

Richards Permit # 31284 73

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: IUYE013-Z0201062215



Truss Fabricator: **DJ Trusses Unlimited**
Job Identification: **T13-540-/BLISS ENTERPRISES /Columbia House -- , ****
Truss Count: **3**
Model Code: **Florida Building Code 2010**
Truss Criteria: **FBC2010Res/TPI-2007(STD)**
Engineering Software: **Alpine Software, Versions 13.01, 12.03.**
Structural Engineer of Record: **The identity of the structural EQR did not exist as of the seal date per section 61615-31.003(5a) of the FAC**
Address:
Minimum Design Loads: **Roof - 37.0 PSF @ 1.25 Duration**
Floor - 55.0 PSF @ 1.00 Duration
Wind - 150 MPH ASCE 7-10 -Closed

Notes:

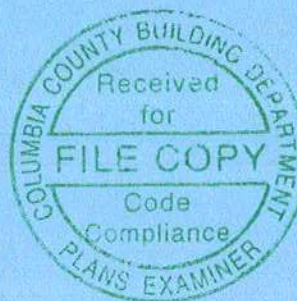
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR013

Details: STRBRIBR-

Walter P. Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	92363--F01		13213001	08/01/13
2	92364--A03		13213002	08/01/13
3	92365--A01		13213003	08/01/13



Top chord	4x2	SP_#2	12A
Bot chord	4x2	SP_#2	12A
Webbs	4x2	SP_#3	12A

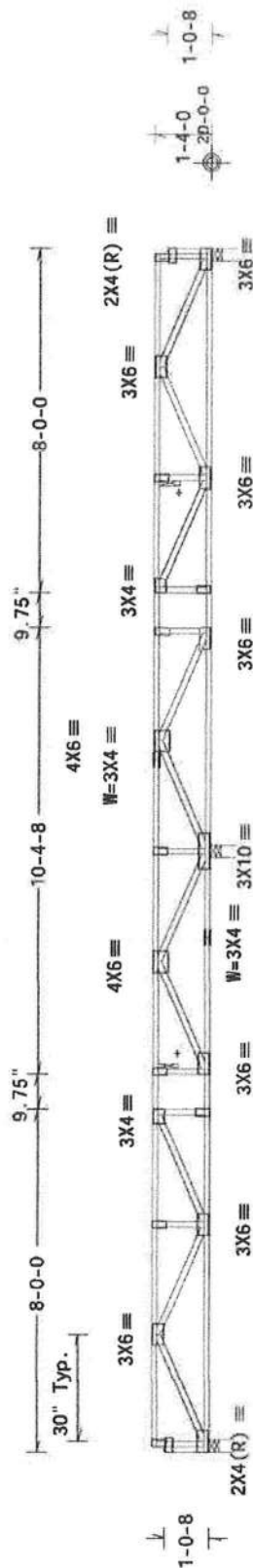
+ 2x6 continuous strongback. See detail STRBRIBR0211 for bracing and bridging recommendations.

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

Truss must be installed as shown with top chord up.

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

This design is based on lumber values in effect prior to June 1, 2013 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.



13-10-4

28-0-0 Over 3 Supports

R=703 W=3.5" (3.5" min.)

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007 (ST)

PLT TYP. Wave

FL/-/1/-/-/R/-/-

Scale = 25"/Ft.

TC LL	40.0 PSF	REF R013-- 92363
TC DL	10.0 PSF	DATE 08/01/13
BC DL	5.0 PSF	DRW HCUSR013 13213001
BC LL	0.0 PSF	HC-ENG AP/AP
TOT.LD.	55.0 PSF	SEQN- 122545
DUR.FAC.	1.00	FROM DRS
SPACING	24.0"	JREF- 1UYE013 Z02

08/01/2013

ITW Building Components Group Inc.

Order# 37837

FL COA #0 278

(T13-540-/BLISS ENTERPRISES /Columbia House -- , ** - A03)

Top chord 2x4 SP 12 12A
Bot chord 2x4 SP 12 12A
Webs 2x4 SP 12 12A

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

This design is based on lumber values in effect prior to June 1, 2013 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

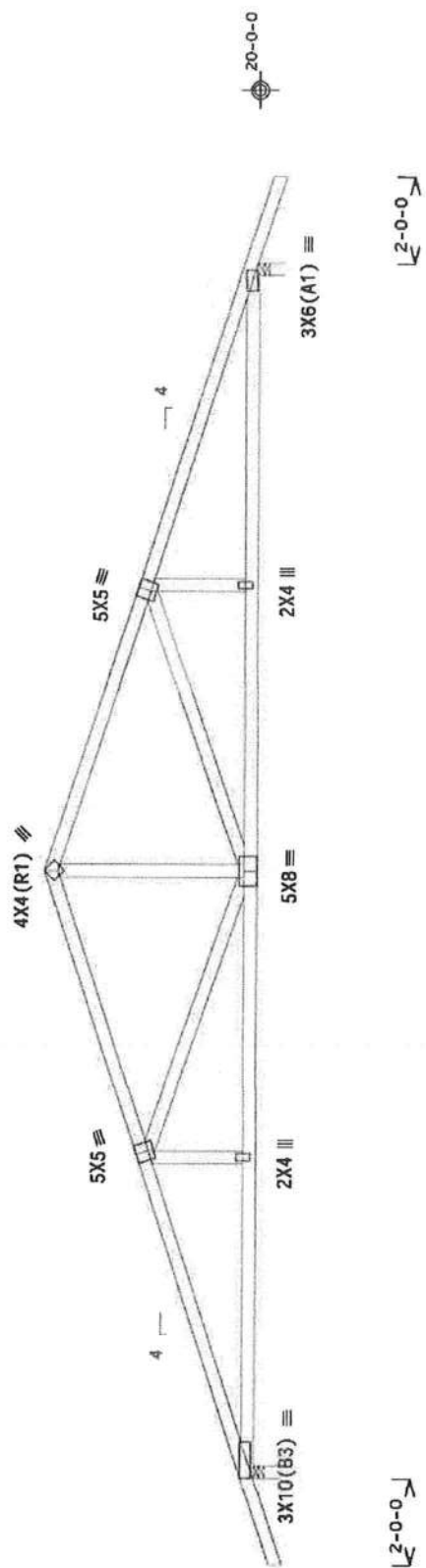
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

150 mph wind, 22.33 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3.0 psf, wind BC DL=1.2 psf, GCP(+/-)=0.18

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

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

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



14'-0'-0
28'-0'-0 Over 2 Supports
14'-0'-0
12'-0'-0
R=1165 U=522 W=3.5" (3.5" min.)
RL=97/-97
R=1165 U=522 W=3.5" (3.5" min.)

PLT TYP. Wave

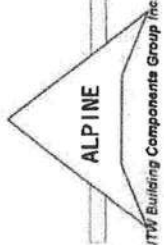
Design Crit: FBC2010Res/TP1-2007(ST)
FT/RT=0%(0%)/10(0)

No. 22839

Scale = .25"/Ft.

TC LL	20.0 PSF	REF	R013--	92364
TC DL	7.0 PSF	DATE	08/01/13	
BC DL	10.0 PSF	DRW	HCURO13	13213002
BC LL	0.0 PSF	HC-ENG	AP/AP	
TOT. LD.	37.0 PSF	SEQN-	91173	
DUR. FAC.	1.25	FROM	DRS	
SPACING	24.0"	JREF-	1UYE013	Z02

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BC51 (Building Component Safety Information, by TPI and WTCA) for instructions prior to performing these functions. Installers shall provide temporary bracing per the instructions on the drawings. Trusses shall be installed in accordance with the instructions on the drawings. Trusses shall have a promptly attached rigid onling. Locations shown for permanent bracing shall be followed. (Consult local building codes for any deviations from this design.)
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal on this drawing and cover page listing this drawing, indicates acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information see the general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpi.net; WTCA: www.wtcaindustry.com; ICC: www.iccorg.org



ITW Building Components Group Inc.
Orlando FL 32837
FL COA #0 278

Top chord 2x4 SP #1 12A 12. T3 2x4 SP #2 12A
Bot chord 2x4 SP #1 12A
Webs 2x4 SP #3 12A

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

This design is based on lumber values in effect prior to June 1, 2013 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

Calculated vertical deflection is 0.51" due to live load and 0.64" due to dead load at X = 14'-0".

