

Lumber

Top chord 2x4 SP 2400f-2.0E Bot chord 2x4 SP #2 Webs 2x4 SP #3

Hangers / Ties

(J) Hanger Support Required, by others

Additional Notes

Refer to General Notes for additional information Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is 2-0-0.



A-F

A - E

B-E

0 -681

0

1644

0 -773 E-C

C-D

1644

0 -681

n

#0-278 09/04/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI, Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached structural sheathing and bottom chord shall have a properly attached structural sheathing and bottom chord shall have a properly attached structural sheathing and bottom chord shall have a properly attached have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitabili and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.



For more information see this job's general notes page and these web sites. ALPINE, www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 567631 FROM: CDM

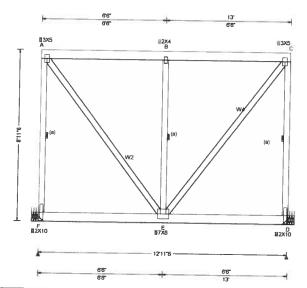
FLAT

Ply: 1 Qty: 1 Job Number: 19-3056

/Heldon Residence /ZECHER CONSTRUCTION

Truss Label: M01

Cust; R 215 JRef; 1WO82150004 T2 DrwNo: 247.19.1535.10417 09/04/2019



McBcLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " Mean Height: 17.95 ft TCDL: 5.0 psf BCDL: 5.0 psf BCDL: 5.0 psf WWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Missing Point Poin	TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	CDL: 5.0 psf //WFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft .oc. from endwall: not in 9.00 ft GCpi: 0.18	Bidg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s):	PP Deflection in loc L/defl L/s VERT(LL): 0.024 B 999 24 VERT(CL): 0.047 B 999 24 HORZ(LL): 0.002 A - HORZ(TL): 0.003 A - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.477
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▲ Maximum Reactions (lbs)						
	(3ravity		N	lon-Gra	vity
Loc	R+	/ R-	/ Ri	ı /Rw	/ U	ÍRL
F	1342	/-	/-	/-	/542	1-
D	1342	/-	/-	/-	/542	/-
Wind reactions based on MWFRS						
F	Brg \	Vidth:	= -	Min Re	eq = -	
D	Brg V	Vidth :	= -	Min Re	eq = -	
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Cho	rds	ens.C	omp.	Chords	Tens.	Comp.
A - E	3	294	-719	B-C	294	-719

Webs

C-D

Tens. Comp.

424 - 1021

1183 - 484

Maximum Web Forces Per Ply (lbs)

Tens.Comp.

424 - 1021

1183 -484

Webs

A-F

A-E

Top chord 2x6 SP 2400f-2.0E Bot chord 2x6 SP 2400f-2.0E Webs 2x4 SP #3 :W2, W4 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

-(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) From 30 plf at 0.00 to 30 plf at 13.00 From 10 plf at 0.00 to 10 plf at 13.00 TC: From BC: From 10 pif at 0.00 to 10 pif at 13.0 BC: 361 lb Conc. Load at 1.94, 3.94, 5.94, 7.06 9.06,11.06

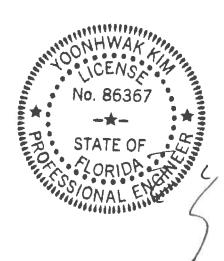
Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind loads and reactions based on MWFRS. End verticals not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is 9-11-6.



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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org, SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

doubled when dagoral brace is used. Correct dagoral brace for 5258 at each end. Max web total length is 14'. Vertical Length Gable Magonal brace options vertical length may be Max 13723 Riverport Drive Suite 200 Vertical length in table above. Maryland Heights, MO 63043 Correct diagonal at midpaint of vertical web pacing 16" 12" 24 0,C 0,0 0,C 2x4
Gable Vertical Species SPF SPF SPF 픆 SP SP Shown Stud Standard #1 #2 Grade Standard Stud Stud Stud Stud Stud Tracess require scheme case in naturally, single, and miss several flat several length, and the beauty attent attent flat in the following the scheme of the flat of the following several flat of the #3 Brace 7-10 Jable Truss 0, 2 중 140 Group A CD 1x4 "L" Brace # better diagonal brace; single B 24 十 45 cm mph 777 Group B Group A Wind Speed, 30' Mean Height, Enclosed, Exposure 120 mph Vind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00 120 mph Vind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00 Gable Stud Reinforcement (1) 2x4 'L' Brace = (2) 2x4 'L' Brace = (1) 2x6 'L' Brace = (2) 2x6 'L' Brace |Group B |Group A |Group B |Group A |Group B |Group A 5 5 5 5 5 6 6 ri ry ry rý rý Ď, 14' 0' 14' 0' 14' 0' 12' 7' 14' 0" 14' 0" 14' 0' WAY THE Detail Group B 14' 0' 14' 0' 14' 0" 14' 0" 14' 0" 14, 00 14' 0' 14' 0" SPACING TOT. LD. ※ For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones. ※##For (2) "L" braces space nails at 3" o.c. in 18" end zones and 6" o.c. between zones. Ç Sable end supports load from 4' 0' outlookers with 2' 0' overhang, or 12' plywood overhang. Provide uplift connections for 100 plf over continuous bearing (5 pef TC Dead Load). Gable Truss Detail Notes: Vind Load deflection criterion is L/240. Refer to the Building Designer for conditions not addressed by this detail. "L" bracing must be a minimum of 80% of web member langth. Attach "L" braces with 10d (11.129"x3.0" min) mails 1x4 Braces shall be SRB (Stress-Rated Board). Spruce-Pine-Fin #1 / #2 Standard #3 Stud meFor 1x4 So. Phre use only Industrial 55 or Industrial 45 Stress-Pated Boards, Group values may be used with these grades. Bracing Group Species and Grades: Douglas Fir-Larch Douglas Fr-Larch
#3
Stud
Stud
Standard 6 Vertical Length Less than 4' 0' Greater than 4' 0', but 24.0 Refer to comon truss design for peak, splice, and heel plates. less than 11' 6' XZ4 Gable Vertical Plate Sizes PSF II DRWG DATE 昭 Group Bi group 1.00 A14030ENC101014 10/01/14 Southern Phessa #1 Southern Phesses #3 Stud Standard ASCE7-10-GAB14030 õ No Splice Standard Standard 4X4 3X

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nalls at 6" o.c. Reinforcing member is a minimum 80% of web

L-Reinforcement

L-Reinf T-Reinf. 윽

T-Reinforcement

member (ength.

shown on single ply sealed designs to I-reinforcement or This detail is only applicable for changing the specified CLR _-reinforecement or scab reinforcement,

for minimum alternative reinforcement, re-run design with appropriate Alternative reinforcement specified in chart below may be conservative reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

T-Rein

L-Reinf

Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf. Scab Rein	Scab Reinf.
2x3 or 2x4 2x3 or 2x4	1 row 2 rows	2x4 2x6	1-2×4 2-2×4
5x6	1 rows	2x4 2x6	1-2x6 2-2x490
ಬ 88 88	1 rows	exe exe	1-2x8 2-2x6QHO

T-reinforcement, L-reinforcement, or scab reinforcement to be species and grade or better than web member unless specified otherwise on Engineer's sealed design. Same

Center scab on wide face of web. face of web. Apply (1) scab to each

Apply scab(s) to wide face of web. No more than (1) scab per face, Attach with 10d (0.128*x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length. Scab Reinforcement MALOONHWAY THE No. 86367 STATE OF 平 Scab ReInf.



we care in februarity, handing, objects, branding and bracing of ETG Coding Component Sharely branding and bracing of ETG and Component Sharely branding the TTG and Coding Sharely Sh FUNCTIVITY NEW SELL OF THE SELECTION OF THE DESIGNATION OF THE DESIGNA troop page liethy this desaile, helicates exceptance of professional ly for the design street. The sufficiality and use of this desails spondately of the Adding Bestjoer per ABSLIFE 1 Sec.2. ng Components Group Inc. shall not be responsible for any deviation fro id the truss in conformance with AMEL/175 L or for handing, shipping, TO DE LES TO STATE DE LES TOURS DE LE TOURS DE LES TOURS

