; #3029447C-001, 002, 009, 004 provide additional Information - available from the ITSAMI valuatio (www.etisentco.com), the Masonite website (vww.emeanite.com) or the Masonite technical contex.

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A158.2) cylindrical and deadlock hardware be installed.
- UNITS COVERED BY COP DOCUMENT 8248°, 8288°, 3241°, 3248, 3281° or 3288
 Compliance requires that 8° GRADE 1 (ANSI/BHMA A156.16) surface boits be installed on latch side of active door panel (1) at top and (1) at bottom.
- *Based on required Design Pressure see COP sheet for details.

Notes:

- Anchor calculations have been carried out with the fastener rating from the different fasteners being considered for use. Jamb and head fasteners
 analyzed for this unit include 10d common nails. Threshold fasteners analyzed for this unit include Liquid Nails Builders Choice 490 (or equal
 structural adhesive).
- The common nall single shear design values come from ANSVAF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment of 1-1/4".
- 3. Wood bucks by others, must be anchored properly to transfer loads to the structure.



NOTICE OF PRODUCT CERTIFICATION



CERTIFICATION NO:

NI006592

DATE: 06/16/2006

CERTIFICATION PROGRAM: Structural COMPANY: Atrium

CODE: A-447-1

The "Notice of Product Certification" is valid only when Administrator's Seal is applied to the upper Jaft hand portion of this form and a certification label is applied to the product. This certification seal represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The product described below is approved for listing in the Directory of Certified Products at www.NAMICertification.com. Please review, and advise NAMI immediately if data, as shown, requires corrections.

COMPANY NAME AND ADDRESS	FRODUCT DESCRU	TION				
Atrium Windows & Doors-Florida 3600 Port Jacksonville Parkway Jacksonville, FL 32226	"Mark 40/50 Premium" Aluminum Single Hung Stundard Flauge Frame Window Configuration: OX Glazing: O-3/16"Annealed Glass/X-5/32" Annealed Glass					
	× .	STP PSF				
	Frame: W-4'5" Sash; W-4'2"	Pos+60.0				
	Н-8'1" Н-3'3"	Neg-67.5				

SPECIFICATION	PRODUCT RATING
AAMA/NWWDA 101/I.S.2-97/ AAMA 1302.5-76 Glass Complies to ASTM E1300-02	H-LC35 FER-Passed

Product Tested By:

Certified Testing Laboratories

Report No:

CTLA-1049W (Structural/FER)

Expiration Date:

March 31, 2007

Administrator's Signature:

NATIONAL ACCREDITATION AND MANAGEMENT INSTITUTE, INC.

11870 Merchants Walk Suite 202 Newport News, VA 23606 TEL: (757) 594-8658 FAX: (757) 594-8659

GARAGE DOORS INFORMATION

COMPARISM & INSTRUMENTAL CHARGE GROW BY 1/20: ECHNICAL DATA SHEFT #1550

GARAGE DOOR WIND LOAD GUIDE BASED ON THE 2001 FLORIDA BUILDING CODE (ASCE 7-98) EXPOSURE B

Mean Rouf Height	Door Size	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH
Les than 30 Feet	Single	11			1228	24.7		_ 35.6
	2'x7'	-14.5	-17.9	-21.6	-25.8	-30.2	-35.1	-40.2
	Double					25.5	24.7	344
	16' x 7'	-13.7	-16.9	-20.4	-24.3	-28.5	-33.1	-38.0

Design pressures above are in Pounds per Square Feet (PSF)

Testing, if required by local authority, may be performed to ASTM E-330, or professbly DASMA 108.

Anset: od cyclic wind pressure testing on glazed doors may be performed to ASTM E-1886, or preforably DASMA 115.

Tast c anditions:

Garage doors shall be tested to both negative and positive pressures. Doors shall be installed simulating normal conditions

(i.e., top roller in track redius, other rollers in tracks, all binges in place, reinforcing hardware in place)

Total test duration for each test direction shall be as follows:

A. Total of 3600/V spoonds, at design pressure; where V is fastest-mile design wind speed.

B. Pressure equal to 1.5 times the design pressure shall be included for 10 seconds during each test.

The door successfully pesses the test if it remains safely operable through the full travel up and down, and recovers at least 75% of is ma cumum deflection. Standard engineering principles may be used to interpolate or extrapolate test results to door sizes not specifically tested. Doors shall include a manufacturer's label certifying compliance to specific load.

This juide is provided for reference purposes only. In all cases the local building authority is the sole and final determinor of the structe cal and safety requirements, and suitability of the gurage door.

nutra proper space and spaces account beets-dress Aspes

Segunve pros sures assume door has 2 foot of width in building's and some, Tuesd doors :valuated as attached to maked buildings wife a Use Paster . . .

- Doors larger than 100 square feet should use the 16 x 7 leads. Doors less than 100 square feet may be interpolated.
- · Garage deers evaluated as Composents and Cladding
- · Installation details very. Commit munufacturer's instructions.

For more information, contact DASMA, 1300 Summer Avenue, Cleveland OH 44115-2851 Phone (216) 241-7333 E-mail: dasma@dasma.com Fax (216) 241-0105 URL: www.dasma.com

Tere. The raises that the state are information tools only and should not be used so substitutes for instructions from individual manufacturers. Above, consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Tection and Outs Sheet was proposed by the members of DASMA's Commercial & Rusidential Garage Door Obtains Technical Committee. DASMA is a trade association Interest of any activities of solid doors' lite doors' stage' constructions and property and are observed as may are observed to a second the contract of the

. .. Page 2 of 9

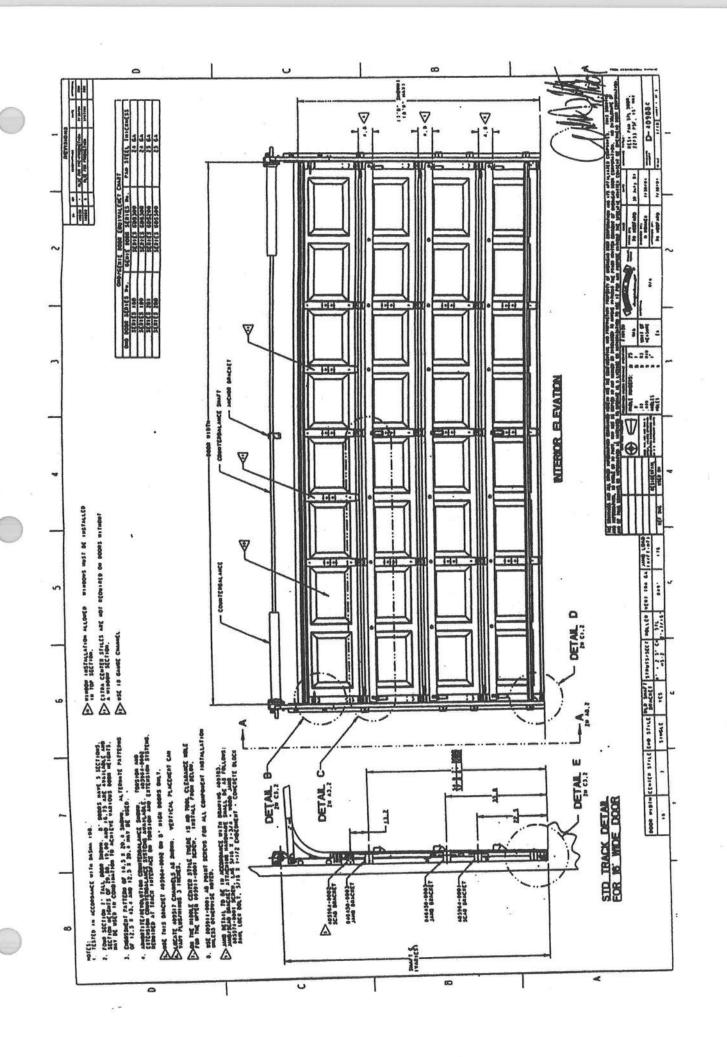
Dept 7 or 1 0 409431 APPROVED. SYSTEM DAK TO PICADER LONDS) JAMB DETM RESIDENTA HORIZONDA, JAMB, ZNB HEAUBISTANDS (REIZIGRED ONLY WITH POST THE PLEASE BECHELA BU STER. WISHEDS REGUMENT: **5** 5 5 - APP PER SE NORM.
A REY PER CO 10772. Į ZIS VENTOR JAME PE WSSB.5 8/19/36 8/19/98 MISTANCE BUTABBU 8/12/98 PSTOCK CH CENTER 18 S. Predous DAVID FAIN - - TAPODAG/ALCIOR BOUTS CAN BE INSTRUCED DIRECTLY THROUGH THOCK STANDEES IN LED OF 5/16" X 1-5/3" LAG SCHEDIS, AURIL LOCK/BOLL SANLL BE TOROUGED AS SPECIFED BY THE PARIL DRILLING AND ANCHORDING SYSTELIS DESICH MANUAL. 7 NECH 8 MICH FACTOMORS PER VEHICAL MAN. NO. OF \$ MAX. O.C. 2 EACH VERTICAL JAME SIES A MANDALAR DESIGN LOND OF +298E LB & -298E LB AND
A JAMENALW TEST LOND OF +448D LB & -448D LB. THE NORIZONTAL CANACE DOOR HELDER SIES A MAX TEST LOND
.OF. 1200§ FOR SINGLE POST, AND BANK COMENTED LOND OF 2870§ FOR HELLIPHE POSTS. NA (NOT TO BE USED FOR ATTACHAEDIF OF TRACK BRACKETS TO 208 VERMON, JAMES OR SUPPORTING STRUCTURE) **∀/**8 STLD WALLS OF DOOR OPDING SHALL BE FRAMED SOLLD BY NOT LESS RIVEN 2 RULL LIBRETH STUDS AND 2 MEADDRISTLOS VENNE STYLD GRANE OF BETTER WOLD.
STUD WALLS TO BE CONTINUOUS FROM FOOTING TO TE BEAMS AND IN ACCORDANCE WITH SPEC SECTION 2903.1. WISTALLAND IN ACCORDANCE WITH DIVE 409783 IS AN ACCEPTABLE ALTRIBUMING. 3. ALL JAMB FASTDIEDS JAW SEE (BUT NOT RETURNED) COUNTERSOOK TO PROVIDE A PLUSA MOUNTRIC SUFFACE. WOOD FINANT (SPF)

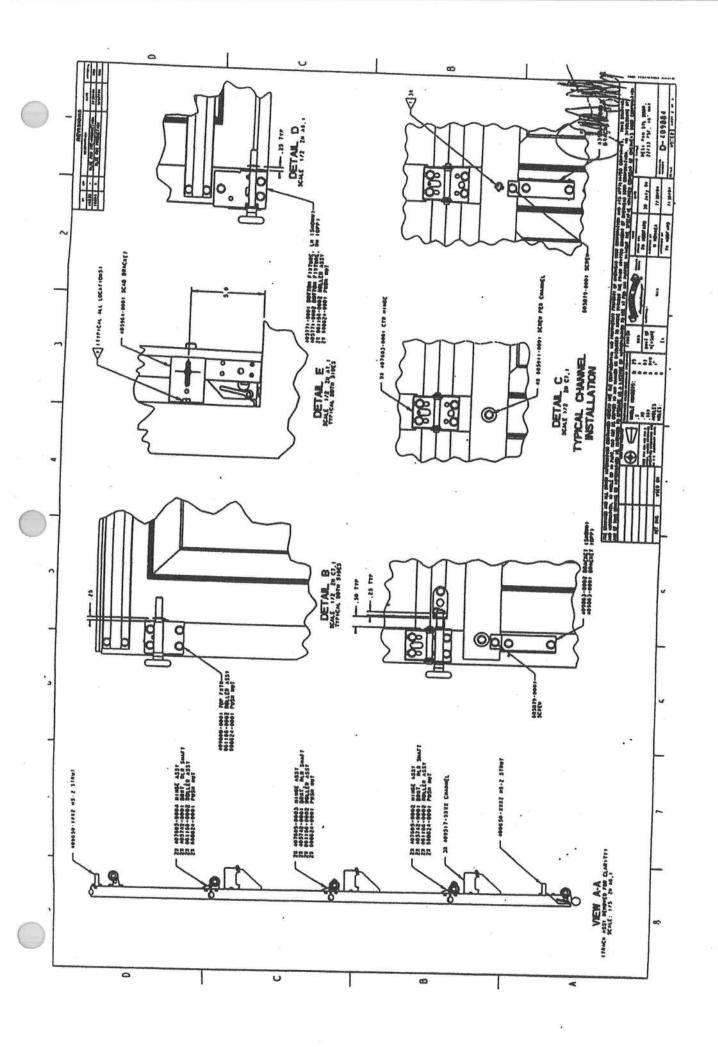
C-60 BLOCK (2.560 PS GROUS) 1/4" + " INSTINCTON CONCRETE ANCHOR, 1-3/4" MIN, EMBED."

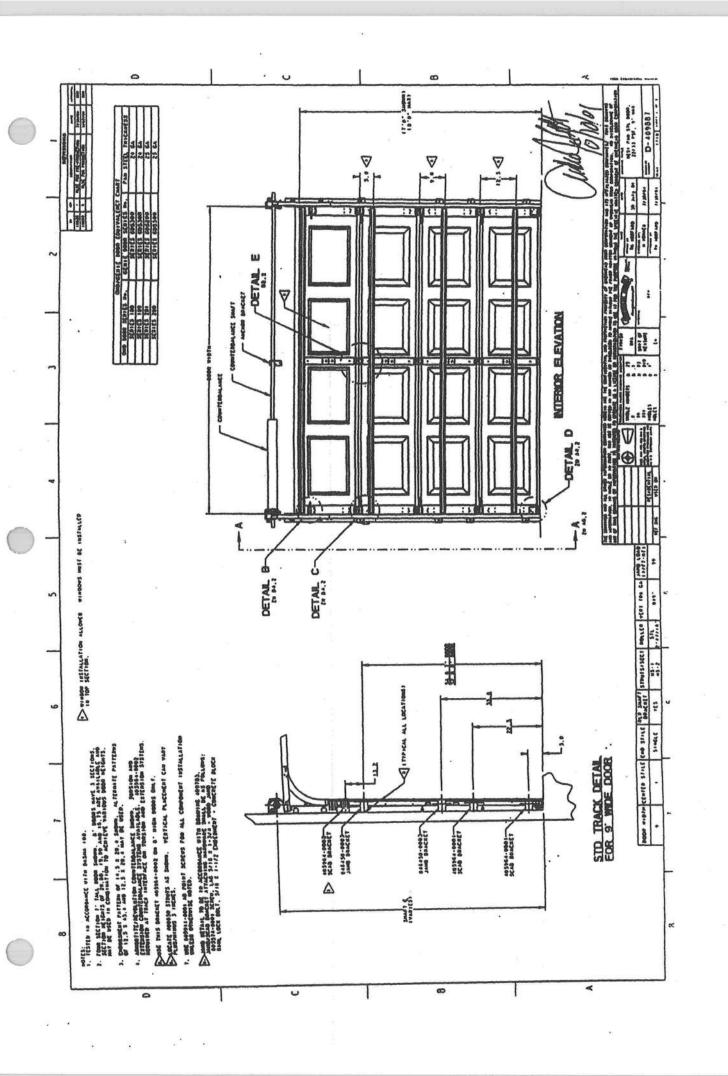
C-60 BLOCK (2.560 PS GROUS) 1/4" + " INSTINCTON CONCRETE ANCHOR, 1-3/4" MIN, EMBED."

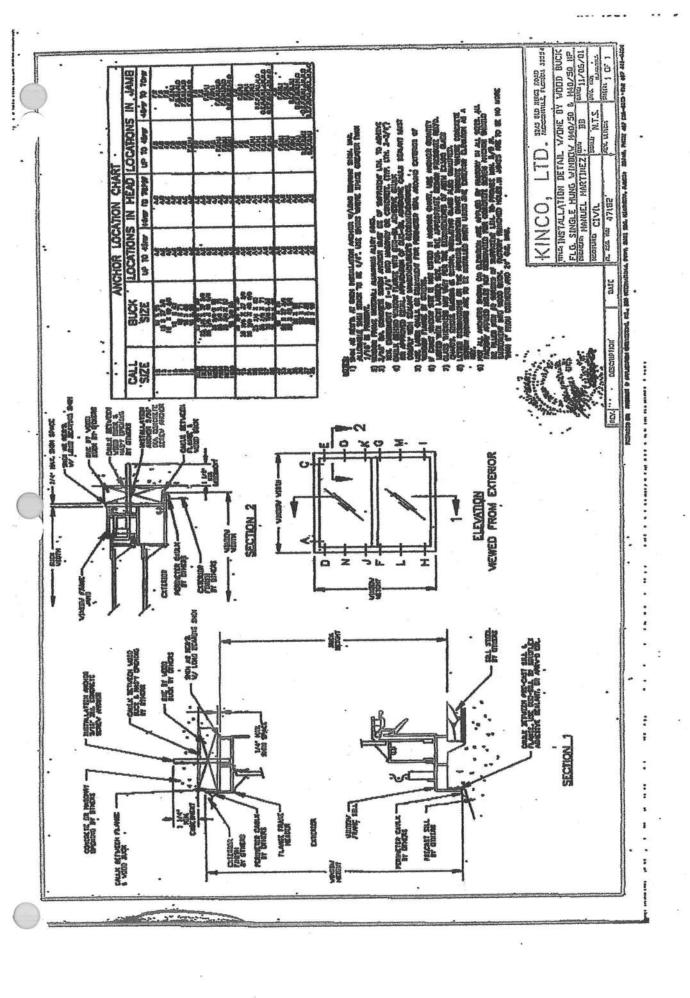
C-60 BLOCK (2.560 PS GROUS) 1/4" x 4" INSTINCTON ANCHOR BOLL, 1-3/6" MIN, EMBED."