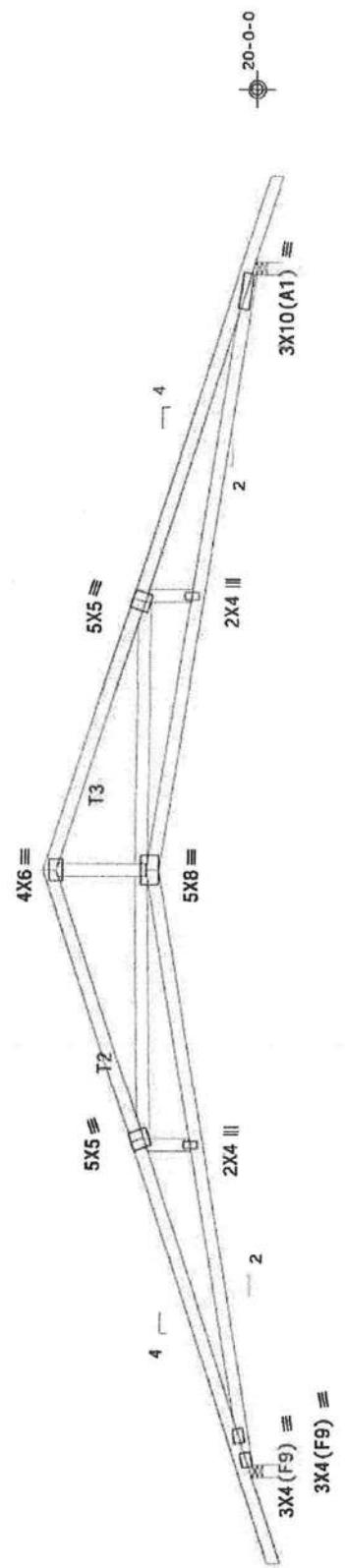
150 mph wind, 22.33 ft mean hgt, ASCE 7-10, CLOSED bldg. Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3.0 psf, wind BC DL=1.2 psf, GCF(+/-)=0.18

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

Calculated horizontal deflection is 0.25" due to live load and 0.31" due to dead load.

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

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



14'-0" 28'-0" Over 2 Supports 2'-0" 2'-0"

R=1166 U=521 W=3.5" (3.5" min.)

R=1166 U=521 W=3.5" (3.5" min.)

PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STR)
FT/RT=0%(0%)/10(0)

Scale = .25"/Ft.

ALPINE

ITW Building Components Group Inc.
Orlando FL 32837
FL COA #0 278

IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in repacking, handling, shipping, installing and bracing. No
follow the latest edition of BCSI (Building Component Safety Information) by TPI and WTCI for
details, unless noted otherwise. Refer to drawings 1004-2 for standard plate positions. A unit on this
shall have a properly attached rigid girding. Locations shown for permanent lateral bracing or
shall have bracing installed per BCSI, sections 83, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this unit's
any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installation a
bracing or trusses. Apply plates to each face of truss and position as shown above and on the joint.
Details, unless noted otherwise. Refer to drawings 1004-2 for standard plate positions. A unit on this
responsibility solely for the design shown. The suitability and use of this design for any structure is
the responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information see: This unit's
general notes page: ITW-BCSI: www.bcsi.com; TPI: www.tpi.net; WTCI: www.wtcigroup.com; This unit's
IC2: www.ic2.com



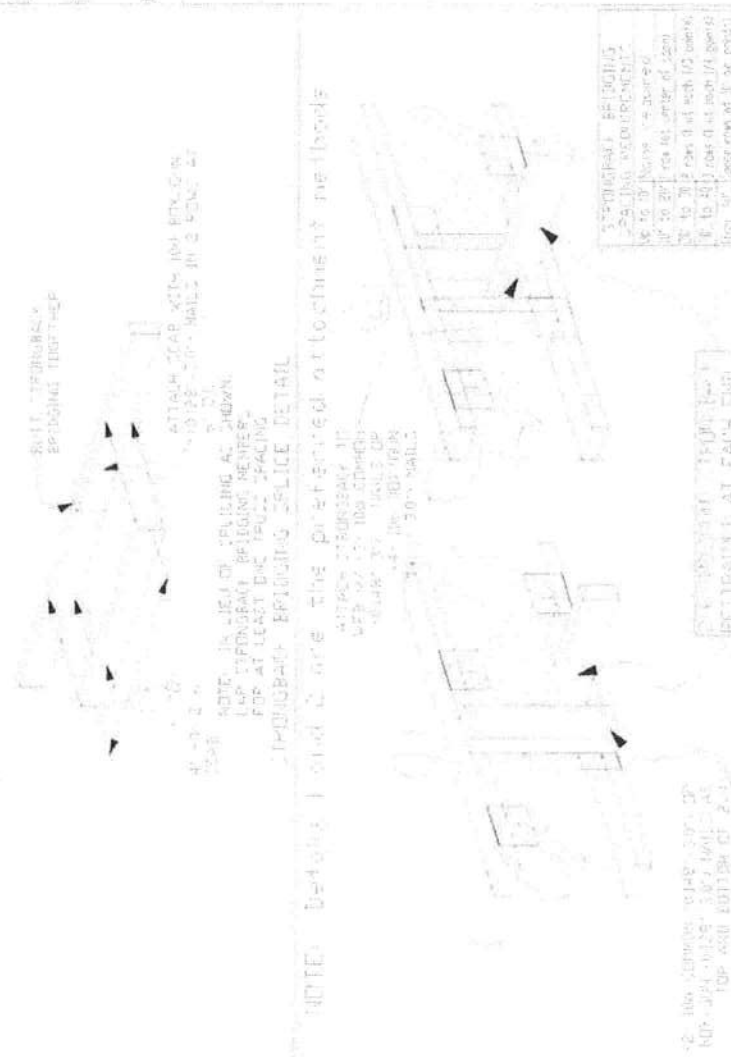
TC LL	20.0 PSF	REF	R013--	92365
TC DL	7.0 PSF	DATE	08/01/13	
BC DL	10.0 PSF	DRW	HCURO13 13213003	
BC LL	0.0 PSF	HC-ENG	AP/AP	
TOT. LD.	37.0 PSF	SEQN-	91191	
DUR. FAC.	1.25	FROM	DRS	
SPACING	24.0"	JREF-	1UYE013_Z02	

STRONGBACK BRIDGING RECOMMENDATIONS

- All scab-on blocks shall be "stress graded timber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded timber."
- The purpose of strongback bridging is to develop load sharing between individual trusses resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10'-0" on center.

The term "bridging and bracing" are commonly misinterpreted and often incorrectly applied. The term "bridging" refers to the system of members that transfer loads from one roof system to the other in the event of a roof system failure. The term "bracing" refers to the system of members that transfer loads from one roof system to the other in the event of a roof system failure. Strongback bridging is a type of bridging that is used to transfer loads from one roof system to the other in the event of a roof system failure. It is recommended that strongback bridging be installed at 10'-0" on center.

The performance of all strongback bridging and bracing shall be in accordance with the provisions of the International Building Code (IBC) and the provisions of the American Institute of Steel Construction (AISC). For additional information regarding strongback bridging, refer to BCI Building Corporation safety information.