SPACING

TD4. LD. DUR. FAC

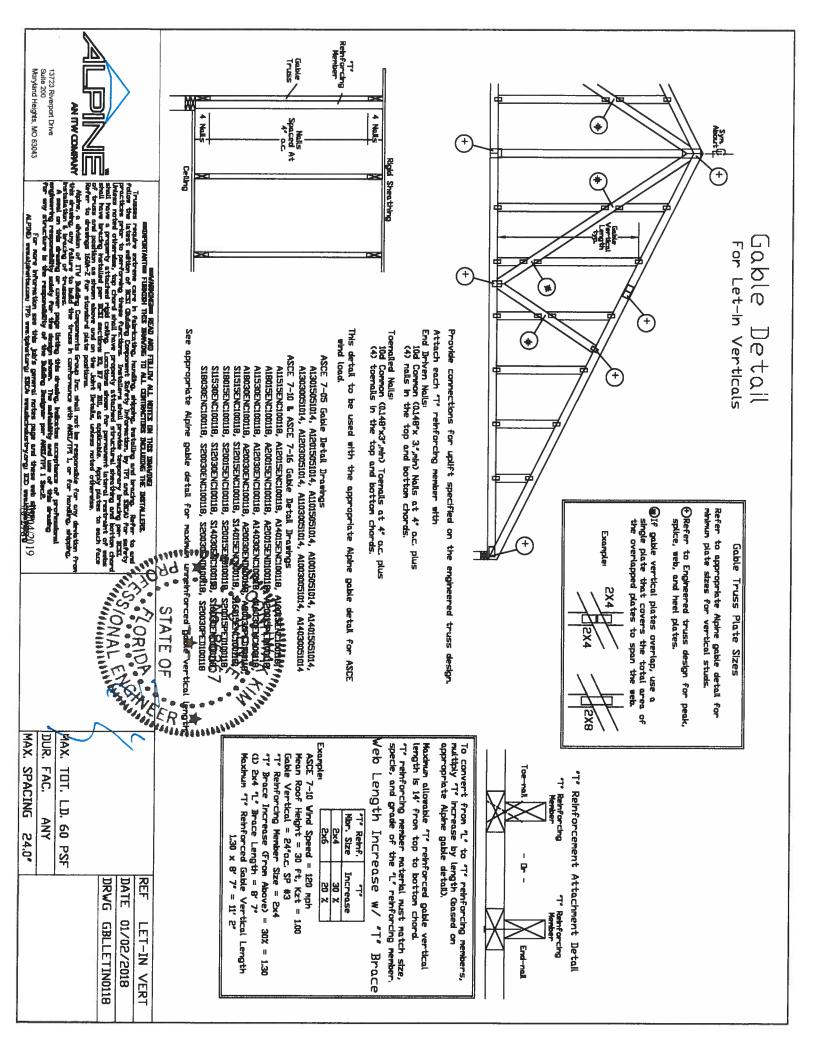
> PSF PSF PSF PSF PSF

DATE RH

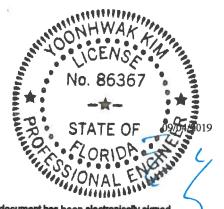
DRWG

BRCLBSUB0119 01/02/19 CLR Subst.

ich's general notes page and these web situs: story; KICA www.dichdustry.org; IID www.lccaePe.org



Maganal brace options vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 4539 at each end. Max web total length is 14'. Max Gable Vertical ength. 13723 Riverport Drive Sulte 200 Maryland Heights, MO 63043 Vertical length in table above. Connect diagonal at ridpoint of vertical web Spacing 12" 16" 24" 0,0 0,C 0,C, Gable e Vertical Species SPF RE PFI SPF SPF PF! SP SP \$tandard #1 #2 \$tandard #1 / #2 #3 \$tud Grade \$tandard #1 #2 #3 #1 / #2 #3 Stud Stud tandard Prises regime extreme care in functioning institution in the Institution in Experimental processors and account in the Institution of REAL Challeng Components Service in the Institution of Its and Service and Institution in the Institution of Its and Service and Institution in Institution in Its and Institution and Institution in Its and Institution in Its and Institution and Institution in Its and Institution in Institution in Its and Institution in Institution in Its and Institution in I Stud Stud # Brace 7-10 Jable Truss - PURINITE FUR No Braces 140 2x4 IF-L \$2 or better diagonal brace; single or double cut (as shown) at Group A | Group B | Group A | Group B е NEXT THES THANDER TO ALL CONTRACTORS INCLUDING THE INSTALLEDS. Ø, ďg C 1x4 'L' Brace # 55 ක් ක් Wind Speed, 15' Mean Height, Enclosed, 120 mph Vind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1,00 120 mph Vind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1,00 100 mph Vind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1,00 Gable (1) 2x4 1' Brace # (2) 2x4 1' Brace # (1) 2x6 1' Brace # (2) 2x6 1' Brace 10' 9' 9, 8, ø, ó Page and these web sites Industryong ICO westcommong Stud Reinforcement 10' 3' 10′ 3′ ដ Group A chart abage 3 of max pable vertical length 15 15 15 15 15 15 5 6 15 15 ر اردا 15, 21 11' 8' 11, 10, 2, 11' 8° ν, υ, Ε Ε Group B 13' 3' <u>Ω</u> ין ין ין אַלאַלאַ 13' 5' δι δι 10' B' CORIDA CONTRACTOR Group A 14, 0, 14' 0" 14' 0' 14' 0" 14' 0' 14' 0' WA THE 14, P, Detail Group B Group A 14' Q' 14' 0" 14' 0" 13' 4' 11, 10, 14' 0" 14, Q 14. Q 14, Q 5 6 2 4 14' Q' ٦<u>,</u> 14' Q' 14 14 14 Q Q Q Q 14, 0, 14' 0' 14, Q Exposure MAX. Group B 14' 0" 14' 0" 14' 0' 14' 0" 14' 0" 14' 0' 14 Q 14' 0° 14, Q 14. Q SPACING 14' Q' TOT, LD, Refer to the Building Designer for conditions not addressed by this detail. # For (1) "L" brace: sp in 18" end zones and Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load). "L" bracing must be a minimum of 80% of web member length. **For (2) "L' braces Attach "L" braces with 10d (0.128"x3.0" min) malls Sable end supports load from 4' 0' outlookers with 2' 0' overhang, or 12' plywood overhang. Wind Load deflection criterion is L/240, Ç lx4 Draces shall be SRB (Stress-Rated Board) meen ix4 So. Pive use only Industrial 55 or Industrial 45 Stress Pated Boards, Group values may be used with these grades. Spruce Pine Fin #1 / #2 Standard in 18° end zones and 6° o.c. between zones. 60 Douglas Fir-Larch #3 Stud Standard Bracing Group Species and Grades: Gable Truss Detail Notes Douglas Fir-Larch Vertical Length
Less than 4' 0'
Greater than 4' 0' 24.0* Refer to common truss design for peak, splice, and heel plates. Gable Vertical Plate Sizes YZY PSF RET DATE DRWG A14015ENC101014 II AL B. Btr Group B Group Ai 1,00 space nails at 2" oc.
nd 4" oc. between zones.
space nails at 3" oc. 10/01/14 ASCE7-10-GAB14015 38 Southern Phess Southern Phem No Splice
UX4 or EX3
3X4 Standard





Alpine, an ITW Company 6750 Forum Drive, Suite 305 Orlando, FL 32821 Phone: (800)755-6001 www.alpineitw.com

This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.

Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 19-3056F
Job Description: /Heldon Residence /Contractor	
Address: 138 SW HEATHER COURT , FT WHITE, FL 32038	

Job Engineering Criteria:	
Design Code: FBC 2017 RES	IntelliVIEW Version: 18.02.01
	JRef #: 1WO82150005
Wind Standard: NA	Roof Load (psf): None
Wind Speed (mph): 0	Floor Load (psf): 40.00-10.00- 0.00- 5.00

This package contains general notes pages, 7 truss drawing(s) and 3 detail(s).

