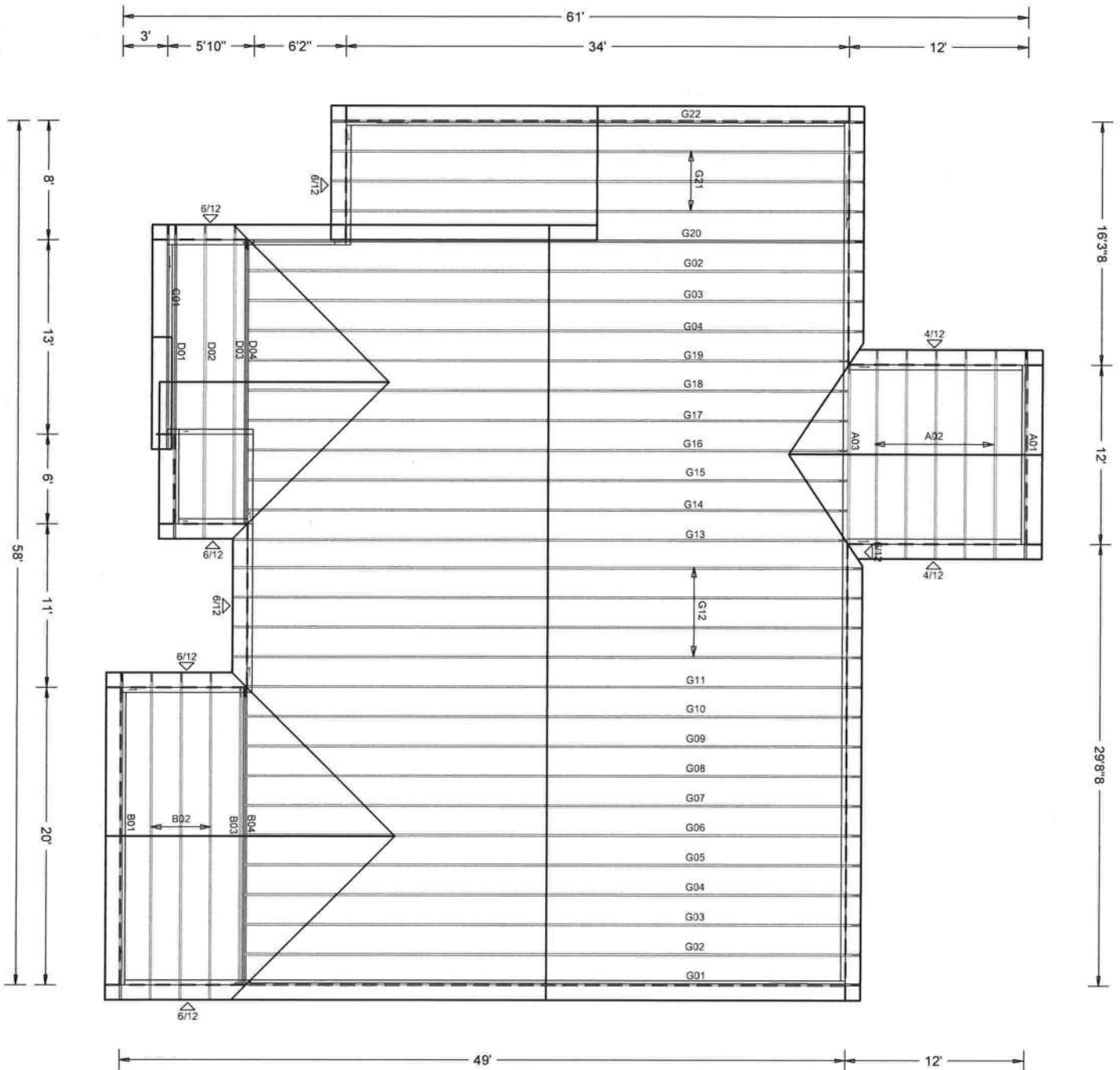




W.B. Howland Truss Co.
 610 11th St. SW
 Live Oak, FL 32064
 (386) 362-1235
 (386) 362-7124 (Fax)
howlandtruss@gmail.com

ROOF PITCH: 4, 6/12
 OVERHANG: 1'
 CEILING: 9'
 EXT. WALLS:
 LOADING: 40psf
 WIND LOAD: 130mph
 EXPOSURE: C

DATE: 1/5/20

Total Truss Quantity = 51.

Job Name: Johnson Devon (Lexington)
 Customer: Red Door Homes
 Designer: Kelly Caudill
 ADDRESS:
 SALESMAN: HOUSE
 : <Not Found>

JOB #: 20-4936

JOB NO:

20-4936

PAGE NO:

1 OF 1

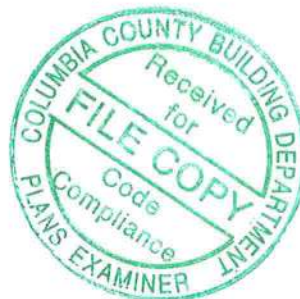


This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.



FL REG# 278, Yoonhwak Kim, FL PE #86367

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



Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 20-4936
Job Description: Johnson Devon (Lexington)	
Address: FL	

Job Engineering Criteria:			
Design Code: FBC 7th Ed. 2020 Res		IntelliVIEW Version: 20.01.01A	
		JRef #: 1X1T2150003	
Wind Standard: ASCE 7-16	Wind Speed (mph): 130	Design Loading (psf): 40.00	
Building Type: Closed			

This package contains general notes pages, 34 truss drawing(s) and 3 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	005.21.1540.10760	A01	2	005.21.1540.12283	A02
3	005.21.1540.14867	G22	4	005.21.1540.16880	G12
5	005.21.1540.18457	G21	6	005.21.1540.20327	B02
7	005.21.1540.22330	D02	8	005.21.1540.24853	D03
9	005.21.1540.27060	B03	10	005.21.1540.28793	B01
11	005.21.1540.30537	G13	12	005.21.1540.31803	A03
13	005.21.1540.33937	D01	14	005.21.1540.35830	C01
15	005.21.1540.37757	G11	16	005.21.1540.39100	G16
17	005.21.1540.40227	G19	18	005.21.1540.41417	G02
19	005.21.1540.43007	G17	20	005.21.1540.44947	G04
21	005.21.1540.48103	G20	22	005.21.1540.50443	G15
23	005.21.1540.52260	G18	24	005.21.1540.54077	G03
25	005.21.1541.24287	D04	26	005.21.1541.26943	G10
27	005.21.1541.28710	G07	28	005.21.1541.30257	G09
29	005.21.1541.31667	G06	30	005.21.1541.33083	G08
31	005.21.1541.34793	G05	32	005.21.1541.40933	B04
33	005.21.1541.43327	G14	34	005.21.1541.52747	G01
35	A14015ENC160118		36	GBLLETIN0118	
37	BRCLBSUB0119				

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 AWC. 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.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

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.

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

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.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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 vertical Deflection due to creep, 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(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

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.

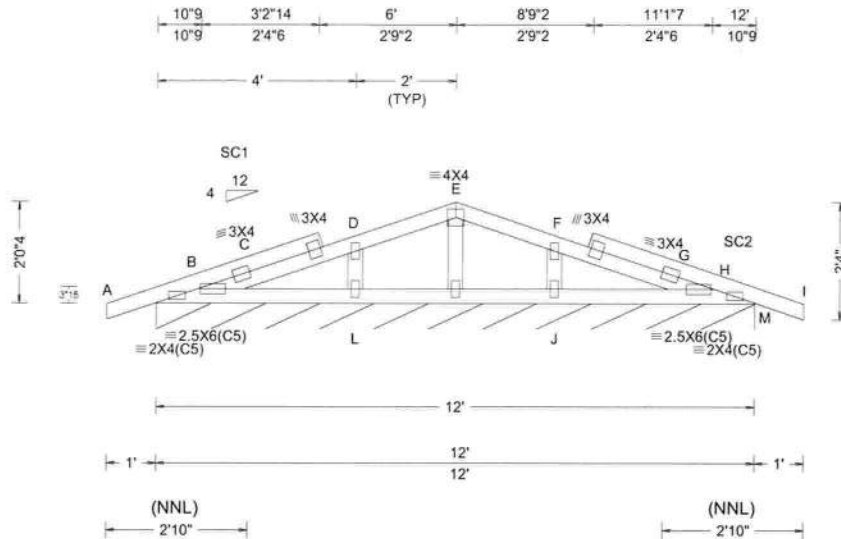
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.com.

SEQN: 352126 FROM: CDM	GABL Qty: 1	Ply: 1 Qty: 1	Job Number: 20-4936 Johnson Devon (Lexington) Truss Label: A01	Cust: R 215 JRef: 1X1T2150003 T2 DrwNo: 005.21.1540.10760 / YK 01/05/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
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"	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.008 G 999 480 VERT(CL): 0.015 G 999 360 HORZ(LL): 0.003 C - - HORZ(TL): 0.005 C - - Creep Factor: 2.0 Max TC CSI: 0.289 Max BC CSI: 0.101 Max Web CSI: 0.036 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL M* 167 /- /- /71 /- /3 Wind reactions based on MWFRS M Brg Width = 143 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Gable Forces Per Ply (lbs) Gables Tens.Comp. Gables Tens. Comp. D - L 0 -403 J - F 311 -403

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 2.30 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.

The overall height of this truss excluding overhang is 2-0-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

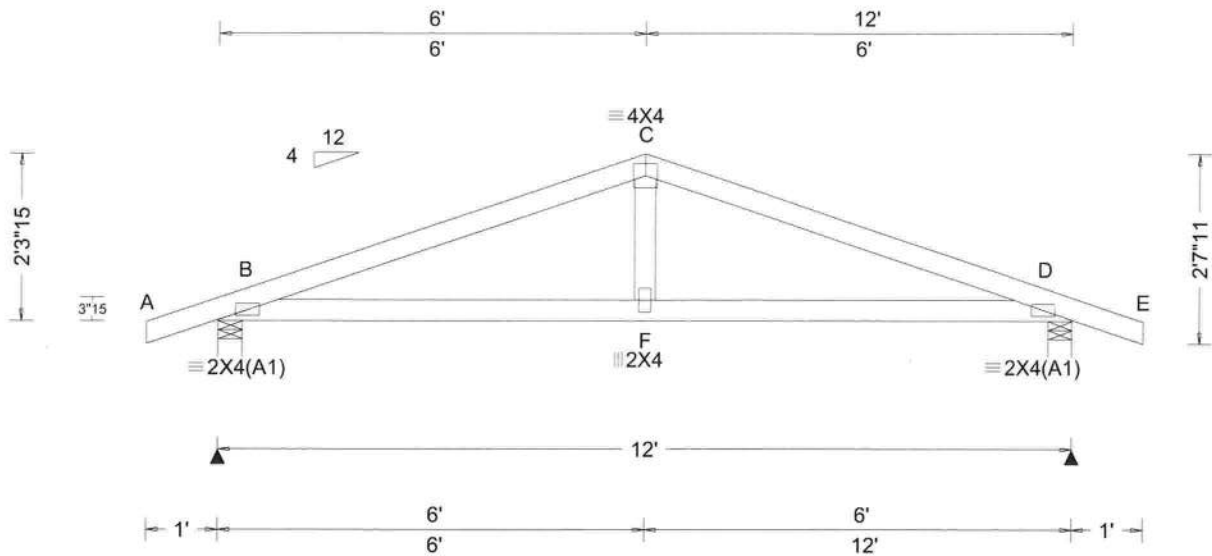
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached 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. Refer to job's General Notes page for additional information.

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 these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609264 FROM: CDM	COMN Ply: 1 Qty: 5	Job Number: 20-4936 Johnson Devon (Lexington) Truss Label: A02	Cust: R 215 JRef: 1X1T2150003 T1 DrwNo: 005.21.1540.12283 / YK 01/05/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.021 F 999 480 VERT(CL): 0.041 F 999 360 HORZ(LL): 0.007 F - - HORZ(TL): 0.014 F - - Creep Factor: 2.0 Max TC CSI: 0.362 Max BC CSI: 0.455 Max Web CSI: 0.098 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 552 /- /- /327 /106 /60 D 552 /- /- /327 /106 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 D Brg Width = 4.0 Min Req = 1.5 Bearings B & D 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 700 -867 C - D 700 -867

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2'-3-15.



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01/05/2021

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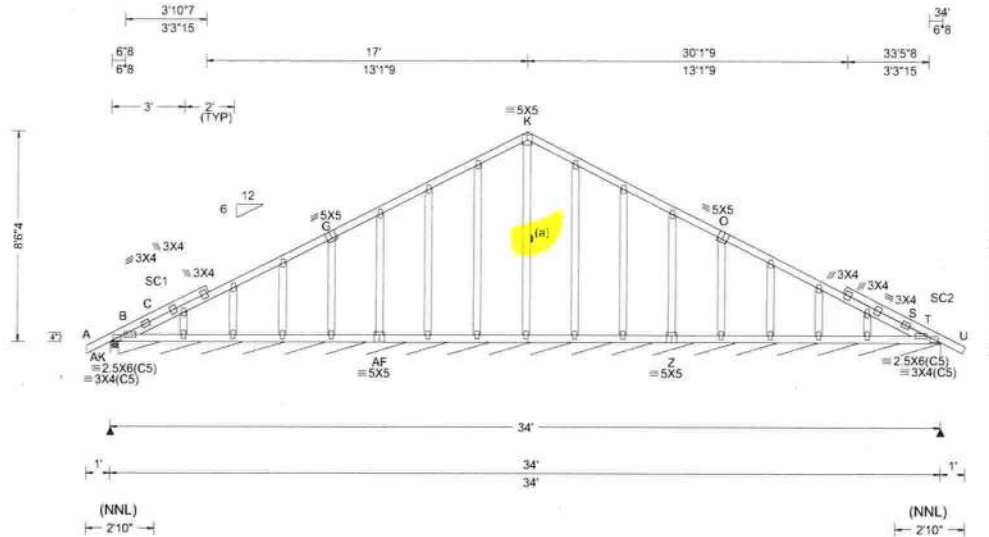
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609267 FROM: CDM	GABL Qty: 1	Ply: 1 Job Number: 20-4936 Johnson Devon (Lexington) Truss Label: G22	Cust: R 215 JRef: 1X1T2150003 T26 DrwNo: 005.21.1540.14867 / YK 01/05/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCCL: 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"	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.40 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.003 S 999 480 VERT(CL): 0.006 S 999 360 HORZ(LL): 0.001 R - - HORZ(TL): 0.002 R - - Creep Factor: 2.0 Max TC CSI: 0.224 Max BC CSI: 0.059 Max Web CSI: 0.144 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AK 412 /- /- /244 /31 /52 T* 153 /- /- /66 /- /- Wind reactions based on MWFRS AK Brg Width = 4.0 Min Req = 1.5 T Brg Width = 404 Min Req = - Bearings AK & B 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 460 -138 G - K 487 -76 C - G 484 -88 K - O 434 -99 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - AF 426 -23 Z - T 413 -23 AF - Z 421 -26

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 2.30 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

Wind loads based on MWFRS with additional C&C member design.