STRONGBACK BRIDGING ATTACHMENT ALTERNATIVE

ATTACHMENT ALTERNATIVE 1: STRONGBACK BRIDGING ATTACHED TO TOP CHORD USING 3/4" DIA. BOLTS.

ATTACHMENT ALTERNATIVE 2: STRONGBACK BRIDGING ATTACHED TO TOP CHORD USING 3/4" DIA. BOLTS.

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

08/01/2013
Aug 01 '13

TW
Building Components Group Inc.

Earth City, MO 63045

For additional information regarding strongback bridging, refer to BCI Building Corporation safety information.

Richards 1307-30

Job: T13-540 / BLISS ENTERPRISES / Columbia House / F02

Top chord 2x4 SP #2, Dmax 12A
 End chord 2x4 SP #2, 12A
 Webs 2x4 SP #3, 12A

Lumber grades designated with "12A" use design values approved 10/2012 by ALSC.

THIS DWG. PREPARED BY THE ALPINE JOB DESIGNER PROGRAM FROM TRUSS MFRS. LAYOUT

See detail STUCCO-0000211 for bracing and bridging recommendations.

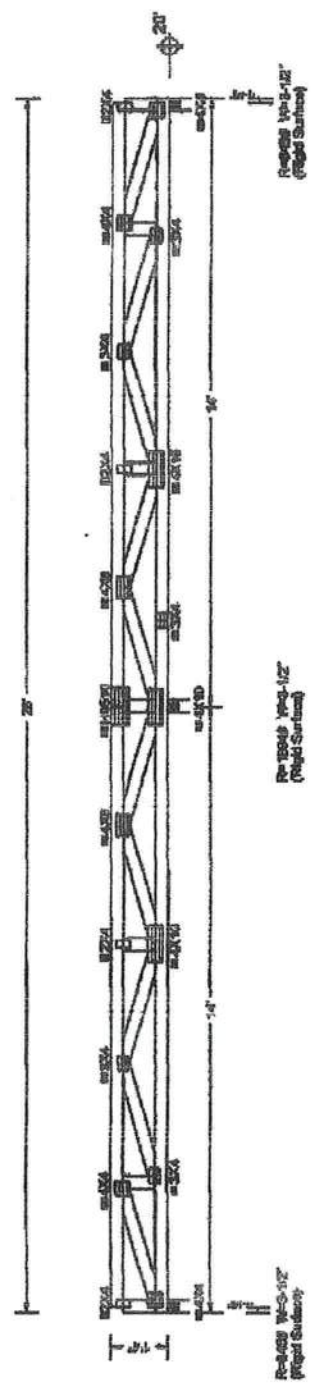
Soil-bore chord checked for 10.00 psf non-concentrated live load.

Call-out marks L2400 line and L2440 label line. Check increase factor for chord load to 1.20.

Truss must be installed as shown with top chord up.



"Copy"
 - UNSEALED -
 - 2 units -
 (17.26.13)
 (17.26.13)



PLT. TYP. - NONE



REVISIONS: 01/10/2013 (01/10/2013) F02 - 01/10/2013

QUANTITY = 35 TOTAL = 35

REV. 12.03.05.0416.17

SEO = 103308
 SCALE = 0.2500

REF	DATE	DRWG	DWG	CIA LEN	JOB #	TYPE
1	08-27-2013	DRWG	DRWG	28	T13-540	FLAT
2						
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Top chord 2x4 SP GR 12A
Bot chord 2x4 SP GR 12A
Web 2x4 SP GR 12A

Lumber grades designated with "2x" are design values approved (SDP12 by ALSC.

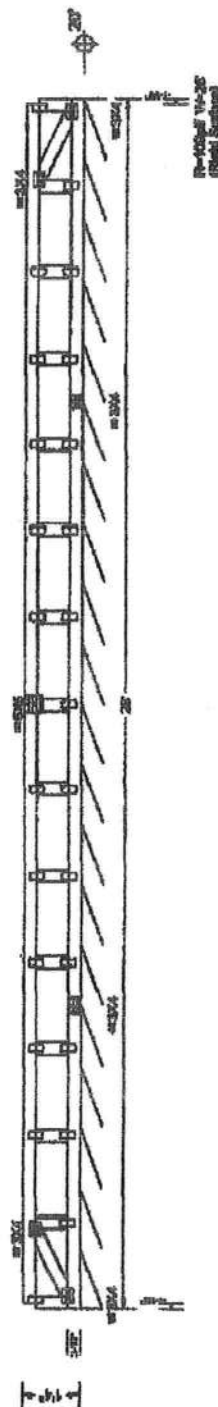
Towers must be modified or removed with top chord lap.

All prices are 21% except as noted.

See DWG GALLETIN0212 for more requirements.

Bottoms closed checked by 10.00 pm non-concurrent Run load

Deflection mainly L500 live and L240 total load. Creep increases factor for dead load to 1.50.



PLT, TYP-WAVE



THE UNIVERSITY OF CHICAGO

REPAIRING THE CRACKS

[illegible]

BBQ = 103297
SALF = 02591

BBQ = 103297
SALF = 02591

BBQ = 103297
SALF = 02591

REF	
DATE	08-27-2013
DRWG	
	DP3
Q/A LEN	28
JOB #	T13-540
TYPE	GAB1

TC LL	40.0psf
TC DL	10.0psf
BC DL	5.0psf
BC LL	0.0psf
TOT.LL	55.0psf
DUR.FAC.	1.00
SPACING	24.0"

Job: T13-5409 BLISS ENTERPRISES Columbia House / A02

Top chord 2x4 SP #2, 22A
Bot chord 2x4 SP #2, 22A
Web 2x4 SP #2, 22ALumber grades designated with "12A" use design values approved 1/5/2012 by AISC.
See DWGS A16000ENC100212 & CBLLET100212 for more requirements.

Deflection meets L3RD live and L2ND total load. Creep increase factor for dead load is 1.0D.

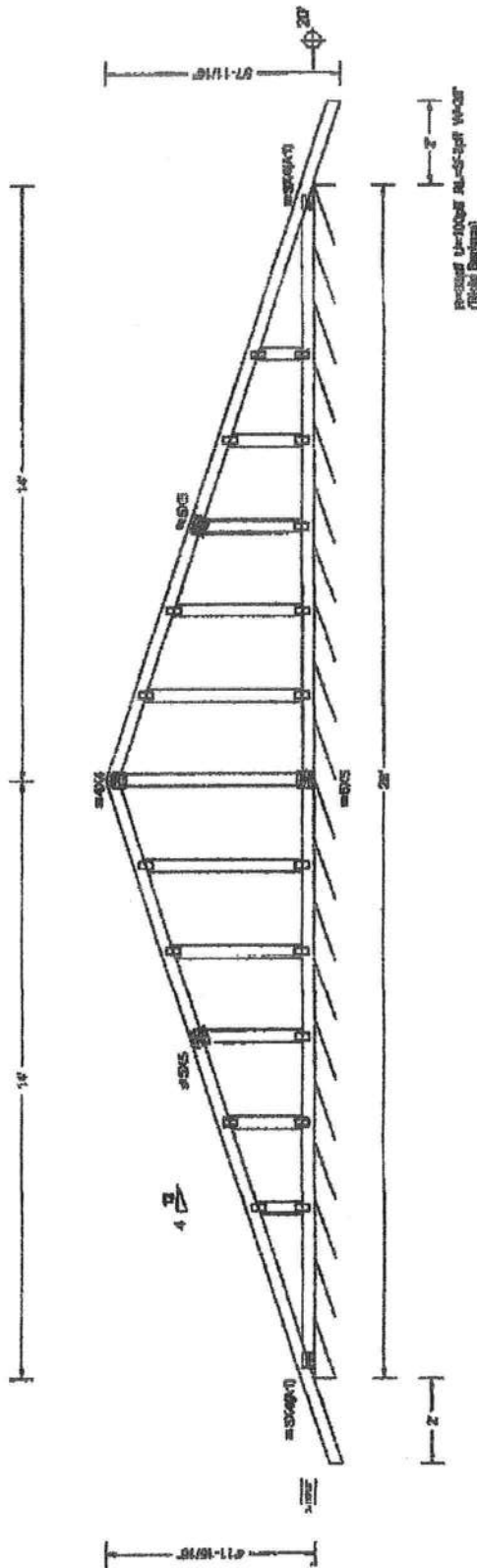
THIS DWG. PREPARED BY THE ALPINE JOB DESIGNER PROGRAM FROM TRUSS WEBS LAYOUT

All joints are 2x4 except as noted.