Item	Seal #	Truss
1	247.19.1532.05057	F01
3	247.19.1532.26647	F03
5	247.19.1532.39783	F05
7	247.19.1532.52273	F07

Item	Seal #	Truss
2	247.19.1532.13853	F02
4	247.19.1532.35660	F04
6	247.19.1532.45407	F06



General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AF&PA. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the immediate vertical Deflection, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

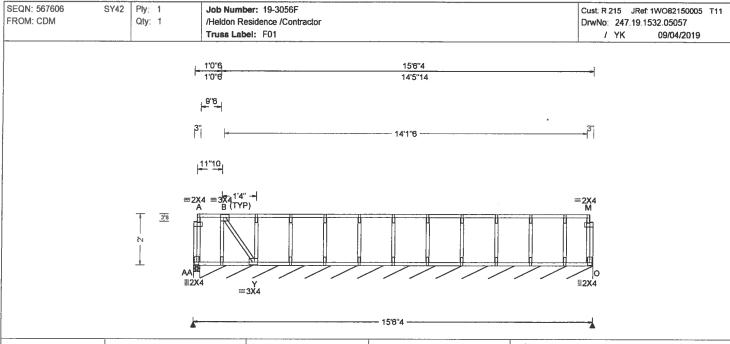
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment. W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

- 1. AF&PA: American Forest & Paper Association, 1111 19th Street, NW, Suite 800, Washington, DC 20036; www.afandpa.org.
- 2. ICC: International Code Council; www.iccsafe.org.
- 3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; www.alpineitw.com.
- 4. TPI: Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, VA 22314; www.tpinst.org.
- 5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.co



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defi/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.001 M 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.001 M 999 360
BCDL: 5.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.000 B
Des Ld: 55.00	EXP: NA Kzt: NA		HORZ(TL): 0.000 B
NCBCLL: 10.00	Mean Height: NA ft TCDL: NA psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: NA psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.190
Load Duration: 1.00	MWFRS Parallel Dist: NA	TPI Std: 2014	Max BC CSI: 0.019
Spacing: 24.0 "	C&C Dist a: NA ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.070
	Loc. from endwall: NA	FT/RT:20(0)/10(0)	
	I: NA GCpi: NA	Plate Type(s):	
	Wind Duration: NA	WAVE	VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs), or *=PLF Non-Gravity Gravity /Rw /Rh Loc R+ / R-/ U /RL AA 92 /-/-/-O* 213 /_ 1. /_ AA Brg Width = 3.0 Min Req = 1.5O Brg Width = 183 Min Req = -Bearings AA & AA are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord 4x2 SP #2 Bot chord 4x2 SP #2 Webs 4x2 SP #3

Plating Notes

All plates are 1X4 except as noted.

Additional Notes

Refer to General Notes for additional information See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is



#0-278 09/04/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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For more Information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 567608 SY42 Ply: Job Number: 19-3056F Cust: R 215 JRef: 1WO82150005 T8 FROM: CDM Qty: 4 /Heldon Residence /Contractor DrwNo: 247,19,1532,13853 Truss Label: F02 / YK 09/04/2019 6'9" 15'6"4 6'9' 6'7" _1'0''4 2'6" (TYP) **∥3X4** ∥1X4 D =3X6 ∥1X4 G **|||3X4 ∥2X4** С E Н 3"8 P Q |||3X4 M 0 ∥1X4 N ⊪4X4 K ≡3X5 ∥3X4 =3X5 15'6"4

Loading Criteria (psf) Wind Criteria Defl/CSI Criteria Snow Criteria (Pg,Pf in PSF) TCLL: 40.00 Wind Std: NA Pg: NA Ct: NA CAT: NA PP Deflection in loc L/defl L/# Speed: NA mph TCDL: 10.00 Pf: NA VERT(LL): 0.102 E 999 480 Ce: NA Enclosure: NA BCLL: 0.00 Lu: NA Cs: NA VERT(CL): 0.171 E 999 360 Category: NA BCDL: 5.00 Snow Duration: NA HORZ(LL): 0.026 B EXP: NA Kzt: NA Des Ld: 55.00 HORZ(TL): 0.044 B Mean Height: NA ft Code / Misc Criteria Creep Factor: 2.0 **NCBCLL: 10.00** TCDL: NA psf Bldg Code: FBC 2017 RES Max TC CSI: 0.727 Soffit: 2.00 BCDL: NA psf TPI Std: 2014 Max BC CSI: 0.815 Load Duration: 1.00 MWFRS Parallel Dist: NA Rep Fac: Yes Max Web CSI: 0.339 Spacing: 24.0 " C&C Dist a: NA ft FT/RT:12(0)/10(0) Loc. from endwall: NA I: NA GCpi: NA Plate Type(s): Wind Duration: NA VIEW Ver: 18.02.01B.0321.08 WAVE

▲ M	axin	num Rea	ctions	(lbs)		
		Gravity		No.	on-Gra	vity
Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
R	838	/-	/-	/-	/-	/-
K	857	/-	/-	/-	/-	/-
R	R Brg Width = 3.0			Min Re	q = 1.	5
lκ	Brg	Width =	-	Min Re	q = -	
Bea	ring	R is a rig	id surfa	ice.	•	
Men	nber	s not liste	ed have	forces less	s than	375#
Max	imu	m Top C	hord F	orces Per	Ply (lb	s)
Cho	rds	Tens.Co	mp.	Chords	Tens.	Comp.
B-0		0 -	- 923	F-G	0	- 1451
] C - [)	0 -	1496	G - H	0	- 1451
J D - €	Ξ	0 -	1496	H - I	0	- 833

Lumber

Top chord 4x2 SP #2 Bot chord 4x2 SP #2 Webs 4x2 SP #3

Plating Notes

All plates are 3X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

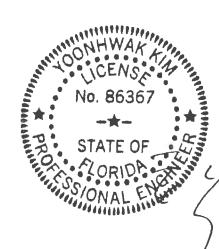
Additional Notes

Refer to General Notes for additional information

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 2-0-0.



Maximum Bot Chord Forces Per Ply (lbs)

0 - 1645

F-F

Chords	Tens.Co	mp.	Chords	Tens. Co	omp.
R-Q	548	0	N - M	1644	0
Q-P	1278	0	M - L	1211	0
P-0	1644	0	L-K	438	0
0 - N	1645	0			

Maximum Web Forces Per Plv (ibs)

Webs	Tens.C	comp.	Webs	Tens. (Comp.
R-B	0	- 957	F-M	0	-492
B - Q	675	0	M - H	419	0
Q-C	0	-641	H-L	0	- 680
C-P	380	0	L-I	713	0
P-E	18	- 463	1 - K	0	- 920

09/04/2019

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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org, SBCA: www.sbcindust

SEQN: 567627 **SY42** Ply: 2 Job Number: 19-3056F Cust; R 215 JRef; 1WO82150005 T15 FROM: CDM Qty: 1 /Heldon Residence /Contractor DrwNo: 247,19,1532,26647 Truss Label: F03 / YK 09/04/2019 **2 Complete Trusses Required** 12'11"8 14'11"8 12'11"8 2' 12'11"8 11"8 11"8 2'6" -(TYP) 3'9" -- 3'9" -≡5X5 = 2X4 T U **=**W=3X4 ∥4X5 B ∥1X4 ==4X4 D E ∭5X6 I J ∥4X4 Q III 1X4 R ⊪4X5 S III4X4 =5X5 M 115X6=3X4 3"8 Ň AB AA ≡6X6≡3X5 = 5X6 AL III4X5 AK ≡4X6 AI 3X5 ≡5X5 ₩=H0308

				7
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	1
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	1
TCDL: 10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.497 L 665 480	1
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.683 L 483 360	1
BCDL: 5.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.064 W	
Des Ld: 55.00	EXP: NA Kzt: NA		HORZ(TL): 0.088 W	
NCBCLL: 10.00	Mean Height: NA ft	Code / Misc Criteria	Creep Factor: 2.0	Ì
Soffit: 2.00	TCDL: NA psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.868	
Load Duration: 1.00	BCDL: NA psf MWFRS Parallel Dist: NA	TPI Std: 2014	Max BC CSI: 0.767	ı
Spacing: 24.0 "	C&C Dist a: NA ft	Rep Fac: Varies by Ld Case		1
opacing, 24.0	Loc. from endwall: NA	FT/RT:12(0)/10(0)		1
1	I: NA GCpi: NA	Plate Type(s):		1
	Wind Duration: NA	WAVE. HS	VIEW Ver: 18.02.01B.0321.08	1
	VVIII DUIAUOII. IVA	WAVE, NO	VILVY VEI. 10.UZ.U1D.U3Z1.U8	
Lumber				

Top chord 4x2 SP M-31 :T2 4x2 SP #2: Bot chord 4x2 SP 2400f-2.0E Webs 4x2 SP #3

Special Loads

--(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00) TC: From 100 plf at BC: From 10 plf at 0.13 to 100 plf at 27.79 0.00 to 10 plf at 27.92 TC: 1709 lb Conc. Load at 15.81

Plating Notes

All plates are 2X5 except as noted.