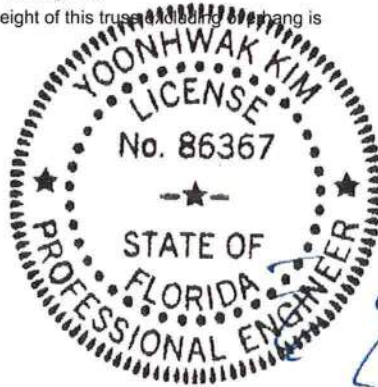
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

The overall height of this truss including bracing is 8-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

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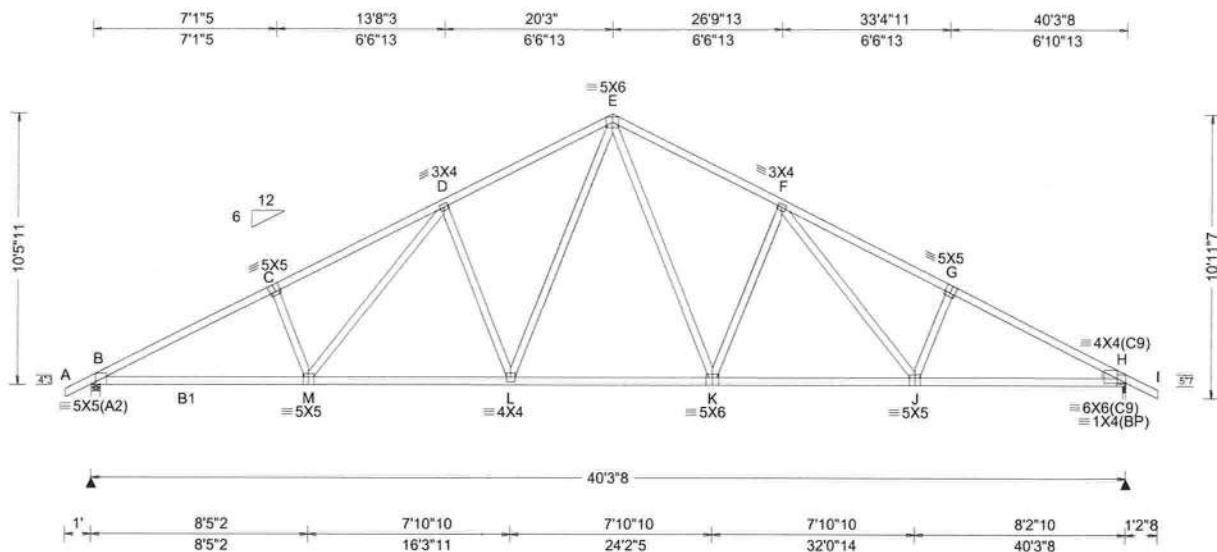
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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 SBICA) 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 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. Refer to job's General Notes page for additional information.

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBICA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.03 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.229 L 999 480 VERT(CL): 0.417 L 999 360 HORZ(LL): 0.079 J - - HORZ(TL): 0.144 J - - Creep Factor: 2.0 Max TC CSI: 0.714 Max BC CSI: 0.942 Max Web CSI: 0.711 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1957 /- /- /1039 /33 /303 H 1966 /- /- /1044 /34 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 2.3 H Brg Width = 1.5 Min Req = 1.5 Bearings B & H 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 675 -3597 E - F 660 -2722 C - D 727 -3447 F - G 715 -3394 D - E 661 -2727 G - H 663 -3545

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31; B1 2x4 SP #2;
Webs: 2x4 SP #3;
Rt Wedge: 2x4 SP #3;

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10'-5-11".



FL REG# 278, Yoonhwak Kim, FL PE #86367
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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - M	3134 -502	K - J	2590 -335
M - L	2602 -348	J - H	3080 -481
L - K	1974 -166		

Maximum Web Forces Per Ply (lbs)

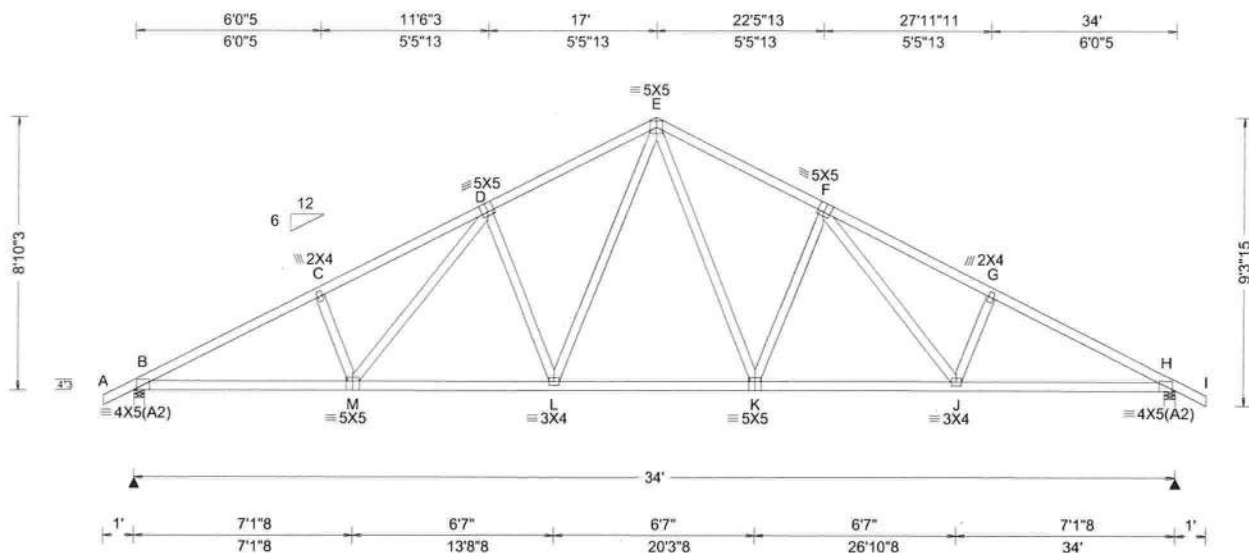
Webs	Tens.Comp.	Webs	Tens. Comp.
M - D	666 -145	E - K	1037 -206
D - L	293 -675	K - F	289 -656
L - E	1052 -207	F - J	611 -132

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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.40 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.163 L 999 480 VERT(CL): 0.303 L 999 360 HORZ(LL): 0.064 J - - HORZ(TL): 0.118 J - - Creep Factor: 2.0 Max TC CSI: 0.384 Max BC CSI: 0.880 Max Web CSI: 0.524 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1618 /- /- /872 /257 /248 H 1618 /- /- /872 /257 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.9 H Brg Width = 4.0 Min Req = 1.9 Bearings B & H 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 1059 -2907 E - F 974 -2208 C - D 1112 -2783 F - G 1111 -2784 D - E 974 -2209 G - H 1058 -2908

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 8-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - M	2529 -840	K - J	2107 -594
M - L	2107 -618	J - H	2530 -822
L - K	1604 -359		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
M - D	526 -221	E - K	836 -324
D - L	393 -551	K - F	393 -553
L - E	839 -323	F - J	528 -220

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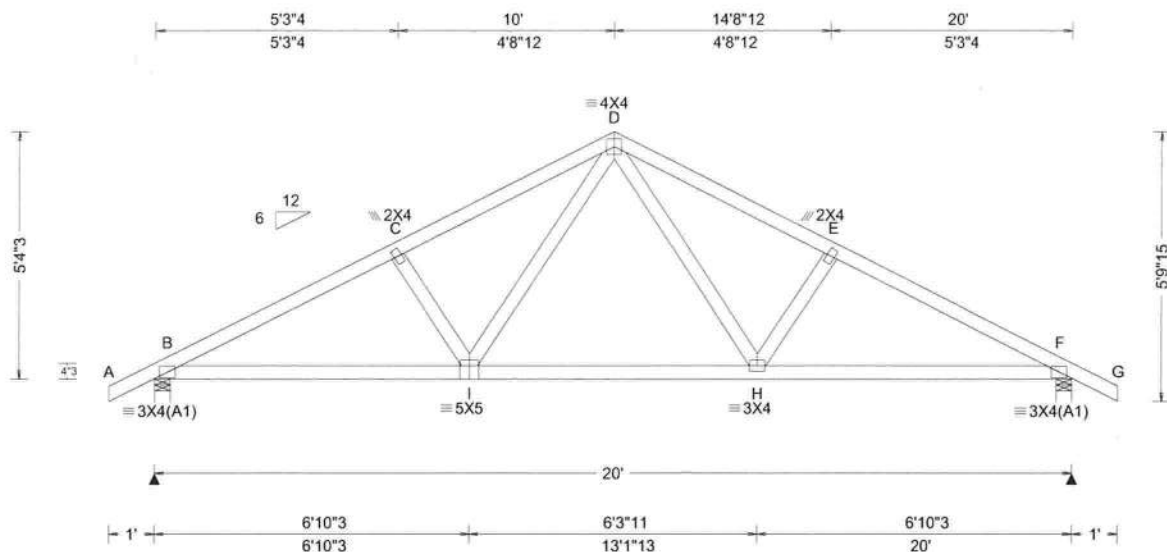
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.040 H 999 480 VERT(CL): 0.081 H 999 360 HORZ(LL): 0.016 H - - HORZ(TL): 0.032 H - - Creep Factor: 2.0 Max TC CSI: 0.238 Max BC CSI: 0.503 Max Web CSI: 0.166 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 890 /- /- /531 /157 /154 F 890 /- /- /531 /157 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 F Brg Width = 4.0 Min Req = 1.5 Bearings B & F 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 629 - 1375 D - E 630 - 1218 C - D 631 - 1218 E - F 628 - 1376

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5-4-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - I	1175 - 477	H - F	1176 - 454
I - H	798 - 229		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
I - D	433 - 196	D - H	435 - 196

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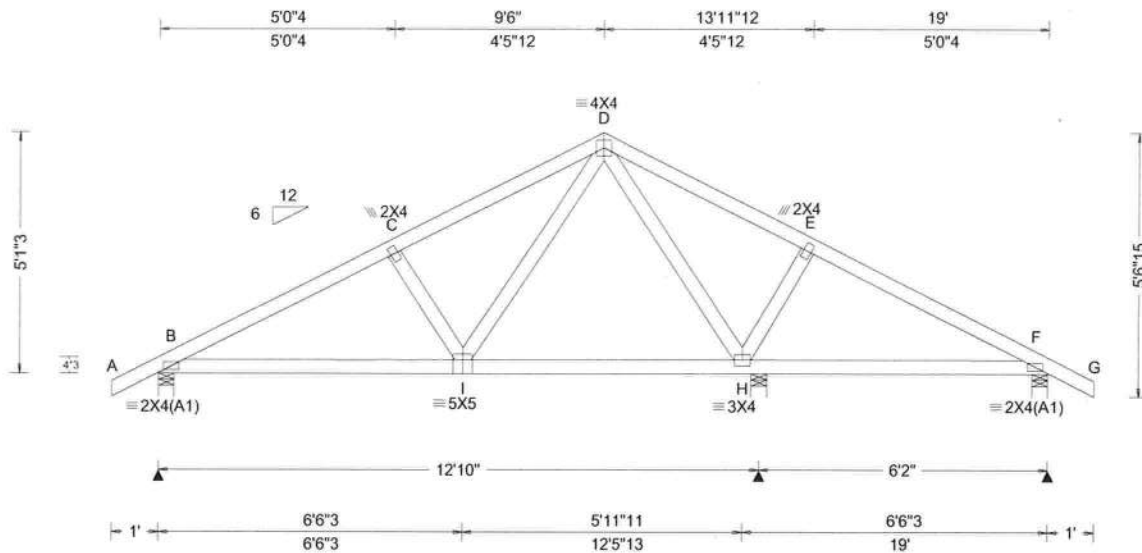
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609341
FROM: CDM

COMN Ply: 1
Qty: 1

Job Number: 20-4936
Johnson Devon (Lexington)
Truss Label: D02

Cust: R 215 JRef: 1X1T2150003 T8
DrwNo: 005.21.1540.22330
/ YK 01/05/2021



Loading Criteria (psf)
TCLL: 20.00
TCCL: 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 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpc: 0.18
Wind Duration: 1.60

Snow Criteria (Pg, Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT: 20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): 0.018 I 999 480
VERT(CL): 0.035 I 999 360
HORZ(LL): 0.006 H - -
HORZ(TL): 0.013 H - -
Creep Factor: 2.0
Max TC CSI: 0.236
Max BC CSI: 0.489
Max Web CSI: 0.233

VIEW Ver: 20.01.01A.0724.11

Maximum Reactions (lbs)

Loc	Gravity			Non-Gravity		
	R+	R-	Rh	Rw	U	RL
B	634	-	-	/393	/117	/147
H	670	-	-	/362	/105	-
F	395	-	-	/266	/79	-

Wind reactions based on MWFRS

B Brg Width = 4.0 Min Req = 1.5
H Brg Width = 4.0 Min Req = 1.5
F Brg Width = 4.0 Min Req = 1.5

Bearings B, H, & F 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	421 -848	C - D	420 -698

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - I	708 -290	H - F	558 -150

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
I - D	450 -214

Lumber

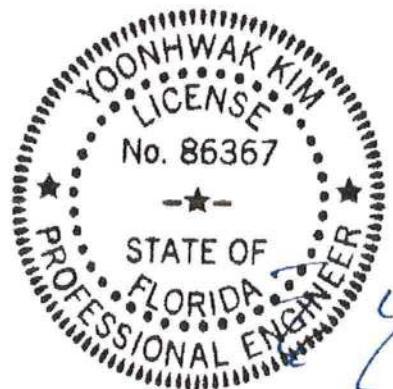
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5'-1-3/4".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

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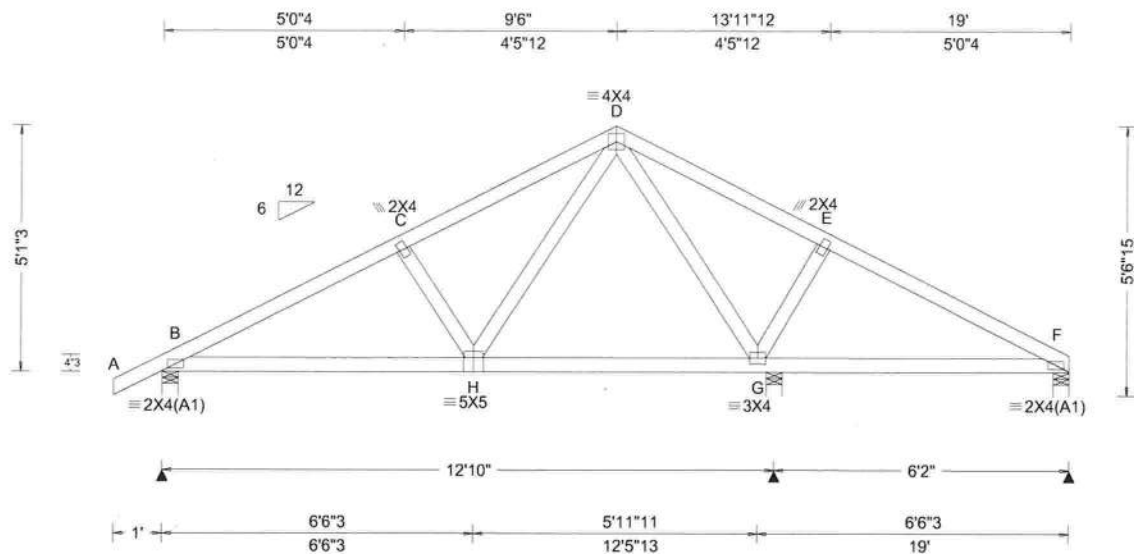
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Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.018 H 999 480 VERT(CL): 0.035 H 999 360 HORZ(LL): 0.006 G - - HORZ(TL): 0.013 G - - Creep Factor: 2.0 Max TC CSI: 0.249 Max BC CSI: 0.516 Max Web CSI: 0.231 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 635 -/- /394 /116 /138 G 673 -/- /363 /109 -/ F 324 -/- /205 /58 -/ Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 G Brg Width = 4.0 Min Req = 1.5 F Brg Width = 4.0 Min Req = 1.5 Bearings B, G, & F 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.