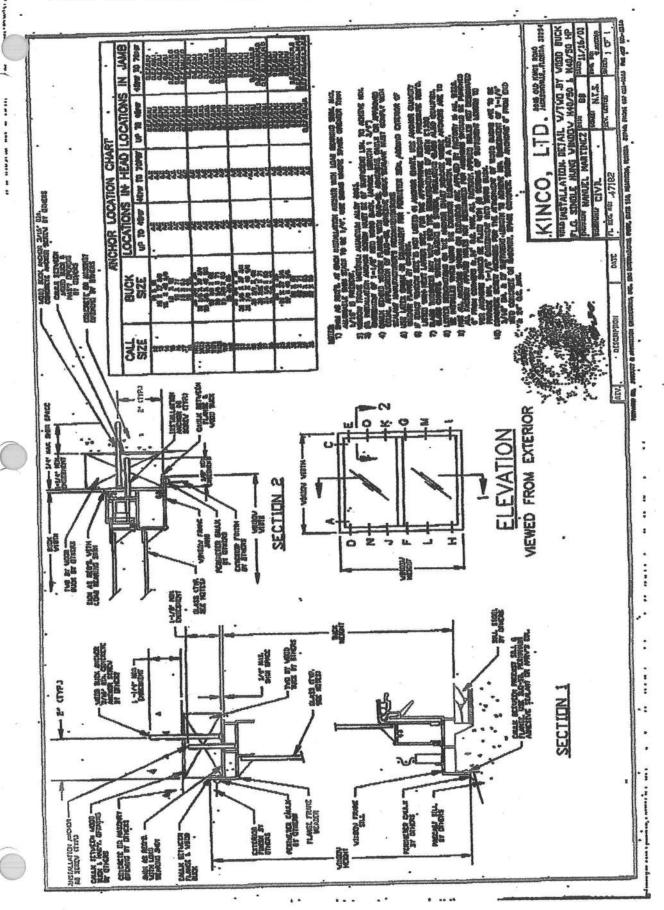
CONCRETE COLLAN (2.500 PS). 3/6" x 4" INSTINCTON ANCHOR BOLL, 1-3/6" MIN, EMBED." SUPPORTING STRUCTURE ATTACHMENT 214 LEM, WOOD JAME SMAL RE ANCHONED TO CROUF RESINCACED BLOCK WAL OR CONCRETE COLUMN.
BLOCK WALL CELS SMAL BE FALED WITH CONCRETE AND REURISHED WITH JE BAY EXTENDED.
SOFTON DAY INCOMES AND WITH BE BOAKE, STREAGH BE ASSEMBLED TO BE 2200 PSY, ALL BAYS SHALL RE
CONTRIGUES FROM THE BOAKE TO FROM THE BLOCK WALL OR CONCRETE COLLINEA. BLOCK WALLS AND
STREE SECTION 2704.2. Ę 1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK WED THEN THOW THE TRACK TO THE YESTICAL JAMES (SPF SILD GRADE OR BETTER). NO LOAD FROM THE DOOR IS TRANSFERRED TO THE YORKLOND, (TOP) JAMES WITH STANDARD WINGLOAD SYSTEM, WHY YORICAL WHOLLAND POST, PART OF THE FORCE IS TRANSFERRED TO THE MORACEDOR HEADER. al a FASTDIEN TIPE WALL OR CONCRETE FRAME BUILDINGS JAMB BUALDUS 17PE BLOCK WOOD Norgs





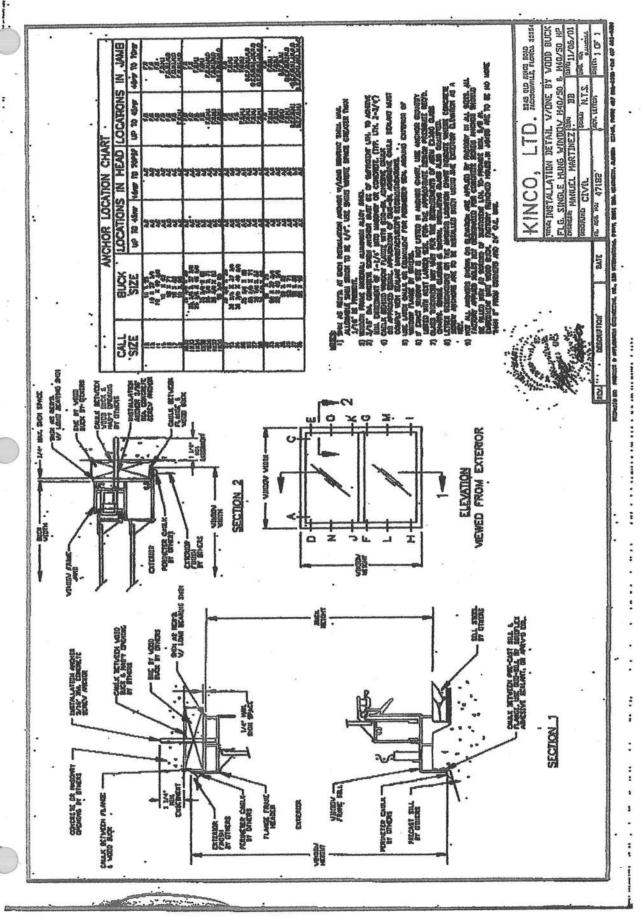






HEALEIGHE BESCHTLLION LEBY-BBY (104) SEM EVELENER SCHEDULE INSTALLATION DETAIL AND CHE BU WER NOKYNDEX SUB 123138 SUB 123138 SO/11/8 LIV-42 VACHOR CIIL OMON STANDS NOMBOTO NOTTON STANDS HORIZONTAL MULLION SH HEAD DW SILL -#10 x 3/4" TYPE OF FASTENERS 平,水 (XFLA-26-1) 1x3 MULLION (XFLA-39) 1x4 MULLION SCHEDULE 1-15/16" SEE CHART FOR FASTENERS. 4 SHOWN FLA-45 MULTION TYPE OF B APACITY TYPE OF MULLION DESIGN PRESSURE HORIZONTAL PSI PSI 38 16 GA. SHEET MULTION FASTENERS
4 SHOWN MULLION (XFLA-26-1) MULLION (XFLA-39) SINGIE MINDOW WIDTH INCH 63-1/8 1-15/18 37 KR SIVE STRENGTH = 3,000 PSI altherth extrusions are alloy 6069 068. Tr. #10 x 3/4"-TEK SCREW PAGE 30 SILL SH HEAD DA A SE

NORANDEX



BEG- NO! 180-958 NRAISIONS DESCENALION EVELENER SCHEDULE 14 /48 280 174 148 248 174 1/68 INSTALLATION DETAIL AND NOBVIDEX LEV-42 VACHOR CLIP Verticeal mullion ONOR STONIS MONIMOTO NUMBER AND TYPE OF FASTENERS alimental extrusions are alloy 6063 T6, 0083 T5. 3,000 PSI 4) 3/168 x x (4) 3/168 x x x (4) 3/168 x x (4) 3/168 x x x (SCHEDULE TYPE OF MULLION TYPE OF CLIP DESIGN PRESSURE FLA-45 MULTION PLACED ON CONCRETE C AT 28 DAYS. 18 VERTICAL 다 보 보 보 보 하다하다하다 36 PSF 38-11/4 50-5/8 78-83/4 HEIGHT 19-1/8 TINDOW MOTH 53-1/8 28-1/2 37 MULLION ANCHOR CLIP 16 GA. GALV. SHEET METAL 800 LB. MAX CAPACITY 1x3 MULLION (XFLA-28-1) -1x4 MULLION (XFLA-39) -SEE CHART FOR FASTENERS SEE CHART FOR MINDOW 3/8"MIN -3/4"MAX - WINDOW HEAD FASTENERS -3/8"MIN. 1-1/8" 1x3 MULLION (XFLA-26-1) 1x4 MULLION (XFLA-39) 7/8" -7/8" Δ Δ Δ Δ 大"8/3 CAULK BOTTOM-OF MULL CAULK TOP -OF MULL #10 X 3/4" TEK SCREW -PAGE 29 PRECASTED-SILL #10 x 3/4" MANDOW WINDOW.

NORANDEX



Jax Apex Technology, Inc. 4745 Sutton Park Court, Suite 402 Jacksonville, FL 32224

All products listed in this report are currently approved for state use under the provisions of Florida Product Approval Rule 9B-72 and/or 61G15-36. Reference product approval number FL1901. All substantiating data submitted for the original application has been reviewed for compliance with the 2004 Florida Building and Residential Codes.

Evaluation reports are the opinion of the engineer who prepared the report, based on the findings, and in no way constitute or imply approval by a local building authority. The engineer, in review of the data submitted, finds that, in his opinion, the product, material, system, or method of construction specifically identified in this report conforms with or is a suitable alternate to that specified in the Florida Building Code, SUBJECT TO THE LIMITATIONS IN THIS REPORT

Jeffrey P. Ameson, P.E., a licensed Florida professional engineer and employee of Jax Apex Technology, Inc. (Apex Technology) has reviewed the data submitted for compliance with the Florida Building Code. Neither Jeffrey P. Arneson, nor Apex Technology, are responsible for any errors or omissions to any documents, calculations, drawings, specifications, tests, or summaries prepared and submitted by the design professional or preparer of record who are listed in the Substantiating Data section of this report.

REPORT NO: SIM200401-R2

EXPIRES: October 1st, 2008

CATEGORY: Metal Connectors

SUBMITTED BY:

SIMPSON STRONG-TIE COMPANY, INC. 4120 DUBLIN BLVD., SUITE 400 DUBLIN, CA 94588

1. PRODUCT NAME

Strap Ties

LSTA9, LSTA12, LSTA15, LSTA18, LSTA21, LSTA24, LSTA30, LSTA36, MSTA9, MSTA12, MSTA15, MSTA18, MSTA21, MSTA24, MSTA30, MSTA36, MSTC28, MSTC40, MSTC52, MSTC66, MSTC78, MST27, MST37, MST48, MST60, MST72, LSTI49, LSTI73, MSTI26, MSTI36, MSTI48, MSTI60, MSTI72, RPS18, RPS22, RPS28, ST2115, ST292, ST2122, ST2215, ST6215, ST6224, ST6236, ST9, ST12, ST18, ST22, FHA6, FHA9, FHA12, FHA18, FHA24, FHA30.

Coiled Strap Ties

CMST12, CMST14, CMSTC16, CS16, CS18, CS20, CS22

Wood to Masonry Strap Ties MSTAM24, MSTAM36, MSTCM40

Pre-bent Strap Ties MSTC48B3, MSTC66B3

Heavy Straps HRS6, HRS8, HRS12

ROOFING INFORMATION



Amalication Instructions for

Phillipsburg, KS

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILD-ING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

I. 200F BEE

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Stope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Phywood Association. Phywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-andgroove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

TAMKO does not recommend re-roofing over existing roof.

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

- 1. Vapor Condensation
- 2. Buckling of chingles due to deck movement.
- 3. Rotting of wood members.
- 4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents. FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

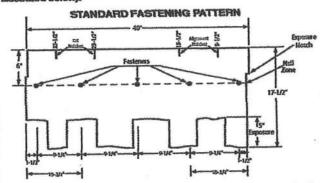
IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VEN-TILATION.

WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur.
This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).



2) Wansard or Steep Slope Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles. (Continued)

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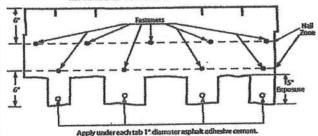


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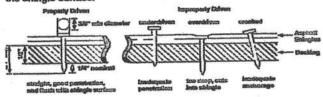
• Phillipsburg, KS

Each shingle tab must be sealed underneath with quick setting asphalt adhesive coment immediately upon installation. Spots of cement must be equivalent in size to a \$.25 piece and applied to shingles with a 5 in. exposure, use 9 fasteners per shingle.

MANSARD FASTENING PATTERN



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12 gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in. Inick, the nails should be long enough to penetrate completely through phywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



4. ONDERLAYEET

LINDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles and leaks which are not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the caves tapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by molsture and weathering. Laying of the underlayment and the shingle application must be done together.

Products which are acceptable for use as underlayment are:

- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment,
 TW Underlayment and Moisture Guard Plus[®] (additional ventilation maybe required. Contact TAMKO's technical services department for more information)

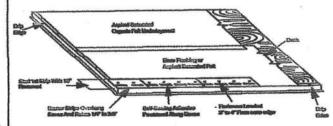
In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, raices, ridges, valleys, around chimneys, skylights or domners to help prevent water damage. Contact TAMKO's Technical Services Department for more information.

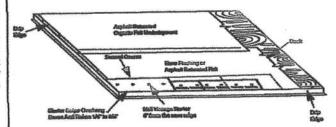
TAMKO does not recommend the use of any substitute products as shingle underlayment.

B. APPLICATION INSTRUCTIONS

STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage ARI Shingles.

The first starter course may consist of TAMKO Shingle Starter, three tab self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If three tab self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. If using three tab self-sealing shingles or shingle starter, remove 18 in. from first shingle to offset the end joints of the Vintage Starter. Attach the first starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eave edge. The starter course should overhang both the eave and rake edge 1/4 in. to 3/8 in. Over the first starter course, install Heritage Vintage Starter AR and begin at the left rake edge with a full size shingle and continue across the roof nailing the Heritage Vintage Starter AR along a line parallel to and 6 in. from the eave edge.





Note: Do not allow Vintage Starter AR joints to be visible between shingle tabe. Cutting of the starter may be required.

HERITAGE VINTAGE STARTER AR 12 1/2" x 36" 20 PIECES PER BUNDLE 60 LINEAL FT. PER BUNDLE

(Continued)

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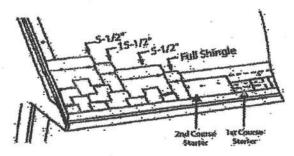
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(CONTINUED from Pg. 2)

Phillipsburg, KS

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge 1/4 in. to 3/8 in.. To begin the second course, align the right side of the stringle with the 5-1/2 in. alignment notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is 1/4" to 3/8". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pleces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



s. Lon Slope application

On pitches 2 in, per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of a least 24 in. Inside the interior wall line of the building. As an alternative, TAMKO's Molsture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the comented feits.

7. VELLEY EPPLICATION

TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

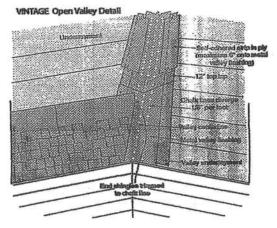
Following valley metal application; a 9° to 12° wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6° onto metal valley flashing) and on top of the valley underlayment. The valley will be completed with shingle application.

SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)

- Snep two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley centerline.
- The lower end should diverge from each other by 1/8" per foot.
 Thus, for an 8' long valley, the chalk fines should be 7" either side of the centerline at the eaves and for a 16" valley 8".

As shingles are applied toward the valley, trim the last shingle in each course to fit on the chalk line. Never use a shingle trimmed to less than 12" in length to finish a course running into a valley. If necessary, trim the adjacent shingle in the course to allow a longer portion to be used.

- Clip 1" from the upper corner of each shingle on a 45" angle to direct water into the valley and prevent it from penetrating between the courses.
- Form a tight seal by comenting the shingle to the valley lining with a 3" width of asphalt plastic coment (conforming to ASTM D 4586).



- CAUTION:

Adhesive must be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

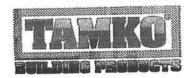
TAMKO assumes no responsibility for blistering.

(Continued)

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05/06

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(CONTINUED from Pg. 3)

• PRITAGE VINTAGEM AR - Phillipsburg, KS

9. HIP AND REDGE PASTERIES DETAIL.

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one tastener on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

Fasteners should be 1/4 in. longer than the ones used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUP WHILE BENDING SHINGLE IN COLD WEATHER.

Direction of provailing wind



THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAWKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

TAMKO®, Moisture Guard Plus®, Nail Fast® and Heritage® are registered trademarks and Vintage™ is a trademark of TANKO Building Products, Inc.

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4

INTERIOR WALL INSULATION INFORMATION



R-Matte® Plus-3

Sheathing Insulation

***** * ********

07212/RMRP

W

MANUFACTURER

Rmax, Inc.

13524 Weich Road; Dallas, Texas 75244-5291

Phone - 972-387-4500 800-845-4455 (Eastern) 800-827-0890 (Central) 800-762-9462 (Wastern)

Email: max@maxdnc.com

Web Site: http://www.rmedna.com

PRODUCT DESCRIPTION

R-Matte® Plus-3 is a rigid form plastic thermal insulation board composed of polylsocyanurate form bonded to a durable white-matte non-giare aluminum facer and a reflective reinforced aluminum facer.

R-Matte® Plus-3 utilizes a new and environmentally friendly blowing agent. This sheathing insulation is suitable for use in wall applications in new residential, commercial, agricultural and industrial buildings and in thermal retrofit construction within existing buildings.

R-Matter Plus-3 is available in standard four (4) foot wide panels. Standard panel lengths are eight (8) and nine (9) feet. Custom length panels are available for special orders. See "Thermal Properties" for standard thicknesses and thermal resistance values of R-Matter Plus-3.

R-Matte® Plus-3 is shipped in bundles that are approximately 48 inches high and wrapped in plastic for easy handling.

NOTE: All Rmax products must be tarped, placed on skids, and kept dry before and throughout construction.

Technical Data

Property	Yest Method	Results
Density, Overall, Nominal	ASTM 01/622	2.0 pel
Compressive Strength	ASTM DIEZI	30 pel (Avg.)
Plante Spread, Core	ASTM ES4	35 or less
Smoke Developed	VALLE EST	40-110
Weter Vapor Transmission	ASTM ESS	< 1 perm
Weter Absorption	ASTM (200	1 4 1% Vol.
Dimensional Stability	ASTM (22126 7 deys, 158°F, 88% rh	Change Linear Change
Service Temperatures		-40°F to +260°F

Note: Physical Properties shown are based on date obtained under controlled conditions and are subject to normal manufacturing tolerances. Flame apress numbers are shown for comparison purposes only and are not intended to represent the performance of R-Matte® Plus-3 and related components under actual literaconditions.

APPLICABLE STANDARDS
R-Mattee Plus-3 is manufactured to meet the physical property requirements of Product Specification ASTM C1289, Type I.

R-Mutte® Plus-3 is excepted as a nonstructural insulative sheething board by the following major model building codes: National Building Code (BOCA), Section 2603; Standard Building Code (SBCCI), Section 2603; Uniform Building Code (ICBO), Section 2602.

APPLICATION / INSTALLATION

Applications - This product is designed to be covered with siding materials of wood, wood-based products, hardboard, aluminum, vinyt, brick or stucco veneurs. The white-mutte finished (non-glare) side of this sheething panel is installed facing to the cutakte of the well structure when the exterior siding will be either wood, wood-based products, hardboard, aluminum or vinyt sidings. The reflective aluminum side of the sheething panel is installed to the cutakte of the well when the exterior finish will be either brick or stucco.

Stud Wall Construction - R-Matte® Plus-3 is applied to the exterior face of wood or metal studs to cover all studs, sills, plates and header constructions in order to provide insulation over details not normally covered by insulation products. R-Matte® Plus-3 may be secured to the stude with bugle-head screws, galvanized rooting rulls, or common nails driver through cap washers. The interior of the stud wall system should be protected with a suitable vapor refarder.

R-Maris® Plus-3 may be applied to the interior face of studs, metal or wood, to cover the interior face of these framing members. R-Matis® Plus-3 may be secured with bugie-head screws, gaivanted roofing nails, or construction adheaves: The interior of the stud wall system should be protected with a suitable vapor retarder and thermal barrier.

Cavity Wall Construction - R-Matte® Plus-3 is secured to the dry face of the masonry block wall with a high grade adhesive. R-Matte®-Plus-3 can be cut by simple methods to fit between mesonry joint reinforcements placed to tie the brick veneer to the concesse block back-up. R-Matte® Plus-3 is an excellent cavity insulation product fitting between the masonry block and finished brick veneer of any residential or commercial product.

.... ...

Miseotry Wall Construction - R-Matte® Plus-3 is applied to either the exterior face or Interior face of concrete or concrete mesonry wells to provide an insulation layer over the entire sortace. R-Matte® Plus-3 may be secured to the Inside face of a concrete or concrete mesonry well, either over or under the furing members, and covered with a minimum 1/2 inch gypsum wellboard interior finish. Adhesives may be used to hold the R-Matte® Plus-3 in place against the well temporarily. However, permanent attachment of the R-Matte® Plus-3, furing, or gypsum wellboard with adhesives is not acceptable. The gypsum wellboard must be secured with suitable screws or nalls.

Re-Siding Construction - R-Matte® Plus-3 is applied over existing sound and solid siding. It is then covered with a suitable new siding of aluminum, vinyl, wood or wood fiber based products. The R-Matte® Plus-3 is secured with galvanized nails of sufficient length to penetrate the old sidings and speethings below by at least one inch into the existing wall stude.

Exterior Stucco Construction - R-Mattel Plus-3 may be used as the insulative sheating under hard cost stucco finishes. First, cover the R-Mattel Plus-3 with a suitable separation layer such as an organic or inorganic felt. Then, attach conventional metal wire lath and expansion joints with appropriate feateners as dictated by the local building code. R-Mattel Plus-3 may be secured to the stude with bugie-head acrews, galvanized roofing naile, or common-nails driven through cap washers. The interior of the stud wall system should be protected with a suitable vapor retarder. Rmsx does not recommend the direct attachment of stucco, portland coment or polymer-modified types, directly to the fecer of the insulation product. Consult stucco manufacturers for details.

WARRANTY

See "Sales Polloy" for warranty conditions. Rmax does not assume any responsibility or liability for the performance of any products other than those manufactured by Rmax.

AVAILABILITY

Rmstte® Ptus-3 is available through an extensive distribution network. Contact Rmsx Sales for product availability, pricing information, and the nearest distribution center.

WARNING

DO NOT leave R-Matte® Ptus-3 exposed. Polyleocyanurate foam is an organic material which will burn when exposed to an ignition source of sufficient heat and intensity, and may contribute to fismes epreading, installations utilizing Rmsx R-Matte® Ptus-3 must be fully protected on the interior side of we is and roofs by a minimum of 1/2 inch gypeum board or equivalent. Masonry or concrete that is a minimum of one-inch thick or phywood that is a minimum of 1/2 inch thick or wood that is a minimum of one-inch morninal thickness is recognized as a suitable thermal barrier. Consult the Local Building Official for specific governing codes and requirements.

LIMITATIONS

R-Meita® Plus3 is not recommended, nor warrented, for use as a commercial roofing insulation for use directly under membrane systems. See R/mex, inc. for suitable commercial roofing insulation products.

R-Matte® Plus-3 is not a structural panel. Stud walls insulated with R-Matte® Plus-3 must be properly braced to interal loads according to the requirements of the local building codes.