Additional Notes

2-0-0

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

Refer to General Notes for additional information

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is

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W 2493 /-/-/-AM Brg Width = 3.0 Min Req = 1.5 W Brg Width = 3.0 Min Reg = 1.5 Bearings AM & W are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B-C 0 - 1432- 5871 C-D 0 - 2699 L-M 0 - 5873 D-E 0 - 2699 M - N 0 - 5569 0 - 3760N - O - 5569 F-F n F-G 0 - 3763O - P n - 4235 G-H 0 - 4902P - Q 0 -4233 H-1 0 -4902 Q-R 0 -3015 0 - 5856 0 -3015 1 - J R-S 0 - 5856 J-K S-T - 1589

Non-Gravity

/ RL

/-

/Rw /U

▲ Maximum Reactions (lbs) Gravity

/-

Loc R+ /R-

AM 2262 /-

Maximum Bot Chord Forces Per Ply (ibs)

ıh.
0
0
0
0
0
0
0
0

Maximum Web Forces Per Ply (ibs)

MICHAELLE	Maximum web i dices rei riy (ibs)					
Webs	Tens.Com	ıp.	Webs	Tens.	Comp.	
AM- B	0 - 13	346	AE- M	50	- 536	
B-AL	1191	0	M -AB	0	- 930	
AL- C	0 - 11	80	AB- O	1067	0	
C -AK	1068	0	0 - Z	0	- 1226	
AK- E	0 -9	144	Z - Q	1084	0	
E -AJ	937	0	Q-Y	0	- 1075	
AJ- G	0 - 10	54	Y - S	1210	0	
G-AH	905	0	S - X	0	- 1319	
AH- I	0 -7	34	X - T	1329	0	
I-AF	994	0	T - W	0	- 1486	
AF- K	0 -4	33				

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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.tcsafe.org

SEQN: 567619 SY42 Ply: 1 Job Number: 19-3056F Cust: R 215 JRef: 1WO82150005 T9 FROM: CDM Qty: 10 /Heldon Residence /Contractor DrwNo: 247.19.1532.35660 09/04/2019 Truss Label: F04 YK 12'11"8 27'11" 14'11"8 12'11"8 12'11"8 11"8 11"8 2'6" -(TYP) =W=3X4 =3X4 N = W=3X4 112X4 114X4 K L =2X4 =5X5 A B =5X5 C `≡3X4 G =5X5 R |||4X4 |||2X4 =4X4 ≡5X5 ≡2X4 S T D Q 3"8 N MAK ≡4X5 AI ≡5X6 AG AE AD 3X4 Z Y ≡W=H0308 W ≡5X5 Viii ≡4X5 AJ ≅5X5 AF ≡3X5 AC III3X4 AA ≡3X5 =5X6 W=H0310 27'11" -▲ Maximum Reactions (lbs) Gravity Non-Gravity /Rw /U Loc R+ /R-

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defi/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.546 K 605 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.752 K 439 360
BCDL: 5.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.092 B
Des Ld: 55.00	EXP: NA Kzt: NA		HORZ(TL): 0.126 B
NCBCLL: 10.00	Mean Height: NA ft	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	TCDL: NA psf BCDL: NA psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.750
Load Duration: 1.00	MWFRS Parallel Dist: NA	TPI Std: 2014	Max BC CSI: 0.773
Spacing: 24.0 "	C&C Dist a: NA ft	Rep Fac: Yes	Max Web CSI: 0.713
	Loc. from endwall: NA	FT/RT:12(0)/10(0)	
	I: NA GCpi: NA	Plate Type(s):	
	Wind Duration: NA	WAVE, HS	VIEW Ver: 18.02.01B.0321.08
Lumber			
Top chord 4x2 SP #2 :T	2 4x2 SP 2400f-2.0E:		

_		_				_
39	360	AK	1523	3 /-		/-
	-	V	1523	} /-		/-
	-	AK	Brg	Width	= 3.0	0
		V	Brg	Width	= 3.0	0
		Bea	ırings	AK 8	V ar	е
		Mer	nber	s not l	isted	h
		Max	dmu	m To	Cho)1
		Cho	ords	Tens.	Com	p.
		В-	C	(- 18	5/8
		_	_			
21.	08	C-	U	Ĺ	- 336	Э;

Bearings AK & v are a rigid surface.						
Members not listed have forces less than 375#						
Maximu	m Top Chord F	Forces Per	Ply (ibs)			
Chords	Tens.Comp.	Chords	Tens. Comp.			
B-C	0 - 1858	K-L	0 - 5529			
C-D	0 - 3365	L-M	0 -5194			
D-E	0 - 3365	M - N	0 - 5194			
E-F	0 - 4453	N - O	0 -4453			
F-G	0 -4453	O-P	0 -4453			
G-H	0 - 5194	P-Q	0 -3365			
H - I	0 - 5194	Q - R	0 - 3365			
1 - J	0 - 5529	R-S	0 - 1858			
J - K	0 - 5535					

/-

Min Reg = 1.5 Min Req = 1.5

/-

/-

Webs 4x2 SP #3 **Plating Notes**

All plates are 1X4 except as noted.

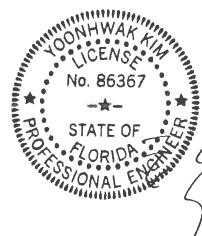
Bot chord 4x2 SP 2400f-2.0E

Additional Notes

Refer to General Notes for additional information

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is 2-0-0.



Maximu	m Bot	Chord	Forces	Per	Ply	(lbs)
Chords	Tens.C	omp.	Chor	ds	Ter	ns. (Comp.

AK-AJ	1027	0	AC-AB	5426	0
AJ-AI	2670	0	AB-AA	5426	0
AI-AH	3998	0	AA-Z	4890	0
AH-AG	4890	0	Z - Y	3998	0
AG-AF	4890	0	Y - X	3998	0
AF-AE	5426	0	X - W	2670	0
AE-AD	5426	0	W-V	1027	0
AD-AC	5535	0			

	Maximum Web Forces Per Ply (lbs)							
	Webs	Tens.Co	mp.	Webs	Tens.	Comp.		
,	AK- B	0 -1	791	K-AC	85	- 390		
_	B-AJ	1497	0	AC-L	747	- 358		
	AJ- C	0 - 1	464	L-AA	0	- 471		
	C -AI	1213	0	AA- N	541	0		
	Al- E	0 - 1	104	N - Z	0	- 788		
١	E-AH	820	0	Z - P	820	0		
/	AH- G	0 -	788	P - X	0	- 1104		
	G -AF	541	0	X - R	1213	0		
	AF- I	0 -	471	R-W	0	- 1464		
	I-AD	747 -	358	W - S	1497	0		
	AD- J	85 -	390	S-V	0	- 1791		

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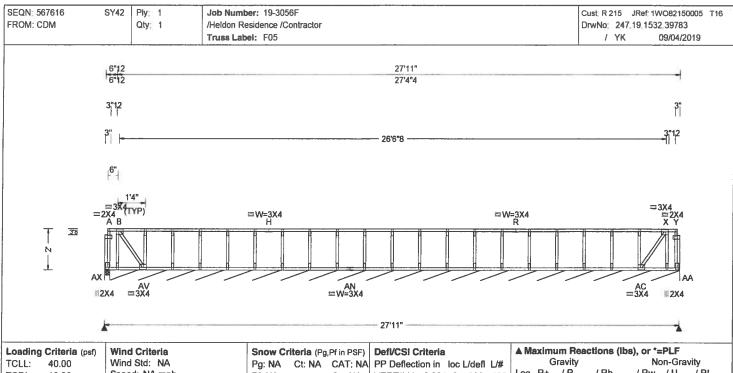
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.001 C 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.001 C 999 360
BCDL: 5.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.000 B
Des Ld: 55.00	EXP: NA Kzt: NA		HORZ(TL): 0.000 B
NCBCLL: 10.00	Mean Height: NA ft TCDL: NA psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: NA psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.189
Load Duration: 1.00	MWFRS Parallel Dist: NA	TPI Std: 2014	Max BC CSI: 0.019
Spacing: 24.0 "	C&C Dist a: NA ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.069
	Loc. from endwall: NA	FT/RT:20(0)/10(0)	
	I: NA GCpi: NA	Plate Type(s):	
	Wind Duration: NA	WAVE	VIEW Ver: 18.02.01B.0321.08

) elione	bs), or *= No		vitv
	/ Rh			/ RL
1-	/-	/-	/-	/-
/-	/-	/-	/-	/-
idth = 3	3.0	Min Re	q = 1.8	5
idth = 3	332	Min Re	q = -	
X & AX	(are a ri	gid surfac	æ.	
not liste	d have f	orces less	than	375#
	idth = 3 X & AX	/ R- / Rh /- /- /- /- /idth = 3.0 idth = 332 X & AX are a ri	/ R- / Rh / Rw /- /- /- /- /- /- /- fidth = 3.0 Min Re fidth = 332 Min Re X & AX are a rigid surface	/ R- / Rh / Rw / U /- /- /- /- /- /- /- /- /- /- /idth = 3.0 Min Req = 1.

Lumber

Top chord 4x2 SP #2 Bot chord 4x2 SP #2 Webs 4x2 SP #3

Plating Notes

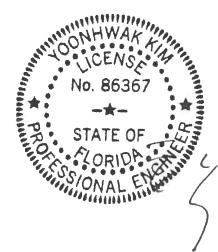
All plates are 1X4 except as noted.