45D triple end, 22.23 ft main top, ASDC 2-10, CLOSED bldg. Located anywhere in roof. RISK CAT II, EXP B, wind TC EN-03.0
per wind BC BL-1.2 per GC&T-13-0.16

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

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



LEFT RAFT = 21-5/16"

P.L.T. TYP. RAFT

QTY = 3 TOTAL = 3

RIGHT RAFT = 21-5/16"

SEQ = 91180

SCALE = 0.2500

REV. 12.03.05.0416.17

DESIGNED BY: BLISS ENTERPRISES, INC. (SEE DWGS A16000ENC100212 & CBLLET100212)
 CHECKED BY: BLISS ENTERPRISES, INC. (SEE DWGS A16000ENC100212 & CBLLET100212)
 APPROVED BY: BLISS ENTERPRISES, INC. (SEE DWGS A16000ENC100212 & CBLLET100212)



BLISS ENTERPRISES, INC.
 216 Wharton Court Parkway
 Lubbock, TX 79401

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TC LL	20.0psf	REF
TC DL	7.0psf	DATE
BC DL	10.0psf	DRWG
BC LL	0.0psf	DRG
TOT.LD.	37.0psf	CHALN.
DUR.FAC.	1.25	JOB #
SPACING	24.0"	TYPE
		GABL