Nominal Thickness	Thermal ¹ R-Value	- 10 TO	edio Datu " x 99"	Truckload Data (48" x 96")		
		Pleas	Sci. Ft.	Pleces	8q. Pt	
0.5° 0.82 <i>5</i> ° 0.75° 1.0°	3.2 4.0 5.0 6.4 e determined by using	96 76 60 48	3,072 2,432 1,920 1,836	2,304 1,824 1,440	73,728 58,368 46,080	

Embedded Truss Anchors

META12, META14, META16, META18, META20, META22, META24, META40, HETA12, HETA16, HETA20, HETA24, HETA40, HETAL12, HETAL16, HETAL20, HHETA12, HHETA16, HHETA20, HHETA24, HHETA40

2. SCOPE OF EVALUATION

Load Evaluation as a Structural Component using the requirements of the Florida Building and Residential Codes

- 3.11 MSTCB3 Pre-bent Strap Tie. The MSTC48B3 and MSTC66B3 Pre-bent Strap Ties are designed to transfer a heavy tension load from framing on an upper story wall to a beam or header on the story below. For example, this could be from shearwall overturning or a large girder truss uplift load. They are installed with 10d common nails, with a minimum of four nails in the bottom of the beam or header. Allowable loads are shown in Table 8. The straps are manufactured from 14 ga. steel meeting ASTM A-653 SS Grade 50, Class 1. They are coated with a G90 galvanized finish.
- 3.12 META, HETAL, HHETA Embedded Truss Anchors. Embedded Truss Anchors are used to anchor a wood member (usually a truss) to a masonry or concrete wall. Embedded truss anchors fasten to a single-ply wood truss with 10d×1½ nails or to a multiple-ply truss with 16d common nails. They are embedded in the masonry or concrete wall to a depth indicated on the side of the anchor (4" for META, HETA, and HETAL, and 5½,6" for HETAL). The strap portion of the anchor is 1½" wide. Allowable loads are shown in Table 9 for single installations and Table 10 for double installations. The anchors are manufactured from steel meeting ASTM A-653 SS Grade 50, Class 1, with the exception of the truss seat of the HETAL which is manufactured from steel meeting ASTM A-653 SS Grade 33. Steel thickness is as specified in Table 9. The Embedded Truss Anchors are coated with a G90 galvanized finish.

4. MATERIALS

- 4.1 Steel. Steel specifications for each product listed in this evaluation report shall be as indicated in the previous section. In addition to the standard G90 finish, some products are available with a G185 finish, indicated as Z-Max. Allowable loads published in this report will apply to G185 products as well as G90 products.
- 4.2 Wood. Wood members to which these connectors are fastened shall be solid sawn lumber, glued-laminated lumber, or structural composite lumber having dimensions consistent with the connector dimensions shown in Tables1 through 4. Unless otherwise noted, lumber shall be Southern Pine or Douglas Fir-Larch having a minimum specific gravity of 0.50. Where indicated by SPF, lumber shall be Spruce-Pine-Fir having a minimum specific gravity of 0.42.
- 4.3 Nails and Bolts. Unless noted otherwise, nails shall be common nails. Nails shall comply with ASTM F 1667 and shall have the minimum bending yield strengths F_{yb}:

Nail Pennyweight	Nail Shank Diameter (inch)	F _{yb} (psi)
10d Common	0.148	90,000
16d Sinker	0.148	90,000
16d Common	0.162	90,000

Fasteners for galvanized connectors in pressure-preservative treated wood shall be hot-dipped zinc coated galvanized steel, except where otherwise permitted by the treatment manufacturer. Fasteners for stainless steel connectors shall be stainless steel.

4.4 Concrete/Masonry. Concrete and Masonry design specifications shall be the stricter of the specifications by the engineer of record, the Florida Building Code minimum standards, or the following:

Material	Specification	Minimum Compressive Strength
Concrete, fc	_	2500 psi
Masonry, fm	ASTM E447	1500 psi
Masonry Unit	ASTM C90	1900 psi
Mortar	ASTM C270 Type S	1800 psi (or by proportions)
Grout	ASTM C476	2000 psi (or by proportions)

5. INSTALLATION

Installation shall be in accordance with this report and the most recent edition of the Simpson Strong-Tie Wood Construction Connectors catalog. Information in this report supersedes any conflicting information between information provided in this report and the catalogue, the information in this report supersedes the catalogue.

6. SUBSTANTIATING DATA

Test data submitted by Testing Engineers Inc. and Product Testing, Inc., and signed and sealed calculations performed by Jeremy Gilstrap, P.E. in accordance with the 2004 Florida Building and Residential Codes.

7. FINDINGS

Upon review of the data submitted by Simpson Strong-Tie, it is my opinion that the connectors as described in this report conform with or are a suitable alternative to the standards and sections in the 2004 Florida Building and Residential Code editions listed in section 10 of this report. Connectors shall be installed in accordance with this report. Maximum allowable loads shall not exceed the allowable loads listed in this report.

8. LIMITATIONS

- Maximum allowable loads shall not exceed the allowable loads listed in this report.
 Allowable loads listed in this report are based on allowable stress design. The loads in this report are not applicable to Load and Resistance Factor Design.
- Capacity of wood members is not covered by this report. Capacity of wood members must be checked by the building designer.
- Allowable loads for more than one direction for a single connection cannot be added together. A design load which can be divided into components in the directions given must be evaluated as follows:

(Design Uplift/Allowable Uplift) + (Design Lateral Parallel to Plate/Allowable Lateral Parallel to Plate) + (Design Lateral Perp. to Plate/Allowable Lateral Perp. to Plate) < 1.0

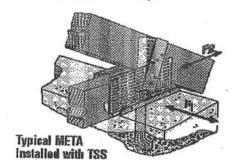
9. ALLOWABLE LOADS

The tables that follow provide the allowable loads for the aforementioned products.

-	-	top of the same		TAE	BLE 9 ALLC	WABL	ELOADS					
							and Uplift				Later	al Loads
Model No.	Ga	H	18	Load Du	ation Increase		133	Load Dure	tion Increase		133/160	
modul no.		"	1 Ply So. Pi	ne Truss	2 or 3 So. Pine		1 Ply So. Pi	1 Ply So. Pine Truss		Ply Truss	F ₁	F ₂
		_	Fasteners	Load	Fasteners	Load	Fasteners	Load	Fasteners	Load	(parallel to wall)	(perpen
META12		8	7-10d×134	1450	6-16d	1450	7-10d×1%	1240	7-16d	1450	280	725
META14		10	7-10d×1%	1450	6-16d	1450	9-10d×1%	1450	7-16d	1450	280	725
META16	1	12	7-10d×11/2	1450	6-16d	1450	9-10d×11/2	1450	7-16d	1450	280	725
META18		14	7-10d×11/4	1450	6-16d	1450	9-10d×1%	1450	7-16d	1450	280	725
META20	18	16	6-10d×1%	1270	5-16d	1245	8-10d×1%	1415	6-16d	1250	280	725
			7-10d×1%	1450	8-160	1450	9-10d×1%	1450	7-18d	1450	280	725
META22		18	7-10d×1%	1450	6-16d	1450	9-10d×1%	1450	7-16d	1450	280	725
META24		20	7-10d×1%	1450	6-16d	1450	9-10d×1%	1450	7-16d	1450	280	725
META40		36	7-10d×1%	1450	6-16d	1450	9-10d×1%	1450	7-16d	1450	280	725
HETA12		8	7-10d×1%	1520	7-16d	1780	7-10d×1%	1265	7-16d	1475	280	725
HETA16		12	9-10d×11/4	1810	8-16d	1810	10-10d×1%	1810	9-16d		280	725
HETA20	16	16	8-10d×11/4	1735	7-16d	1780	9-10d×1%	1630	8-16d	1810	280	725
			9-10d×1%	1810	8-16d	1810	10-10d×1%	1810	9-16d	1690	280	725
HETA24	-	20	9-10d×11/4	1810	8-16d	1810	10-10d×1%	1810	9-16d	1810	280	725
HETA40		36	9-10d×11/4	1810	8-16d	1810	10-10d×1%	1810		1810	280	725
HHETA12		8	7-10d×1%	1565	7-16d	1820	7-10d×1%	THE RESERVE TO SERVE THE PERSON NAMED IN	9-16d	1810	-	- Attendance of
HHETA16		12	10-10d×1%	2235	9-16d	2235	12-10d×1%	1305	7-16d	1520	435	815
HHETA20	14	16	9-10d×1%	2010	8-16d	2080	11-10d×1%	2235	11-16d	2235	435	815
WILLIAZU	"	10	10-10d×1%	2235	9-16d	2235	12-10d×1%		10-16d	2170	435	815
HHETA24		20	10-10d×11/4	2235	9-16d	2235	12-10d×1½	2235	11-16d	2235	435	815
HHETA40	ſ	36	10-10d×1%	2235	9-16d	2235	12-10d×1½	2235	11-16d	2235	435 435	815
HETAL12		7	10-10d×1%	1085	10-16d	1270	which the Real Property lives with the Publishers of the Publisher	The state of the s	11-16d	2235	DOVERNMENT	815
HETAL16	16	11	14-10d×1%	1810	13-160	1810	10-10d×1%	905	10-16d	1055	415	1100
HETAL20	T	15	14-10d×1%	1810	13-16d	1810	15-10d×1½	1810	14-16d	1810	415	1100

Notes

- Loads do not include a stress increase on the strength of the steel. No further increases are permitted. Reduce loads where other loads govern.
- Five nails must be installed into the truss seat of the HETAL
- Parallel-to-plate load towards face of HETAL is 1975 lbs.
- Except for HETAL straps, lateral loads are based on a minimum installation of 12 nails and the strap wrapped over the heel
- 5. Minimum fc is 2,000psi
- 6. It is acceptable to use a reduced number of fasteners in a product provided that there is a reduction in load capacity. The load per nail can be approximated by dividing the allowable load by the number of fasteners. This concept applies to all member sizes. There should be a minimum of 4 nails installed in the strap.



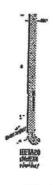
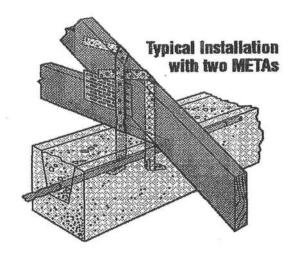


	TABLE 1	0 ALLO	WABLE LOA	DS FOR	DOUBLE EM	BEDDE	D TRUSS AN	CHORS		
	De	ouble En	nbedded And	hor Instal	lation Into Gro	uted CN	IU Bond Bean	n		
	Uplift - 16	0 Load	Duration Incre	ease	Uplift - 13	3 Load	Duration Incre	ease	Lateral Loads 133/160	
Madel No	1 Ply Sout	hem	2 or 3 Ply S	outhern	1 Ply Sout	hern	2 or 3 Ply S	outhern		
Model No.	Pine Tru	SS	Pine Tr	uss	Pine Tru	SS	Pine Truss		F ₁	F ₂ (perpent to
	Fasteners	Load	Fasteners	Load	Fasteners	Load	Fasteners	Load	wall)	(helbar to
META	10-10d×11/2	1985	14-16d	1900	12-10d×11/2	1985	14-16d	1900	1210	1160
HETA	10-10d×11/2	2035	12-16d	2500	12-10d×11/2	2035	14-16d	2500	1225	1520
HHETA	10-10d×11/2	2035	12-16d	2500	12-10d×11/2	2035	14-16d	2500	1225	1520

Notes:

- Minimum fc is 2,500psi.
- 2. Install with spoons facing outward and spaced no more than 1/8" wider than the truss width.
- Install half of the required number of fasteners in each strap.
- For uplift loads for poured concrete tie beam applications with 2 or 3 ply trusses, increase the META load by 35%, the HETA load by 8%, and the HHETA load by 34%. Listed lateral loads apply to concrete applications
- 5. Lateral loads apply only to anchors spaced a minimum of 3" apart.



10. CODE REFERENCES:

Florida Building Code 2004 Edition

Section 104.11 Alternate Materials and Methods Chapter 1714.2 Load Test Procedure Specified

Chapter 21 Masonry Chapter 22 Steel Chapter 23 Wood

Florida Residential Code 2004 Edition

R101.2.1 Scope

R4407 HVHZ Masonry R4408 HVHZ Steel R4409 HVHZ Wood

11. IDENTIFICATION:

Each connector covered by this report shall be stamped with the manufacturer's name and/or trademark and the product name.

12. PERIOD OF ISSUANCE:

The content of this report expires on October 1st, 2008. For information on this report, contact Apex Technology. (904) 821-5200

13. CERTIFICATION OF INDEPENDENCE:

Jeffrey P. Ameson, the Florida engineer who prepared this report, and Apex Technology have no financial interest in the manufacturing, sales, or distribution of the products included in this report. Jeffrey P. Arneson and Apex Technology comply with all criteria as stated in Florida Administrative Code Chapter 9B-72.110.

Jax And Jesh ology, Inc. Jensey P. Ameron, P.E. P.E. No. 58544
August 5, 2005

Page 15 of 15

Me.

TSS2 TSS2-2

TSS4

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Catalog C-2004 © Copyright 2003 BIANPOON STRONG-THE CO.,

The TSS, a companion product of the META, provides a moisture barrier between the concrete and truss. The preassambled unit is rivated with no height adjustment. MATERIAL: HHETA-14 gauge; HETA-16 ga; HETAL strup 16 gauge, truss seat 18 gauge; META-18 gauge; TSS-22 gauge. FINISH: Galvantzed. Some products available in Z-MAX; see Corrosion Resistance, page 5.

INSTALLATION: • Use all specified fasteners. See General Notes.

- The META, HETA and HHETA are embedded 4" into a concrete beam or grouted block wall; HETAL is embedded 51/4".
- Do not drive nails through the trues plate on the opposite side of the trues, which could force the plate off the trues.
- The TSS moisture berrier may be preattached to the truss using 6d commons. CODES: See page 10 for Code Listing Key Chart.

		-	-116-
META with TSS	H	HETAL.	
· 图			

		Contract of the Contract of th		3.40 km 1998	Fosteners	and Uplift	100	. "			Latera	Loads	6, i.e. 9;	: : : : :
Model		133	Load Du	ration increase	NEW TERM	160	Load Ou	ration incress		17.3	(122)	t 160)		Code
No.		1 Ply So. Pine	Truss	2 or 3 Ply Su:		1. Ply Su. Pin	Trible	100		100	7.70	SPI	操	Rot.
	1	Fasteners	GARAGE STATES	Fasteners:	Luad			Feetonom			10	Fa	Fz · .	
META12	8	7-10dx13/2	1240	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	635	270	545	
META14	10	9-10dx13/2	1450	7-16d	1450	7-10dx11½	1450	6-16d	1450	335	635	270	545	
META16	12	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	695	270	545	
META18	14	9-10dx11/4	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	695	270	546	
1007100 v		8-10dx11/2	1415	6-16d	1250	6-10dx11/2	1270	5-16d	1245	335	635	270	545	160
META20 ×	16	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	336	635	270	545	100
META227	18	9-10dx11/2	1450	7-18d	1450	7-10dx11/4	1450	6-16d	1450	335	635	270	545	
META24	20	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	635	270	545	I
META40	36	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	_	_	-	_	
HETA12	10	7-10dx1%	1265	7-16d	1475	7-10dx136	1520	7-16d	1780	3395	730	270	625	
HETA16	12	10-10dx1%	1810	9 160	1810	9-10dx1/4	1810	B-16d	1810	335	730	270	625	
- decay and	C-757	9-100x1V	1630		1690	8-10ex135	1735	17-18d	1780	200	790	270	625	8,62
HETA20	-18	10 100 00	1010	0.184	1810	9-10dx134		R-18d	1810	SOR	780	200	625	l
HETA24	- Odn	The state of the s	1810	9-16d	ign	388510ibetski	12. Ar. 14. 1 A. 101	0.0	C lette	23.56	7.0	270	625	
	200	210-1006132	1010		1810	100 S 11 11 11	and the second second		35 1 (1) 56		I IDMES About traditions	1,000,000		170
HETA12	8	Indiated September of the Assessment	1305	7-16d	1520	7-10dx11/4	1565	7-16d	1820	335	730	270	625	
HHETA16	12	12-10dc116	2235	11-16d	2235	10-10dx11/2	2235	9-16ď	2235	235	730	270	625	
	-	11-10dx11/2	2050	10-16d	2170	9-10dx11/2	2010	8-16d	2080	395	730	270	825	
HIETA20	16	12-10dx11/2	2235	11-18d	2235	10-10dx11/2	- CHARLEST AND A	9-16d	2235	335	780	270	625	
ISIETA24	20	12-10dx134	2235	11-16d	2235	10-10dx1%	2235	9-16d	2235	335	730	270	626	160
HHETA40	38	12-100x11/2	2235	11-16d	2235	10-10dx13/2	2235	9-16d	2235	-		-	-	
HETAL12	1.7.	10-10dx195	The second second	200-16d-30	The state of the s	30-10dx136	1085	10-180	1270	415	1100	255	945	
RETAL IN	11	15-10dx1%	Andrews or the Party of the Par	14-160	STATE OF THE PERSON NAMED IN COLUMN 2 IN C	44-100/15	7 1910	13.166	anin		600	255	945	8,62
HETAL 20	15	15-10dx132	200 000 000		1810		TELEN	1. 40 404	Seleviore.	2577		Vision of	CAR.	

- 1.Loads include a 33% or 60% load duration increase on the fasteners for seismic or wind loading, but do not include no nasuners for seismon or than to among, out on not menter a 3% stress increase on the sheel capacity. Rofer to page 12 for further eightination. 2. Five nails must be installed into the trust seat of the HETAL. 3. Parallel-to-plate load towards face of HETAL is 1975 fbs.
- 4.Lateral foads are based on a minimum installation of 12 nails and the strap exapped over the heel. rum fo is 2,000psi.
- 6. It is acceptable to use a reduced number of fasteners in a product provided that there is a reduction in load capacity. The load per nall can be approximated by dividing the allowable food by the number of fasteners. This concept applies to all member sizes.

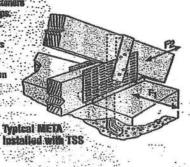
 There should be a minimum of 4 nails installed in the strap.

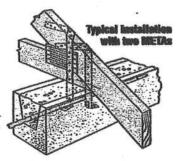
					tion late Growte					Lateral	$ e\rangle r_{e}$		**
	183	Load Din	aljon Increase		160	Lord Di	ration locress			(133 1			Conta
	t Ply So. Pin												
	Fasteners	Load	, Fastenars	Load	Fashmore	Linds	Tasleners	Load				Fe	
META	12-10dx11/2	1985	14-16d	1900	10-10dx11/2	1985	14-16d	1900	1210	1160	1040	1000	160
HETA	12-10dx11/2	2035	14-16d	2500	10-10dx11/2	2035	12-16d	2500	1225	1520	1055	1305	

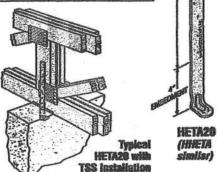
1. For concrete tie beam siplications for 2 or 3 ply trusses, increase the META load 36% and the HETA load 8%.
2. Divide total number of fastmars equally between both straps.
3. Minimum To its 2,500 pet.
4. See instruction to the

Designer page 9 for loads

in multiple directions. ... 5.Lateral leads are based on a minimum installation of 12 nails and the strap wrapped over the beet.







amy Connectors

MGT/HGT HEAVY GIRDER TIEDOWNS

AT provide lighter load alternatives for the HGT-4 is sized for 4-2x widths. This series up rwar-4 is sized for 4-2x widths. This series uplift resistance for wood frame and concrete block in. The HGT can be installed on trusses and beams chord stopes from 3:12 to 8:12. Available in 2-ply, and 4-ply widths.

ATERIAL: LGT-14 ga; MGT-12 ga; HGT-7 ga.

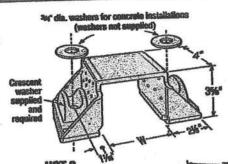
NISH: HGT—Simpson gray paint; LGT, MGT— galvanized

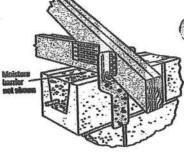
INSTALLATION: • When the HGT-3 is used with a 2-ply girder or beam, shimming is required. Fasten to act as one unit.

Attach to grouted concrete block with a minimum one #5 reber horizontal in the top lintel block.

• Minimum $f_C=2500$ psi madmum aggregate %".

CODES: See page 10 for Code Listing Key Chart.