Additional Notes

Refer to General Notes for additional information See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is 2-0-0.



#0-278 09/04/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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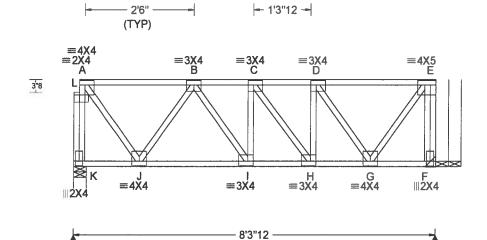
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SEQN: 567610 SY42 Ply: 2 Job Number: 19-3056F Cust; R 215 JRef: 1WO82150005 T12 FROM: CDM Qty: /Heldon Residence /Contractor DrwNo: 247.19.1532.45407 Truss Label: F06 / YK 09/04/2019

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in
TCDL: 10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.043
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.060
BCDL: 5.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.006
Des Ld: 55.00	EXP: NA Kzt: NA		HORZ(TL): 0.009
NCBCLL: 10.00	Mean Height: NA ft	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	TCDL: NA psf	Bldg Code: FBC 2017 RES	'
Load Duration: 1.00	BCDL: NA psf MWFRS Parallel Dist: NA	TPI Std: 2014	Max BC CSI: 0.3
Spacing: 24.0 "	C&C Dist a: NA ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.4
opaonig. 24.0	Loc. from endwall: NA	FT/RT:12(0)/10(0)	
		1 1 1 1 1	

Plate Type(s):

WAVE

Deti/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): 0.043 / 999 480
VERT(CL): 0.060 I 999 360
HORZ(LL): 0.006 G
HORZ(TL): 0.009 G
Creep Factor: 2.0
Max TC CSI: 0.838
Max BC CSI: 0.371
Max Web CSI: 0.441
VIEW Ver: 18.02.01B.0321.08

A M	▲ Maximum Reactions (lbs)										
	G	ravity		N	on-Gra	vity					
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL					
к	2171	1-	1-	/-	/-	/-					
F	1709	/-	/-	/-	/-	/-					
K Brg Width = 3.5 Min Req = 1.5											
F											
Bea	ring K	is a rig	id surfa	ice.	,						
Men	nbers	not liste	ed have	forces les	s than :	375#					
Max	imum	Top C	hord F	orces Per	Ply (lb	s)					
				Chords							
A - E	3	0	- 531	C-D	0	- 966					
B - 0		0 -	1043	D-E	0	- 479					

Lumber

Top chord 4x2 SP 2400f-2.0E Bot chord 4x2 SP #2 Webs 4x2 SP #3

Special Loads

--(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00) TC: From 50 plf at BC: From 5 plf at 0.13 to 50 plf at 0.00 to 5 plf at 8.31 8.31 TC: 857 lb Conc. Load at 0.96, 2.46, 4.46, 6.46

I: NA GCpi: NA

Wind Duration: NA

Hangers / Ties

(J) Hanger Support Required, by others

Additional Notes

2-0-0.

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

Refer to General Notes for additional information Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is

#0-278 09/04/2019

Maximum Bot Chord Forces Per Ply (lbs)

Cnoras	rens.Co	mp.	Cnords	Tens. Co	omp.
J - I	1041	0	H-G	959	0
I - H	1042	0			

Maximum Web Forces Per Ply (ibs)

Webs	Tens.Comp.	Webs	Tens. (Comp.
L-K	0 - 1078	D-G	0	- 865
A-L	0 - 1074	G-E	865	0
A - J	926 0	E-F	0	- 844
J-B	0 - 920			

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

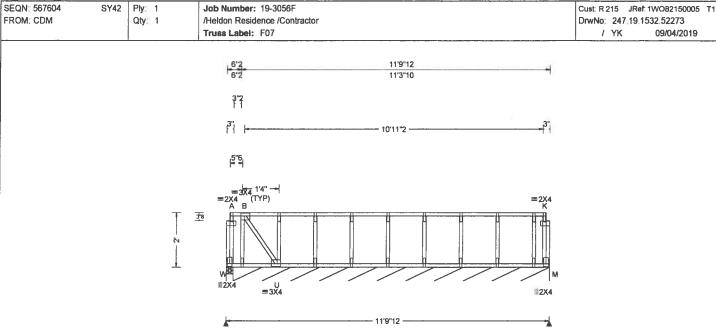
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.



For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com, ICC:



	<u> </u>				
TCLL: 40.00 V TCDL: 10.00 S BCLL: 0.00 E BCDL: 5.00 C Des Ld: 55.00 NCBCLL: 10.00 T Soffit: 2.00 Load Duration: 1.00 Spacing: 24.0 " Li	Wind Criteria Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft FCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA : NA GCpi: NA Wind Duration: NA	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 I 999 480 VERT(CL): 0.001 I 999 360 HORZ(LL): -0.000 B HORZ(TL): 0.000 B Creep Factor: 2.0 Max TC CSI: 0.198 Max BC CSI: 0.019	A Maximum Reactions (II Gravity Loc R+ /R- /Rh W 19 /- /- M* 217 /- /- W Brg Width = 3.0 M Brg Width = 138 Bearings W & W are a rigit Members not listed have for	Non-Gravity / Rw / U / RL /- /- /- /- /- /- Min Req = 1.5 Min Req = - d surface.

Lumber

Top chord 4x2 SP #2 Bot chord 4x2 SP #2 Webs 4x2 SP #3

Plating Notes

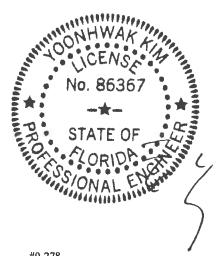
All plates are 1X4 except as noted.

Additional Notes

Refer to General Notes for additional information See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is 2-0-0.



#0-278 09/04/2019

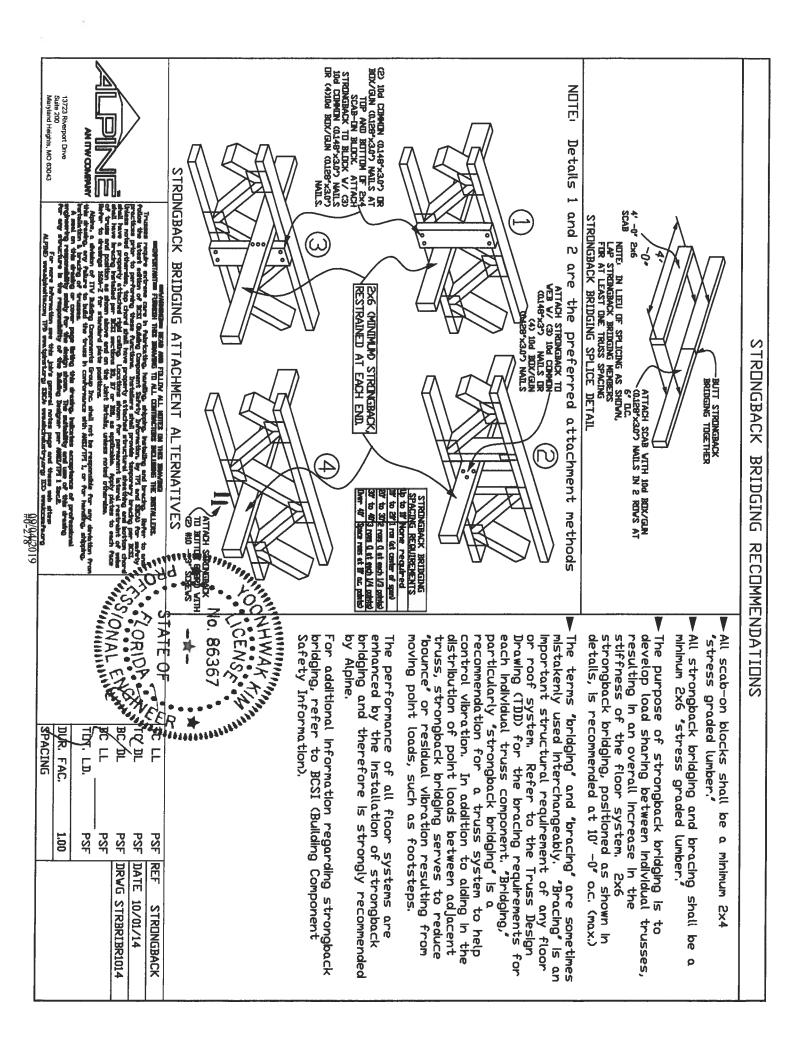
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

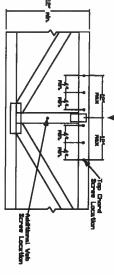
6750 Forum Drive Suite 305 Orlando FL, 32821



System 4 0 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal

Max. Concentrated Load per Chart Below



for

Refer to Alpine sealed drawing

Individual truss design.