Lumber

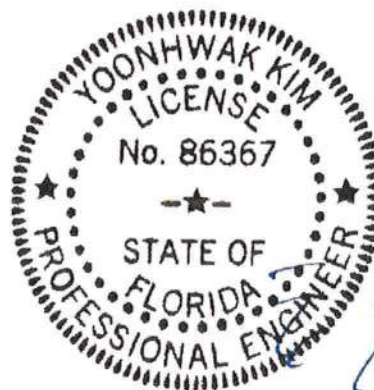
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5'-1-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	710 -215	G - F	579 -134

Maximum Web Forces Per Ply (lbs)	
Webs	Tens.Comp.
H - D	449 -145

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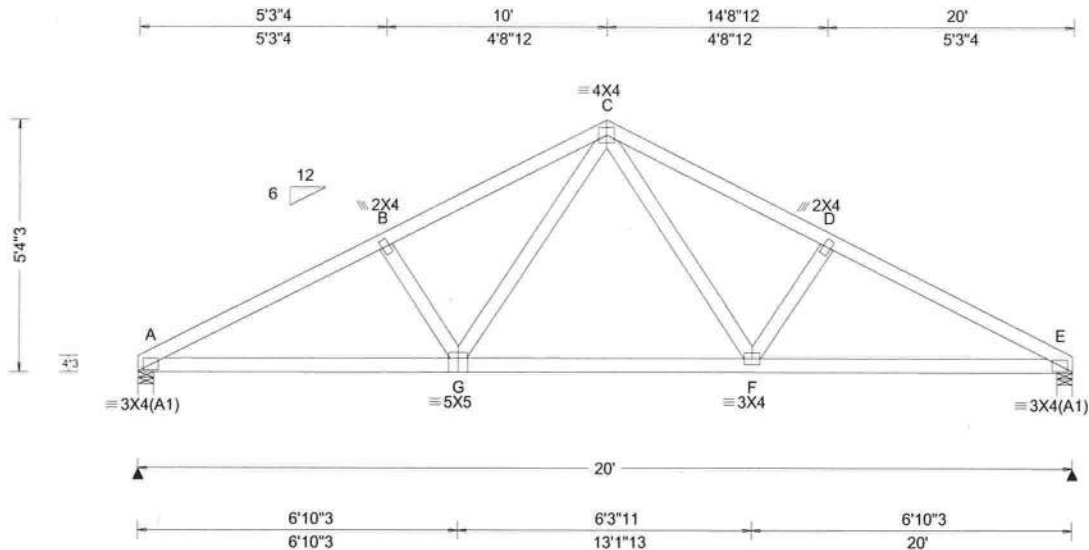
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609347
FROM: CDM

COMN Ply: 1
Qty: 1

Job Number: 20-4936
Johnson Devon (Lexington)
Truss Label: B03

Cust: R 215 JRef: 1X1T2150003 T6
DrwNo: 005.21.1540.27060
/ YK 01/05/2021



Loading Criteria (psf)
TCLL: 20.00
TCCL: 10.00
BCCL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCCL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA
Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT: 20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): 0.039 F 999 480
VERT(CL): 0.081 F 999 360
HORZ(LL): 0.016 F - -
HORZ(TL): 0.033 F - -
Creep Factor: 2.0
Max TC CSI: 0.254
Max BC CSI: 0.510
Max Web CSI: 0.170

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)
Gravity Non-Gravity
Loc R+ / R- / Rh / Rw / U / RL
A 824 /- /- /475 /140 /128
E 824 /- /- /475 /140 /-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
E Brg Width = 4.0 Min Req = 1.5
Bearings A & E 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.
A - B 452 -1393 C - D 457 -1235
B - C 458 -1235 D - E 452 -1394

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
A - G 1193 -349 F - E 1194 -335
G - F 807 -163

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
G - C 444 -138 C - F 446 -138

Lumber

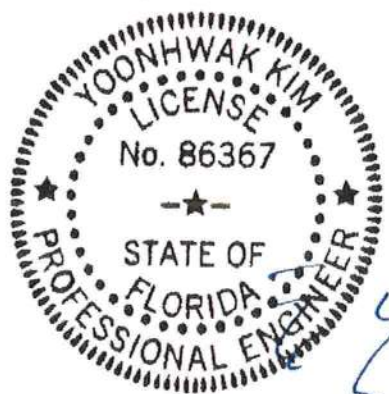
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5-4-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

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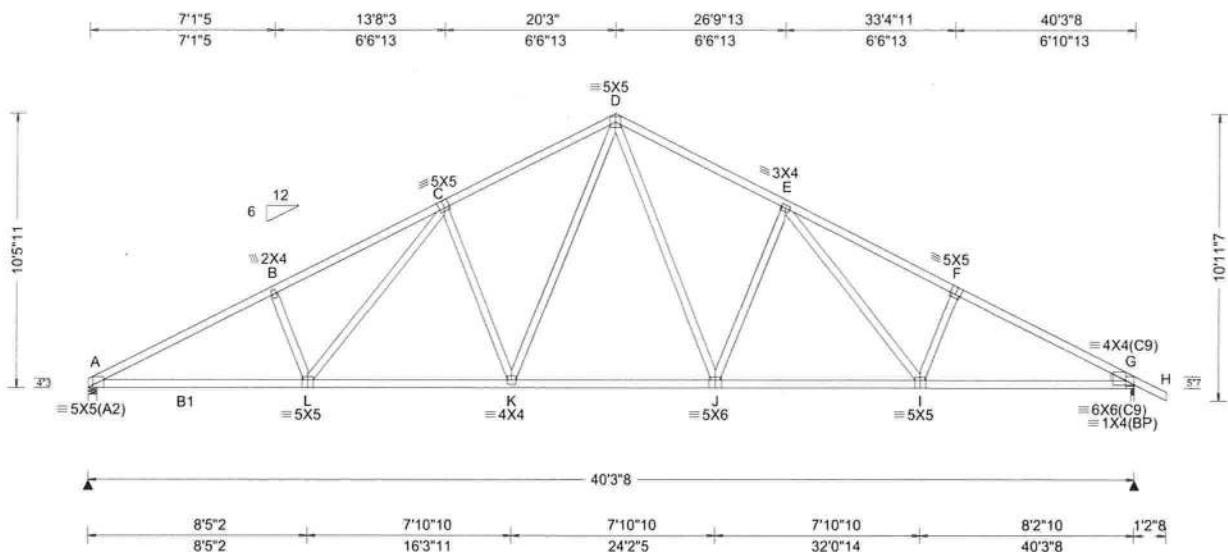
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Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.03 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.229 K 999 480 VERT(CL): 0.417 K 999 360 HORZ(LL): 0.079 I - - HORZ(TL): 0.144 I - - Creep Factor: 2.0 Max TC CSI: 0.733 Max BC CSI: 0.948 Max Web CSI: 0.712 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1890 /- /- /982 /28 /294 G 1968 /- /- /1044 /34 /- Wind reactions based on MWFRS A Brg Width = 4.0 Min Req = 2.2 G Brg Width = 1.5 Min Req = 1.5 Bearings A & G 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. A - B 687 -3610 D - E 661 -2724 B - C 740 -3462 E - F 716 -3396 C - D 663 -2729 F - G 664 -3548

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31; B1 2x4 SP #2;
Webs: 2x4 SP #3;
Rt Wedge: 2x4 SP #3;

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10'-5-11".



FL REG# 278, Yoonhwak Kim, FL PE #86367
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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - L	3148 -508	J - I	2592 -337
L - K	2605 -349	I - G	3082 -483
K - J	1977 -167		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L - C	680 -165	D - J	1037 -206
C - K	293 -676	J - E	288 -655
K - D	1052 -207	E - I	610 -132

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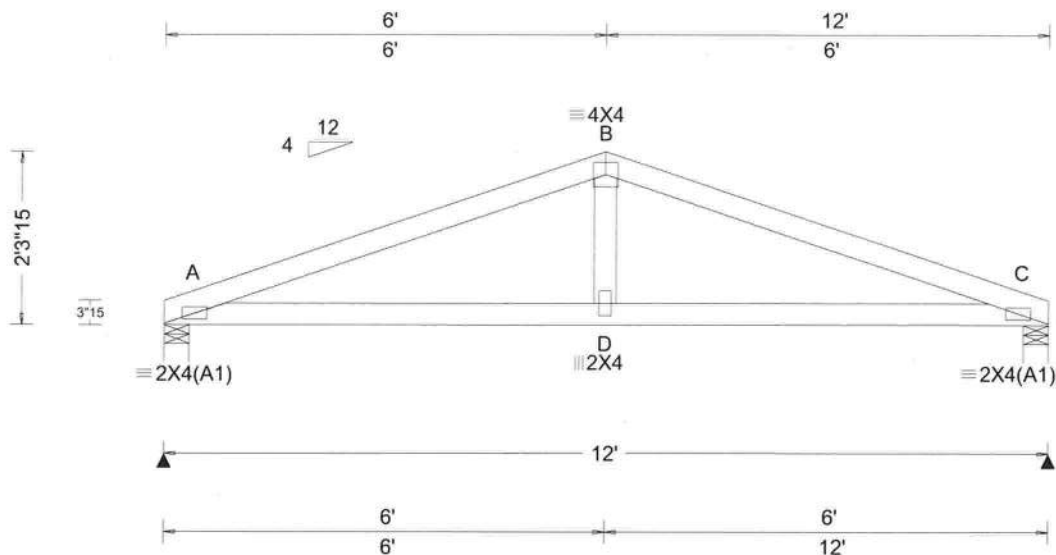
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SEQN: 609389 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 20-4936 Johnson Devon (Lexington) Truss Label: A03	Cust: R 215 JRef: 1X1T2150003 T3 DrwNo: 005.21.1540.31803 / YK 01/05/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.020 D 999 480 VERT(CL): 0.041 D 999 360 HORZ(LL): 0.007 D - - HORZ(TL): 0.014 D - - Creep Factor: 2.0 Max TC CSI: 0.325 Max BC CSI: 0.467 Max Web CSI: 0.100 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 486 /- /- /274 /88 /44 C 486 /- /- /274 /88 /- Wind reactions based on MWFRS A Brg Width = 4.0 Min Req = 1.5 C Brg Width = 4.0 Min Req = 1.5 Bearings A & C 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. A - B 492 -897 B - C 492 -897

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-3-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

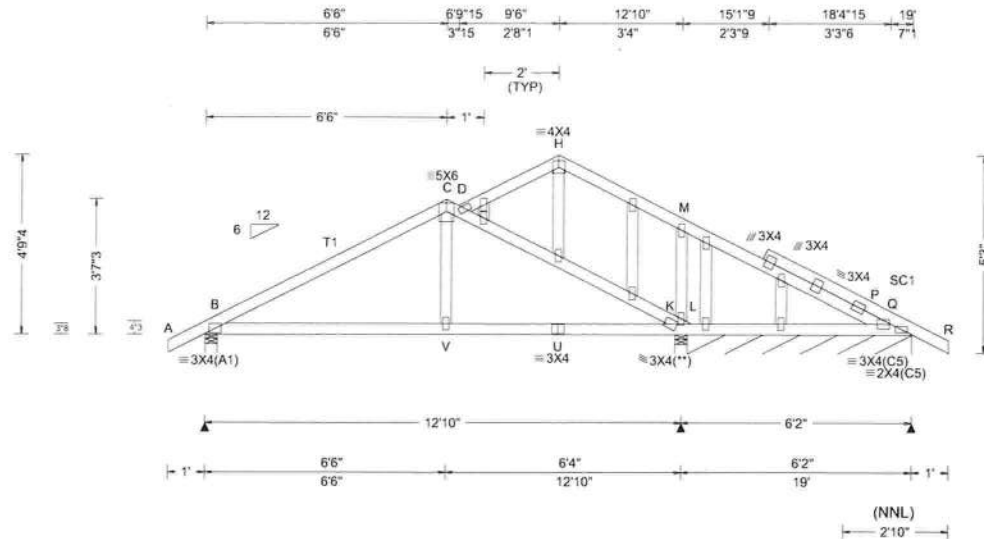
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SEQN: 609422 FROM: CDM	GABL Qty: 1	Ply: 1 Qty: 1	Job Number: 20-4936 Johnson Devon (Lexington) Truss Label: D01	Cust: R 215 JRef: 1X1T2150003 T10 DrwNo: 005.21.1540.33937 / YK 01/05/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
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"	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.025 H 999 480 VERT(CL): 0.046 H 999 360 HORZ(LL): 0.017 N - - HORZ(TL): 0.032 N - - Creep Factor: 2.0 Max TC CSI: 0.746 Max BC CSI: 0.576 Max Web CSI: 0.104 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1187 - / - / - / 679 / 195 / 310 L 924 - / - / - / 555 - / - Q* 173 - / - / - / 71 - / - Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 L Brg Width = 4.0 Min Req = 1.5 Q Brg Width = 72.0 Min Req = - Bearings B, L, & L 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.