Station of Bri

141/10

g

2003 SIMPSON BTRONG-TIE

	HGT-2	Lile
/MOTES		(similar)
(HET-S	and HGT-4	Same and

	The state of the s
7W	 Typicai LGT2
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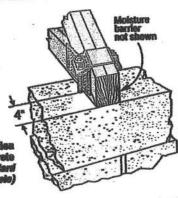
	100.0	0.6	Facto	ners			SPF	
Model No.	W			10.00				
		Anchors	2 64	22-10d	19005	3965	3330	160
	3% 3%e		2-%	16-10d	35400	10980	6485	6 99
HGT-2	A154a	7%	2-3/4	16-10d	35580	三人 000000000000000000000000000000000000	9035	6,38, 62
HGT-4	694s	9	2-3/4	16-10d	28805	9250	9250	

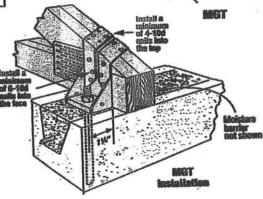
Account Application

1672	31%	9000	1-Yekzye Huns	1-200134 11001	15 100	Part I			
	-	NEW STATE	7-14x21/4 Titon	7-16-13/4 Titen	16-16d Sinker	6533	2150	1850	160
		Anchors	Maximum Com	图 400.000	AND THE PERSON OF THE PERSON	300		drawings	
	100			Concrete	Girden				Res.
		0.C.		The state of the s		Aug.	September 1	Allewable	Code
	100		ALCONO OF THE	Sacioners				20.2	4

Attached members must be designed to sist applied loads.

able loads have been i





LGTZ

Typical HGT-2 legiali

MTSM/HTSM TWIST STRAPS

The MTSM and HTSM offer high strength truss to masonry connections.

MATERIAL: MTSM-16 gauge; HTSM-14 gauge
FMISR: Galvanized. Some products available in stainless steel and
Z-MAX; see Corrocion-Resistance, page 5.
INSTALLATION: • Use all specified fasteners. See General Notes.

Attach to grouted concrete block with a minimum one #5 rebar horizontal.

 Minimum f_C = 2500 psi madmum aggregate %. a t letters Kous Chart

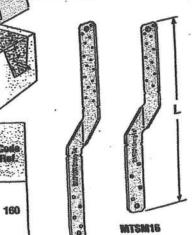
se barries

UDES: 568	bege	IU IUI GUU	Fasteners ²				en en en	Spruce Alloysable	-Plac-I Uplift I	e onts'	
Model	L				ic.	e (Mir	W	19d	18dx	147	101
994.		Tress	en CMU	Concrete.	(123/100)	(183)		(133/166)	(133)		(March 1-
MTSM16	16	7-10d	4-1/0/21/4 Titen	4-1/2x13/4 Titen	860	840	860	750	730	750	1
MTSM20	20	7-10d	4-Vot21/4 Titten	4-14x134 Titen	860		860	750	730	750	160
	16	0.404	4-Vor214 Titen -	4-1/x1% Titen	1175	1045	1175	1020		1020	-8
HTSM20	20	10-10d	4-1/x21/4 Titen	4-Vax1% Titen	1175	1045	1175	1020	1020	1020	

1.Loads have been increased 33% and 60% for earthquake or wind loading; no further increase allowed; reduced where other loads govern.

2. Twist straps do not have to be wrapped over the truss to achieve the allow

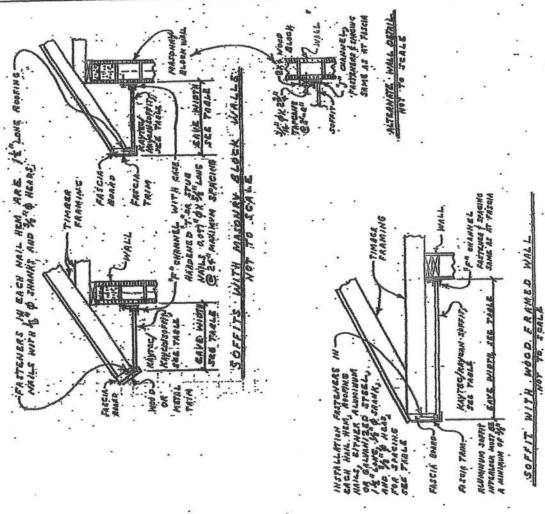
3. Minimum edge distance for Titens is 11/2".



									HSFALLA EACH HAN	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SEE TABL
JSd /	4.5	<i>d</i> .	74.36.3	1,32,1	1.48.3	7.48.0	×21.6	1/20.6	7.20.6	1.84.7	14.30.9.
VRES IN	INCHE	412	4.445	X 41.2		1.58.9.			\$4.83.9°	£ 28,6	
WIND PRESSURES	TH IN	18"	**	12847	*77.2 × 89.4 14.85,2	1.64.0	1/29.7	1,28.4	1.22.4°	7,38,0	* 42,5 1 125.8
	E WIDTH	(3.	1,88.7		2.77.2	1.76.8	7.36.5.	1.39.P	C. 92.5 - 16.36.9		Santonian Santa
DESIGN	EAV.E	12"	7.72.6	7.72.2 1.57.7	7.96.6	4.96.0 X76.8 X66.0 X58.9 XF8.0	524%	1, 46.3		** 54.4 ** 41.8	1, 68,0 11, 52,3
ALLOWABLE	KAYTEE/KAYCAN	SOFFIT TYPE	SP-600 (AUMINUM)	SP-600 GALMINITS	VENTED PANEL (ALPHINOR) CATALOG	CATALOG : PANEL.	PART O WANT 1/4. 17.5 1/4. 36.5 34.29.7" 1/4. 25.2.	ACO SOLID CENTRAL VENT & FULL KRAT TO (184) - VINYA	SOLID, CENTRE FEW & PHILL VAIT 74 CRE VINY E.	SOLID & PANTED OST (100) -PHYS.	AND VENTED TAST (8") WHYE

GENERAL NOTES

- E, FLORIDA GUILDING GODE 3004 DOGS NOT OFFICE WIND LOAD DESIGN FRESSINKS ON SOFFIE,



HR Engineering, Inc. onte 14 July 2005 Projectivo DECTORDE SHEET / OF / General Kaytec Inc. of A. Reves Street Projective Kaytec Inspective Sofetts

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Concrete Anchors



-	1-1/4" B52 lbs		
1-1/4"	-	1804 lbs.	1058 lbs.
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fixture	F Smm "nes	raca Dest Ste	19.
Or to 1/5"	1.24	3.10	b
W. 10 34.	13/6	3.17	£
3/4" to 1-1/4"	2-14-	7.72	4
1-14" to 1-34"-	3.3/6	4115	è
1-3/4 to 2-74"	3-1/4	5.17	Ŀ
2-1/4" to 2-3/4"	3-3/4	5.70	
2.17.103	•	5.17	b

or call us tell free at. 600 727,5833

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114.	341 lbs. 716 lbs.	581 lbs.	1537 lbs.	1059 Es.
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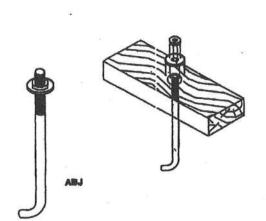
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3/16	200 Ubs.	367 lbs	367 lbs. 465 lbs. 547 lb	3
1/4*	406 lbs.	615 Be.	615 lbe. 251 lbs. 264 lb	ž

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Anc or Dlan ta	Ently Jinent	1.5 F. 1. 16	,
3/16	1-1/4-	BEZ Nov.	157
1/4"	1-1M-	1804 Ibe.	11 8201

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Technical			Tigg of the state
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Accessories	Secretary Control		લકલાં જુંડ
Accessories	II.W BRANDS	630350273	68:ET 2882/61/69



Technical Support (800) SE SPECS - (800) 737-7327



ANCHOR BOLT WITH NUT & 1" WASHER

Deelan Features:

 Bott only with code minimum embedment with 3000 PSI concrete will resist 4,800 lbs, see washer capacity below.

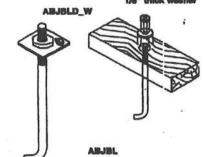
Materials: Black and galvanized steel

Footnote: Other sizes available on request. All references

to boits or MB's are structural quality through boits equal to or better than ASTM Standard ASO7.

A factor		DESCRIPTION	開
1/2 308	ABJBLEC	Black	.50
"被敌"	A MARC	Billion	60
1/2 X10	ABJEL10C	Black	60
1/2/18	Although a	Bistelt,	56
1/2 X14	ABJBL14C-	Black	50
A PARTY OF	ABJBLING	- Stack	50
1/2 X18	ABJUL18C	Mack	50
400	ABJOAN	Gint.	- 50.
1/2 308	ABJGAB	Galv.	50
6/8 X10	ALBUIO	Backer .	80
5/8 X12	ABJBL12D	Black	50





ANCHOR BOLT (WITH NUT & 2"X2"X1/8" WASHER)

Design Features:

6" minimum embedment with 3000 PSI concrete will resist 1,635 lbs.

Materials: Black steel

Footnote: "Supplied with a 2" round washer 1/8" thick.
Wind uptit loads are based on the shear capacity of No. 2 Southern
Pine. Compression perpendicular to grain 565 (psi).

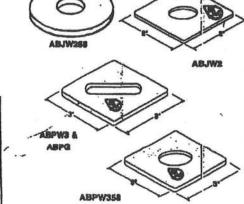
		DESCRIPTION	郡
1/200	ABJBLOW	Black	60
1241		Blingle	60
1/2010	ABJBL10W	Black	50
Said to	ATTION OF	Elegation .	80
6/8/12	ABJBL12DW	Steck	50

ANCHOR BOLT WASHER/PLATE

Design Features: ·

. The washer/plate adds increased resistance to wind uplift for bottom alli piate anchor bolt.

Materials: 10 Gauge Galvanized & 1/8 & 1/4 Black steel
Footnote: "Also available in 50% of approximately 345 pcs.
Wind uplift loads are based on the shear capacity of No. 2 Southern Pine. Compression perpendicular to grain 565 (psi). +Round hole in washer.



14.77		44	ANCHORBOLT	ALLOWAB WHID/EA	EE LOADS:	PER
		COL	(DEMMETER)	Tage I	UPLET:	CIN
2:2	1/0	ABJW2*	1/2°	1636	1635	50
11.77	1824	ABANESS*	178°	1470	1470	50
343	10	ABPG12	1/2"	3675	3675	40
277	100	人為國教室學人	5 5 SAME 1	3673	3676	40
2nd	1/4	ABPW3	1/2"	4800	4800	40
Par Thir	的例外		LINE S	4800	4800	40
	14					

LINTEL INFORMATION

Cement Precast Products, Inc.

INSTALLATION INSTRUCTIONS

Version 1.0

February 28, 2005

Cement Precast Products, Inc.

PRECAST LINTELS (6", 8" AND 12" WIDE)

In order for proper installation of precast and prestressed lintels, DANSCO Engineering, LLC, has prepared this installation instructions to be used in conjunction with quality control methods of the contractor and good construction practices.

Preparation

- 1. All reinforcements shall be cleaned by removing mud, oil, or other materials that will adversely affect or reduce bond at the time mortar or grout is placed. Reinforcement with rust, mill scale, or a combination of both will be accepted as being satisfactory without cleaning or brushing provided the dimensions and weights, including heights of deformations, of a cleaned sample are not less than required by the ASTM specification covering this reinforcement in this Specification.
- 2. Prior to placing masonry, remove laitance, loose aggregate, and anything else that would prevent mortar from bonding to the lintel.
- Debris Construct grout spaces free of mortar dropping, debris, loose aggregates, and any material deleterious to masonry grout.

Lintel / masonry erection

- 1. Placing lintel Length of bearing of lintels on their support shall be a minimum of 4 inches for filled lintels and 6 1/2 inches for unfilled lintels in the direction of span. Provide a temporary support for lintels that are greater than 14' - 0"; the temporary support shall not be removed until 2 days after the grout placement.
- Placing mortar and units (for composite lintels only)
 - Bed and head joints Unless otherwise required, construct 3/8 inches thick bed and head joints. Construct joints that also conform to the following:
 - a) Unless otherwise required, tool joint with a round jointer when the mortar is thumbprint hard.
 - b) Remove masonry protrusions extending 1/2 inches or more into cells or cavities to be grouted.
 - Place hollow units so:
 - a) Face shells of bed joints are fully mortared.
 - b) Head joints are mortared, a minimum distance from each face equal to the face shell thickness of the unit.

- c) Vertical cells to be grouted are aligned and unobstructed openings for grout are provided in accordance with the Project Drawings.
- Place clean units while the mortar is soft and plastic. Remove and relay in fresh mortar any unit disturbed to the extend that initial bond is broken after initial positioning.

Reinforcement installation

- Support and fasten reinforcement together to prevent displacement beyond the tolerances allowed by construction loads or by placement of grout or mortar.
- b) Completely embed reinforcing bars in grout in accordance with ACI530-02 Article
- c) Maintain clear distance between reinforcing bars and any face of masonry unit or formed surface, but not less than ¼ inches for fine grout or ½ inches for coarse grout.
- d) Splice only where indicated on the Project Drawings, unless otherwise acceptable.
- e) Unless accepted by the Architect/ Engineer, do not bend reinforcement after it is embeded in grout or mortar.
- f) Place joint reinforcement so that longitudinal wires are embedded in mortar with a minimum cover of ½ inches when not exposed to weather or earth and 5/8 inches when exposed to weather or earth.

Grout placement

- a) Placing time Place grout within 1½ hours from introducing water in the mixture and prior to initial set.
- b) Confinement Confine grout to the areas indicated on the Project Drawings. Use material to confine grout that permits bond between masonry units and mortar.
- c) Grout pour height Do not exceed the maximum grout pour height given in the ACI530-02 Table 7.
- d) Grout lift height Place grout in lifts not exceeding 5 feet.
- e) Consolidation Consolidate grout at the time of placement.
 - Consolidate grout pours 12 inches or less in height by mechanical vibration or by puddling.
 - Consolidate pours exceeding 12 inches in height by mechanical vibration and reconsolidate by mechanical vibration after initial water loss and settlement has occurred.

Field quality control

- a) Verify masonry unit strength, f'm in accordance with the ACI530-02 Article 1.6.
- b) Sample and test grout as required by the ACI530-02 Articles 1.4B and 1.6.

DE DANSCO ENGINEERING, LLC

P.O. Box 3400 Apollo Beach, FL 33572

Telephone (813) 645-0166 Facsimile (813) 645-9698 E-mail: dengine1@danscoengineering.com CA25948

Cement Precast Products, Inc.

Precast concrete lintels 6", 8" and 12" wide have been reviewed by our office for compliance with the following codes:

- Florida Building Code 2004 Residential, sections R402.2 and R606.
- Florida Building Code 2004 Building, sections 1901.2 and 2107.

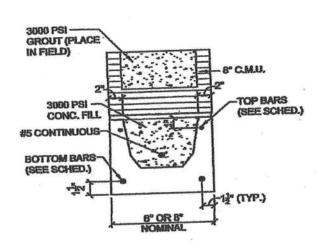
Our review is limited to the precast concrete lintels together with verification that they are accurate and appropriate for use according to the requirements of the above-referenced codes. Only Cement Precast Products, Inc. lintels may be used for the work depicted herein.



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3000 PSI

GROUT (PLACE



IN FIELD) TOP BARS 3000 PSI -(SEE SCHED.) CONC. FILL #5 CONTINUOUS BOTTOM BARS (SEE SCHED.)

TYPICAL LINTEL SECTION

RECESS LINTEL SECTION

ENGINEERING SPECIFICATIONS: 1.) SAFE LOADS ARE TOTAL SUPERIMPOSED ALLOWABLE LOADS

2.) DESIGNER MAY EVALUATE CONCENTRATED LOADS FROM THE SAFE LOAD TABLES BY CALCULATING MAX. RESISTING SHEAR AND MOMENT FOR THE LISTED LINTELS.

3.) SAFE LOADS LISTED ON ALL TABLES ARE IN UNITS OF POUND PER LINEAR FOOT.

GENERAL NOTES: 1.) CODES:

enginering/CEMENT PRECAST PRODUCTS2445478.5x11\SK01.dwg, 5/31/2005 9:09:12 AM, Kloynet

- 1.1 FLORIDA BUILDING CODE 2004 RESIDENTIAL, SECTIONS RA02.2, & R608. 1.2 FLORIDA BUILDING CODE 2004 BUILDING, SECTIONS
- 1901.2 & 2107.
- 1.3 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-02).
- 1.4 AMERICAN SOCIETY OF CIVIL ENGINEERS MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES(ASCE 7-98).

2.) CONCRETE:

- 2.1 CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: 2.1.1 CONCRETE FILL (PLACE IN FIELD) - 3000 PSI 2.1.2 PRECAST W/ STANDARD REINFORCEMENT - 5000
 - 2.1.3 GROUT PER ASTM C476 3000 PSI WI MAX. 3/8" AGGERATE, 8" TO 11" SLUMP.

2.2 REINFORCING BARS:

- REINFORCING BARS: 2.2.1 STEEL IN LINTEL AND KNOCKOUT BLOCK (PLACED)
- IN FIELD) ASTM A616 (GRADE 40). 2.3 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315.
- 2.4 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

3) MASONRY:

- 3.1 DESIGN AND CONSTRUCTION SHALL CONFORM TO THE SPECIFICATION OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND ACI 530-02. 3.2 MINIMUM MASONRY UNIT STRENGTH: PM 1500 PSI.
- 3.3 MORTAR SHALL BE TYPE S.

4) STRUCTURAL:

- 4.1 SAFE LOAD VALUES ARE BASED ON LINTELS HAVING A BEARING OF 4".
- 4.2 FOR LINTELS THAT ARE GREATER THAN 14-0" CLEAR SPAN THEY SHALL BE PROVIDED A TEMPORARY SUPPORT, AND THE TEMPORARY SUPPORT SHALL NOT BE REMOVED UNTIL 2 DAYS AFTER GROUT PLACEMENT.

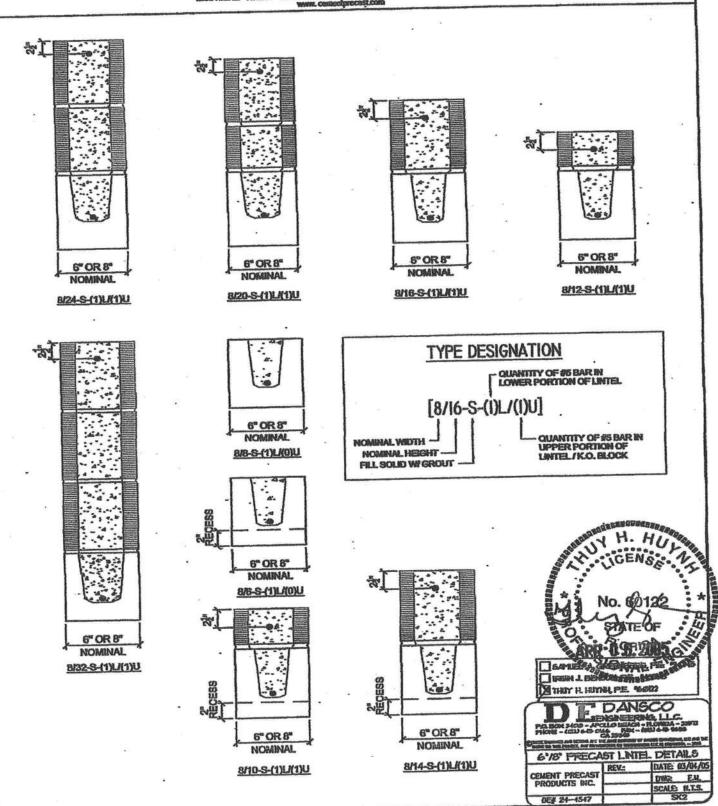


BAMUEL A. GREENBERG, P.E. 94245 THEN A BENSON, PE. 4958 BIHM H. HIMH, PE "6000

GENERAL NOTES 4 DETAILS DATE: 03/04/08 CEMENT PRECAST PRODUCTS INC. EM DING: SCALE: N.T.S. DE# 24-4547

17

Cement Precast Products, Inc. 2033 N.E. 27th Avenus Gainesville, Fl 32809 - (352) 372-0353 - Fac: (352) 378-4611 WARE, Connection Connection



EMont

G:Matalengineering/CEMENT PRECAST PRODUCTS/2445478.5x11/SK02.dwg, 3/16/2005 2:54:18 PM,

Cement Precast Products, Inc. 2003 N.E. 27" Avenue Galinesville, F132809 - (352) 372-6953 - Fasc (352) 578-4611 www.comodphecast.com

LINT	TEL			8" LINTE	LSAFE	BRAVITY	LOADS (PLF)	
TOTAL	CLEAR	TOP	воттом	8/8-S-(0)L	8/12-S-(0)L	8/16-S-(0)L	8/20-S-(0)L	8/24-S-(0)L	8/32-S-(0)L
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				2861	5757	8114	10000	10000	10000
3-6"	2-2"	None	(2)#3	12001	W-19919-4-1	12: 100000:45	The state of the s	\$10000 M	10000
4-0"	2-8"	None	(2)#3	2270	4279	6034 .	7791	9550	10000
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			1	E SHIPPER	A TOPPOST	4904	And the Street own Printed Street or will all	201100000E	10000
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		-		1340	2275	3213	4153	5093 .	5744
5-4"	4'-0"	None	(2)#3	V-200576555	54:62043F-1	a 20.048.05 : 編5		are 10000 at 2	
e2 400	4'-6"	Mann	m.#9.	1101	1875	2844	3418	4193	6975
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6-8"	5-4"	(2)#2	(2)#4	27/1098	120 m	an :34081441	34, 474 Late	各地列2年間	
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				862	1589	2342	3082	3789	5204
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8'-8"	7-4"	(2)#3	(2)#4	2010		25.2063(6)	2850.5	35-30 MQ 45%	7. 美72074票
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		14-	177	Maria Maria		Sand Street, Square Street, Square, Sq	1457	1932	2748
13-4"	1210"	(2)#3	(2)#5	460	806	1117	1457	- Committee of the Comm	
		-		434	757	1046	1359	1712	2475
14-0"	12.6	(2)#3	(2)#5	127 484E 3	-	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 1		Annual Control of the	46-12585@
441.00	400.49	en # 4	mac	412	716	985	1275	. 1600	2391
141-8"	13-4" .	(2)#4	(2)#6	14 of	Albania and the second second			The state of the s	1292397.8
12-0" 12-6" 13-4" 14-0" 14-8"	14-4"	(2)#4	(2)#6	377	658	903	1163	1452	2142
				医影响 医验	THE REAL PROPERTY AND PERSONS ASSESSMENT	The Personal Property lies and	4042	of the same of the	1822
17-4"	161-0"	(2)#4	(2)#6	· 263	579	780	1012	1255	
		-		157	. 505	686	874	1076	1540
19-4"	1840*	(2)#4	(2)#6		14: 305 E				
19"-4" 20"-0" 21"-4" 22"-0" 24"-0" N.R. = NO	18-8"	PARE	mae	· 132	484	656	835	1027	1463
25-0	10-0	(2)#5	(2)#6				Exercise :		
21'-4"	20-0"	(2)#5	(2)#6	. 95	372	604	766	939	1329
		1773	1 44.0						THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
22'-0°	20-8"	(2)#5	(2)#6	80	323	580	735	901	1271
-				N.R.	214	493	656	800	1120
24'-0"	22:-8"	(2) 非5	(2)#6	PENBER		200	100 BER 100	0201/20005	2011R0 A
NR = N	OT RECO	MMENDE	<u> </u>					12-14-1	A beautiful to the second of t
1		- Avenue No.							