JOB(T13-540) BLISS ENTERPRISES / Columbia House / A01

Top chord 2nd SP #1, 12A, 12B, 12C, 12D, 12E, 12F, 12G, 12H, 12I, 12J, 12K, 12L, 12M, 12N, 12O, 12P, 12Q, 12R, 12S, 12T, 12U, 12V, 12W, 12X, 12Y, 12Z, 13A, 13B, 13C, 13D, 13E, 13F, 13G, 13H, 13I, 13J, 13K, 13L, 13M, 13N, 13O, 13P, 13Q, 13R, 13S, 13T, 13U, 13V, 13W, 13X, 13Y, 13Z, 14A, 14B, 14C, 14D, 14E, 14F, 14G, 14H, 14I, 14J, 14K, 14L, 14M, 14N, 14O, 14P, 14Q, 14R, 14S, 14T, 14U, 14V, 14W, 14X, 14Y, 14Z, 15A, 15B, 15C, 15D, 15E, 15F, 15G, 15H, 15I, 15J, 15K, 15L, 15M, 15N, 15O, 15P, 15Q, 15R, 15S, 15T, 15U, 15V, 15W, 15X, 15Y, 15Z, 16A, 16B, 16C, 16D, 16E, 16F, 16G, 16H, 16I, 16J, 16K, 16L, 16M, 16N, 16O, 16P, 16Q, 16R, 16S, 16T, 16U, 16V, 16W, 16X, 16Y, 16Z, 17A, 17B, 17C, 17D, 17E, 17F, 17G, 17H, 17I, 17J, 17K, 17L, 17M, 17N, 17O, 17P, 17Q, 17R, 17S, 17T, 17U, 17V, 17W, 17X, 17Y, 17Z, 18A, 18B, 18C, 18D, 18E, 18F, 18G, 18H, 18I, 18J, 18K, 18L, 18M, 18N, 18O, 18P, 18Q, 18R, 18S, 18T, 18U, 18V, 18W, 18X, 18Y, 18Z, 19A, 19B, 19C, 19D, 19E, 19F, 19G, 19H, 19I, 19J, 19K, 19L, 19M, 19N, 19O, 19P, 19Q, 19R, 19S, 19T, 19U, 19V, 19W, 19X, 19Y, 19Z, 20A, 20B, 20C, 20D, 20E, 20F, 20G, 20H, 20I, 20J, 20K, 20L, 20M, 20N, 20O, 20P, 20Q, 20R, 20S, 20T, 20U, 20V, 20W, 20X, 20Y, 20Z, 21A, 21B, 21C, 21D, 21E, 21F, 21G, 21H, 21I, 21J, 21K, 21L, 21M, 21N, 21O, 21P, 21Q, 21R, 21S, 21T, 21U, 21V, 21W, 21X, 21Y, 21Z, 22A, 22B, 22C, 22D, 22E, 22F, 22G, 22H, 22I, 22J, 22K, 22L, 22M, 22N, 22O, 22P, 22Q, 22R, 22S, 22T, 22U, 22V, 22W, 22X, 22Y, 22Z, 23A, 23B, 23C, 23D, 23E, 23F, 23G, 23H, 23I, 23J, 23K, 23L, 23M, 23N, 23O, 23P, 23Q, 23R, 23S, 23T, 23U, 23V, 23W, 23X, 23Y, 23Z, 24A, 24B, 24C, 24D, 24E, 24F, 24G, 24H, 24I, 24J, 24K, 24L, 24M, 24N, 24O, 24P, 24Q, 24R, 24S, 24T, 24U, 24V, 24W, 24X, 24Y, 24Z, 25A, 25B, 25C, 25D, 25E, 25F, 25G, 25H, 25I, 25J, 25K, 25L, 25M, 25N, 25O, 25P, 25Q, 25R, 25S, 25T, 25U, 25V, 25W, 25X, 25Y, 25Z, 26A, 26B, 26C, 26D, 26E, 26F, 26G, 26H, 26I, 26J, 26K, 26L, 26M, 26N, 26O, 26P, 26Q, 26R, 26S, 26T, 26U, 26V, 26W, 26X, 26Y, 26Z, 27A, 27B, 27C, 27D, 27E, 27F, 27G, 27H, 27I, 27J, 27K, 27L, 27M, 27N, 27O, 27P, 27Q, 27R, 27S, 27T, 27U, 27V, 27W, 27X, 27Y, 27Z, 28A, 28B, 28C, 28D, 28E, 28F, 28G, 28H, 28I, 28J, 28K, 28L, 28M, 28N, 28O, 28P, 28Q, 28R, 28S, 28T, 28U, 28V, 28W, 28X, 28Y, 28Z, 29A, 29B, 29C, 29D, 29E, 29F, 29G, 29H, 29I, 29J, 29K, 29L, 29M, 29N, 29O, 29P, 29Q, 29R, 29S, 29T, 29U, 29V, 29W, 29X, 29Y, 29Z, 30A, 30B, 30C, 30D, 30E, 30F, 30G, 30H, 30I, 30J, 30K, 30L, 30M, 30N, 30O, 30P, 30Q, 30R, 30S, 30T, 30U, 30V, 30W, 30X, 30Y, 30Z, 31A, 31B, 31C, 31D, 31E, 31F, 31G, 31H, 31I, 31J, 31K, 31L, 31M, 31N, 31O, 31P, 31Q, 31R, 31S, 31T, 31U, 31V, 31W, 31X, 31Y, 31Z, 32A, 32B, 32C, 32D, 32E, 32F, 32G, 32H, 32I, 32J, 32K, 32L, 32M, 32N, 32O, 32P, 32Q, 32R, 32S, 32T, 32U, 32V, 32W, 32X, 32Y, 32Z, 33A, 33B, 33C, 33D, 33E, 33F, 33G, 33H, 33I, 33J, 33K, 33L, 33M, 33N, 33O, 33P, 33Q, 33R, 33S, 33T, 33U, 33V, 33W, 33X, 33Y, 33Z, 34A, 34B, 34C, 34D, 34E, 34F, 34G, 34H, 34I, 34J, 34K, 34L, 34M, 34N, 34O, 34P, 34Q, 34R, 34S, 34T, 34U, 34V, 34W, 34X, 34Y, 34Z, 35A, 35B, 35C, 35D, 35E, 35F, 35G, 35H, 35I, 35J, 35K, 35L, 35M, 35N, 35O, 35P, 35Q, 35R, 35S, 35T, 35U, 35V, 35W, 35X, 35Y, 35Z, 36A, 36B, 36C, 36D, 36E, 36F, 36G, 36H, 36I, 36J, 36K, 36L, 36M, 36N, 36O, 36P, 36Q, 36R, 36S, 36T, 36U, 36V, 36W, 36X, 36Y, 36Z, 37A, 37B, 37C, 37D, 37E, 37F, 37G, 37H, 37I, 37J, 37K, 37L, 37M, 37N, 37O, 37P, 37Q, 37R, 37S, 37T, 37U, 37V, 37W, 37X, 37Y, 37Z, 38A, 38B, 38C, 38D, 38E, 38F, 38G, 38H, 38I, 38J, 38K, 38L, 38M, 38N, 38O, 38P, 38Q, 38R, 38S, 38T, 38U, 38V, 38W, 38X, 38Y, 38Z, 39A, 39B, 39C, 39D, 39E, 39F, 39G, 39H, 39I, 39J, 39K, 39L, 39M, 39N, 39O, 39P, 39Q, 39R, 39S, 39T, 39U, 39V, 39W, 39X, 39Y, 39Z, 40A, 40B, 40C, 40D, 40E, 40F, 40G, 40H, 40I, 40J, 40K, 40L, 40M, 40N, 40O, 40P, 40Q, 40R, 40S, 40T, 40U, 40V, 40W, 40X, 40Y, 40Z, 41A, 41B, 41C, 41D, 41E, 41F, 41G, 41H, 41I, 41J, 41K, 41L, 41M, 41N, 41O, 41P, 41Q, 41R, 41S, 41T, 41U, 41V, 41W, 41X, 41Y, 41Z, 42A, 42B, 42C, 42D, 42E, 42F, 42G, 42H, 42I, 42J, 42K, 42L, 42M, 42N, 42O, 42P, 42Q, 42R, 42S, 42T, 42U, 42V, 42W, 42X, 42Y, 42Z, 43A, 43B, 43C, 43D, 43E, 43F, 43G, 43H, 43I, 43J, 43K, 43L, 43M, 43N, 43O, 43P, 43Q, 43R, 43S, 43T, 43U, 43V, 43W, 43X, 43Y, 43Z, 44A, 44B, 44C, 44D, 44E, 44F, 44G, 44H, 44I, 44J, 44K, 44L, 44M, 44N, 44O, 44P, 44Q, 44R, 44S, 44T, 44U, 44V, 44W, 44X, 44Y, 44Z, 45A, 45B, 45C, 45D, 45E, 45F, 45G, 45H, 45I, 45J, 45K, 45L, 45M, 45N, 45O, 45P, 45Q, 45R, 45S, 45T, 45U, 45V, 45W, 45X, 45Y, 45Z, 46A, 46B, 46C, 46D, 46E, 46F, 46G, 46H, 46I, 46J, 46K, 46L, 46M, 46N, 46O, 46P, 46Q, 46R, 46S, 46T, 46U, 46V, 46W, 46X, 46Y, 46Z, 47A, 47B, 47C, 47D, 47E, 47F, 47G, 47H, 47I, 47J, 47K, 47L, 47M, 47N, 47O, 47P, 47Q, 47R, 47S, 47T, 47U, 47V, 47W, 47X, 47Y, 47Z, 48A, 48B, 48C, 48D, 48E, 48F, 48G, 48H, 48I, 48J, 48K, 48L, 48M, 48N, 48O, 48P, 48Q, 48R, 48S, 48T, 48U, 48V, 48W, 48X, 48Y, 48Z, 49A, 49B, 49C, 49D, 49E, 49F, 49G, 49H, 49I, 49J, 49K, 49L, 49M, 49N, 49O, 49P, 49Q, 49R, 49S, 49T, 49U, 49V, 49W, 49X, 49Y, 49Z, 50A, 50B, 50C, 50D, 50E, 50F, 50G, 50H, 50I, 50J, 50K, 50L, 50M, 50N, 50O, 50P, 50Q, 50R, 50S, 50T, 50U, 50V, 50W, 50X, 50Y, 50Z, 51A, 51B, 51C, 51D, 51E, 51F, 51G, 51H, 51I, 51J, 51K, 51L, 51M, 51N, 51O, 51P, 51Q, 51R, 51S, 51T, 51U, 51V, 51W, 51X, 51Y, 51Z, 52A, 52B, 52C, 52D, 52E, 52F, 52G, 52H, 52I, 52J, 52K, 52L, 52M, 52N, 52O, 52P, 52Q, 52R, 52S, 52T, 52U, 52V, 52W, 52X, 52Y, 52Z, 53A, 53B, 53C, 53D, 53E, 53F, 53G, 53H, 53I, 53J, 53K, 53L, 53M, 53N, 53O, 53P, 53Q, 53R, 53S, 53T, 53U, 53V, 53W, 53X, 53Y, 53Z, 54A, 54B, 54C, 54D, 54E, 54F, 54G, 54H, 54I, 54J, 54K, 54L, 54M, 54N, 54O, 54P, 54Q, 54R, 54S, 54T, 54U, 54V, 54W, 54X, 54Y, 54Z, 55A, 55B, 55C, 55D, 55E, 55F, 55G, 55H, 55I, 55J, 55K, 55L, 55M, 55N, 55O, 55P, 55Q, 55R, 55S, 55T, 55U, 55V, 55W, 55X, 55Y, 55Z, 56A, 56B, 56C, 56D, 56E, 56F, 56G, 56H, 56I, 56J, 56K, 56L, 56M, 56N, 56O, 56P, 56Q, 56R, 56S, 56T, 56U, 56V, 56W, 56X, 56Y, 56Z, 57A, 57B, 57C, 57D, 57E, 57F, 57G, 57H, 57I, 57J, 57K, 57L, 57M, 57N, 57O, 57P, 57Q, 57R, 57S, 57T, 57U, 57V, 57W, 57X, 57Y, 57Z, 58A, 58B, 58C, 58D, 58E, 58F, 58G, 58H, 58I, 58J, 58K, 58L, 58M, 58N, 58O, 58P, 58Q, 58R, 58S, 58T, 58U, 58V, 58W, 58X, 58Y, 58Z, 59A, 59B, 59C, 59D, 59E, 59F, 59G, 59H, 59I, 59J, 59K, 59L, 59M, 59N, 59O, 59P, 59Q, 59R, 59S, 59T, 59U, 59V, 59W, 59X, 59Y, 59Z, 60A, 60B, 60C, 60D, 60E, 60F, 60G, 60H, 60I, 60J, 60K, 60L, 60M, 60N, 60O, 60P, 60Q, 60R, 60S, 60T, 60U, 60V, 60W, 60X, 60Y, 60Z, 61A, 61B, 61C, 61D, 61E, 61F, 61G, 61H, 61I, 61J, 61K, 61L, 61M, 61N, 61O, 61P, 61Q, 61R, 61S, 61T, 61U, 61V, 61W, 61X, 61Y, 61Z, 62A, 62B, 62C, 62D, 62E, 62F, 62G, 62H, 62I, 62J, 62K, 62L, 62M, 62N, 62O, 62P, 62Q, 62R, 62S, 62T, 62U, 62V, 62W, 62X, 62Y, 62Z, 63A, 63B, 63C, 63D, 63E, 63F, 63G, 63H, 63I, 63J, 63K, 63L, 63M, 63N, 63O, 63P, 63Q, 63R, 63S, 63T, 63U, 63V, 63W, 63X, 63Y, 63Z, 64A, 64B, 64C, 64D, 64E, 64F, 64G, 64H, 64I, 64J, 64K, 64L, 64M, 64N, 64O, 64P, 64Q, 64R, 64S, 64T, 64U, 64V, 64W, 64X, 64Y, 64Z, 65A, 65B, 65C, 65D, 65E, 65F, 65G, 65H, 65I, 65J, 65K, 65L, 65M, 65N, 65O, 65P, 65Q, 65R, 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73K, 73L, 73M, 73N, 73O, 73P, 73Q, 73R, 73S, 73T, 73U, 73V, 73W, 73X, 73Y, 73Z, 74A, 74B, 74C, 74D, 74E, 74F, 74G, 74H, 74I, 74J, 74K, 74L, 74M, 74N, 74O, 74P, 74Q, 74R, 74S, 74T, 74U, 74V, 74W, 74X, 74Y, 74Z, 75A, 75B, 75C, 75D, 75E, 75F, 75G, 75H, 75I, 75J, 75K, 75L, 75M, 75N, 75O, 75P, 75Q, 75R, 75S, 75T, 75U, 75V, 75W, 75X, 75Y, 75Z, 76A, 76B, 76C, 76D, 76E, 76F, 76G, 76H, 76I, 76J, 76K, 76L, 76M, 76N, 76O, 76P, 76Q, 76R, 76S, 76T, 76U, 76V, 76W, 76X, 76Y, 76Z, 77A, 77B, 77C, 77D, 77E, 77F, 77G, 77H, 77I, 77J, 77K, 77L, 77M, 77N, 77O, 77P, 77Q, 77R, 77S, 77T, 77U, 77V, 77W, 77X, 77Y, 77Z, 78A, 78B, 78C, 78D, 78E, 78F, 78G, 78H, 78I, 78J, 78K, 78L, 78M, 78N, 78O, 78P, 78Q, 78R, 78S, 78T, 78U, 78V, 78W, 78X, 78Y, 78Z, 79A, 79B, 79C, 79D, 79E, 79F, 79G, 79H, 79I, 79J, 79K, 79L, 79M, 79N, 79O, 79P, 79Q, 79R, 79S, 79T, 79U, 79V, 79W, 79X, 79Y, 79Z, 80A, 80B, 80C, 80D, 80E, 80F, 80G, 80H, 80I, 80J, 80K, 80L, 80M, 80N, 80O, 80P, 80Q, 80R, 80S, 80T, 80U, 80V, 80W, 80X, 80Y, 80Z, 81A, 81B, 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Lumber grades designated with "12A" use design values approved 10/20/12 by ALSC.