Load Applied to

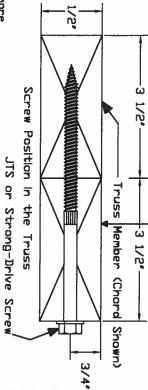
SINT

PLy

Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL screws than 6 per top chord member and the load If the concentrated load connection requires more



Max. Uniform Load per Chart Below

chord). Screw spacing shall be offset by 1/2 the oc. spacing in each chord. For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24° o.c. per

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

12	11	10	9	8	7	6	ហ	4	3	ru	pà		# of
5688	5214	4740	4266	3792	3318	2844	2370	1896	1422	984	474	SP	Maxir Loc
5304	4862	4420	3978	3536	3094	2652	2210	1768	1326	884	442	DFL	Maximum Concentrated Load (lbs) (1.00 DF)
4800	4400	4000	3600	3200	2800	2400	2000	1600	1200	800	400	SPF	rated DF)
	ور		<u>.</u>] 7.	ن		čı)	<u></u>	ω	Ĺ,	. :	_ [E

eneral Notesi

Screws centered along the 1,5" almension of the 4x2 member.

o.c. Spacing Top Chord Screw

Along

SP

1422

1326 片

1200 SPF

948

711

Maximum Uniform Load (plf)
Along Top Chard (1.00 DF)

Top Chord (1.00

- Minimum end distance of 3".
- Screws installed with head in loaded member.
- Gap between plies not to exceed 1/8"
- Screw location may be adjusted up to 1° to avoid the state of the with other hardware or to avoid lumber defeats. HWAK with other hardware in areas where lumber where overeds 1000 not install screws in areas where lumber where overeds 1000 not install screws in areas where lumber where overeds 1000 not install screws in areas where lumber where the large overeds 1000 not install screws in areas where lumber where the large overeds 1000 not install screws in areas where lumber where the large overeds 1000 not install screws in areas where lumber where the large of the lar
- Equal loads from both faces or loads that are every light distributed to each ply do not require conjections per this deta for 3x2 members use GRK (RSS) JTS 1/4x5 screws or Contact Alpine for special commons. this details

S 18 6 14 검 6 œ σ

355 406 474 568

331

300

378

342

442 530 663 884

400 480 600 908

316

294

992

Contact Alpine for special connections not covered by this detail. STATE OF

20 284 265 240 22 258 241 218 24 237 221 200 TC LL PSF REF SY42 Connection BC DL PSF DATE 01/19/2018 BC LL PSF DRWG CNSY42PL0118 DUR. FAC. 1.00				C	30	4	1-			- 4
284 258 237 PSF REF PSF DATE PSF DRWG PSF 1.00			,			100	E	R	H	.
258 258 258 237 PSF REF PSF DRVG PSF DRVG PSF	DUR. FAC.	סד. בס.	EC F	BC DL		TC LL		24	22	20
DATE DRWG	1.00	PSF	PSF	PSF	PSF	PSF		23	25	28
	- 50-			₽ P	DA1	R		7	8	4
240 218 200 Connection 9/2018 42PL0118				VG CNSY				221	241	265
			8	42PL0118	12018	Connecti		200	218	240
	_		- 8			3			_	

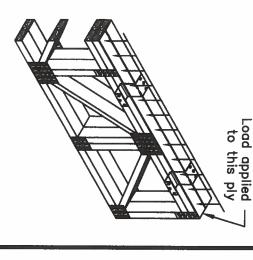
Trusses require extreme care in fabricative, handley, skippin, hertolling and practice. Refer to and process state extens of Ext Galding Component Servicy Introductions process and the performing these fabrications, installing statements that they process to the performing these fabrications are properly extracted resident process to extracted structured structured and interest personal process to extract personal pe a division of TTV Building Components Group Inc. shall not be responsible for any deviation files build the focus in comformance with ANEX/TPT i, or for handling shipping on the deviation of th TOS TORIOR

13723 Riverport Drive Sulte 200 Maryland Heights, MO 63043

information see this job's general notes page and these web sittem 4/20 [9] metacons IPD was taken to SICN was accordance by any IPD was taken as 100cover page listing this drawing, indicates accompliance of professional ety for the design stems. The substability and use of this drawing reportability of the building brutyeer per AREA/IPI 1 Sect.2.

SY32/SY42 PLY FOR DOWNWARD LOADS ONLY TO PLY CONNECTION DETAIL

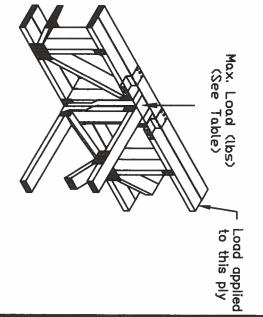
Jniform Load Application



Max.	Max. T.C. Uniform Load (plf)	form F)	Clip Spacing Along
Sp Sp	ÞF	SPF /HF	Top Chord
935	810	585	12" 0.C.
625	540	390	18" 0.C.
470	405	295	24" 0,0,
375	325	235	30° o.c.

Maximum LSC spacing ហ 30" o.c.

Concentrated Load Application



	Max Load	
SP	ᅏ	SPF/HF
1870	1620	1170

Note

Install LSC adjacent, equiphs tant and not more than 6° on each N side of concentrated local. N
Refer to Alpine sealed drawing for indi

individual truss design.



p Inc. shall not be responsible for any deviation framence with ASE/FFI 1, or for handing, shipping

Installation Instructions

- Position and attach LSC to loaded ply with (3) 0.131"x1.5" nalls into narrow face.
- ū Bend clip over adjacent ply and attach with (3) 0.131°x1.5" nalls into wide face.



LSC32 for single 4x2 chords



LSC42-2 for stacked 4x2 LSC32-2 for stacked 3x2 chords

REF SY42 Connection

DRWG LSCSYX2A1014 DATE 10/01/14

DUR. FAC.

£

Residential System Sizing Calculation

Summary Project Title:

138 SW Heather Court Ft White, FL 32038

Helton Residence

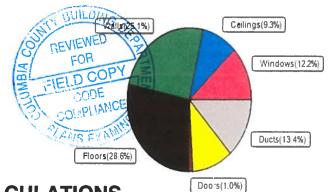
9/16/2019

Location for weather data: Gaines	sville, FL -	Defaults: L	atitude(29.7) Altitude(152 ft.) Tem	p Range(M)	
Humidity data: Interior RH (50%) Outdoor	wet bulb (7	7F) Humidity difference(51gr.)		
Winter design temperature(TMY3	99%) 30	F	Summer design temperature(TMY	3 99%) 94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	32796	Btuh	Total cooling load calculation	24898	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	146.4	48000	Sensible (SHR = 0.85)	193.5	40800
Heat Pump + Auxiliary(0.0kW)	146.4	48000	Latent	188.9	7200
			Total (Electric Heat Pump)	192.8	48000

WINTER CALCULATIONS

Winter Heating Load (for 2405 sqft)

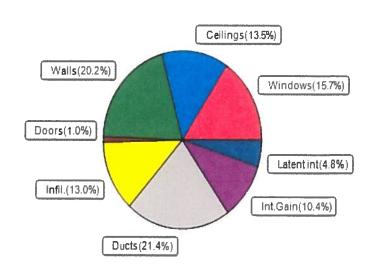
Load component			Load	
Window total	303	sqft	4000	Btuh
Wall total	2389	sqft	8238	Btuh
Door total	20	sqft	320	Btuh
Ceiling total	2405	sqft	3064	Btuh
Floor total	See detail rep	ort	9369	Btuh
Infiltration	78	cfm	3417	Btuh
Duct loss			4389	Btuh
Subtotal			32796	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			32796	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2405 sqft)

Load component			Load	
Window total	303	sqft	3916	Btuh
Wall total	2389	sqft	5026	Btuh
Door total	20	sqft	240	Btuh
Ceiling total	2405	sqft	3370	Btuh
Floor total			0	Btuh
Infiltration	59	cfm	1217	Btuh
Internal gain			2580	Btuh
Duct gain			4738	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load		ĺ	0	Btuh
Total sensible gain			21086	Btuh
Latent gain(ducts)			592	Btuh
Latent gain(infiltration)		2020	Btuh
Latent gain(ventilation	1)		0	Btuh
Latent gain(internal/or	ccupants/othe	r)	1200	Btuh
Total latent gain			3812	Btuh
TOTAL HEAT GAIN			24898	Btuh





EnergyGauge® System Sizing PREPARED BY:	
DATE:	\dashv

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Helton Residence Street: 138 SW Heather Court City, State, Zip: Ft White , FL , 32038 Owner: Design Location: FL, Gainesville	Builder Name: IC Construction Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) 7. Windows(303.0 sqft.) 8. U-Factor: 8. HGC: 9. U-Factor: 9. U-Factor: 9. W/A 9. HGC: 9. U-Factor: 9. W/A 9. HGC 9. U-Factor: 9. U-Factor: 9. W/A 9. HGC 9. U-Factor: 9. U-Factor: 9. HGC 9. H	9. Wall Types (2711.8 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A R= ft² d. N/A R= ft² 10. Ceiling Types (2405.0 sqft.) a. Under Attic (Vented) b. N/A R= ft² c. N/A R= ft² 11. Ducts a. Sup: Attic, Ret: Attic, AH: Garage 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems a. Electric b. Conservation features None 15. Credits Insulation R=13.0 402.75 ft² R= ft² R=30.0 2405.00 ft² R= ft² R=12 R= ft² R=
Glass/Floor Area: 0.126 Total Proposed Modifie Total Baseline	PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: 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 certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).
- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.