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 2.30 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Blocking

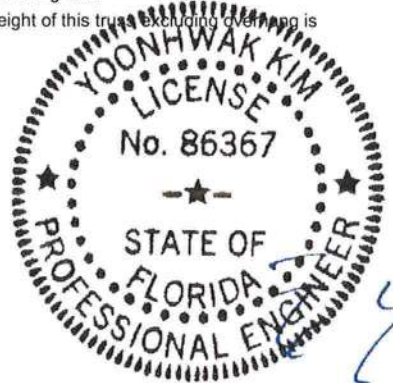
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 2 located at 12.7' (blocking >= 3.50" if used)

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.

The overall height of this truss excluding overhang is 4-9-4.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - V	1166 -677	U - L	1166 -677
V - U	1166 -677	L - Q	381 -181

FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

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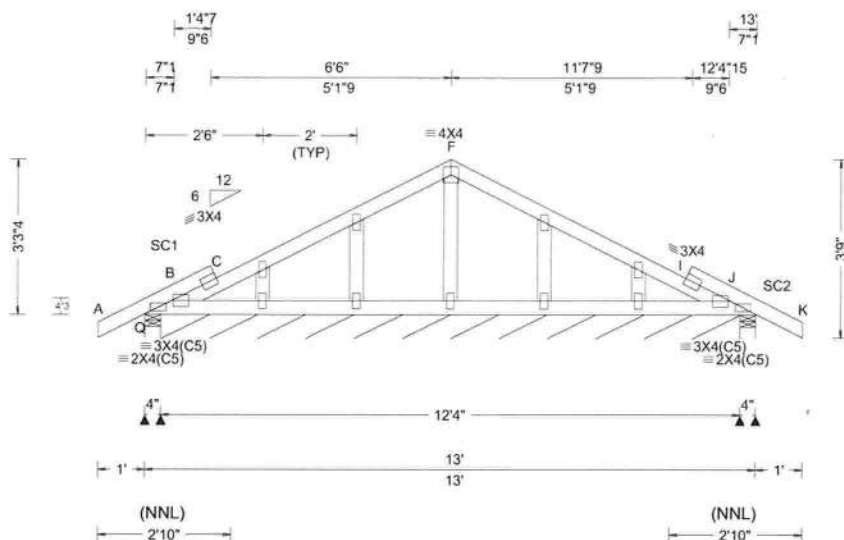
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SEQN: 609407 FROM: CDM	GABL Qty: 1	Ply: 1 Qty: 1	Job Number: 20-4936 Johnson Devon (Lexington) Truss Label: C01	Cust: R 215 JRef: 1X1T2150003 T9 DrwNo: 005.21.1540.35830 / YK 01/05/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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 C 999 480 VERT(CL): 0.003 C 999 360 HORZ(LL): 0.000 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.222 Max BC CSI: 0.039 Max Web CSI: 0.075 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL Q 383 /- /- /233 /87 /51 B* 118 /- /- /53 /- /- J 383 /- /- /239 /87 /- Wind reactions based on MWFRS Q Brg Width = 4.0 Min Req = 1.5 B Brg Width = 147 Min Req = - J Brg Width = 4.0 Min Req = 1.5 Bearings Q, B, & J are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 2.30 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

Wind loads based on MWFRS with additional C&C member design.

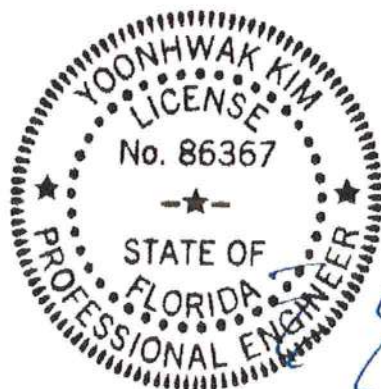
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.

The overall height of this truss excluding overhang is 3-3-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

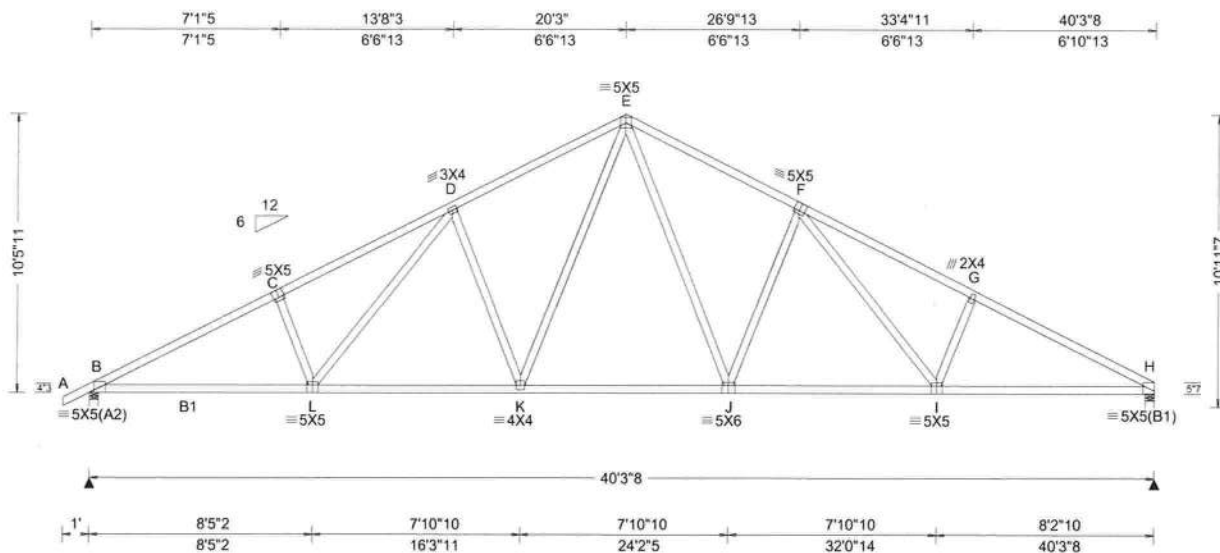
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Loading Criteria (psf)	
TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria	
Wind Std:	ASCE 7-16
Speed:	130 mph
Enclosure:	Closed
Risk Category:	II
EXP: C	Kzt: NA
Mean Height:	15.00 ft
TCDL:	5.0 psf
BCDL:	5.0 psf
MWFRS Parallel Dist:	h to 2h
C&C Dist a:	4.05 ft
Loc. from endwall:	not in 13.00 ft
GCpt:	0.18
Wind Duration:	1.60

Snow Criteria (Pg.Pf in PSF)	
Pg: NA	Ct: NA
Pf: NA	Ce: NA
Lu: NA	Cs: NA
Snow Duration: NA	
Building Code:	
FBC 7th Ed. 2020 Res.	
TPI Std: 2014	
Rep Fac: Yes	
FT/RT: 20(0)/10(0)	
Plate Type(s):	
WAVE	

Defl/CSI Criteria	
PP Deflection in	loc L/defl L/#
VERT(LL):	0.230 K 999 480
VERT(CL):	0.419 K 999 360
HORZ(LL):	0.083 I - -
HORZ(TL):	0.151 I - -
Creep Factor:	2.0
Max TC CSI:	0.771
Max BC CSI:	0.941
Max Web CSI:	0.709

▲ Maximum Reactions (lbs)						
Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1950	/-	/-	/1037	/33	/289
H	1885	/-	/-	/978	/28	/-
Wind reactions based on MWFRS						
B	Brg Width = 4.0			Min Req = 2.3		
H	Brg Width = 4.0			Min Req = 1.5		
Bearings B & H 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	674	-3581	E - F	661	-2707	
C - D	727	-3433	F - G	721	-3359	
D - E	661	-2716	G - H	669	-3511	

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.		Chords	Tens. Comp.
B - L	3120	-543	J - I	2572 -367
L - K	2591	-389	I - H	3047 -520
K - J	1966	-207		

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.		Webs	Tens. Comp.	
L - D	662	-145	E - J	1026	-204
D - K	292	-673	J - F	286	-642
K - E	1049	-207	F - I	589	-148

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31; B1 2x4 SP #2;
Webs: 2x4 SP #3;

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

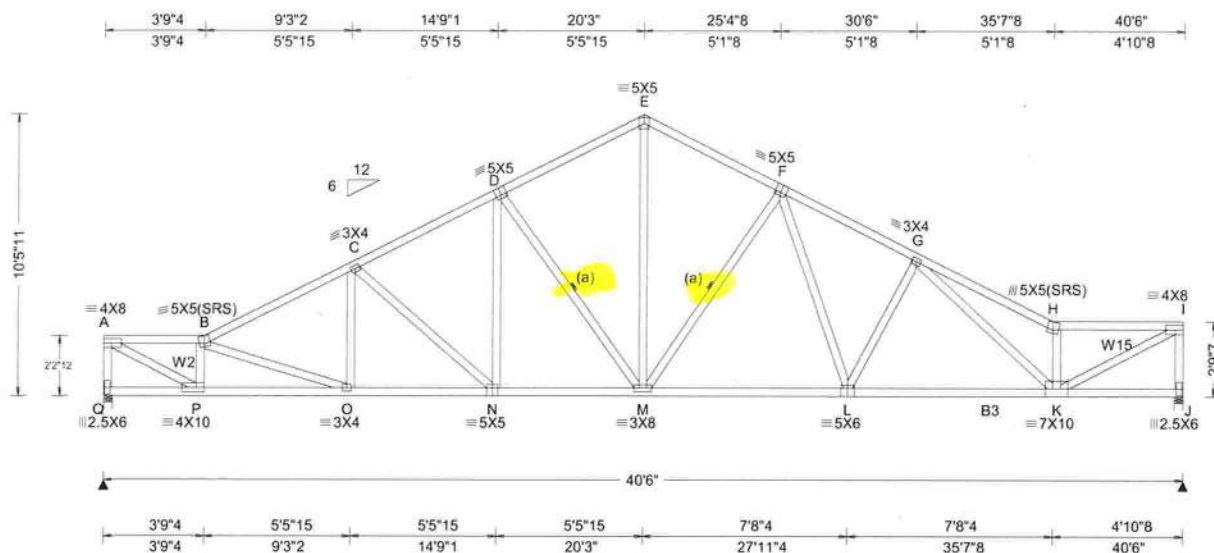
The overall height of this truss excluding overhang is 10-5-11.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity				Non-Gravity			
TCDL: 10.00		Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.231 M 999 480	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.443 M 999 360	Q	1783	/-	/-	/930	/35	/222	
BCDL: 10.00		Risk Category: II	Snow Duration: NA	HORZ(LL): 0.069 J - -	J	1768	/-	/-	/899	/37	/-	
Des Ld: 40.00		EXP: C Kzt: NA	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.132 J - -	Wind reactions based on MWFRS							
NCBCLL: 10.00		Mean Height: 15.45 ft		Creep Factor: 2.0	Q	Brg Width = 4.0		Min Req = 2.1				
Soffit: 2.00		TCDL: 5.0 psf		Max TC CSI: 0.552	J	Brg Width = 4.0		Min Req = 1.5				
Load Duration: 1.25		BCDL: 5.0 psf		Max BC CSI: 0.981	Bearings Q & J are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h		Max Web CSI: 0.777	Members not listed have forces less than 375#							
		C&C Dist a: 4.05 ft			Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: not in 13.00 ft			Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18			A - B		689 -2962		E - F		617 -2176	
		Wind Duration: 1.60		VIEW Ver: 20.01.01A.0724.11								

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2; B3 2x4 SP M-31;
Webs: 2x4 SP #3; W2, W15 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

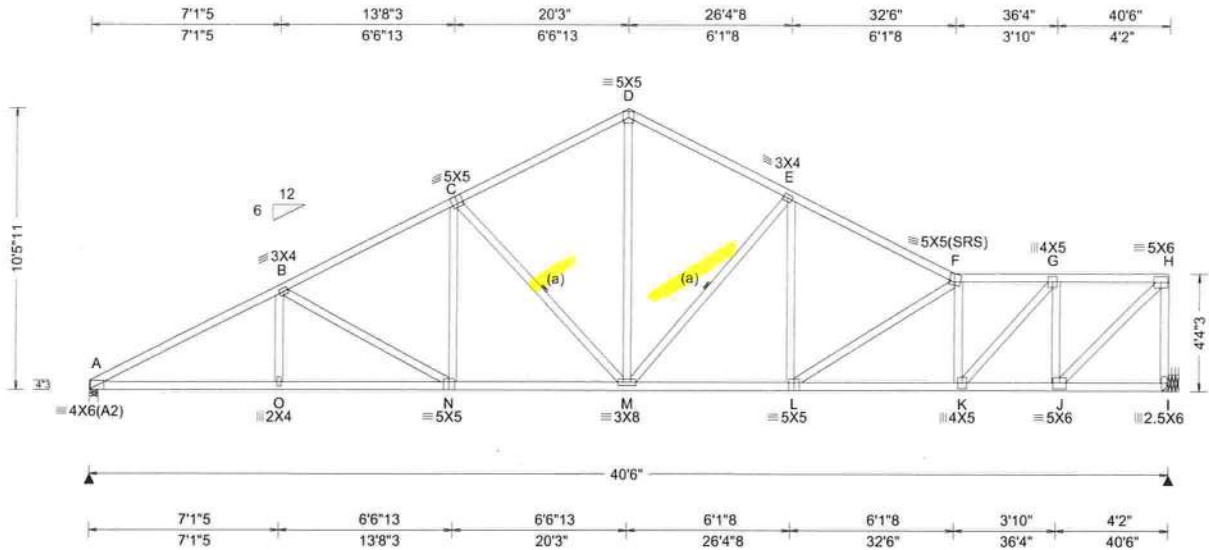
The overall height of this truss excluding overhang is 10'-5 1/2".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

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Suite 305
Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity		
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.209 M 999 480	Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.405 M 999 360	A	1784 /-	/-	/998	/34	/268
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.079 J - -	I	1741 /-	/-	/854	/91	/-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.154 J - -	Wind reactions based on MWFRS					
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	A Brg Width = 4.0			Min Req = 2.1		
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.717	I Brg Width = -			Min Req = -		
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.878	Bearing A is a rigid surface.					
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.868	Members not listed have forces less than 375#					
	C&C Dist a: 4.05 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)					
	Loc. from endwall: not in 13.00 ft	Plate Type(s):		Chords	Tens.Comp.	Chords	Tens. Comp.		
	GCpi: 0.18			A - B	704 -3383	E - F	680 -2770		
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11	B - C	661 -2823	F - G	722 -2784		

Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10-5-11.