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

Calculated vertical deflection is 0.57" due to live load and 0.65" due to dead load at X = 14'-0.0".

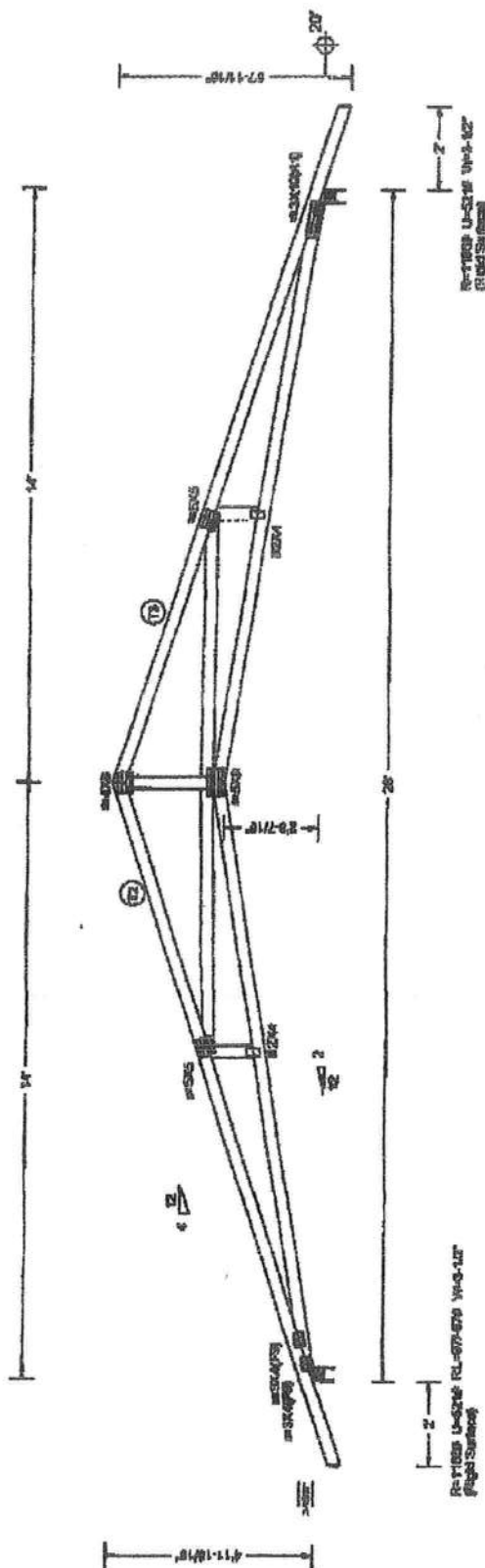
THIS DRG. PREPARED BY THE ALPINE JOB DESIGNER PROGRAM FROM TRUSS MEPS LAYOUT

150 mph wind, 22.39 ft mean height, ASCE 7-10, CLOSED bldg. Located anywhere in roof, RISK CAT II, EXP B, wind TC DL-0.0, psf, wind BC DL-1.2 psf, GCF(4)=0.18

Wind loads and reactions based on 10MPHS with additional C&C member design.

Calculated horizontal deflection is 0.25" due to live load and 0.31" due to dead load.

Deflection meets L200 live and L240 total load. Creep increases factor for dead load to 1.20.



Job: T13-5400 / BLISS ENTERPRISES / Columbia House / A03

Top chord 2x4 SP #2_12A
Bottom chord 2x4 SP #2_12A
Web 2x4 SP #3_12A

Lumber grades designated with "12A" use design values approved 1/15/2012 by AISC.