□SĀTEELA. GREENBERG, PE. 194246 □ IRIAN J. BENSON, PE. 1956 ŒTRBY H. HUTSH, PE. 19602

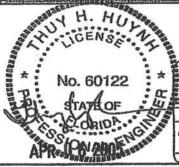
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8° LINTEL SAFE GRAVITY LOADS

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Cement Precast Products, Inc.
2033 NE 27" Avenue Galactella, F132600 - (352) 372-0853 - Fac (352) 378-4611
www.comedpotast.com

nerine furn	LATERAL LO				11)	uaus (f	UPLE 1 L	EL SAFE	9_ FIMIS			rel	E'184.
		13-S-(1)U	8/3	S-(1)U	8124-5-(8/20-5-(1)U	8/16-5-(1)U	8/12-5-(1)U	8/8-S-(1)U	воттом	70P	CLEAR	TOTAL
848-65	518-tp	2520	V8/3	s (a)	2/24 5	120-50210	alle S'ratio	(F) (2) (5)	(4) (4) (1) (4)	REINF.	REINF.	SPAN	ENGTH
		10000	1	000	1000	10000	10000	9999	3369				-
2089	811	TO DESCRIPTION OF THE PERSON O						10000		(2) (10	None	11-8"	3-0"
1481	575	10000		000	10000	10000	10000	6508	2539	(2)#3	None	2-2*	3-6"
-101								10000		(clas	sature:	2.2	9-0
1105	429	10000	-	and the second	1000	10000	7739	4763	2038	(2)#3	None	2.8	410°
		10000			9796	7894	5993	3756	1701				
855	332	10000			1000			3758	Shirts	(2)#3	None	2-2,	4-8
791	307	10000			9057	7298	5541	3508	1613	(2)#3	Mone	3-4"	4-8"
		10000						35083		6300	440110	3~7	4-10
594	230	9448		000	6803	5481	4162 7E 58630 549	2401	1334 (110183) (4)	(2)#3	None	44-0°	5'-4"
	400	7808	-		5622	4530	3439	2350	1182				
491	190	100000	er.	000:25	1000	The state of the s	53874.15	Committee of the last section of the last	CONTROL OF	(2)#3	None	458	5-10"
884	333	6581	-	Contract of the last	4724	3905	2890	1975	1110	(2)#4	(2)#2	5-0"	6-4"
		10000					FE 3325167	205		64	fed as w		-
847	316	6211	1		4472	3603	2736	1869	1083	(2)#4	(2)#2	5-2	6-6*
		5888		min/resilled a service	4240	3416	2594	1772	1048				
803	299	10000		7318		2/45 ta fire	25038	19605	ET SERVE	(2)#4	(2)#2	51.4"	6-8"
627	233	4598			3311	2663	2025	1384	802	(2)#4	(2)#2	6-2"	7:6°
-	200	1910 8 6 5			2000		1 1 Z 180 3 H	1655	The state of the s	(4)***	12) # 2	6-5	1-0
742	273	4392	_		3162	2548	1934	1322	916	(2)#4	(2)#3	6'-4"	7-8°
-		4018	1		2893	2331	1770	1209	823	-			
679	249	7953				31840	2279	1518005	A HE ZANGO	(2)#4	(2)#3	6,8,	8-0°
575	205	3410	T	449	2449	1973	1498	1023	746	-	-	~	
	200	8761		254		30200310	1:2002 it is		學的知识言	(2)#4	(2)#3	7-4"	8'-8"
653	175	2916 5752			2099	1694	1294	877	721	(2)#5	(2)#3	8:00	9-4°
		2362			1700	1370	1040	711	639	-			
529	125	9570 E.S.	-	MARKET THE PARTY NAMED IN	12/5	772(01)	THE RESERVE OF THE PERSON NAMED IN	\$50 MORSON	market market and a second	(2)#5	(2)#3	5r0.	10-4"
437	92	1952	T		140	1132	859	587	573	(2)#5	(2)#3	107-07	11-4
		13700	100	960	Discovery and the last	1834	1376		11.00	Man	(2)83	10-0	11-4
389	NR	1735	1005		1249	1008	764	522	538	(2)#5	(2)#3	10580	12'-0"
		1552	O FEBRUARY.		21B	900	684	900 447 467	479				
348	NR		d cost				12-240000 mil			(2)#5	(2)#3	111-4"	12-8°
313	NR	1397	1		1000	810	615	420	431	-			
	rese	2000			186	3482	部部10000000	Bas (85)	中主教和5 50	(2)#5	(2)#3	12-0	13'-4"
283	N.R	1284	1000	-	910	733	557	380	388	(2)#5	(2)#3	12-8	14°-0°
		1149	2317	-	827	667	506	346	432	1 44	.4	-	
447	N.R	22/5	1		discovered the same	A 1 2 2 8 8 3 1 1	VALUE BASK MAN	And the second second	132 132 132 132 132 132 132 132 132 132	(2) #6	(2)#4	13'-4"	141-8"
357	NR	1004	I	723	723	582	442	302	353	-	-	145-4"	
		HIRINES	188	and the second second	A STREET, SQUARE, SQUA		2008077	性學 100年出	### # 000	(2)#6	(2)#4	14-4	15-6
251	N.R	817	-		588	474 983614	360	246	258	(2)#6	(2)#4	165-0°	17-4"
		654	THE		471	379	288	经经验70元银 196	169	-	-		
169	NR	1204521	1					18001516		(2)#6	(2)#4	18:00	19'-4"
168	NR	610	T	139	439	354	259	183	181	mare	ma-	1818"	001.00
100		CONTRACT.	i	THE REAL PROPERTY.		A DIVIN		54 2574 (m)		(2)#6	(2)#5	18-8	20'-0"
131	MR	535	_	385		310	235	161	141	(2)#6	(2)#5	20:0"	21-4
+		5050s N	3 2		The state of the s	T-1344		C-1200-101		14-0	14-0		
116	MR	503		362 364 191 85	-	291	221	151	126	(2)#8	(2)#5	20'-8"	27-0
1		446	TEN		321	259	196	134	101	-	-		
80	N.R	District Phones	100			- Contract No.	HELIOS PHAI	A THE REAL PROPERTY AND ADDRESS OF THE PARTY A	162310000	(2)#6	(2)#5	22-8"	24'-0"



☐SANUEL A GREENDERG, PE. 74245 ☐ RUIN J. BENSON, PE. M9758 ☑ THUY H, HUYNH, PE. 16002

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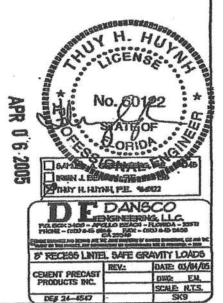
TO PHACING - 1903 8-15 CISAS - FAST - 1803 8-15 10-10 CA, 20-30 CA

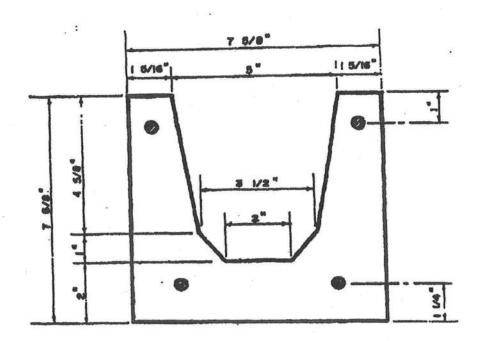
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	REV.:	DATE: 03/04/
CEMENT PRECAST		DWG: EAL

LIN	TEL	8" RECESS LINTEL SAFE GRAVITY LOADS (PLF)				RAVITY
TOTAL	CLEAR	TOP	BOTTOM	8/6-S-(0)L	8/10-S-(0)L	8/14-S-(0)L
LENGTH	SPAN	REINF.	REINF.	8/6-S-(QL	机油 1)5	80 (0.5 (1))
-1	414 414		- 000 400	1530	4400	6931
3,-6,	2-2	None	(2)#3	11530	#400	10000
0.00	01.01	81	600 AL 9	1250	3351	5155
4-0"	2'-8"	None	(2)#3	層250	影響83阿拉生	50/50°E
43.40	64.68	81	400.450	1113	2851	4322
4-4"	3-0"	None	(2)#3	a antis 6	2890	50B3
	61.60		maa	1005	2624	3979
4-6	3-2"	None	(2) #3	a: 31005	2703	5010
41 04		24	m#2	1003	2422	3674
4-8"	3'-4"	None	(2)#3	1003	2538	1960.012数
	0.00	Alexan	(2)#3	764	1584	2406
5'-8"	4-4"	None		156	1856年	The first the
		em . # e	600 M.A	652	1491	2401
6-8"	5-4"	(2)#2	(2)#4	052	10912	1 2000 (1000)
	C4 45		-	546	1225	1919
7-8	6-4"	(2)#3	(2)#4	CENTER 10 21	6 1225 m	

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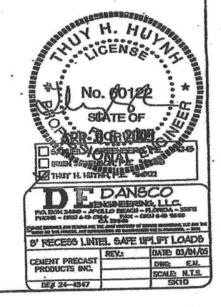
Lintel Concrete Strength = 4000 pel
Pill Concrete Strength = 3000 pel
Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

TYPE	TOP BARS	BOTTOM BARS
A	NONE	2 - 43
3	2 - 42	2 - #4
C	2 - #3	2 - #4
D	2 - #3	2 - #5
E	2 - #4	2 - #6

Cement Precast Products, Inc.
2033 N.E. 27° Avenue Gainesville, F1 32619 - (352) 378-4611
www.camenturecast.com

LINTEL		8" I		S LINTEI LOADS (. SAFE U PLF)	
TOTAL	CLEAR SPAN	TOP REINF.	BOTTOM REINF.	8/6-5-(1)U 8/6-5-(1)U	8/10-S-(1)U	8/14-S-(1)U B/14-S-(2)U
3.6"	2-2"	None	(2)#3	2571 2571	3986 3986	8716 9281
4º-0°	. 2!-8°	None	(2)#3	2063 H 2063	3063 238088 7	6237
44"	3'-0"	None	(2)#3	1823	2660 ·	5122 5122
4º-6°	3-2"	None	(2)#3	1723	2496 -12496	4701 4701
4-8"	3'-4"	None	(2)#3	1633	2350	4345
5'-8"	4.4"	None	(2)#3	12 44	1742	2986 2986
648"	5-4"	(2)#2	(2)#4	1005	1358	2179
7'-8"	6°-4°	(2)#3	(2)#4	70 8	1013	1625

Gidatelengineering/CEMENT PRECAST PRODUCTS/244547/8.5x1/ISK10.dvg, 3/15/2005 2:09:35 PM, EMontanez





Project Information for:

L264772

Builder:

Homes by House Craft, LLC

Lot:

Subdivision:

Three Rivers Estates

County: Truss Count: Marion 24

Design Program: MiTek 20/20 6.3 Building Code:

FBC2004/TPI2002

Truss Design Load Information: Gravity:

Roof (psf): 42.0

Wind Standard: ASCE 7-02

Wind Exposure: B

Floor (psf): N/A

Wind Speed (mph): 110

Note: See the individual truss drawings for special loading conditions. Contractor of Record, responsible for structural engineering:

Jonh D. Harrington Florida Certified General Contractor License No. CGC038861

Address: Homes by House Craft, L.L.C. 24113 NW Old Bellamy Road High Springs, Florida 32643

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869

Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

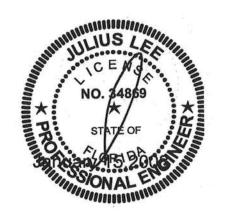
Notes:

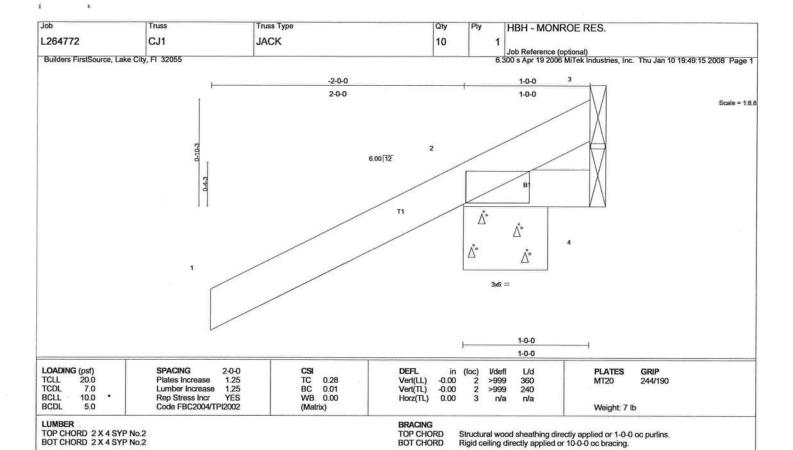
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2

2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.

3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elelments in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

1 J1926893 CJ1 1/15/08 2 J1926894 CJ3 1/15/08 3 J1926895 CJ5 1/15/08 4 J1926896 EJ7 1/15/08 5 J1926897 HJ9 1/15/08 6 J1926898 T01 1/15/08 7 J1926899 T02 1/15/08 8 J1926900 T03 1/15/08 9 J1926901 T04 1/15/08 10 J1926902 T05 1/15/08 11 J1926903 T06 1/15/08 12 J1926904 T07 1/15/08 13 J1926905 T08 1/15/08 14 J1926906 T09 1/15/08 15 J1926907 T10 1/15/08 17 J1926908 T11 1/15/08 17 J1926909 T12 1/15/08 18 J1926911 T14 1/15/08 19 J1926912	No.	Drwg. #	Truss ID	Date
3 J1926895 CJ5 1/15/08 4 J1926896 EJ7 1/15/08 5 J1926897 HJ9 1/15/08 6 J1926898 T01 1/15/08 7 J1926899 T02 1/15/08 8 J1926900 T03 1/15/08 9 J1926901 T04 1/15/08 10 J1926902 T05 1/15/08 11 J1926903 T06 1/15/08 12 J1926904 T07 1/15/08 13 J1926905 T08 1/15/08 14 J1926906 T09 1/15/08 15 J1926907 T10 1/15/08 16 J1926908 T11 1/15/08 17 J1926909 T12 1/15/08 18 J1926910 T13 1/15/08 19 J1926911 T14 1/15/08 20 J1926912 T15 1/15/08 21 J1926913 <td>1</td> <td>J1926893</td> <td>CJ1</td> <td>1/15/08</td>	1	J1926893	CJ1	1/15/08
4 J1926896 EJ7 1/15/08 5 J1926897 HJ9 1/15/08 6 J1926898 T01 1/15/08 7 J1926899 T02 1/15/08 8 J1926900 T03 1/15/08 9 J1926901 T04 1/15/08 10 J1926902 T05 1/15/08 11 J1926903 T06 1/15/08 12 J1926904 T07 1/15/08 13 J1926905 T08 1/15/08 14 J1926906 T09 1/15/08 15 J1926907 T10 1/15/08 15 J1926908 T11 1/15/08 17 J1926909 T12 1/15/08 18 J1926910 T13 1/15/08 19 J1926911 T14 1/15/08 20 J1926912 T15 1/15/08 21 J1926913 T16 1/15/08 22 J1926915 <td>2</td> <td>J1926894</td> <td>CJ3</td> <td>1/15/08</td>	2	J1926894	CJ3	1/15/08
5 J1926897 HJ9 1/15/08 6 J1926898 T01 1/15/08 7 J1926899 T02 1/15/08 8 J1926900 T03 1/15/08 9 J1926901 T04 1/15/08 10 J1926902 T05 1/15/08 11 J1926903 T06 1/15/08 12 J1926904 T07 1/15/08 13 J1926905 T08 1/15/08 14 J1926906 T09 1/15/08 15 J1926907 T10 1/15/08 15 J1926908 T11 1/15/08 17 J1926909 T12 1/15/08 18 J1926910 T13 1/15/08 19 J1926911 T14 1/15/08 20 J1926912 T15 1/15/08 21 J1926913 T16 1/15/08 22 J1926915 T18 1/15/08	3	J1926895	CJ5	1/15/08
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17 J1926909 T12 1/15/08 18 J1926910 T13 1/15/08 19 J1926911 T14 1/15/08 20 J1926912 T15 1/15/08 21 J1926913 T16 1/15/08 22 J1926914 T17 1/15/08 23 J1926915 T18 1/15/08	15	J1926907	T10	1/15/08
17 J1926909 T12 1/15/08 18 J1926910 T13 1/15/08 19 J1926911 T14 1/15/08 20 J1926912 T15 1/15/08 21 J1926913 T16 1/15/08 22 J1926914 T17 1/15/08 23 J1926915 T18 1/15/08	16	J1926908	T11	1/15/08
19 J1926911 T14 1/15/08 20 J1926912 T15 1/15/08 21 J1926913 T16 1/15/08 22 J1926914 T17 1/15/08 23 J1926915 T18 1/15/08	17	J1926909	T12	1/15/08
20 J1926912 T15 1/15/08 21 J1926913 T16 1/15/08 22 J1926914 T17 1/15/08 23 J1926915 T18 1/15/08	18	J1926910	T13	1/15/08
21 J1926913 T16 1/15/08 22 J1926914 T17 1/15/08 23 J1926915 T18 1/15/08	19	J1926911	T14	1/15/08
22 J1926914 T17 1/15/08 23 J1926915 T18 1/15/08	20	J1926912	T15	1/15/08
22 J1926914 T17 1/15/08 23 J1926915 T18 1/15/08	21	J1926913	T16	1/15/08
23 J1926915 T18 1/15/08	22		T17	1/15/08
	23	J1926915	T18	1/15/08
	24	J1926916	T18G	1/15/08





REACTIONS (lb/size) 2=266/0-8-0, 4=5/Mechanical, 3=-100/Mechanical Max Horz 2=87(load case 6)

Max Upiti2=266(load case 6), 3=-100(load case 1)
Max Grav 2=266(load case 6), 4=14(load case 2), 3=138(load case 6)

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/47, 2-3=-75/85 BOT CHORD 2-4=0/0

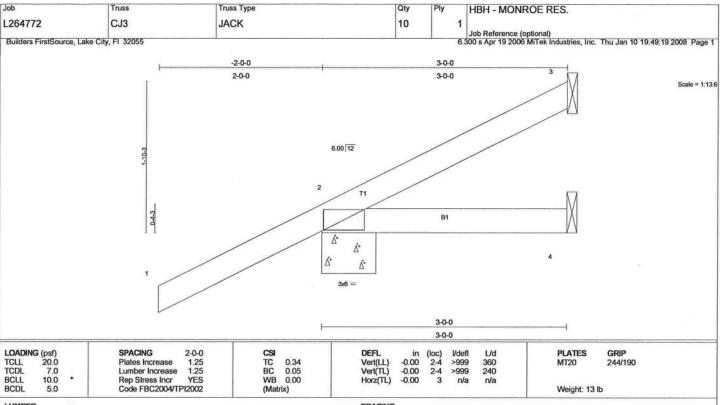
JOINT STRESS INDEX

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

2) *This truss has been designed for a 1.00 psf bottom chord live load nonconcurrent with any other live loads.