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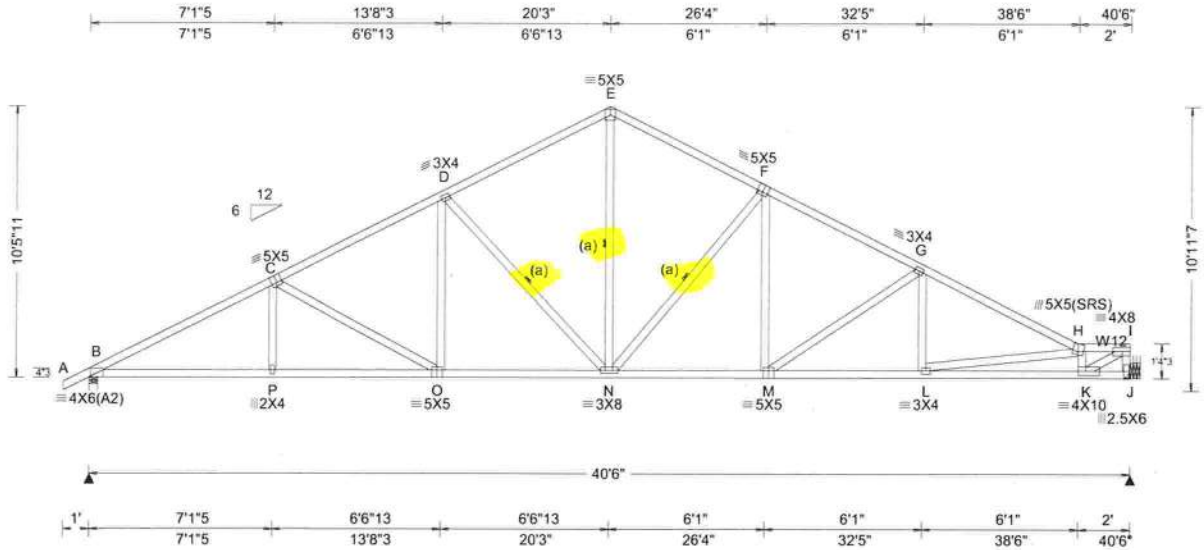
Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - O	2945 -708	M - L	2392 -539
O - N	2942 -709	L - K	2869 -746
N - M	2426 -549	K - J	1715 -486

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - N	208 -576	L - F	260 -556
N - C	508 -36	F - K	336 -1193
C - M	261 -850	K - G	1663 -368
D - M	1463 -341	G - J	493 -1539
M - E	292 -848	J - H	2280 -639
E - L	523 -83	H - I	527 -1712

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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg:	NA	Ct:	NA	CAT:	NA	Gravity		Non-Gravity				
TCDL:	10.00	Speed:	130 mph	Pf:	NA	Ce:	NA			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure:	Closed	Lu:	NA	Cs:	NA			VERT(LL):	0.221	N	999	480		
BCDL:	10.00	Risk Category:	II	Snow Duration:	NA					VERT(CL):	0.427	N	999	360		
		EXP:	C Kzt: NA							HORZ(LL):	0.091	J	-	-		
Des Ld:	40.00	Mean Height:	15.00 ft							HORZ(TL):	0.175	J	-	-		
NCBCLL:	10.00	TCDL:	5.0 psf	Building Code:						Creep Factor:	2.0					
Soffit:	2.00	BCDL:	5.0 psf	FBC 7th Ed. 2020 Res.						Max TC CSI:	0.710					
Load Duration:	1.25	MWFRS Parallel Dist: 0 to h/2		TPI Std:	2014					Max BC CSI:	0.894					
Spacing:	24.0 "	C&C Dist a: 4.05 ft		Rep Fac:	Yes					Max Web CSI:	0.840					
		Loc. from endwall: Any		FT/RT:	20(0)/10(0)											
		GCpi: 0.18		Plate Type(s):												
		Wind Duration: 1.60		WAVE												
										VIEW Ver:	20.01.01A.0724.11					

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W12 2x4 SP #2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes
The overall height of this truss excluding overhang is 10'-5-11".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

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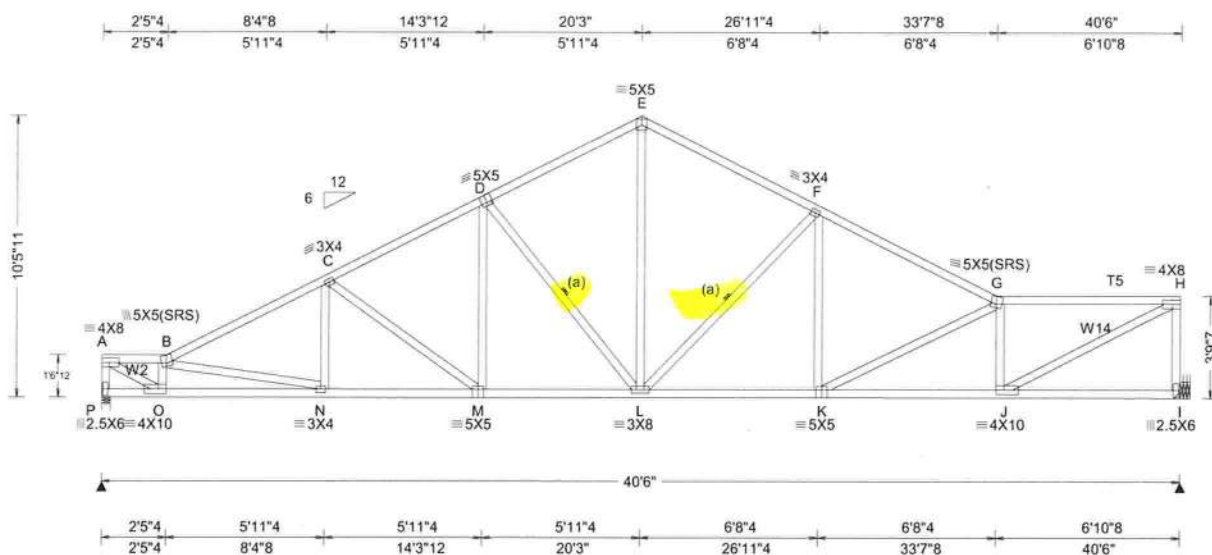
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609435
FROM: CDM

COMN	Ply: 1
	Qty: 1

Job Number: 20-4936
Johnson Devon (Lexington)
Truss Label: G17

Cust: R 215 JRef: 1X1T2150003 T39
DrwNo: 005.21.1540.43007
/ YK 01/05/2021



Loading Criteria (psf)	
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 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.11 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.05 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)		
Pg: NA	Ct: NA	CAT: NA
Pf: NA		Ce: NA
Lu: NA	Cs: NA	
Snow Duration: NA		
Building Code:		
FBC 7th Ed. 2020 Res.		
TPI Std: 2014		
Rep Fac: Yes		
FT/RT:20(0)/10(0)		
Plate Type(s):		
WAVE		

Defl/CSI Criteria			
PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.224	L	999 480
VERT(CL):	0.434	L	999 360
HORZ(LL):	0.075	I	- -
HORZ(TL):	0.146	I	- -
Creep Factor: 2.0			
Max TC CSI:	0.616		
Max BC CSI:	0.904		
Max Web CSI:	0.777		

▲ Maximum Reactions (lbs)						
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	1773	/-	/-	/954	/30	/238
I	1751	/-	/-	/872	/69	/-

Wind reactions based on MWFRS
P Brg Width = 4.0 Min Req = 2.1
I Brg Width = - Min Req = -
Bearing P is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)					
Chords		Tens. Comp.	Chords		Tens. Comp.
A - B	642	-2857	E - F	612	-2172
B - C	710	-3307	F - G	683	-2866
C - D	664	-2764	G - H	734	-2903
D - E	616	-2156			

Maximum Bot Chord Forces Per Ply (lbs)					
Chords Tens.Comp.			Chords Tens. Comp.		
O - N	3235	-826	L - K	2465	-531
N - M	2884	-668	K - J	3020	-773
M - L	2377	-513			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - P	410	-1735	L - F	290	-876
A - O	3310	-743	F - K	513	-69
O - B	455	-1681	K - G	286	-610
C - M	222	-611	G - J	464	-1406
M - D	557	-74	J - H	3265	-822
D - L	260	-826	H - I	516	-1696
E - L	1471	-337			

Lumber

Top chord: 2x4 SP #2; T5 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W2,W14 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10-5-11.



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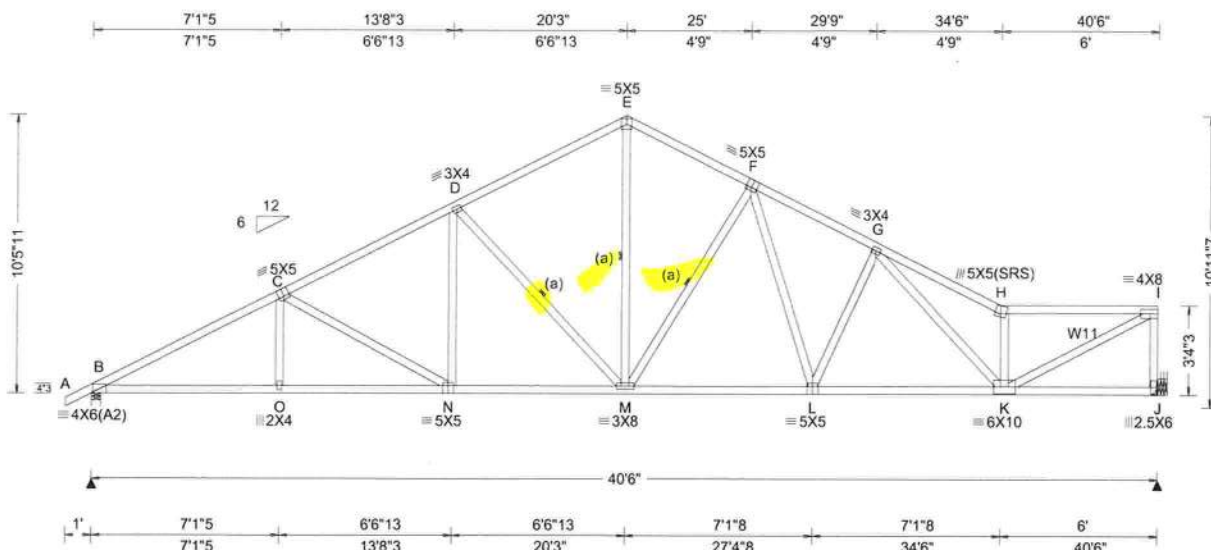
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6750 Forum Drive
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Loading Criteria (psf)	
TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria	
Wind Std:	ASCE 7-16
Speed:	130 mph
Enclosure:	Closed
Risk Category:	II
EXP: C Kzt:	NA
Mean Height:	15.00 ft
TCDL:	5.0 psf
BCDL:	5.0 psf
MWFRS Parallel Dist:	0 to h/2
C&C Dist a:	4.05 ft
Loc. from endwall:	Any
GCpi:	0.18
Wind Duration:	1.60

Snow Criteria (Pg,Pf in PSF)	
Pg: NA	Ct: NA
Pf: NA	CAT: NA
Lu: NA	Cs: NA
Snow Duration:	NA
Building Code:	
FBC 7th Ed. 2020 Res.	
TPI Std: 2014	
Rep Fac: Yes	
FT/RT:20(0)/10(0)	
Plate Type(s):	
WAVE	

Defl/CSI Criteria	
PP Deflection in	loc L/defl L/#
VERT(LL):	0.231 M 999 480
VERT(CL):	0.441 M 999 360
HORZ(LL):	0.078 J - -
HORZ(TL):	0.149 J - -
Creep Factor:	2.0
Max TC CSI:	0.879
Max BC CSI:	0.956
Max Web CSI:	0.919

▲ Maximum Reactions (lbs)						
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1865	/-	/-	/1050	/301	/279
J	1756	/-	/-	/880	/290	/-
Wind reactions based on MWFRS						
B	Brg Width = 4.0			Min Req = 2.2		
J	Brg Width = -			Min Req = -		
Bearing B is 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	1262	-3397	F - G	1205	-2844
C - D	1149	-2845	G - H	1427	-3516
D - E	1018	-2185	H - I	1164	-2999
E - F	1028	-2151			

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.		Chords	Tens. Comp.
B - O	2954	-1195	M - L	2279 -815
O - N	2952	-1196	L - K	2686 -1021
N - M	2448	-924		

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.		Webs	Tens. Comp.
C - N	318	-562	L - G	331 -493
N - D	493	-94	G - K	603 -282
D - M	454	-845	H - K	888 -1891
E - M	1513	-607	K - I	3360 -1302
M - F	438	-775	I - J	719 -1705
F - L	715	-242		

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W11 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10'-5.11".



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01/05/2021

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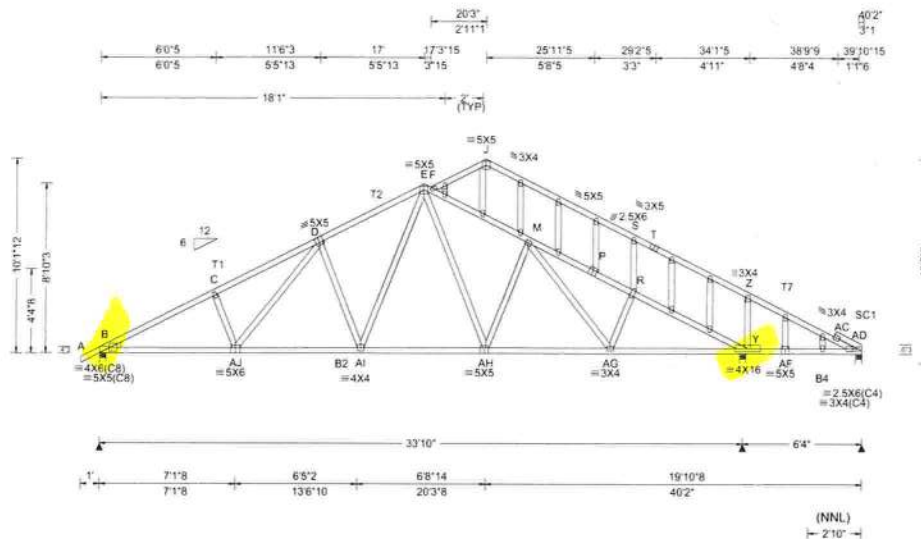
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609473 FROM: CDM	GABL Qty: 1	Ply: 1	Job Number: 20-4936 Johnson Devon (Lexington) Truss Label: G20	Cust: R 215 JRef: 1X1T2150003 T41 DrwNo: 005.21.1540.48103 / YK 01/05/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.05 ft Loc. from endwall: not in 8.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.265 N 999 480 VERT(CL): 0.519 N 778 360 HORZ(LL): 0.089 AE - - HORZ(TL): 0.173 AE - - Creep Factor: 2.0 Max TC CSI: 0.659 Max BC CSI: 0.971 Max Web CSI: 0.870 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 2855 - / - / 1513 / 671 / 847 Y 2832 - / - / 2131 / 1438 - AD 761 - / - / 431 - / - Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 2.0 Y Brg Width = 4.0 Min Req = 2.0 AD Brg Width = 4.0 Min Req = 1.5 Bearings B, Y, & AD 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.