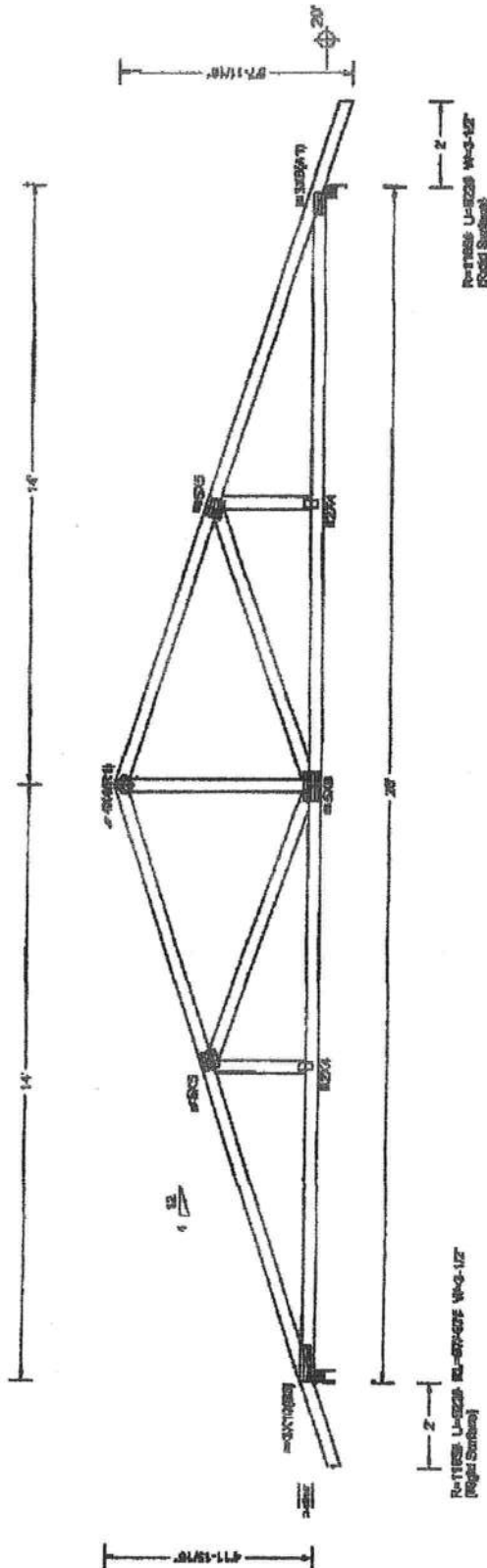
Collection made 1/20/00 Pile and 1/24/00 total load. Creep increase factor for dead load is 1.50.

THIS DRWG. PREPARED BY THE ALPINE JOB DESIGNER PROGRAM FROM TRUSS MAPS LAYOUT

150 mph Wind, 25.39 ft mean Mt. ASCE 7-10, CLOSED Mtg. Located anywhere in roof. RISE CAT II, EXP B, wind TC DL=3.0
psf, wind BC DL=1.2 psf, GC=1.2 psf, 10.15

Wind loads and reactions based on RIAFFRS with additional D+C member design.

Roofline chord checked for 10,000 psf non-concurrent live load.



LEFT RAKE = 21-5/16"

PLI, TYP. WAVE

DOING OFF-DESIGNED FOR THE FIELD - APPROXIMATE

QTY=25 TOTAL=25

REV. 12.03.05.D416.17

RIGHT RAKE = 21-5/16"

SEQ = 91173

SCALE = 1/2"=1'-0"

REF

DATE 05-08-2013

DRWG

ORIS

CIA LEN. 30

JOB # T13-540

TYPE COMM

REV. 12.03.05.D416.17

TC LL 20.0psf

TC DL 7.0psf

BC DL 10.0psf

BC LL 0.0psf

TOT.LD. 37.0psf

DUR.FAC. 1.25

SPACING 24.0"



D.J. TRUSSER UNLIMITED, INC.
2nd Western Center Parkway
Lakeland, FL 33810

NOTES: 1. ALL DIMENSIONS ARE IN FEET AND INCHES. 2. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE MEMBER. 3. ALL DIMENSIONS ARE TO THE OUTSIDE OF THE MEMBER. 4. ALL DIMENSIONS ARE TO THE INSIDE OF THE MEMBER. 5. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE MEMBER. 6. ALL DIMENSIONS ARE TO THE OUTSIDE OF THE MEMBER. 7. ALL DIMENSIONS ARE TO THE INSIDE OF THE MEMBER. 8. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE MEMBER. 9. ALL DIMENSIONS ARE TO THE OUTSIDE OF THE MEMBER. 10. ALL DIMENSIONS ARE TO THE INSIDE OF THE MEMBER. 11. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE MEMBER. 12. ALL DIMENSIONS ARE TO THE OUTSIDE OF THE MEMBER. 13. ALL DIMENSIONS ARE TO THE INSIDE OF THE MEMBER. 14. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE MEMBER. 15. ALL DIMENSIONS ARE TO THE OUTSIDE OF THE MEMBER. 16. ALL DIMENSIONS ARE TO THE INSIDE OF THE MEMBER. 17. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE MEMBER. 18. ALL DIMENSIONS ARE TO THE OUTSIDE OF THE MEMBER. 19. 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PROJECT

Title:	Beth Richards House	Bedrooms:	2	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2352	Lot #	
Owner:	Beth Richards	Total Stories:	2	Block/SubDivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	TBD	Rotate Angle:	0	Street:	1618 Daisy Road SW
Permit Office:		Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Ft White , FL , 32308-
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Jacksonville	FL_JACKSONVILLE_INT	2	32	93	70	75	1281	49	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2352	20160

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	1st Floor	336	4032	No	0		1	Yes	Yes	Yes
2	2nd Floor	2016	16128	Yes	2	2	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	1st Floor	76 ft	0	336 ft²	----	0	0	1
_____	2	Floor Over Other Space	2nd Floor	----	----	336 ft²	30	0	0	1
_____	3	Raised Floor	2nd Floor	----	----	1680 ft²	30	0	0	1

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	2184 ft²	0 ft²	Medium	0.96	No	0.9	No	30	22.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Unvented	0	2016 ft²	N	N

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Beth Richards House
 Street: 1618 Daisy Road SW
 City, State, Zip: Ft White, FL, 32308-
 Owner: Beth Richards
 Design Location: FL, Jacksonville

Builder Name: TBD
 Permit Office:
 Permit Number:
 Jurisdiction:

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	2
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft ²)	2352
Conditioned floor area below grade (ft ²)	0
7. Windows (189.0 sqft.)	Description Area
a. U-Factor:	Sgl, U=0.55 189.00 ft ²
SHGC:	SHGC=0.50
b. U-Factor:	N/A ft ²
SHGC:	
c. U-Factor:	N/A ft ²
SHGC:	
d. U-Factor:	N/A ft ²
SHGC:	
Area Weighted Average Overhang Depth:	12.730 ft.
Area Weighted Average SHGC:	0.500
8. Floor Types (2352.0 sqft.)	Insulation Area
a. Raised Floor	R=30.0 1680.00 ft ²
b. Floor Over Other Space	R=30.0 336.00 ft ²
c. other (see details)	R= 336.00 ft ²

9. Wall Types (2520.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=19.0 2520.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
10. Ceiling Types (2016.0 sqft.)	Insulation Area
a. Roof Deck (Unvented)	R=30.0 2016.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
11. Ducts	R ft ²
a. Sup: Attic, Ret: Attic, AH: Attic	6.4 470.4
12. Cooling systems	kBtu/hr Efficiency
a. Central Unit	36.0 SEER:13.00
13. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	5.0 HSPF:7.70
14. Hot water systems	
a. Electric Tankless	Cap: 1 gallons
b. Conservation features	EF: 1.065
None	
15. Credits	CF, CV, Pstat

Glass/Floor Area: 0.080

Total Proposed Modified Loads: 32.85
 Total Standard Reference Loads: 58.23

PASS

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

PREPARED BY: Robert KautzDATE: 7-19-13

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

OWNER/AGENT: _____

DATE: _____

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



BUILDING OFFICIAL: _____

DATE: _____

- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist
- Heat sys #1 may be undersized. Size of 5.0 was increased to 29.7 for simulation. Please review the Manual J8 report.