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 2 and 100 lb uplift at joint 3.



LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2

BRACING

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (Ib/size) 3=14/Mechanical, 2=266/0-8-0, 4=13/Mechanical Max Horz 2=132(load case 6) Max Uplif13=-22(load case 7), 2=-222(load case 6) Max Grav 3=18(load case 4), 2=266(load case 1), 4=39(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/48, 2-3=-63/8 BOT CHORD 2-4=0/0

JOINT STRESS INDEX

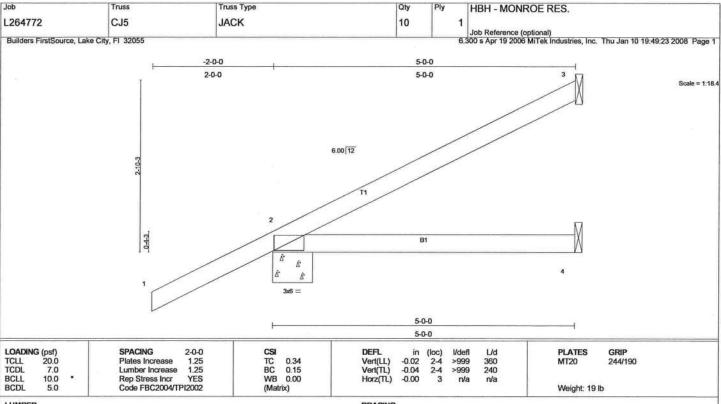
- NOTES

 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

 2) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2.



LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2

BRACING

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=92/Mechanical, 2=305/0-8-0, 4=23/Mechanical Max Horz 2=178(load case 6) Max Uplif13=-79(load case 6), 2=-212(load case 6) Max Grav 3=92(load case 1), 2=305(load case 1), 4=69(load case 2)

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/48, 2-3=-84/32 BOT CHORD 2-4=0/0

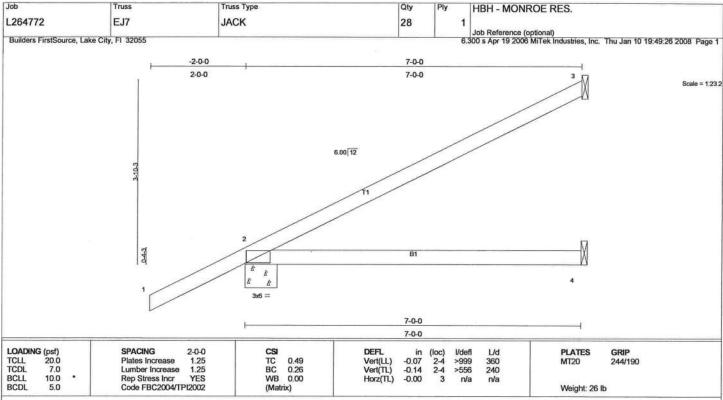
JOINT STRESS INDEX 2 = 0.15

NOTES 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 3 and 212 lb uplift at joint 2.



TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2

BRACING

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=148/Mechanical, 2=360/0-8-0, 4=41/Mechanical

Max Horz 2=161(load case 6) Max Uplift3=-82(load case 6), 2=-148(load case 6) Max Grav 3=148(load case 1), 2=360(load case 1), 4=91(load case 2)

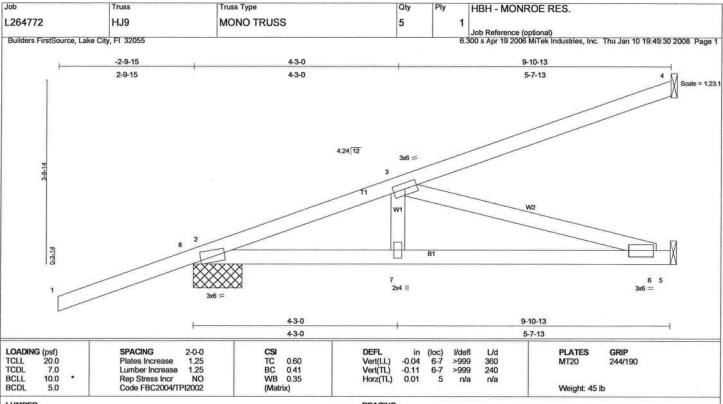
FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/48, 2-3=-118/53 BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.67

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is 1) Wind. ASCE 7-02; Trumph (3-second gust), n=2ut; TCDL=4.2pst; BCDL=3.upst; Category II; Exp B; enclosed; MVVFRS and C-C Extenor(designed for C-C for members and forces, and for MVFRS for reactions specified.
2) "This truss has been designed for a 10.0 pst bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 3 and 148 lb uplift at joint 2.



LUMBER

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=267/Mechanical, 2=449/1-0-1, 5=215/Mechanical

Max Horz 2=265(load case 3) Max Uplift4--231(load case 3), 2--274(load case 3), 5--59(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD BOT CHORD 1-8=0/45, 2-8=0/45, 2-3=-633/106, 3-4=-105/65 2-7=-294/583, 6-7=-294/583, 5-6=0/0

3-7=0/185, 3-6=-607/306

JOINT STRESS INDEX 2 = 0.85, 3 = 0.16, 6 = 0.17 and 7 = 0.14

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.

 2) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 4, 274 lb uplift at joint 2 and 59 lb uplift at joint 5.

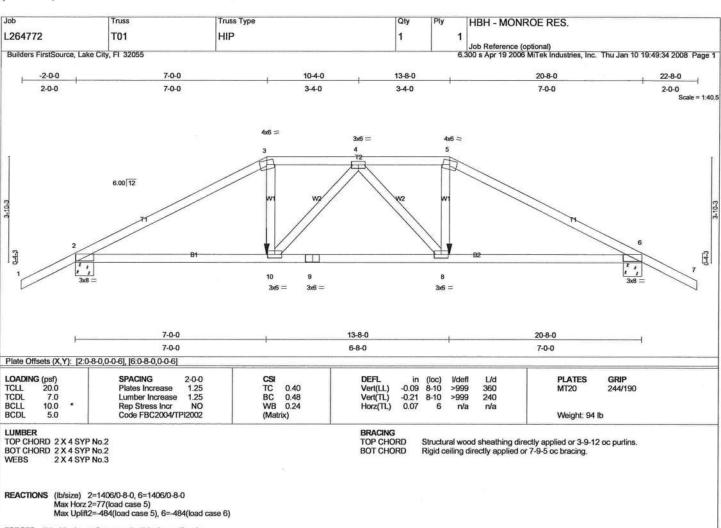
 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf) Vert: 1-8=-54

Trapezoidal Loads (plf)
Vert: 8=0(F=27, B=27)-to-4=-134(F=-40, B=-40), 2=-1(F=5, B=5)-to-5=-25(F=-7, B=-7)



FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD 1.2=0/48, 2-3=-2378/712, 3-4=-2054/666, 4-5=-2054/666, 5-6=-2378/712, 6-7=0/48
BOT CHORD 2-10=-594/2026, 9-10=-690/2183, 6-8=-690/2183, 6-8=-590/2026
WEBS 3-10=-220/740, 4-10=-303/174, 4-8=-303/174, 5-8=-220740

JOINT STRESS INDEX

2 = 0.76, 3 = 0.82, 4 = 0.38, 5 = 0.82, 6 = 0.76, 8 = 0.48, 9 = 0.77 and 10 = 0.48

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.

3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 484 lb uplift at joint 2 and 484 lb uplift at joint 6.

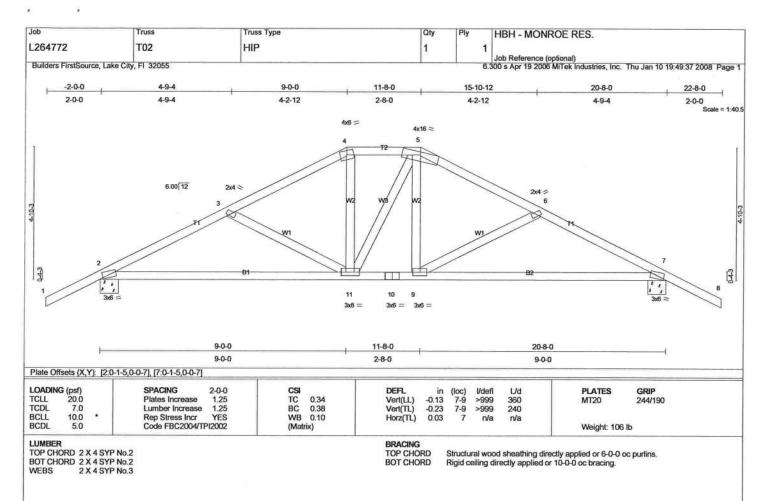
7) Girder carries hip end with 7-0-0 end setback.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 411 lb down and 165 lb up at 13-8-0, and 411 lb down and 165 lb up at 7-0-0 en bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular. Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf) Vert: 1-3=-54, 3-5=-113(F=-58), 5-7=-54, 2-10=-10, 8-10=-21(F=-11), 6-8=-10

Concentrated Loads (lb) Vert: 10=-411(F) 8=-411(F)



REACTIONS (lb/size) 2=766/0-8-0, 7=766/0-8-0 Max Horz 2=-89(load case 7) Max Uplif(2=-237(load case 6), 7=-237(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/48, 2-3=-1048/548, 3-4=-813/448, 4-5=-682/452, 5-6=-812/448, 6-7=-1048/548, 7-8=0/48 2-11=-320/870, 10-11=-142/682, 9-10=-142/682, 7-9=-320/871 TOP CHORD

BOT CHORD

3-11=-222/202, 4-11=-50/208, 5-11=-96/98, 5-9=-50/209, 6-9=-223/202 WEBS

JOINT STRESS INDEX

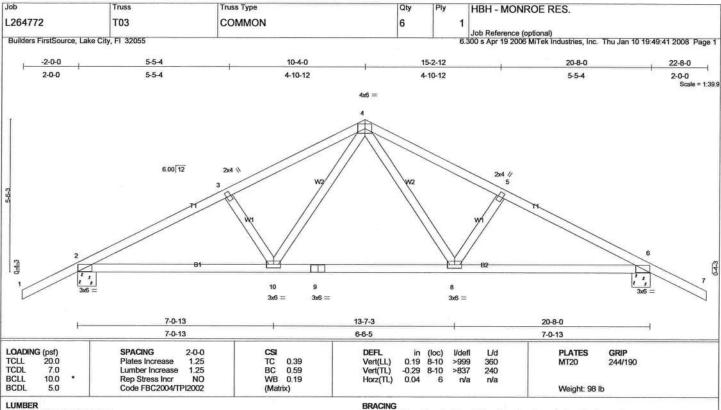
2 = 0.87, 3 = 0.34, 4 = 0.36, 5 = 0.44, 6 = 0.34, 7 = 0.88, 9 = 0.35, 10 = 0.50 and 11 = 0.62

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 2 and 237 lb uplift at joint 7.



TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2

WEBS 2 X 4 SYP No.3 BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, Rigid ceiling directly applied or 8-5-15 oc bracing.

BOT CHORD

REACTIONS (lb/size) 2=962/0-8-0, 6=962/0-8-0 Max Horz 2=97(load case 6)

Max Uplift2=-298(load case 6), 6=-298(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/48, 2-3=-1495/791, 3-4=-1351/794, 4-5=-1351/794, 5-6=-1495/791, 6-7=0/48 2-10=-528/1252, 9-10=-278/885, 8-9=-278/885, 6-8=-528/1252 3-10=-195/190, 4-10=-279/531, 4-8=-279/531, 5-8=-195/190

JOINT STRESS INDEX

2 = 0.68, 3 = 0.34, 4 = 0.56, 5 = 0.34, 6 = 0.68, 8 = 0.43, 9 = 0.54 and 10 = 0.43

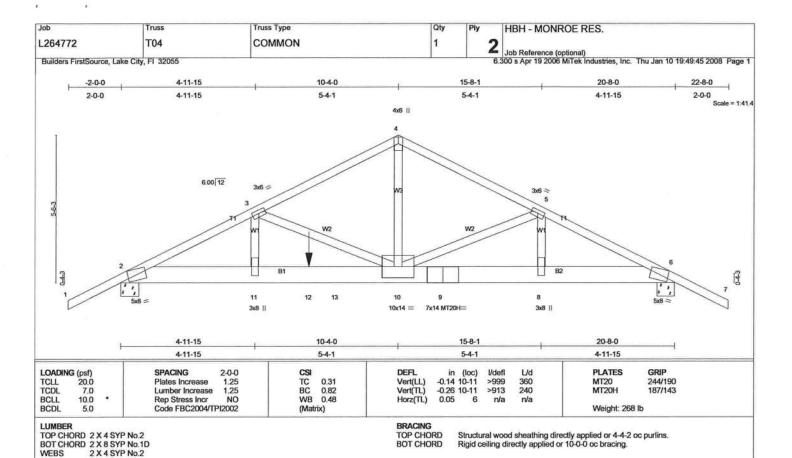
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf, BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) "This truss has been designed for a 10.0 pst bottom chord live load nonconcurrent with any other live loads.
 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 2 and 298 lb uplift at joint 6.
 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (pif)

Vert: 1-4=-54, 4-7=-54, 2-10=-10, 8-10=-70(F=-60), 6-8=-10



REACTIONS (lb/size) 2=3906/0-8-0, 6=5376/0-8-0

Max Horz 2=101(load case 5) Max Uplift2=-1113(load case 5), 6=-1519(load case 6)

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD

1-2=0/54, 2-3=-8072/2112, 3-4=-6281/1699, 4-5=-6296/1700, 5-6=-8872/2338, 6-7=0/54
2-11=-1877/7129, 11-12=-1877/7129, 12-13=-1877/7129, 10-13=-1877/7129, 9-10=-2025/7864, 8-9=-2025/7864, 6-8=-2025/7864 BOT CHORD

3-11=-331/1356, 3-10=-1722/494, 4-10=-1396/5238, 5-10=-2526/742, 5-8=-554/2026

JOINT STRESS INDEX

2 = 0.92, 3 = 0.75, 4 = 0.60, 5 = 0.75, 6 = 0.92, 8 = 0.33, 9 = 0.45, 10 = 0.39 and 11 = 0.33

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2 X 8 - 2 rows at 0-7-0 oc.

- Webs connected as follows: 2 X 4 1 row at 0-9-0 oc.
 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOI =1 60
- *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) All plates are MT20 plates unless otherwise indicated.

- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1113 lb uplift at joint 2 and 1519 lb uplift at joint 6, 9) Girder carries tie-in span(s): 31-4-0 from 8-0-0 to 20-8-0

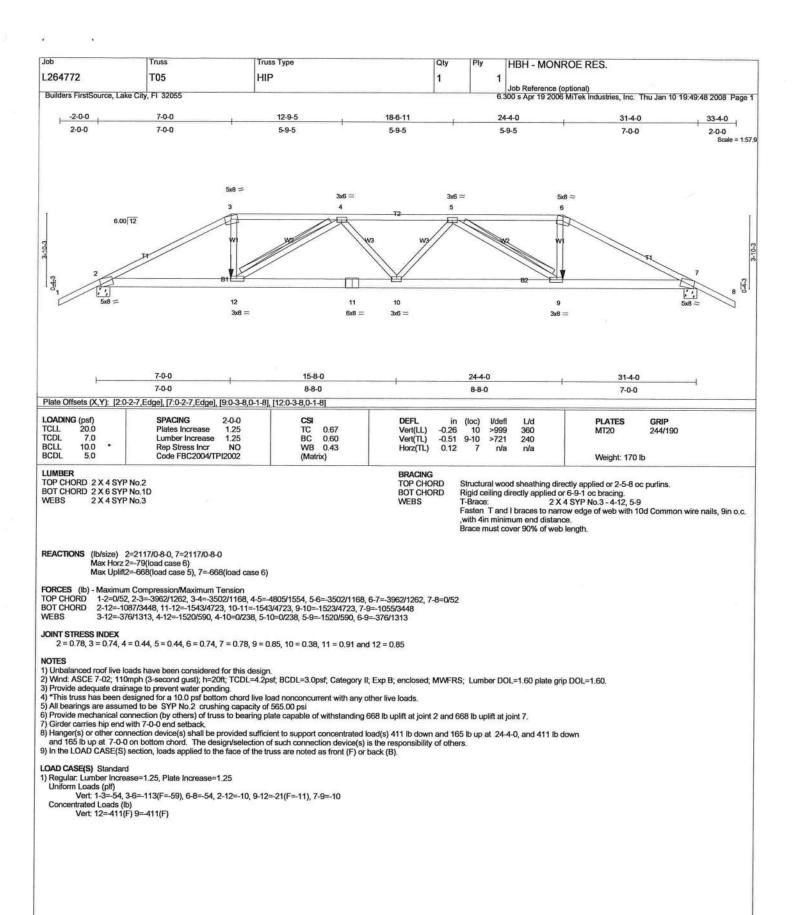
3) Grader carries item sparing; 3.1-4-0 from 8-0-0 to 20-60.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2093 lb down and 579 lb up at: 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

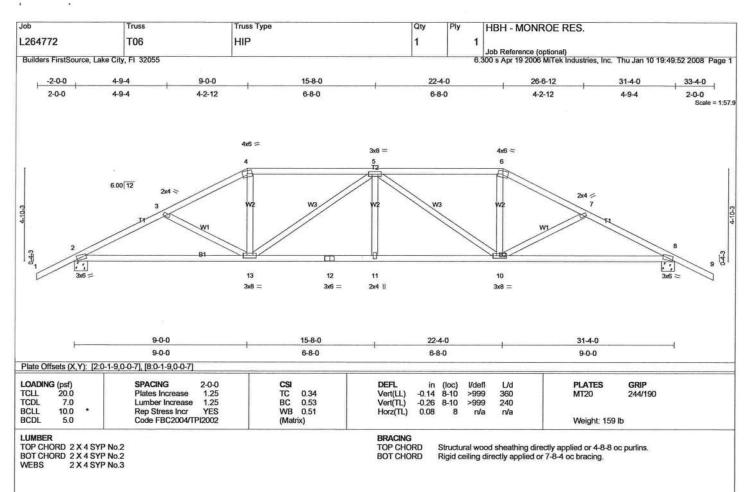
LOAD CASE(S) Standard

1) Regular. Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf) Vert: 1-4=-54, 4-7=-54, 2-13=-10, 6-13=-469(F=-459)

Concentrated Loads (lb) Vert: 12=-2093(F)





REACTIONS (lb/size) 2=1107/0-8-0, 8=1107/0-8-0

Max Horz 2=89(load case 6) Max Uplift2=-276(load case 6), 8=-276(load case 7)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD
TOP CH

JOINT STRESS INDEX

2 = 0.88, 3 = 0.34, 4 = 0.69, 5 = 0.57, 6 = 0.69, 7 = 0.34, 8 = 0.88, 10 = 0.57, 11 = 0.34, 12 = 0.59 and 13 = 0.57

1) Unbalanced roof live loads have been considered for this design.

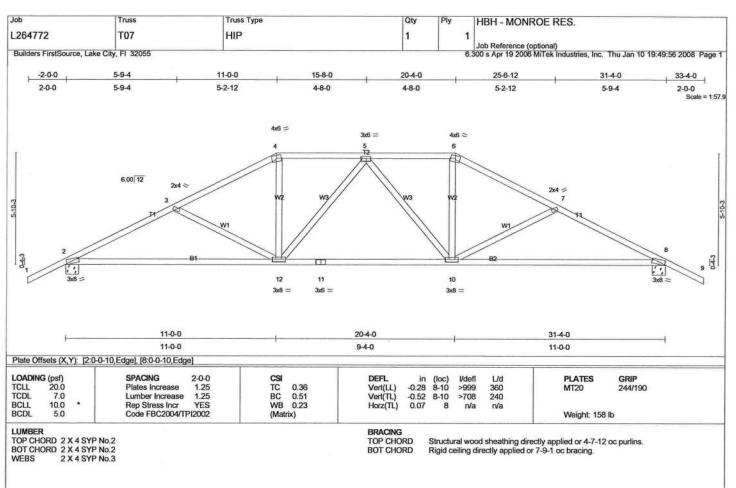
- 1) Undealored from lote loads have been considered controlled early. F-20ft; TCDL=4.2psf, BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

 3) Provide adequate drainage to prevent water ponding.