Lumber

Top chord: 2x4 SP #2; T1, T2, T7 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2, B4 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2; Lt Wedge: 2x4 SP #3;

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 2.30 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 2 located at 33.7' (blocking >= 11.25" if used)

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

The overall height of this truss including cladding is 10'-11 1/2".



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B-AJ	4417 - 1379	AG-Y	8381 - 2493
AJ-AI	3670 - 1081	Y-AF	809 - 212
AI-AH	2803 - 718	AF-AD	809 - 213
AH-AG	3406 - 902		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C-AJ	354 - 675	E-AH	888 - 245
AJ-D	842 - 326	AH-M	303 - 779
D-AI	551 - 1161	M-AG	838 - 405
AI-E	1232 - 479	AG-R	495 - 782

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.Comp.	Gables	Tens. Comp.
R-S	342 - 574	Y-Z	828 - 1085

FL REG# 278, Yoonhwak Kim, FL PE #86367
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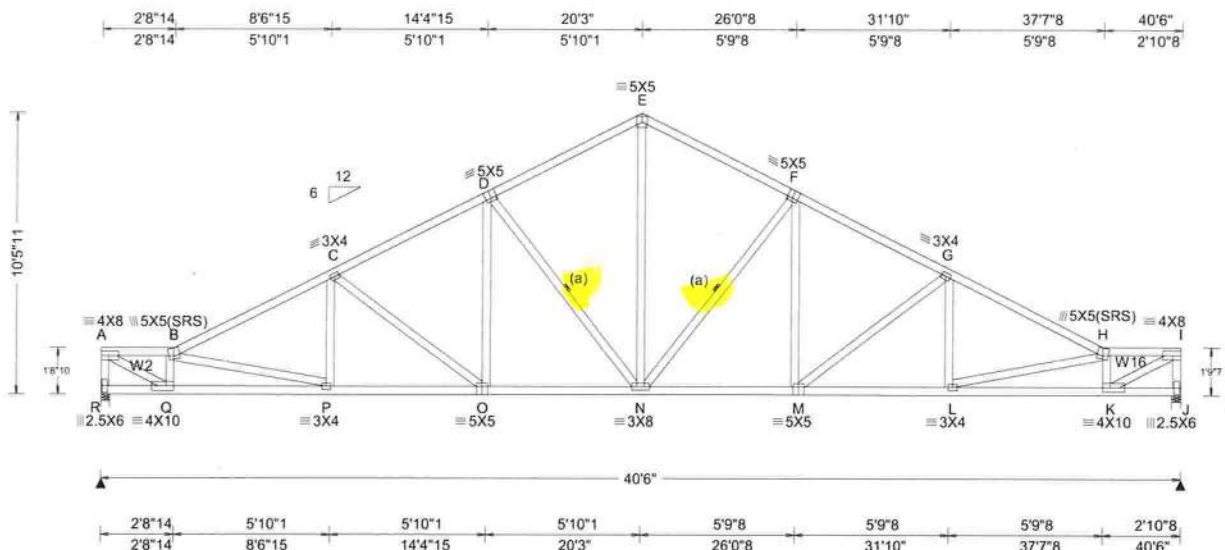
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6750 Forum Drive
Suite 305
Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
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"	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.19 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.05 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.226 N 999 480 VERT(CL): 0.438 N 999 360 HORZ(LL): 0.084 J - - HORZ(TL): 0.163 J - - Creep Factor: 2.0 Max TC CSI: 0.587 Max BC CSI: 0.864 Max Web CSI: 0.753 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 1771 /- /- /942 /33 /236 J 1744 /- /- /927 /32 /- Wind reactions based on MWFRS R Brg Width = 4.0 Min Req = 2.1 J Brg Width = 4.0 Min Req = 2.1 Bearings R & J 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. A - B 648 -2890 E - F 604 -2148 B - C 698 -3279 F - G 652 -2741 C - D 652 -2748 G - H 697 -3268 D - E 603 -2149 H - I 652 -2899

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W2, W16 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10'-5-11".



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Q - P	3223 -740	N - M	2359 -406
P - O	2860 -578	M - L	2850 -563
O - N	2364 -425	L - K	3214 -737

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - R	417 -1734	N - F	262 -825
A - Q	3331 -745	F - M	565 -79
Q - B	445 -1651	M - G	222 -604
C - O	222 -606	H - K	443 -1638
O - D	563 -77	K - I	3335 -749
D - N	262 -828	I - J	405 -1713
E - N	1489 -330		

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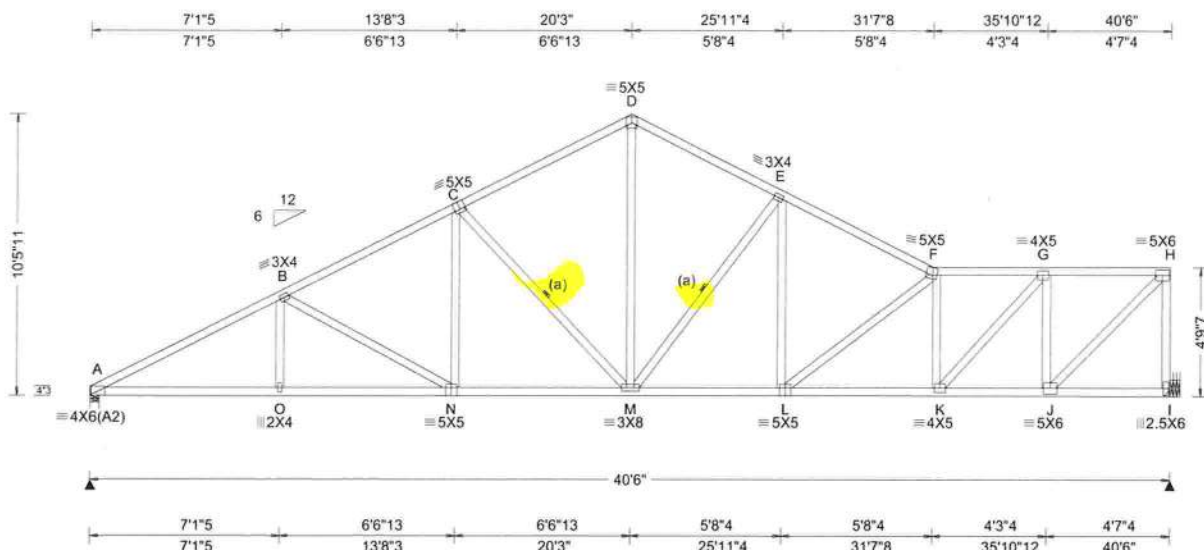
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6750 Forum Drive
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)											
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: NA	Ct: NA	CAT: NA	PP Deflection in	loc L/defl L/#		Gravity			Non-Gravity						
TCDL:	10.00	Speed:	130 mph	Pf: NA		Ce: NA	VERT(LL):	0.207	M	999	480	Loc	R+	/R-	/Rh	/Rw	/U	/RL	
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA		VERT(CL):	0.401	M	999	360	A	1783	/-	/-		/1001	/37	/268
BCDL:	10.00	Risk Category:	II	Snow Duration:	NA		HORZ(LL):	0.077	J	-	-	I	1737	/-	/-		/846	/107	/-
		EXP:	C Kzt: NA				HORZ(TL):	0.149	J	-	-	Wind reactions based on MWFRS							
Des Ld:	40.00	Mean Height:	15.00 ft	Building Code:			Creep Factor:	2.0				A	Brg Width = 4.0			Min Req = 2.1			
NCBCLL:	10.00	TCDL:	5.0 psf	FBC 7th Ed. 2020 Res.			Max TC CSI:	0.718				I	Brg Width = -			Min Req = -			
Soffit:	2.00	BCDL:	5.0 psf	TPI Std:	2014		Max BC CSI:	0.881				Bearing A is a rigid surface.							
Load Duration:	1.25	MWFRS Parallel Dist:	h to 2h	Rep Fac:	Yes		Max Web CSI:	0.860				Members not listed have forces less than 375#							
Spacing:	24.0 "	C&C Dist a:	4.05 ft	FT/RT:	20(0)/10(0)							Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall:	not in 13.00 ft	Plate Type(s):								Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi:	0.18	WAVE								A - B		709 -3381		E - F		687 -2708	
		Wind Duration:	1.60									VIEW Ver: 20.01.01A.0724.11							

Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10'-5-11".



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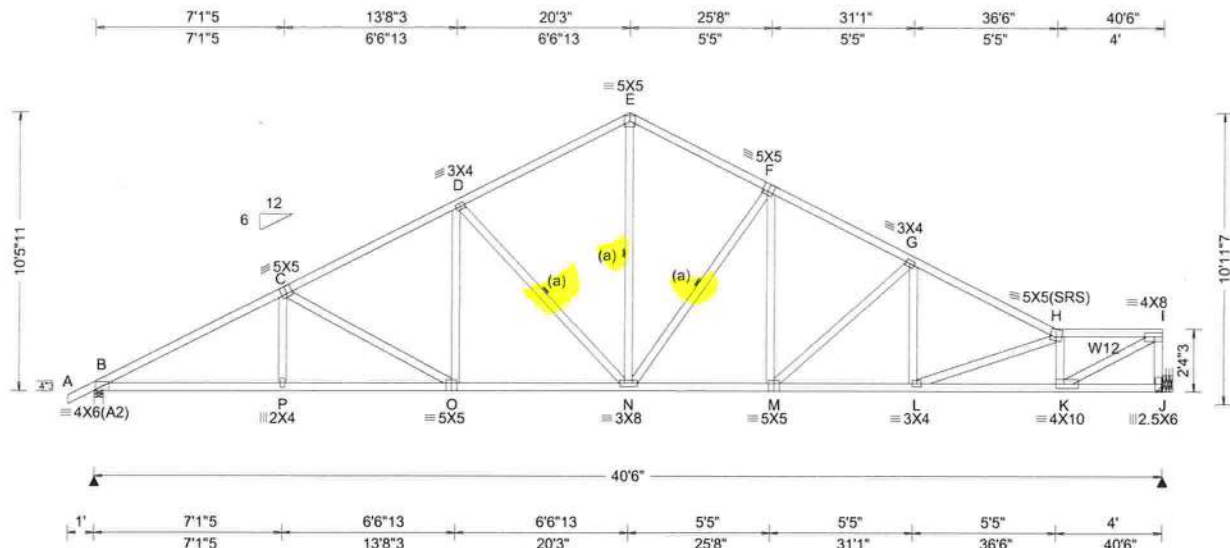
Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - O	2943 -728	M - L	2341 -549
O - N	2940 -730	L - K	2789 -744
N - M	2425 -570	K - J	1689 -495

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - N	207 -575	L - F	260 -554
N - C	509 -36	F - K	320 -1121
C - M	261 -853	K - G	1582 -352
D - M	1471 -353	G - J	512 -1511
M - E	293 -825	J - H	2259 -656
E - L	542 -106	H - I	546 -1706

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	GravityNon-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.223 M 999 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.430 M 999 360	B 1851 -/- -/- /1047 /303 /280
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.084 J - -	J 1734 -/- -/- /907 /286 -/-
	EXP: C Kzt: NA		HORZ(TL): 0.163 J - -	Wind reactions based on MWFRS
Des Ld: 40.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	B Brg Width = 4.0 Min Req = 2.2
NCBCLL: 10.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.712	J Brg Width = - Min Req = -
Soffit: 2.00	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.882	Bearing B is a rigid surface.
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.867	Members not listed have forces less than 375#
Spacing: 24.0 "	C&C Dist a: 4.05 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11	B - C 1266 -3365 F - G 1141 -2673
	Wind Duration: 1.60			

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W12 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10'-5-11".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords		Tens.Comp.		Chords		Tens. Comp.	
B - P	2926	-1147	N - M	2303	-790		
P - O	2924	-1148	M - L	2759	-1032		
O - N	2421	-875	L - K	3142	-1230		

Maximum Web Forces Per Ply (lbs)

Webs		Tens.Comp.		Webs		Tens. Comp.	
C - O	320	-561	M - G	323	-597		
O - D	503	-93	L - H	216	-398		
D - N	452	-853	H - K	692	-1550		
E - N	1468	-594	K - I	3328	-1288		
N - F	435	-803	I - J	688	-1698		
F - M	578	-166					

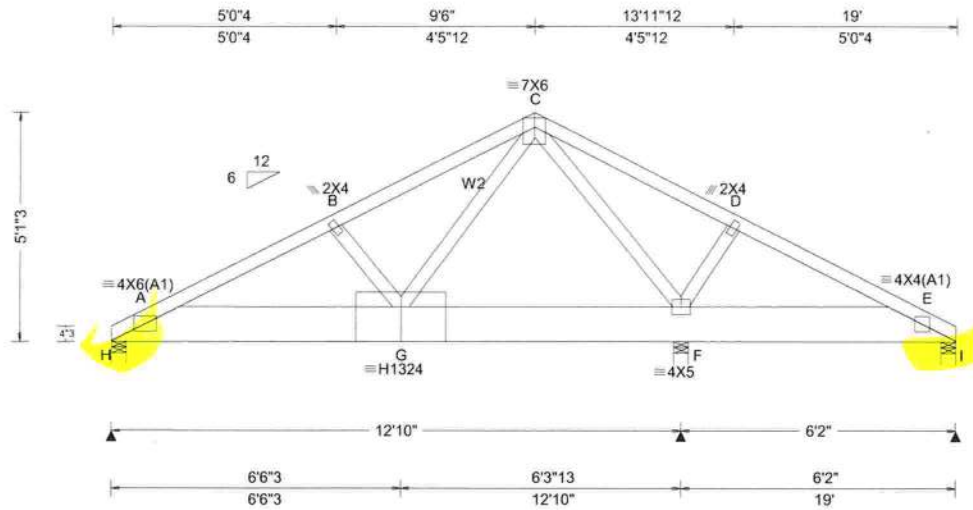
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SEQN: 609476 FROM: CDM	COMN Qty: 1	Ply: 2	Job Number: 20-4936 Johnson Devon (Lexington) Truss Label: D04	Cust: R 215 JRef: 1X1T2150003 T45 DrwNo: 005.21.1541.24287 / YK 01/05/2021
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.067 G 999 480 VERT(CL): 0.133 G 999 360 HORZ(LL): 0.016 G - - HORZ(TL): 0.032 G - - Creep Factor: 2.0 Max TC CSI: 0.452 Max BC CSI: 0.448 Max Web CSI: 0.948 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL H 4722 /- /- /- /721 /- F 8005 /- /- /- /808 /- I - /-922 /- /75 /- Wind reactions based on MWFRS H Brg Width = 4.0 Min Req = 2.0 F Brg Width = 4.0 Min Req = 2.9 I Brg Width = 4.0 Min Req = 1.5 Bearings H, F, & I 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. A - B 443 -3251 C - D 699 -110 B - C 416 -3179 D - E 632 -84 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - G 2904 -392 F - E 64 -552 G - F 859 -116 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. G - C 3556 -443 C - F 347 -2461

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x10 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2 2x4 SP #2;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 2 Rows @ 5.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

----- (Lumber Dur. Fac. = 1.25 / Plate Dur. Fac. = 1.25)
TC: From 62 plf at 0.00 to 62 plf at 19.00
BC: From 10 plf at 0.00 to 10 plf at 12.06
BC: From 20 plf at 12.06 to 20 plf at 19.00
BC: 1740 lb Conc. Load at 2.06
BC: 1734 lb Conc. Load at 4.06
BC: 1756 lb Conc. Load at 6.06
BC: 1741 lb Conc. Load at 8.06
BC: 1737 lb Conc. Load at 10.06
BC: 1751 lb Conc. Load at 12.06

Wind

Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -922# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
The overall height of this truss excluding overhang is 5'-1-3.