INPUT SUMMARY CHECKLIST REPORT

				PROJ	ECT								
Title: Building Typ Owner Name # of Units: Builder Name Permit Office Jurisdiction: Family Type: New/Existing Comment:	e: 1 e: IC Construction c: Columbia Count : Single-family	у	Bedrooms Conditions Total Stor Worst Cas Rotate An Cross Ver Whole Ho	ed Area: ies: se: gle: ntilation:	3 4798 2 No 0		*	Lot # Block PlatB Stree Coun	:/Subdivi ook: t:	sion:	Street A 138 SW Columbi Ft White	Heathe	er Court
			<u>:</u>	CLIM	ATE							6	
√ D	esign Location	TMY Site			Design To 7.5 %	emp 2.5 %		gn Tem Summ		leating ree Da		sign C sture	aily Ten Range
F	L, Gainesville	FL_GAINESVILLE_	REGI		32	92	70	75	1	305.5	;	51	Mediu
				BLOC	CKS								
Number	Name	Area	Volume										
1	Błock1	2405	20797	,									
				SPAC	ES								
Number	Name	Area	Volume	Kitchen	Occup	ants	Bedroom	s Ir	ıfil ID	Finishe	ed (Cooled	Hea
1	1st Floor		14013	Yes		2	1	1		Yes		Yes	Yes
2	2nd Floor	848	6784	No		1	2	1		Yes	`	Yes	Yes
,				FLOO	RS								
√ #	Floor Type	Space		meter Per		-Value	Area	Jois	t R-Value	е	Tile		
	Blab-On-Grade Edge I			л с.	0		1557 ft²				0.33	0.33	0.34
2F	Floor Over Other Space	e 2nd F	loor	-			848 ft²		19		0	0.5	0.5
				ROC)F								
#	Туре	Materials	Roof Area	Gabl Area		Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Em		eck Pi sul. (de
1	Gable or shed	Composition shingle	es 1741 ft	² 390 f	t² M	edium	N	0.85	No	0.9	N	o () 26
				ATT	IC								
√ #	Туре	Ventilat	ion	Vent Rat	io (1 in)		Area	RBS	IR	СС			
1	Full attic	Vente		30			557 ft²	N		V			

INPUT SUMMARY CHECKLIST REPORT

CEILING														
V	#	Cei	ling Type	•	Space	R-V	alue	Ins	Туре	Area	Framing	Frac 1	russ Typ	e
	1	Und	der Attic	(Vented)	1st Floor	30)	Blov	٧n	1557 ft²	0.11	ı	Wood	
	2	Und	der Attic	(Vented)	2nd Floor	30)	Blov	wn	848 ft²	0.11	i	Wood	
	WALLS													
V #	Ornt		jacent	all Type	Space	Cavity R-Value	Wid	th In	Height Et In	Area	Sheathing R-Value	Framing Fraction	Solar	Below Grade%
1	N	Exte		rame - Wood	1st Floor	13	44	0	9	396.0 ft²	0.625	0.23	0.75	0
2	E	Exte	rior F	rame - Wood	1st Floor	13	9		9	81.0 ft ²	0.625	0.23	0.75	0
3	S	Gara	age F	rame - Wood	1st Floor	13	26		9	234.0 ft ²	0.625	0.23	0.75	0
4	E	Gara	age F	rame - Wood	1st Floor	13	18	9	9	168.8 ft²	0.625	0.23	0.75	0
5	S	Exte	rior F	rame - Wood	1st Floor	13	28		9	252.0 ft ²	0.625	0.23	0.75	0
6	S	Exte	rior F	rame - Wood	1st Floor	13	16		9	144.0 ft²	0.625	0.23	0.75	0
7	W	Exte	rior F	rame - Wood	1st Floor	13	28		9	252.0 ft ²	0.625	0.23	0.75	0
8	N	Exte	rior F	rame - Wood	2nd Floor	13	30	3	8	242.0 ft ²	0.625	0.23	0.75	0
9	Ε	Exte	rior F	rame - Wood	2nd Floor	13	28		8	224.0 ft ²	0.625	0.23	0.75	0
10	s	Exte	rior F	rame - Wood	2nd Floor	13	30	3	8	242.0 ft ²	0.625	0.23	0.75	0
11	W	Exte	rior F	rame - Wood	2nd Floor	13	28		8	224.0 ft ²	0.625	0.23	0.75	0
12	N	Exte	rior F	rame - Wood	1st Floor	13	28		9	252.0 ft ²	0.625	0.23	0.75	0
	DOORS													
\vee	#	C	Ornt	Door Type	Space			Storms	U-Va	lue Ft	Width In	Heigh Ft	t In	Area
	1		S	insulated	1st Floor			None	.4	3		6	8 2	20 ft²
				0	rientation show		DOWS	roposeo	d orientatio	n.	·			
/		W	'all								hang			
V	#	Ornt II		ne Panes	NFRC	U-Factor	SHGC	Imp	Area		Separation	Int Sha	ade S	Screening
	1	N '	t Viny	/I Low-E Double	Yes	0.33	0.22	N	45.0 ft ²	1 ft 6 in	1 ft 4 in	None	е	None
	2	N 1	2 Viny	/I Low-E Double	Yes	0.33	0.22	N	18.0 ft²	11 ft 6 in	1 ft 4 in	None	е	None
	3	N 1	2 Viny	/I Low-E Double	Yes	0.33	0.22	N	60.0 ft²	11 ft 6 in	1 ft 4 in	None	е	None
	4	E 2	2 Viny	l Low-E Double	Yes	0.33	0.22	N	9.0 ft ²		1 ft 4 in	None	е	None
	5	S S	5 Viny	/i Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	None	е	None
	6	S s	5 Viny	/I Low-E Double	Yes	0.33	0.22	N	8.0 ft²	1 ft 6 in	1 ft 4 in	None	е	None
	7	S 6	6 Viny	I Low-E Double	Yes	0.33	0.22	N	15.0 ft²	9 ft 6 in	1 ft 4 in	None	е	None
	8	W 7	7 Viny	/ Low-E Double	Yes	0.33	0.22	N	20.0 ft ²	1 ft 6 in	1 ft 4 in	None	е	None
	9	N 8	3 Viny	l Low-E Double	Yes	0.33	0.22	N	60.0 ft²	1 ft 6 in	1 ft 4 in	None	е	None
	10	E 9	9 Viny	I Low-E Double	Yes	0.33	0.22	N	8.0 ft ²	1 ft 6 in	1 ft 4 in	None	е	None
	11	S 1	0 Viny	l Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	None	е	None

FORM R405-2017 INPUT SUMMARY CHECKLIST REPORT

URIVI	R405-20	117	INP	UI SUMM		ARAGE	KEI	OKI						
V_	#	Floor Area	(Ceiling Area			er	Avg. Wall	Height	Exposed Wall Insulation			<u>n</u>	
	1	650 ft²		650 ft²		57 ft		9 ft			1			
					INFII	LTRATION								
#	Scope	Method		SLA	CFM 50	ELA	EqL	Α ,	ACH	ACH	50			
1 V	/holehouse	Proposed A	CH(50)	.000275	1733.1	95.14	178.	93 .	1407	5				
	··········				HEATI	NG SYSTE	Л							
\vee	#	System Type		Subtype		Effic	ciency	Car	pacity			Block	Dı	ucts
	_ 1	Electric Heat Pu	mp/	None		HSF	PF:8.5	48 k	Btu/hr			1	sy	/s#1
					COOLI	NG SYSTE	VI							
\vee	#	System Type		Subtype	··············	Effici	ency	Capacity	Air I	Flow Sh	-IR	Block	Di	ucts
	_ 1	Central Unit/		None		SEE	R: 14	48 kBtu/hr	1440	cfm 0.8	B5	1	sy	/s#1
			· · · · · ·		HOT WA	TER SYSTI	EM							
	#	System Type	SubType	Location	EF	Сар		Use	SetPnt		Conse	ervation	1	
	_ 1	Electric	None	Garage	0.92	40 gal	6	0 gal	120 deg		No	one		
	,		''	SOL	AR HOT	WATER SY	STE	Л						
\checkmark	FSEC Cert #		ame		System M	lodel#	Colle	ector Mode		ollector Area	Storage Volume		FEF	
	None	None								ft²				
					C	DUCTS								
_/	#	Supp Location R-		Ret Location	urn Area	Leakage Ty	ne.	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV/ Heat	AC :
v														1
	_ 1	Attic	6 481 ft ²	Attic	120.25	Prop. Leak F	ree	Garage	cim	72.2 cfm	0.03	0.50	1	