 4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 2 and 276 lb uplift at joint 8.



REACTIONS (lb/size) 2=1107/0-8-0, 8=1107/0-8-0 Max Horz 2=-101(load case 7)

Max Uplift2=-291(load case 6), 8=-291(load case 7)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD
TOP CH

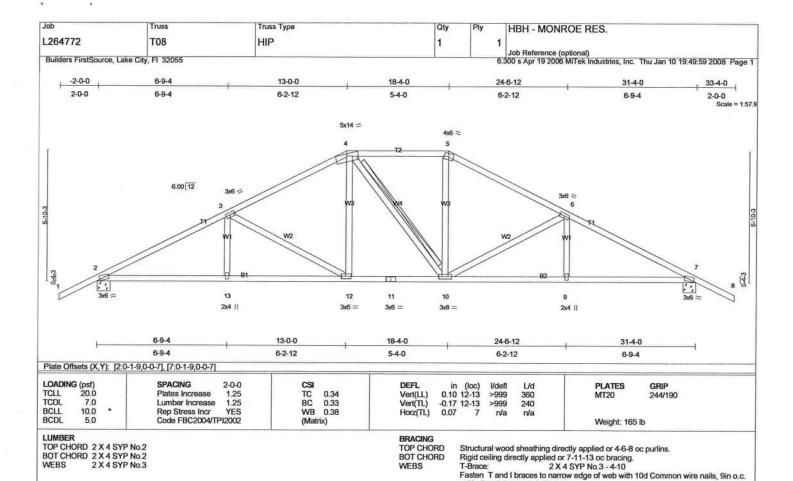
2 = 0.90, 3 = 0.34, 4 = 0.65, 5 = 0.40, 6 = 0.65, 7 = 0.34, 8 = 0.90, 10 = 0.57, 11 = 0.45 and 12 = 0.57

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf, BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

 3) Provide adequate drainage to prevent water ponding.

 4) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads."

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 2 and 291 lb uplift at joint 8.



with 4in minimum end distance. Brace must cover 90% of web length.

REACTIONS (lb/size) 2=1107/0-8-0, 7=1107/0-8-0

Max Horz 2=-113(load case 7)
Max Uplift2=-303(load case 6), 7=-303(load case 7)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD BOT CHORD

1-2=0/48, 2-3=-1751/907, 3-4=-1323/780, 4-5=-1119/765, 5-6=-1323/780, 6-7=-1751/907, 7-8=0/48 2-13=-622/1476, 12-13=-622/1476, 11-12=-354/1119, 10-11=-354/1119, 9-10=-622/1476, 7-9=-622/1476 3-13=0/208, 3-12=-416/307, 4-12=-115/308, 4-10=-149/150, 5-10=-115/308, 6-10=-415/307, 6-9=0/208

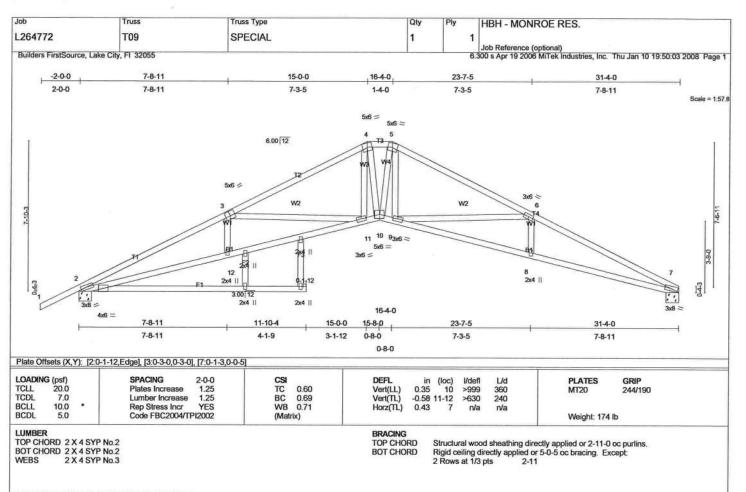
JOINT STRESS INDEX

2 = 0.79, 3 = 0.41, 4 = 0.78, 5 = 0.69, 6 = 0.41, 7 = 0.79, 9 = 0.34, 10 = 0.58, 11 = 0.38, 12 = 0.35 and 13 = 0.34

NOTES

- Unbalanced roof live loads have been considered for this design.
 What: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

- 3) Provide adequate drainage to prevent water ponding.
 4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 555,00 psi
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 303 lb uplift at joint 2 and 303 lb uplift at joint 7.



REACTIONS (lb/size) 7=977/0-8-0, 2=1112/0-8-0

Max Horz 2=135(load case 6)

Max Uplift7=-218(load case 7), 2=-314(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD

1-2=0/45, 2-3=-3089/1582, 3-4=-2261/1151, 4-5=-1999/1135, 5-6=-2269/1154, 6-7=-3147/1673 2-12=-1320/2729, 11-12=-1324/2727, 10-11=-735/1961, 9-10=-743/1972, 8-9=-1413/2788, 7-8=-1416/2792

BOT CHORD

WEBS 3-12=0/232, 3-11=-744/563, 4-11=-147/438, 4-10=-204/525, 5-10=-185/466, 5-9=-146/436, 6-9=-789/647, 6-8=0/234

JOINT STRESS INDEX

2 = 0.81, 3 = 0.85, 4 = 0.69, 5 = 0.67, 6 = 0.41, 7 = 0.81, 8 = 0.34, 9 = 0.38, 10 = 0.71, 11 = 0.38, 12 = 0.34, 13 = 0.12, 15 = 0.34, 16 = 0.34, 17 = 0.34 and 18 = 0.34

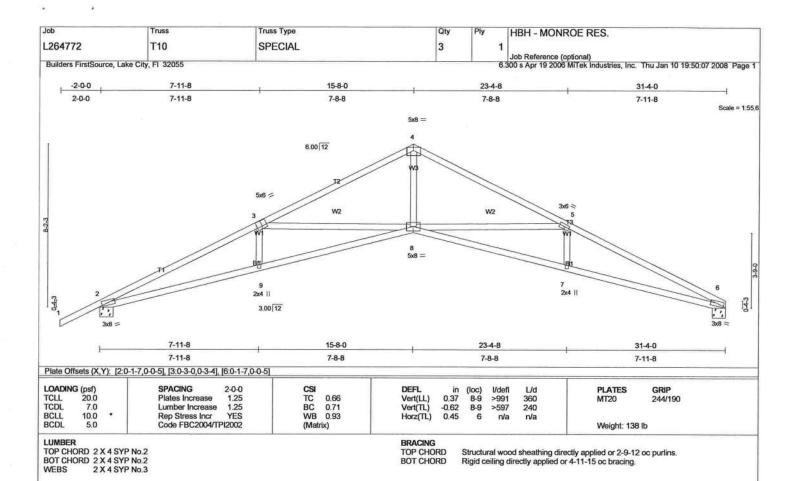
NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf, BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Bearing at joint(s) 7, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 7 and 314 lb uplift at joint 2.



REACTIONS (lb/size) 6=977/0-8-0, 2=1112/0-8-0 Max Horz 2=138(load case 6)

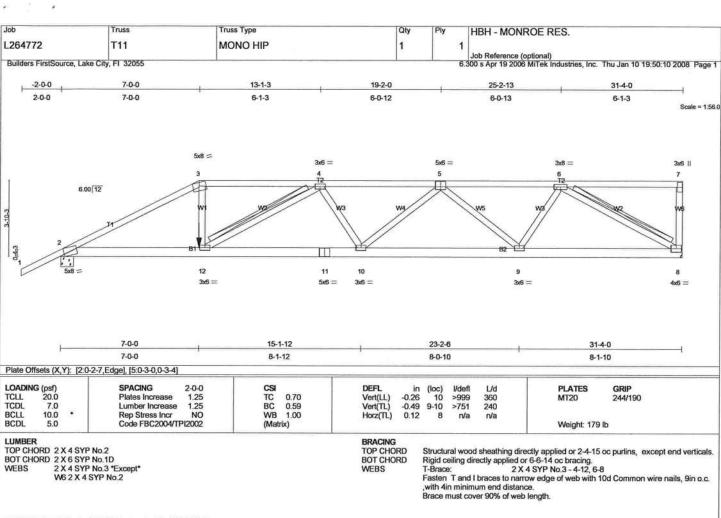
Max Uplift6=-213(load case 7), 2=-317(load case 6)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD 1.2=0/45, 2.3=-3082/1586, 3.4=-2199/1120, 4.5=-2201/1121, 5.6=-3136/1670
BOT CHORD 2.9=-1321/2724, 8.9=-1325/2720, 7.8=-1407/2777, 6.7=-1411/2782
WEBS 3.9=0/242, 3.8=-822/597, 4.8=-683/1467, 5.8=-879/678, 5.7=0/243

JOINT STRESS INDEX

2 = 0.81, 3 = 0.76, 4 = 0.78, 5 = 0.41, 6 = 0.81, 7 = 0.34, 8 = 0.90 and 9 = 0.34

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is Yinib. Asce 7-02, Trottpin (3-second gust), n=20tt, TeDE=4.2ps; BoLE=3.0ps; category it, exp b; enclosed, myvr-RS and C-C extenor(2) zone; Lumber designed for C-C for members and forces, and for MW-RS for reactions specified.
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 6 and 317 lb uplift at joint 2.



REACTIONS (lb/size) 8=2093/Mechanical, 2=2094/0-8-0

Max Horz 2=165(load case 5) Max Uplift8=-717(load case 4), 2=-651(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/52, 2-3=3914/1273, 3-4=-3459/1178, 4-5=-4706/1579, 5-6=-3557/1178, 6-7=-121/43, 7-8=-321/162 2-12=-1163/3406, 11-12=-1637/4693, 10-11=-1637/4693, 9-10=-1580/4524, 8-9=-1047/2984 TOP CHORD BOT CHORD

3-12=-358/1239, 4-12=-1428/578, 4-10=0/196, 5-10=-9/247, 5-9=-1276/530, 6-9=-258/1132, 6-8=-3314/1162

JOINT STRESS INDEX

2 = 0.77, 3 = 0.73, 4 = 0.43, 5 = 0.78, 6 = 0.87, 7 = 0.75, 8 = 0.87, 9 = 0.87, 10 = 0.43, 11 = 0.98 and 12 = 0.81

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf, BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
 *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- A) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 717 ib uplift at joint 8 and 651 lb uplift at joint 2.
 6) Girder carries hip end with 0-0-0 right side sebback, 7-0-0 left side setback, and 7-0-0 end setback.
 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 411 lb down and 165 lb up at 7-0-0 on bottom chord. The
- design/selection of such connection device(s) is the responsibility of others.

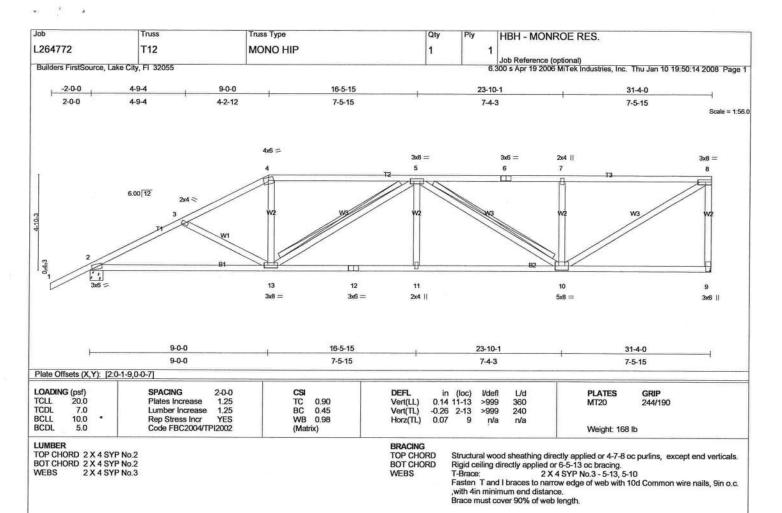
 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular. Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf) Vert: 1-3=-54, 3-7=-113(F=-58), 2-12=-10, 8-12=-21(F=-11)

Concentrated Loads (lb) Vert: 12=-411(F)



REACTIONS (lb/size) 9=983/Mechanical, 2=1118/0-8-0 Max Horz 2=195(load case 6)

Max Uplift9=-269(load case 5), 2=-271(load case 6)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD
TOP CH

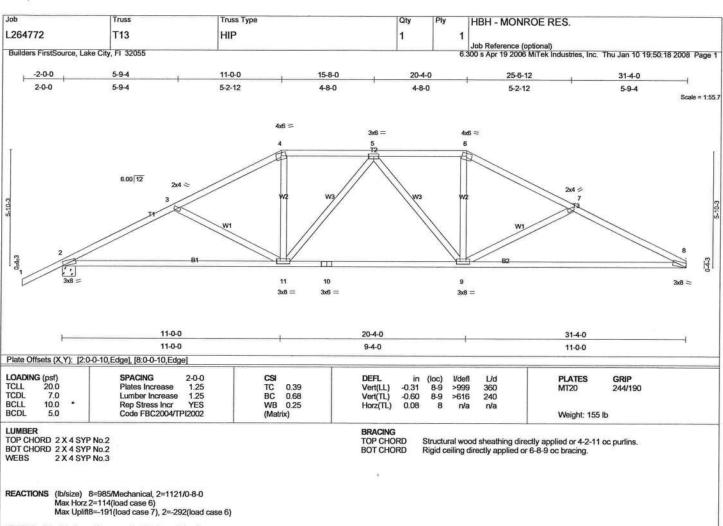
JOINT STRESS INDEX

2 = 0.87, 3 = 0.34, 4 = 0.82, 5 = 0.57, 6 = 0.35, 7 = 0.34, 8 = 0.66, 9 = 0.29, 10 = 0.66, 11 = 0.34, 12 = 0.61 and 13 = 0.57

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.

 3) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 9 and 271 lb uplift at joint 2.



FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/48, 2-3=-1766/956, 3-4=-1476/825, 4-5=-1270/803, 5-6=-1295/826, 6-7=-1507/855, 7-8=-1836/1035 2-11=-749/1499, 10-11=-592/1377, 9-10=-592/1377, 8-9=-842/1598 3-11=-276/261, 4-11=-139/389, 5-11=-280/119, 5-9=-250/112, 6-9=-163/400, 7-9=-356/341 TOP CHORD

BOT CHORD

2 = 0.90, 3 = 0.34, 4 = 0.65, 5 = 0.40, 6 = 0.65, 7 = 0.34, 8 = 0.90, 9 = 0.57, 10 = 0.49 and 11 = 0.57

- NOTES

 1) Unbalanced roof live loads have been considered for this design.

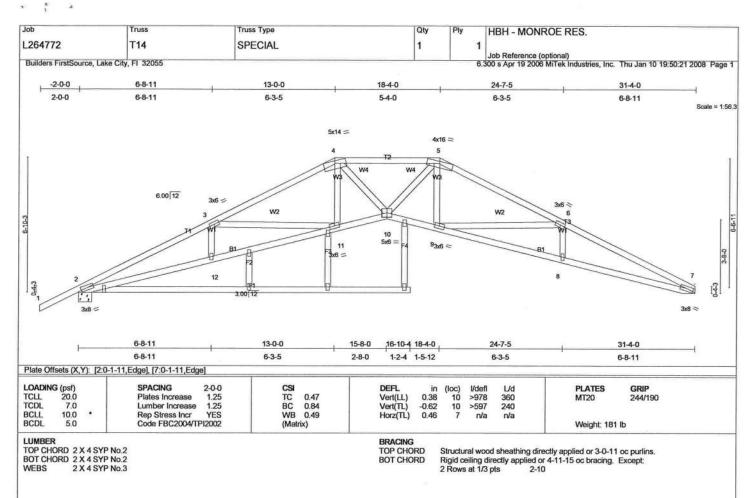
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

 3) Provide adequate drainage to prevent water ponding.

 4) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 8 and 292 lb uplift at joint 2.



REACTIONS (lb/size) 7=985/Mechanical, 2=1121/0-8-0 Max Horz 2=121(load case 6)

Max Uplift7=-203(load case 7), 2=-304(load case 6)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/45, 2-3=-3125/1575, 3-4=-2493/1255, 4-5=-2680/1395, 5-6=-2512/1270, 6-7=-3280/1728

BOT CHORD

WEBS

2-12=-1317/2760, 11-12=-1323/2764, 10-11=-880/2233, 9-10=893/2250, 8-9=-1478/2921, 7-8=-1480/2922

3-12=0/197, 3-11=-542/429, 4-11=-111/295, 4-10=-292/737, 5-10=-274/715, 5-9=-142/311, 6-9=-672/570, 6-8=0/207

JOINT STRESS INDEX

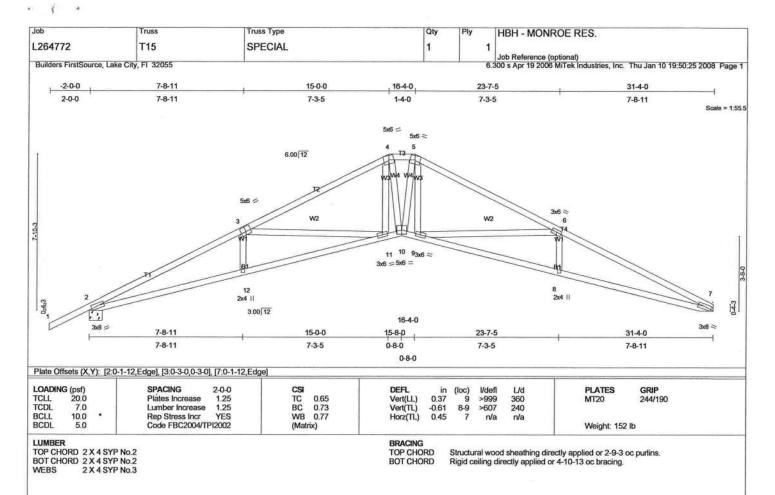
2 = 0.82, 3 = 0.41, 4 = 0.80, 5 = 0.98, 6 = 0.41, 7 = 0.83, 8 = 0.34, 9 = 0.38, 10 = 0.81, 11 = 0.38, 11 = 0.34, 12 = 0.34, 13 = 0.37, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.34 and 19 = 0.34

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.

4) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.

6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 7 and 304 lb uplift at joint 2.



REACTIONS (lb/size) 7=985/Mechanical, 2=1121/0-8-0

Max Horz 2=133(load case 6)

Max Uplift7=-221(load case 7), 2=-315(load case 6)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/45, 2-3=-3122/1597, 3-4=-2297/1167, 4-5=-2033/1150, 5-6=-2308/1172, 6-7=-3251/1727

BOT CHORD

WEBS

2-12=-1331/2759, 11-12=-1335/2758, 10-11=-747/1994, 9-10=-755/2006, 8-9=-1466/2892, 7-8=-1470/2897

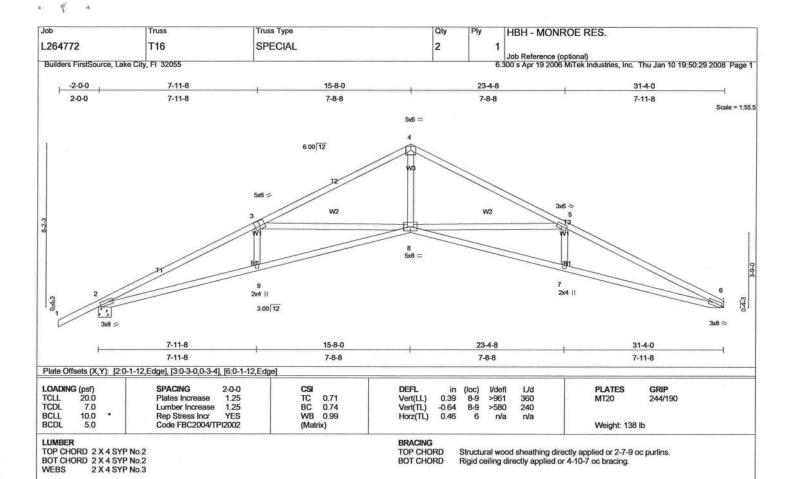
3-12=0/232, 3-11=-742/562, 4-11=-147/438, 4-10=-209/536, 5-10=-188/468, 5-9=-157/445, 6-9=-849/686, 6-8=0/239

2 = 0.82, 3 = 0.85, 4 = 0.69, 5 = 0.69, 6 = 0.41, 7 = 0.82, 8 = 0.34, 9 = 0.38, 10 = 0.72, 11 = 0.38 and 12 = 0.34

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MVFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.