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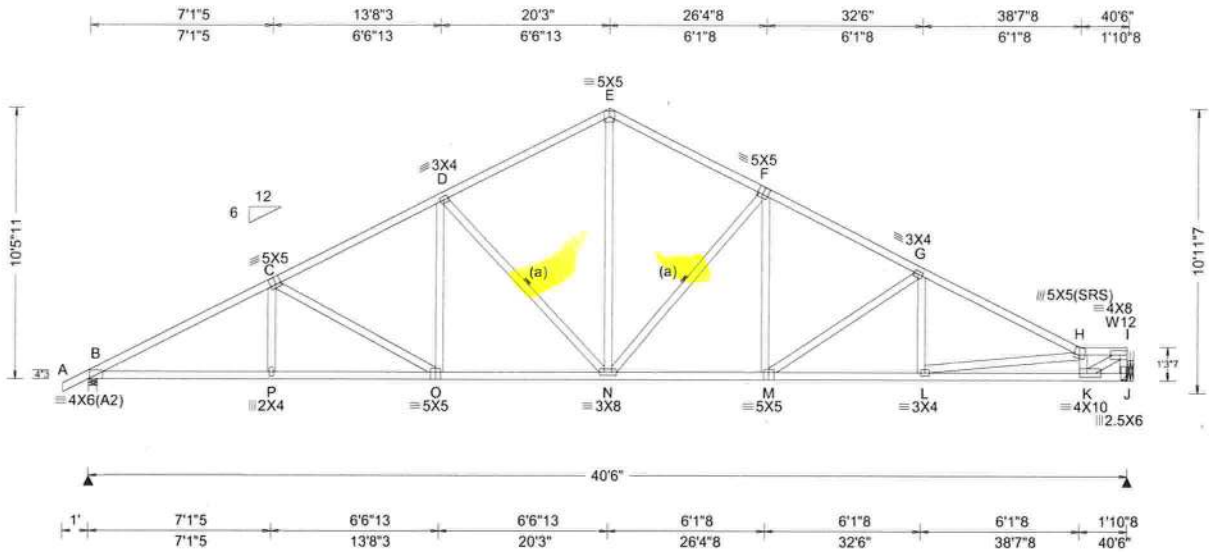
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.05 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.221 N 999 480 VERT(CL): 0.426 N 999 360 HORZ(LL): 0.091 J - - HORZ(TL): 0.176 J - - Creep Factor: 2.0 Max TC CSI: 0.710 Max BC CSI: 0.900 Max Web CSI: 0.723 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1852 /- /- /1044 /33 /282 J 1740 /- /- /938 /30 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 2.2 J Brg Width = - Min Req = - Bearing B is 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 671 -3369 F - G 640 -2773 C - D 634 -2818 G - H 686 -3336 D - E 588 -2153 H - I 588 -2725 E - F 591 -2144

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W12 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10'-5"-11".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - P	2930 -570	N - M	2383 -386
P - O	2927 -572	M - L	2908 -551
O - N	2423 -415	L - K	3219 -718

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - O	190 -562	F - M	549 -64
O - D	502 -29	M - G	221 -617
D - N	261 -848	H - K	459 -1740
E - N	1454 -303	K - I	3203 -690
N - F	260 -836	I - J	358 -1702

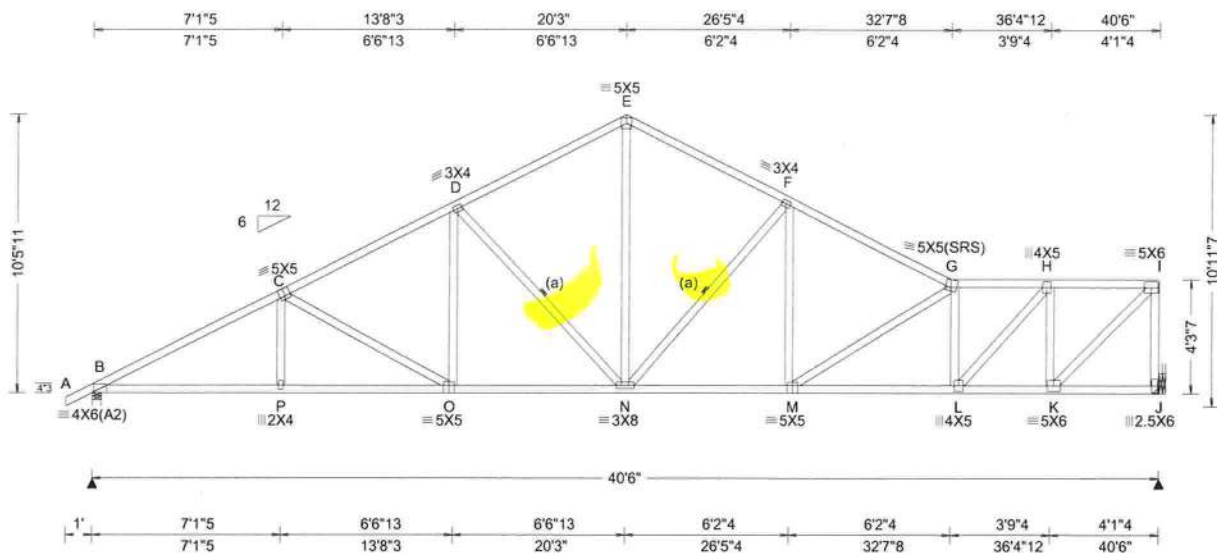
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)					
TCLL: 20.00		Wind Std: ASCE 7-16	Pg: NA	Ct: NA CAT: NA	PP Deflection in loc L/defl L/#		Gravity			Non-Gravity		
TCDL: 10.00		Speed: 130 mph	Pf: NA	Ce: NA	VERT(LL): 0.210 N 999 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
BCLL: 0.00		Enclosure: Closed	Lu: NA	Cs: NA	VERT(CL): 0.405 N 999 360		B	1852	/-	/-	/1055	/298 /278
BCDL: 10.00		Risk Category: II	Snow Duration: NA		HORZ(LL): 0.080 J - -		J	1741	/-	/-	/856	/295 /-
Des Ld: 40.00		EXP: C Kzt: NA			HORZ(TL): 0.154 J - -		Wind reactions based on MWFRS					
NCBCLL: 10.00		Mean Height: 15.00 ft	Building Code:		Creep Factor: 2.0		B		Brg Width = 4.0		Min Req = 2.2	
Soffit: 2.00		TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.		Max TC CSI: 0.711		J		Brg Width = -		Min Req = -	
Load Duration: 1.25		BCDL: 5.0 psf	TPI Std: 2014		Max BC CSI: 0.878		Bearing B is a rigid surface.					
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes		Max Web CSI: 0.865		Members not listed have forces less than 375#					
		C&C Dist a: 4.05 ft	FT/RT:20(0)/10(0)		VIEW Ver: 20.01.01A.0724.11		Maximum Top Chord Forces Per Ply (lbs)					
		Loc. from endwall: not in 6.50 ft	Plate Type(s):				Chords		Tens.Comp.		Chords Tens. Comp.	
		GCpi: 0.18	WAVE				B - C		691 -3369		F - G 678 -2777	
		Wind Duration: 1.60										

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10'-5-11".



FL REG# 278, Yoonhwak Kim, FL PE #86367
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Maximum Bot Chord Forces Per Ply (lbs)

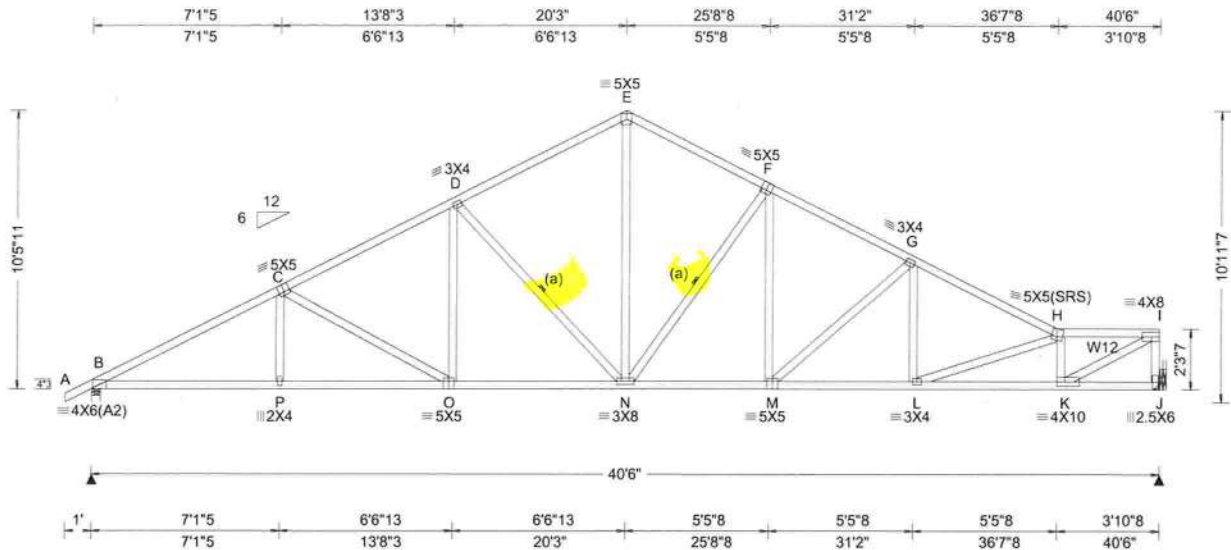
Chords	Tens.Comp.	Chords	Tens. Comp.
B - P	2930 -698	N - M	2398 -537
P - O	2927 -699	M - L	2879 -745
O - N	2424 -545	L - K	1717 -483

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - O	188 -562	M - G	261 -556
O - D	502 -28	G - L	339 -1204
D - N	261 -849	L - H	1676 -371
E - N	1462 -339	H - K	487 -1539
N - F	292 -852	K - I	2271 -632
F - M	520 -80	I - J	524 -1710

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.05 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.223 M 999 480 VERT(CL): 0.430 M 999 360 HORZ(LL): 0.085 J - - HORZ(TL): 0.164 J - - Creep Factor: 2.0 Max TC CSI: 0.711 Max BC CSI: 0.882 Max Web CSI: 0.752 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1851 /- /- /1047 /32 /281 J 1734 /- /- /909 /33 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 2.2 J Brg Width = - Min Req = - Bearing B is 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 674 -3365 F - G 645 -2679 C - D 639 -2815 G - H 692 -3175 D - E 592 -2149 H - I 672 -2923 E - F 598 -2126

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W12 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

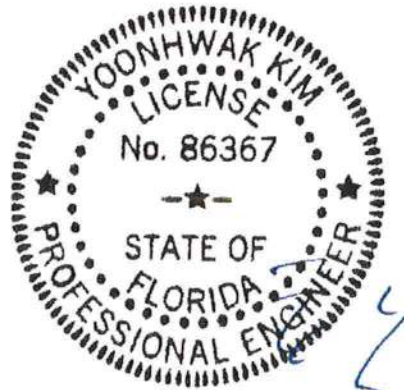
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10'-5-11".



FL REG# 278, Yoonhwak Kim, FL PE #86367
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Maximum Bot Chord Forces Per Ply (lbs)

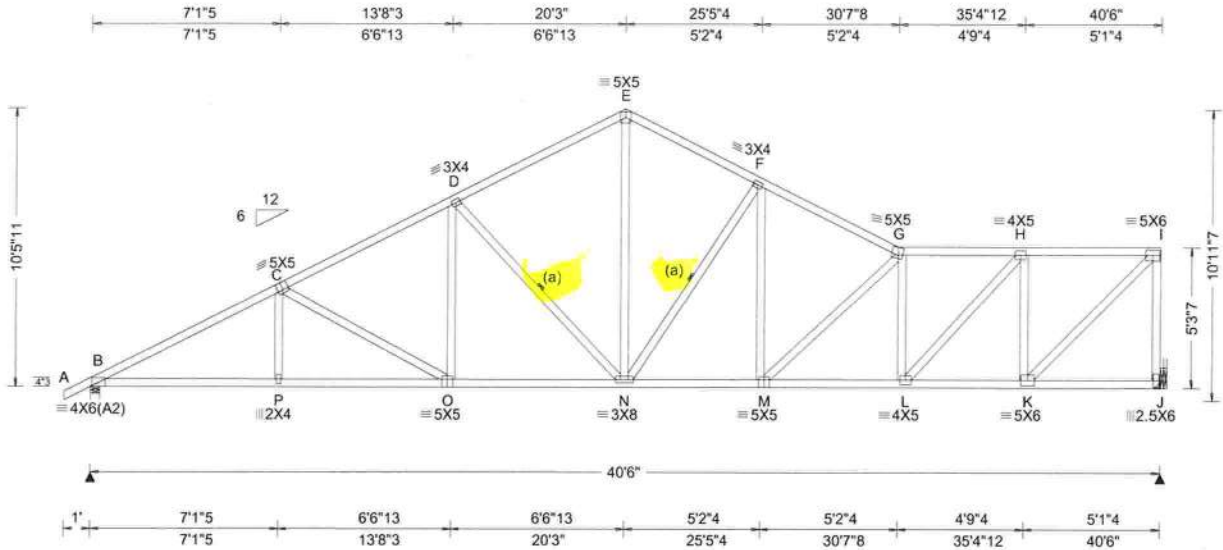
Chords	Tens.Comp.	Chords	Tens. Comp.
B - P	2926 -610	N - M	2308 -410
P - O	2924 -611	M - L	2768 -559
O - N	2421 -456	L - K	3149 -735

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - O	189 -561	M - G	223 -597
O - D	503 -28	L - H	198 -394
D - N	262 -852	H - K	433 -1558
E - N	1467 -320	K - I	3330 -764
N - F	261 -805	I - J	433 -1699
F - M	576 -97		

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.05 ft Loc. from endwall: not in 6.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.205 N 999 480 VERT(CL): 0.397 N 999 360 HORZ(LL): 0.075 K - - HORZ(TL): 0.145 K - - Creep Factor: 2.0 Max TC CSI: 0.713 Max BC CSI: 0.884 Max Web CSI: 0.850 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1850 - / - / 1061 / 294 / 277 J 1731 - / - / 853 / 301 / - Non-Gravity Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 2.2 J Brg Width = - Min Req = - Bearing B is 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 703 - 3363 F - G 688 - 2636 C - D 669 - 2813 G - H 713 - 2634 D - E 623 - 2146 H - I 468 - 1573 E - F 627 - 2120

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10-5-11.