CEILING													
✓	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type						
✓	1	Under Attic (Unvented)	2nd Floor	30	2016 ft²	0.11	Wood						

WALLS															
✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width		Height		Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
							Ft	In	Ft	In					
✓	1	W	Exterior	Frame - Wood	1st Floor	19	24	2	12		290 ft²		0.23	0.75	0
✓	2	N	Exterior	Frame - Wood	1st Floor	19	14	2	12		170 ft²		0.23	0.75	0
✓	3	E	Exterior	Frame - Wood	1st Floor	19	24	2	12		290 ft²		0.23	0.75	0
✓	4	S	Exterior	Frame - Wood	1st Floor	19	14	2	12		170 ft²		0.23	0.75	0
✓	5	N	Exterior	Frame - Wood	2nd Floor	19	28		8		224 ft²		0.23	0.75	0
✓	6	E	Exterior	Frame - Wood	2nd Floor	19	72		8		576 ft²		0.23	0.75	0
✓	7	S	Exterior	Frame - Wood	2nd Floor	19	28		8		224 ft²		0.23	0.75	0
✓	8	E	Exterior	Frame - Wood	2nd Floor	19	72		8		576 ft²		0.23	0.75	0

DOORS											
✓	#	Ornt	Door Type	Space	Storms	U-Value	Width		Height		Area
							Ft	In	Ft	In	
✓	1	N	Wood	1st Floor	None	0.460000	3		8		24 ft²

WINDOWS													
Orientation shown is the entered, Proposed orientation.													
✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Area	Overhang		Int Shade	Screening
										Depth	Separation		
✓	1	N	5	Wood	Single (Tinted)	Yes	0.55	0.5	20 ft²	12 ft 0 in	2 ft 0 in	Drapes/blinds	None
✓	2	E	6	Wood	Single (Tinted)	Yes	0.55	0.5	45 ft²	14 ft 0 in	3 ft 0 in	Drapes/blinds	None
✓	3	E	6	Wood	Single (Tinted)	Yes	0.55	0.5	9 ft²	14 ft 0 in	3 ft 0 in	Drapes/blinds	None
✓	4	E	6	Metal	Single (Tinted)	Yes	0.55	0.5	20 ft²	14 ft 0 in	3 ft 0 in	Drapes/blinds	None
✓	5	S	7	Wood	Single (Tinted)	Yes	0.55	0.5	30 ft²	10 ft 0 in	3 ft 0 in	Drapes/blinds	None
✓	6	S	7	Wood	Single (Tinted)	Yes	0.55	0.5	20 ft²	10 ft 0 in	3 ft 0 in	Drapes/blinds	None
✓	7	E	8	Wood	Single (Tinted)	Yes	0.55	0.5	45 ft²	14 ft 0 in	3 ft 0 in	Drapes/blinds	None

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	0.000500	3084.6	169.34	318.47	0.4739	9.1805

HEATING SYSTEM							
✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
✓	1	Electric Heat Pump	None	HSPF: 7.7	5 kBtu/hr	1	sys#1

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit	Split	SEER: 13	36 kBtu/hr	1080 cfm	0.75	1	sys#1

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	Tankless	2nd Floor	0.98	1 gal	50 gal	120 deg	None

SOLAR HOT WATER SYSTEM

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

DUCTS

✓	#	--- Supply --- Location	R-Value	Area	--- Return --- Location	Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF	HVAC # Heat	Cool
✓	1	Attic	6.4	470.4 ft	Attic	10 ft²	Default Leakage	Attic	(Default)	(Default) %			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	☐ Jan	☐ Feb	☐ Mar	☐ Apr	☐ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☐ Oct	☐ Nov	☐ Dec
Heating	☒ Jan	☒ Feb	☒ Mar	☒ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ Nov	☒ Dec
Venting	☐ Jan	☐ Feb	☒ Mar	☒ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ Nov	☐ Dec

Thermostat Schedule: HERS 2006 Reference

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

Florida Code Compliance Checklist

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

ADDRESS: 1618 Daisy Road SW
Ft White, FL, 32308-

PERMIT #:

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 56

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

1618 Daisy Road SW, Ft White, FL, 32308-

1. New construction or existing	New (From Plans)	9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=19.0	2520.00 ft ²
3. Number of units, if multiple family	1	b. N/A	R=	ft ²
4. Number of Bedrooms	2	c. N/A	R=	ft ²
5. Is this a worst case?	No	d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	2352	10. Ceiling Types	Insulation	Area
7. Windows**	Description	a. Roof Deck (Unvented)	R=30.0	2016.00 ft ²
a. U-Factor:	Sgl, U=0.55	b. N/A	R=	ft ²
SHGC:	SHGC=0.50	c. N/A	R=	ft ²
b. U-Factor:	N/A	11. Ducts		R ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Attic	6.4	470.4
c. U-Factor:	N/A	12. Cooling systems	kBtu/hr	Efficiency
SHGC:		a. Central Unit	36.0	SEER:13.00
d. U-Factor:	N/A	13. Heating systems	kBtu/hr	Efficiency
SHGC:		a. Electric Heat Pump	5.0	HSPF:7.70
Area Weighted Average Overhang Depth:	12.730 ft.	14. Hot water systems		Cap: 1 gallons
Area Weighted Average SHGC:	0.500	a. Electric		EF: 0.98
8. Floor Types	Insulation	b. Conservation features		
a. Raised Floor	R=30.0	None		
b. Floor Over Other Space	R=30.0	15. Credits		CF, CV, Pstat
c. other (see details)	R=			

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

Builder Signature: _____ Date: _____

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



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Residential System Sizing Calculation

Summary

Beth Richards
1618 Daisy Road SW
Ft White, FL 32308-

Project Title:
Beth Richards House

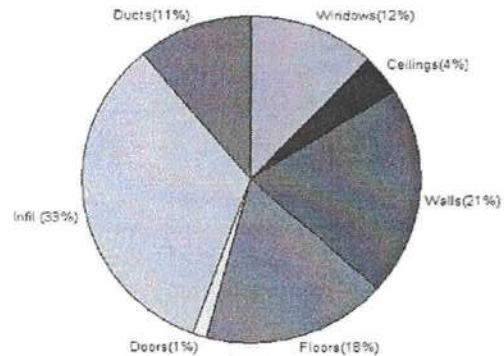
7/19/2013

Location for weather data: Jacksonville, FL - Defaults: Latitude(30.5) Altitude(30 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(53gr.)			
Winter design temperature(MJ8 99%)	32 F	Summer design temperature(MJ8 99%)	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	38 F	Summer temperature difference	18 F
Total heating load calculation		Total cooling load calculation	
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	15.4 5000	Sensible (SHR = 0.75)	174.4 27000
Heat Pump + Auxiliary(0.0kW)	15.4 5000	Latent	109.2 9000
		Total (Electric Heat Pump)	151.8 36000

WINTER CALCULATIONS

Winter Heating Load (for 2352 sqft)

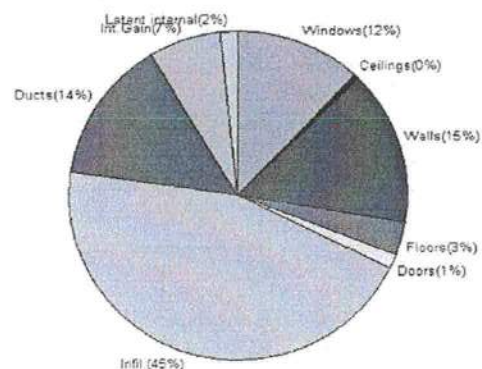
Load component		Load	
Window total	189 sqft	3950	Btuh
Wall total	2307 sqft	6774	Btuh
Door total	24 sqft	420	Btuh
Ceiling total	2016 sqft	1312	Btuh
Floor total	See detail report	5697	Btuh
Infiltration	255 cfm	10641	Btuh
Duct loss		3681	Btuh
Subtotal		32475	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		32475	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2352 sqft)

Load component		Load	
Window total	189 sqft	2839	Btuh
Wall total	2307 sqft	3637	Btuh
Door total	24 sqft	320	Btuh
Ceiling total	2016 sqft	104	Btuh
Floor total		783	Btuh
Infiltration	191 cfm	3780	Btuh
Internal gain		1660	Btuh
Duct gain		2356	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		15478	Btuh
Latent gain(ducts)		962	Btuh
Latent gain(infiltration)		6881	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		400	Btuh
Total latent gain		8243	Btuh
TOTAL HEAT GAIN		23722	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____