4) "This truss has been designed for a 10.0 ps bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 7 and 315 lb uplift at joint 2.



REACTIONS (lb/size) 6=985/Mechanical, 2=1121/0-8-0

Max Horz 2=137(load case 6)

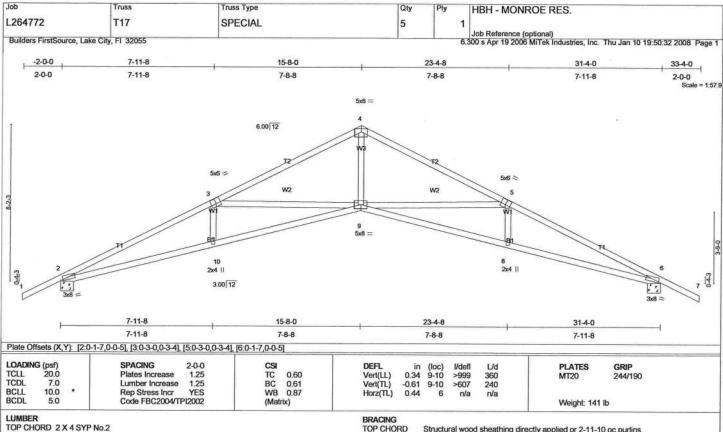
Max Uplift6=-216(load case 7), 2=-318(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD
1-2=0/45, 2-3=-3116/1602, 3-4=-2234/1136, 4-5=-2236/1137, 5-6=-3237/1722
BOT CHORD
2-9=-1332/2755, 8-9=-1336/2751, 7-8=-1459/2878, 6-7=-1463/2883
WEBS
3-9=0/242, 3-8=-821/597, 4-8=-679/1500, 5-8=-937/718, 5-7=0/248

2 = 0.81, 3 = 0.76, 4 = 0.77, 5 = 0.41, 6 = 0.81, 7 = 0.34, 8 = 0.91 and 9 = 0.34

1) Unbalanced roof live loads have been considered for this design

- Oncolaranced roor live loads have been considered for this design.
 Whind: ASCE 7-02, 110mph (3-second gust); h=20ft; TCDL=4.psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 6 and 318 lb uplift at joint 2.



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

BOT CHORD

Structural wood sheathing directly applied or 2-11-10 oc purlins. Rigid ceiling directly applied or 5-10-2 oc bracing.

REACTIONS (lb/size) 2=1107/0-8-0, 6=1107/0-8-0

Max Horz 2=-126(load case 7)

Max Uplift2=-316(load case 6), 6=-316(load case 7)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-3063/1486, 3-4=-2180/1017, 4-5=-2180/1017, 5-6=-3063/1486, 6-7=0/45

BOT CHORD 2-10--1157/2706, 9-10--1161/2703, 8-9--1161/2702, 6-8--1157/2706 3-10-0/242, 3-9-822/602, 4-9-569/1450, 5-9-822/602, 5-8-0/242

JOINT STRESS INDEX

2 = 0.80, 3 = 0.75, 4 = 0.78, 5 = 0.75, 6 = 0.80, 8 = 0.34, 9 = 0.90 and 10 = 0.34

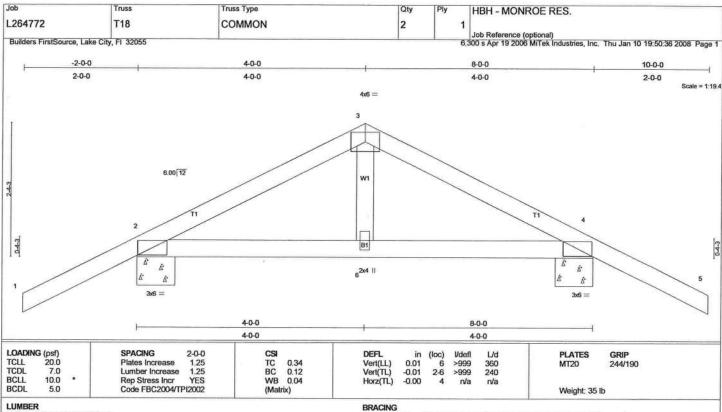
NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MW-RS for reactions specified.

3) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 2 and 316 lb uplift at joint 6.



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

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. TOP CHORD BOT CHORD

REACTIONS (lb/size) 2=361/0-8-0, 4=361/0-8-0 Max Horz 2=-60(load case 7) Max Uplift2=-257(load case 6), 4=-257(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/48, 2-3=-229/351, 3-4=-229/351, 4-5=0/48 BOT CHORD 2-6=-150/152, 4-6=-150/152

WEBS

3-6=-159/112

JOINT STRESS INDEX 2 = 0.68, 3 = 0.26, 4 = 0.68 and 6 = 0.08

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 2 and 257 lb uplift at joint 4.

Job Truss Truss Type Qty HBH - MONROE RES. L264772 T18G **GABLE** 1 Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jan 10 19:50:39 2008 Page 1 Builders FirstSource, Lake City, FI 32055 -2-0-0 4-0-0 8-0-0 10-0-0 2-0-0 4-0-0 4-0-0 2-0-0 Scale = 1:19.4 6.00 12 3x6 > 3x6 > ST1 0-4-3 0-4-3 B1 5x8 II 2x4 || 3x6 = 8-0-0 8-0-0 Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-8,Edge], [6:0-3-8,Edge], [6:0-0-8,Edge] LOADING (psf) SPACING 2-0-0 DEFL 1/defl **PLATES** TCLL TC BC 20.0 -0.01 120 244/190 Vert(LL) n/r MT20 7.0 0.06 -0.02 0.00 Lumber Increase 1.25 Vert(TL) n/r 90 Rep Stress Incr YES Code FBC2004/TPI2002 10.0 WB 0.04 Horz(TL) n/a n/a BCDL (Matrix) Weight: 37 lb BRACING TOP CHORD LUMBER

REACTIONS (lb/size) 2=229/8-0-0, 6=229/8-0-0, 8=270/8-0-0

Max Horz 2=62(load case 7) Max Uplift2=-206(load case 6), 6=-215(load case 7), 8=-58(load case 6) Max Grav 2=239(load case 10), 6=239(load case 11), 8=270(load case 1)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-10/33, 3-4=0/85, 4-5=0/85, 5-6=-10/33, 6-7=0/47
BOT CHORD 2-8=-38/95, 6-8=-38/95

WEBS 4-8=-226/126

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2 OTHERS 2 X 4 SYP No.3

JOINT STRESS INDEX

2 = 0.41, 2 = 0.00, 3 = 0.00, 3 = 0.22, 4 = 0.28, 5 = 0.00, 5 = 0.22, 6 = 0.41, 6 = 0.00 and 8 = 0.08

NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-02; 17lmph (3-second gust), h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"

4) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

BOT CHORD

Structural wood sheathing directly applied or 8-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

5) Gable requires continuous bottom chord bearing.6) Gable studs spaced at 2-0-0 oc.

- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 2, 215 lb uplift at joint 6 and 58 lb uplift at

Butler HVAC Load Calculations

for

House Craft Homes 12501 N.W U.S HWY 441 Alachua FI 32615



RHVAC RESIDENTIAL HVAC LOADS

Prepared By:

Chuck Fischer
North Central Florida Air Conditioning I
P. O. Box 700
High Springs Fl 32655-0700
(386) 454-4767
Wednesday, January 09, 2008

Rhvac - Residential & Light Commercial HVAC Loads

North Central Florida A/C Inc

High Springs, FL 32643



Elite Software Development, Inc. Butler Page 2

Project Report

General Project Information

Project Title:

Butler

Designed By:

Chuck Fischer

Project Date:

Monday, January 07, 2008

Client Name:

House Craft Homes

Client Address:

12501 N.W U.S HWY 441

Client City:

Alachua FI 32615

Client Phone:

386-462-5323

Client Fax:

Company Name:

386-462-1509

Company Representative:

North Central Florida Air Conditioning I Chuck Fischer

Company Address:

P. O. Box 700

Company City:

High Springs FI 32655-0700

Company Phone:

(386) 454-4767

Company Fax:

(386) 454-4854

Company Comment:

heat load for addition

Design Data

Reference City:

Gainesville, Florida

Daily Temperature Range:

Medium

Latitude:

29 Degrees

Elevation:

152 ft.

Altitude Factor:

0.995

Elevation Sensible Adi. Factor:

Elevation Total Adj. Factor:

1.000

Elevation Heating Adj. Factor:

1.000

Elevation Heating Adj. Factor:

1.000 1.000

0

Outdoor Outdoor Wet Bulb Indoor Grains

Dry Bulb 31

Indoor Rel.Hum

Dry Bulb

Difference

Winter:

50

72

38

Summer:

93 77 50

75

50

Check Figures

Total Building Supply CFM:

1,179

CFM Per Square ft.:

0.720

Square ft. of Room Area:

1,636

Square ft. Per Ton:

Volume (ft3) of Cond. Space:

15.986

Air Turnover Rate (per hour):

586 4.4

Building Loads

Total Heating Required With Outside Air:

Total Sensible Gain:

40,246 Btuh

40.246 MBH

25,789 Btuh

84 %

Total Latent Gain: Total Cooling Required With Outside Air:

4,758 Btuh 30,547 Btuh

16 %

2.55 Tons (Based On Sensible + Latent)

2.79 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads.

Rhvac - Residential & Light Commercial HVAC Loads North Central Florida A/C Inc



Elite Software Development, Inc. Butler

High Springs, FL 32643									Page 3
Load Preview R	eport								
		Sens	Lat	Net	Sens	Win	Sum	Sys	Duct
Scope	Area	Gain	Gain	Gain	Loss	CFM	CFM	CFM	Size
Building: 2.55 Net Tons	, 2.79 Rece	ommended T	ons, 586 ft	.2/Ton, 40.2	5 MBH Hea	ting			
Building	1,636	25,789	4,758	30,547	40,246	526	1,179	1,179	
System 1: 2.55 Net Ton	s, 2.79 Re	commended	Tons, 586	ft.2/Ton, 40	.25 MBH He	ating			
System 1	1,636	25,789	4,758	30,547	40,246	526	1,179	1,179	15x15
AED Excursion		93		93					
Zone 1	1,636	25,696	4,758	30,454	40,246	526	1,179	1,179	
1-Bedroom 3	196	3,186	778	3,964	6,142	80	146	146	1-7
2-Bath 2	60	1,345	108	1,453	1,256	16	62	62	1-5
3-Bedroom 2	230	3,331	796	4,127	6,354	83	153	153	1-7
4-Great Room	321	5,020	605	5,625	7,969	104	230	230	2-6
5-Dining Room	257	3,193	493	3,686	5,306	69	146	146	1-7
6-Kitchen	144	3,379	494	3,873	2,203	29	155	155	1-7
7-Master Bath	113	1,918	417	2,335	4,002	52	88	88	1-5
8-Master Bedroom	238	3,952	1,067	5,019	6,800	89	181	181	1-8
9-Master W.I.C	41	338	0	338	107	1	15	15	1-2
10-Hall	36	31	0	31	107	1	1	1	1-1

Rhvac - Residential & Light Commercial HVAC Loads North Central Florida A/C Inc High Springs, FL 32643					Elite So	ftware Develo	pment, Inc Butle Page 4
Total Building Summary Loads							
Component		Area		Sen	Lat	Sen	Tota
Description		Quan		Loss	Gain	Gain	Gair
ID-cb-o: Glazing-Double pane, operable window, of metal frame with break, ground reflectance = 0 outdoor insect screen with 50% coverage, extended screen coefficient of 0.45 and 50% coverage.	0.23, ernal	129.6		3,453	0	3,605	3,605
0B-m: Glazing-French door, double pane clear glametal frame no break, ground reflectance = 0.2	ass,	40.8		2,426	0	2,447	2,447
1P: Door-Polyurethane Core		39.4		469	0	332	332
3A-4ocs: Wall-Block, board insulation only, R-4 be insulation, open core, siding finish	oard	1095.6		6,426	0	2,867	2,867
2B-3sw: Wall-Frame, R-11 insulation in 2 x 4 stude cavity, R-3 board insulation, siding finish, wood		169		547	0	300	300
I6DR-30: Roof/Ceiling-Under attic or knee wall, Ve Attic with Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar a Gravel Membrane, R-30 insulation	250		330	0	260	260	
22A-ph: Floor-Slab on grade, No edge insulation, n insulation below floor, any floor cover, passive, moist soil		164		9,132	0	0	
Subtotals for structure:		-	2	22,783	0	9,811	9,811
People:		5			1,150	1,500	2,65
Equipment:		4005			0	1,200	1,20
Lighting:		1995		0 707		6,803	6,80
Ductwork:				6,707	0	4,282	4,28
Infiltration: Winter CFM: 240, Summer CFM: 107			1	10,756	3,608	2,100	5,70
Ventilation: Winter CFM: 0, Summer CFM: 0				0	0	0	_
AED Excursion: Total Building Load Totals:			4	0 10,246	0 4,758	93 25,789	30,54
				0,210		20,100	00,0
Check Figures		CI	TM Do	- Causero f		0	720
Total Building Supply CFM: 1,179 Square ft. of Room Area: 1,636		CFM Per Square ft.:				720 586	
Volume (ft³) of Cond. Space: 15,986		Square ft. Per Ton: Air Turnover Rate (per hour):				4.4	
Building Loads							
	40,246	Btuh 40	0.246	MBH			
	25,789		84				
Total Latent Gain:	4,758		16				
	30,547				sed On Sens	ible + Latent	Ð
		D COIII	2.00			ibio - Latoili	•/

Notes

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary. Be sure to select a unit that meets both sensible and latent loads.

Rhvac - Residential & Light Commercial HVAC Loads
North Central Florida A/C Inc
High Springs, FL 32643



Clite Software Development, Inc. Butler Page 5

Component	Area	Sen	Lat	Sen	Total
Description	Quan	Loss	Gain	Gain	Gain
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, external shade screen coefficient of 0.45 and 50% coverage	129 6	3,453	U	d _, bUb	3,503
10B-m: Glazing-French door, double pane clear glass, metal frame no break, ground reflectance = 0.23	40.8	2,426	Ū	2,447	2,447
11P: Door-Polyurethane Core	39.4	469	0	332	332
13A-4ocs: Wall-Block, board insulation only, R-4 board insulation, open core, siding finish	1095.6	6,426	£3	2,867	2,867
12B-3sw: Wall-Frame, R-11 insulation in 2 x 4 stud cavity, R-3 board insulation, siding finish, wood studs	169	547	0	300	300
16DR-30: Roof/Ceiling-Under attic or knee wall, Vented Attic with Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel Membrane, R-30 insulation	250	330	U	260	260
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	164	9,132	0	0	0
Subtotals for structure:		22,783	0	9,811	9,811
People:	5		1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	1995			6,803	6,803
Ductwork:		6,707	0	4,282	4,282
Infiltration: Winter CFM: 240, Summer CFM: 107		10,756	3,608	2,100	5,708
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
		0	0	93	93
AED Excursion:					1000000

Check Figures			
Supply CFM:	1,179	CFM Per Square ft.:	0.720
Square ft. of Room Area:	1,636	Square ft. Per Ton:	586
Volume (ft3) of Cond. Space:	15,986	Air Turnover Rate (per hour):	4.4

System Loads				
Total Heating Required With Outside Air:	40,246	Btuh	40.246	MBH
Total Sensible Gain:	25,789	Btuh	84	%
Total Latent Gain:	4.758	Btuh	16	%

Total Cooling Required With Outside Air: 30,547 Btuh 2.55 Tons (Based On Sensible + Latent)

2.79 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads.



Elite Software Development, Inc. Butler

High Springs, Ft. 32643	Antonial and Investor law shorests					Page 6
System 1, Zone 1 Sumi	mary Loads (Ave	rage Load	l Procedui	re for Ro	oms)	
Component		Area	Sen	Lat	Sen	Tota
Description		Quan	Loss	Guin	Gain	Gii
1D-cb-o: Glazing-Double pane, ope metal frame with break, ground outdoor insect screen with 50% shade screen coefficient of 0.4	reflectance = 0.23, coverage, external	129.6	3,453	0	3,605	3,605
10B-m: Glazing-French door, double metal frame no break, ground r		40.8	2,426	O	2,447	2,447
11P: Door-Polyurethane Core		39.4	469	0	332	332
13A-4ocs: Wall-Block, board insula insulation, open core, siding fin	1095.6	6,426	0	2,867	2,867	
12B-3sw: Wall-Frame, R-11 insulat cavity, R-3 board insulation, sic	169	547	0	300	300	
16DR-30: Roof/Ceiling-Under attic Attic with Radiant Barrier, Whit Shingles, Any Wood Shake, Lig Gravel Membrane, R-30 insula	250	330	0	260	260	
22A-ph: Floor-Slab on grade, No ed insulation below floor, any floor moist soil		164	9,132	0	0	C
Subtotals for structure:			22,783	0	9,811	9,811
People:		5		1,150	1,500	2,650
Equipment:				0	1,200	1,200
Lighting:		1995			6,803	6,803
Ductwork:			6,707	0	4,282	4,282
Infiltration: Winter CFM: 240, Sum	mer CFM: 107		10,756	3,608	2,100	5,708
System 1, Zone 1 Load Totals:			40,246	4,758	25,696	30,454
Check Figures						
Supply CFM:	1,179		M Per Square			720
Square ft. of Room Area: 1,636			ıare ft. Per Tor			588
Volume (ft³) of Cond. Space:	15,986	Air '	Turnover Rate	(per hour):		4.4
Zone Loads						
Total Heating Required:	40,246	Btuh 40.	246 MBH			
Total Sensible Gain:	25,696	Btuh	84 %			
Total Latent Gain:	4,758	Btuh	16 %			
T (10 " D ' 1	00 454 1	D	S E 4 E 7 / C	100		

30,454 Btuh

Notes

Total Cooling Required:

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads.

2.54 Tons (Based On Sensible + Latent)

2.78 Tons (Based On 77% Sensible Capacity)

Rhvac - Residential & Light Commercial HVAC Loads	Elite Software Development, Inc.
North Central Florida A/C Inc	Butler
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10 10 10	Hose Was Williams		Htg	Htg	Run	Run	Clg	Clg	Clg	Air
	Room	Area	Sens	Nom	Duct	Duct	Sens	Lat	Nom	Sys
No	Name	SF	Btuh	CFM	Size	Vel	Btuh	Btuh	CFM	CFM
Zo	ne 1									
1	Bedroom 3	196	6,142	80	1-7	547	3,186	778	146	146
2	Bath 2	60	1,256	16	1-5	453	1,345	108	62	62
3	Bedroom 2	230	6,354	83	1-7	572	3,331	796	153	153
4	Great Room	321	7,969	104	2-6	586	5,020	605	230	230
5	Dining Room	257	5,306	69	1-7	548	3,193	493	146	146
6	Kitchen	144	2,203	29	1-7	580	3,379	494	155	155
7	Master Bath	113	4,002	52	1-5	645	1,918	417	88	88
8	Master Bedroom	238	6,800	89	1-8	519	3,952	1,067	181	181
9	Master W.I.C	41	107	1	1-2	710	338	0	15	15
10		36	107	1	1-1	261	31	0	1	1
	AED Excursion						93			
	System 1 total	1,636	40,246	526			25,789	4,758	1,179	1,179

System 1 Main Trunk Size: Velocity:

15x15 in. 844 ft./min

Loss per 100 ft.:

0.087 in.wg

Cooling System Summary						
	Cooling	Sensible/Latent	Sensible	Latent	Total	
	Tons	Split	Btuh	Btuh	Btuh	
Net Required:	2.55	84% / 16%	25,789	4,758	30,547	
Recommended:	2.79	77% / 23%	25,789	7,703	33,492	
Actual:	2.92	76% / 24%	26,500	8,500	35,000	

Equipment Data		
A	Heating System	Cooling System
Type:	air source heat pump	Air Source Heat Pump
Model:	GSH130361+ARUF364216+HKR-10	GSH130361+ARUF364216
Brand:	Goodman	Goodman
Efficiency:	7.7 HSPF	13 seer
Sound:	0	
Capacity:	32000	35000
Sensible Capacity:	n/a	26,500 Btuh
Latent Capacity:	n/a	8,500 Btuh