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

OKWIN400-2017 INFOT SOWWAKT OTLOKEIST KEFOKT														
TEMPERATURES														
Program	able Thermo	stat: Y			Cei	ling Fan	s:						<u>-</u>	
Cooling Heating Venting	[] Jan [X] Jan [] Jan	X Feb X Feb	[] Mar X] Mar [X] Mar	Apr Apr X Apr		May May May	[X] Jun [] Jun [] Jun	[X] Jul Jul Jul	[X] Aug Aug Aug	[X]	Sep Sep Sep	Oct Oct X Oct	X Nov X Nov X Nov	[] Dec [X] Dec [] Dec
Thermosta	t Schedule:	HERS 200	6 Reference)				H	ours					
Schedule T	Гуре		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (W	/D)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (W	/EH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Heating (W	/D)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
Heating (W	/EH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
							MASS							
Ma	iss Type			Area			Thickness		Furniture Fra	ction		Space	· · · · · · · · · · · · · · · · · · ·	
De	fault(8 lbs/sq	ı.ft.		O ft²			0 ft		0.3			1st Floor	•	
De	fault(8 lbs/sq	ı.ft.		0 ft²			0 ft		0.3			2nd Floo	г	

Residential System Sizing Calculation

Summary Project Title:

138 SW Heather Court Ft White, FL 32038

Helton Residence

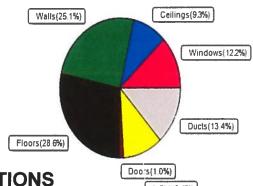
9/16/2019

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)								
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)								
Winter design temperature(TMY3	99%) 30	F	Summer design temperature(TMY	3 99%) 94	F			
Winter setpoint	70	F	Summer setpoint	75	F			
Winter temperature difference	40	F	Summer temperature difference	19	F			
Total heating load calculation	32796	Btuh	Total cooling load calculation	24898	Btuh			
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh			
Total (Electric Heat Pump)	146.4	48000	Sensible (SHR = 0.85)	193.5	40800			
Heat Pump + Auxiliary(0.0kW)	146.4	48000	Latent	188.9	7200			
			Total (Electric Heat Pump)	192.8	48000			

WINTER CALCULATIONS

Winter Heating Load (for 2405 sqft)

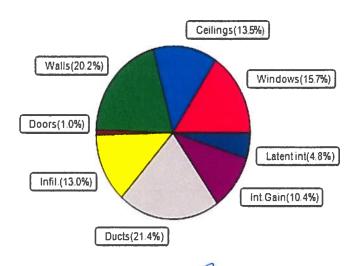
Load component			Load	
Window total	303	sqft	4000	Btuh
Wall total	2389	sqft	8238	Btuh
Door total	20	sqft	320	Btuh
Ceiling total	2405	sqft	3064	Btuh
Floor total	See detail rep	ort	9369	Btuh
Infiltration	78	cfm	3417	Btuh
Duct loss			4389	Btuh
Subtotal			32796	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			32796	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2405 sqft)

Load component			Load	
Window total	303	sqft	3916	Btuh
Wall total	2389	sqft	5026	Btuh
Door total	20	sqft	240	Btuh
Ceiling total	2405	sqft	3370	Btuh
Floor total			0	Btuh
Infiltration	59	cfm	1217	Btuh
Internal gain			2580	Btuh
Duct gain			4738	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			21086	Btuh
Latent gain(ducts)			592	Btuh
Latent gain(infiltration)			2020	Btuh
Latent gain(ventilation)		0	Btuh	
Latent gain(internal/occup	r)	1200	Btuh	
Total latent gain	3812	Btuh		
TOTAL HEAT GAIN			24898	Btuh





EnergyGauge® System Sizing PREPARED BY: ____ DATE: ___

EnergyGauge® / USRCZB v6.1

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 89

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0
3. No. of units (if multiple-family)	31	c) AHU location Garage
4. Number of bedrooms	43	13. Cooling system: Capacity 48.0 a) Split system SEER
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	6. <u>2405</u>	d) Room unit/PTAC EER
7. Windows, type and areaa) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)c) Area	7a. 0.330 7b. 0.220 7c. 303.0	14. Heating system: Capacity 48.0 a) Split system heat pump HSPF b) Single package heat pump HSPF
Skylights a) U-factor:(weighted average)	8a NA	c) Electric resistance COP d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	e) Gas furnace, LPG AFUE 8.50
9. Floor type, insulation level: a) Slab-on-grade (R-value) b) Wood, raised (R-value) c) Concrete, raised (R-value)	9a. 0.0 9b. 9c.	15. Water heating system a) Electric resistance EF 0.92 b) Gas fired, natural gas EF
Wall type and insulation: A. Exterior:		c) Gas fired, LPG
 Wood frame (Insulation R-value) Masonry (Insulation R-value) Adjacent: Wood frame (Insulation R-value) Masonry (Insulation R-value) 	10A1. <u>13.0</u> 10A2 10B1. <u>13.0</u> 10B2	e) Dedicated heat pump with tank EF f) Heat recovery unit HeatRec% g) Other
11. Ceiling type and insulation level		16. HVAC credits claimed (Performance Method)
a) Under attic b) Single assembly c) Knee walls/skylight walls d) Radiant barrier installed	11a. <u>30.0</u> 11b 11c 11d. <u>No</u>	a) Ceiling fans b) Cross ventilation c) Whole house fan d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat No No Yes
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ene	rgy Conservation, if not DEFAULT.
I certify that this home has complied with the saving features which will be installed (or excedisplay card will be completed based on installed)	eeded) in this home befor	e final inspection. Otherwise, a new EPL
Builder Signature:		Date:
Address of New Home: <u>138 SW Heather Co</u>	urt	City/FL Zip: Ft White, FL 32038

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 89

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level a) Supply ducts R 6.0
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0 c) AHU location Garage
3. No. of units (if multiple-family)	31	o, 711 10 100dilon
4. Number of bedrooms	43	13. Cooling system: Capacity 48.0 a) Split system SEER
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	62405	d) Room unit/PTAC EER
7. Windows, type and areaa) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)c) Area	7a. 0.330 7b. 0.220 7c. 303.0	14. Heating system: Capacity 48.0 a) Split system heat pump HSPF b) Single package heat pump HSPF
8. Skylights		c) Electric resistance COP
a) U-factor:(weighted average)	8a. <u>NA</u>	d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	e) Gas furnace, LPG AFUE
9. Floor type, insulation level:		f) Other 8.50
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	
b) Wood, raised (R-value)	9b	15. Water heating system
c) Concrete, raised (R-value)	9c	a) Electric resistance EF 0.92
10. Wall type and insulation:		b) Gas fired, natural gas EF c) Gas fired, LPG EF
A. Exterior:		d) Solar system with tank EF
Wood frame (Insulation R-value)	10A1. <u>13.0</u>	e) Dedicated heat pump with tank EF
2. Masonry (Insulation R-value)	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:		g) Other
Wood frame (Insulation R-value)	10B1. 13.0	5) - 11.0
2. Masonry (Insulation R-value)	10B2	
		16. HVAC credits claimed (Performance Method)
11. Ceiling type and insulation level		a) Ceiling fans
a) Under attic	11a. <u>30.0</u>	b) Cross ventilation No
b) Single assembly	11b	c) Whole house fanNo
c) Knee walls/skylight walls	11c	d) Multizone cooling credit
d) Radiant barrier installed	11dNo_	e) Multizone heating credit
		f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ene	rgy Conservation, if not DEFAULT.
I certify that this home has complied with the is saving features which will be installed (or exceedisplay card will be completed based on installed).	eeded) in this home befor	re final inspection. Otherwise, a new EPL
Builder Signature:		Date:
Address of New Home: 138 SW Heather Co	uet	City/El Zin: Et Mhito El 22020