FL REG# 278, Yoonhwak Kim, FL PE #86367
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Maximum Bot Chord Forces Per Ply (lbs)

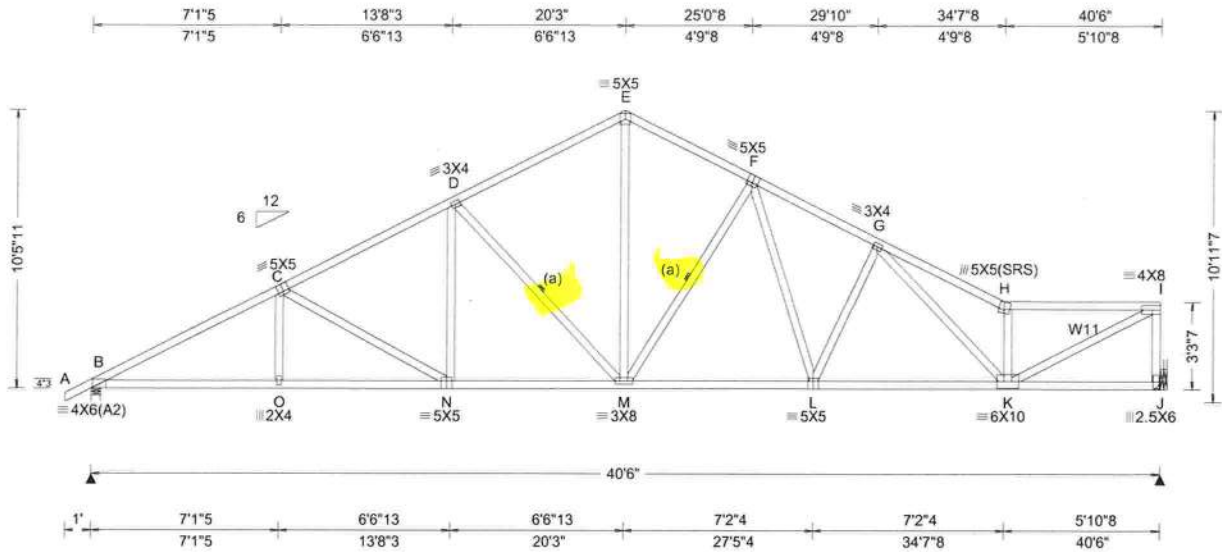
Chords	Tens.Comp.	Chords	Tens. Comp.
B - P	2924 - 742	N - M	2281 - 554
P - O	2922 - 744	M - L	2695 - 730
O - N	2419 - 590	L - K	1659 - 499

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - O	187 - 560	M - G	255 - 559
O - D	504 - 26	G - L	297 - 1040
D - N	262 - 855	L - H	1488 - 326
E - N	1478 - 364	H - K	526 - 1476
N - F	296 - 801	K - I	2232 - 664
F - M	565 - 128	I - J	560 - 1697

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.05 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.231 M 999 480 VERT(CL): 0.441 M 999 360 HORZ(LL): 0.078 J - - HORZ(TL): 0.149 J - - Creep Factor: 2.0 Max TC CSI: 0.837 Max BC CSI: 0.961 Max Web CSI: 0.761 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 1865 -/- /- /1050 /301 /279 J 1757 -/- /- /881 /290 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 2.2 J Brg Width = - Min Req = - Bearing B is 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 681 -3398 F - G 701 -2852 C - D 646 -2845 G - H 914 -3526 D - E 599 -2186 H - I 722 -3006 E - F 606 -2153

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W11 2x4 SP #2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes
The overall height of this truss excluding overhang is 10'-5-11".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

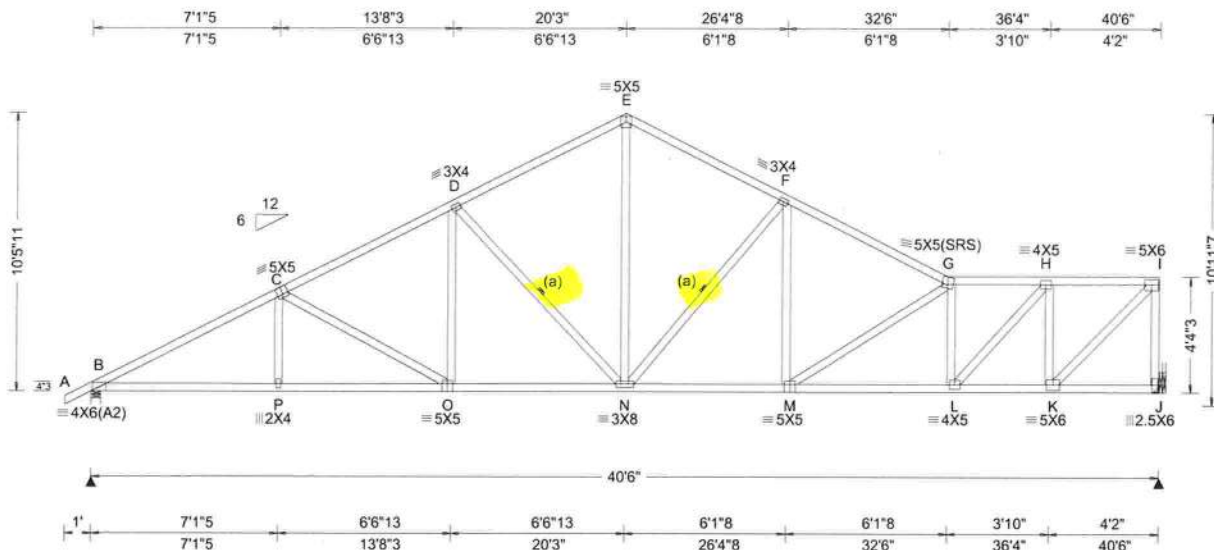
Chords	Tens.Comp.	Chords	Tens. Comp.
B - O	2955 -652	M - L	2283 -446
O - N	2952 -654	L - K	2695 -581
N - M	2448 -499		

Webs	Tens.Comp.	Webs	Tens. Comp.
C - N	187 -562	L - G	253 -491
N - D	492 -29	G - K	597 -263
D - M	264 -845	H - K	644 -1890
E - M	1512 -337	K - I	3369 -804
M - F	276 -776	I - J	486 -1707
F - L	715 -166		

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.05 ft Loc. from endwall: not in 6.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.210 N 999 480 VERT(CL): 0.405 N 999 360 HORZ(LL): 0.080 K - - HORZ(TL): 0.153 K - - Creep Factor: 2.0 Max TC CSI: 0.711 Max BC CSI: 0.878 Max Web CSI: 0.868 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1852 - / - / 1055 / 298 / 278 J 1740 - / - / 854 / 295 / - Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 2.2 J Brg Width = - Min Req = - Bearing B is 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 692 - 3369 F - G 679 - 2768 C - D 657 - 2818 G - H 721 - 2782 D - E 611 - 2153 H - I 450 - 1604 E - F 615 - 2146

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10'-5-11".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - P	2930 - 701	N - M	2390 - 538
P - O	2927 - 702	M - L	2867 - 745
O - N	2423 - 548	L - K	1714 - 485

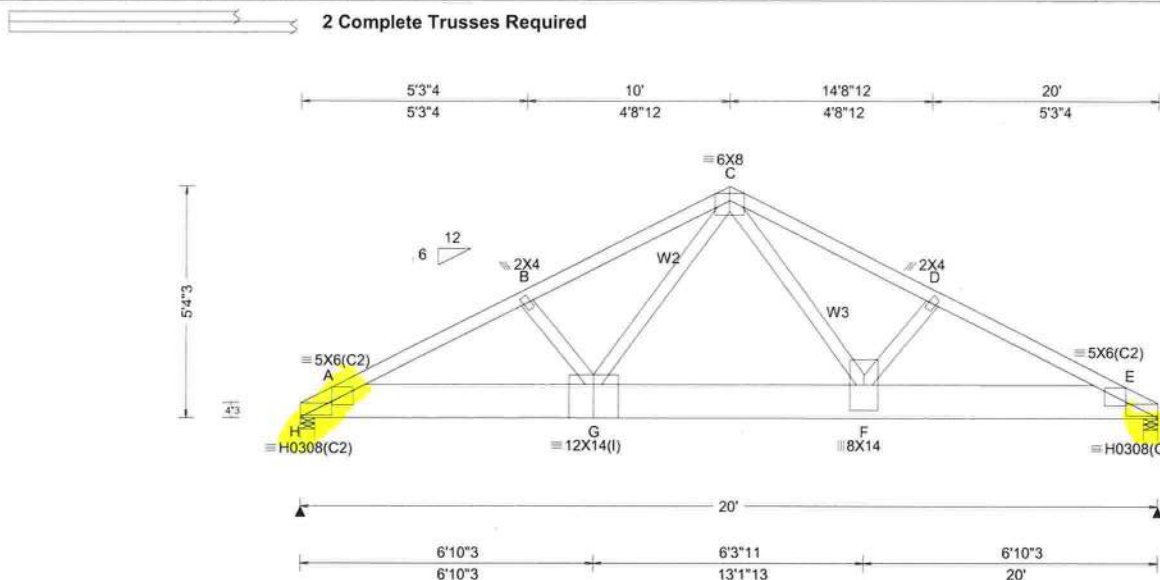
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - O	188 - 562	M - G	260 - 555
O - D	502 - 28	G - L	336 - 1192
D - N	261 - 850	L - H	1662 - 367
E - N	1463 - 341	H - K	493 - 1538
N - F	292 - 849	K - I	2278 - 639
F - M	523 - 83	I - J	526 - 1711

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): HS, WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.173 G 999 480 VERT(CL): 0.342 G 690 360 HORZ(LL): 0.046 B - - HORZ(TL): 0.091 B - - Creep Factor: 2.0 Max TC CSI: 0.490 Max BC CSI: 0.643 Max Web CSI: 0.869 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL H 8610 /- /- /- /1070 /- I 8510 /- /- /- /1416 /- Wind reactions based on MWFRS H Brg Width = 4.0 Min Req = 3.6 I Brg Width = 4.0 Min Req = 3.5 Bearings H & I 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. A - B 1132 -7492 C - D 1219 -7421 B - C 1106 -7419 D - E 1247 -7494

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x10 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2,W3 2x4 SP #2;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 2 Rows @ 4.00" o.c. (Each Row)
Webs: 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 62 plf at 0.00 to 62 plf at 20.00
BC: From 10 plf at 0.00 to 10 plf at 20.00
BC: 1740 lb Conc. Load at 1.94, 7.94, 11.94, 17.94
BC: 1734 lb Conc. Load at 3.94, 15.94
BC: 1757 lb Conc. Load at 5.94, 13.94
BC: 1731 lb Conc. Load at 9.94

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Wind

Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5'-4.3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - G	6697 - 1005	F - E	6698 - 1110
G - F	4499 - 712		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
G - C	3846 - 485	C - F	3851 - 670

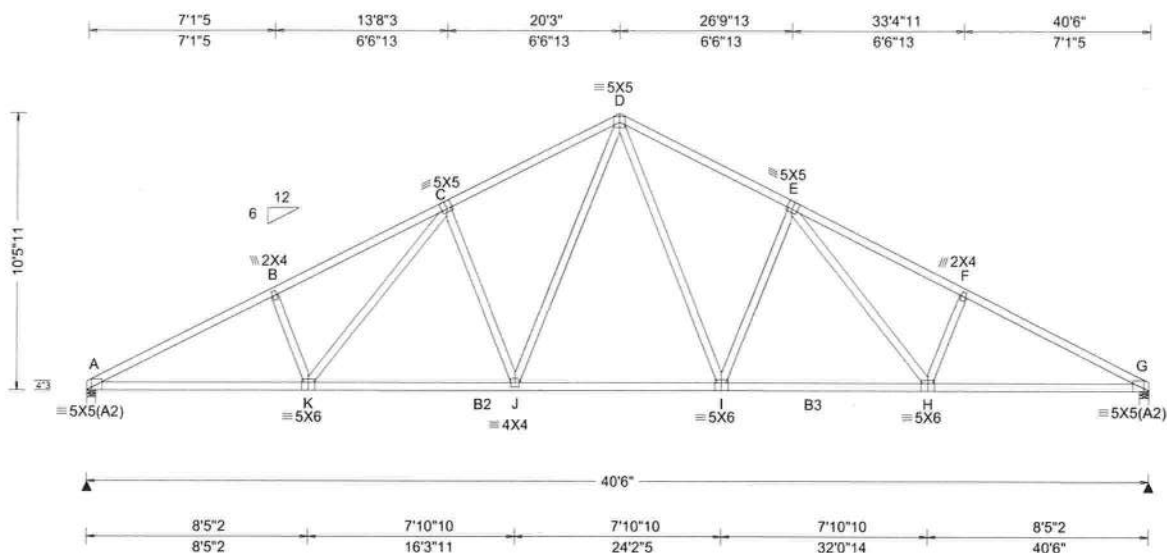
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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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.

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SEQN: 609446 FROM: CDM	COMN Qty: 1	Ply: 1	Job Number: 20-4936 Johnson Devon (Lexington) Truss Label: G14	Cust: R 215 JRef: 1X1T2150003 T13 DrwNo: 005.21.1541.43327 / YK 01/05/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.05 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.232 J 999 480 VERT(CL): 0.424 J 999 360 HORZ(LL): 0.083 H - - HORZ(TL): 0.151 H - - Creep Factor: 2.0 Max TC CSI: 0.736 Max BC CSI: 0.952 Max Web CSI: 0.712 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1897 /- /- /985 /29 /274 G 1897 /- /- /985 /29 /- Wind reactions based on MWFRS A Brg Width = 4.0 Min Req = 2.2 G Brg Width = 4.0 Min Req = 2.2 Bearings A & G 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. A - B 690 -3626 D - E 667 -2744 B - C 743 -3477 E - F 743 -3478 C - D 667 -2745 F - G 690 -3626

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2; B2,B3 2x4 SP M-31;
Webs: 2x4 SP #3;

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 10-5-11.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp. Chords Tens. Comp.

A - K	3162	-550	I - H	2618	-371
K - J	2619	-390	H - G	3163	-537
J - I	1991	-208			

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

K - C	679	-165	D - I	1050	-208
C - J	292	-675	I - E	292	-676
J - D	1053	-207	E - H	681	-165

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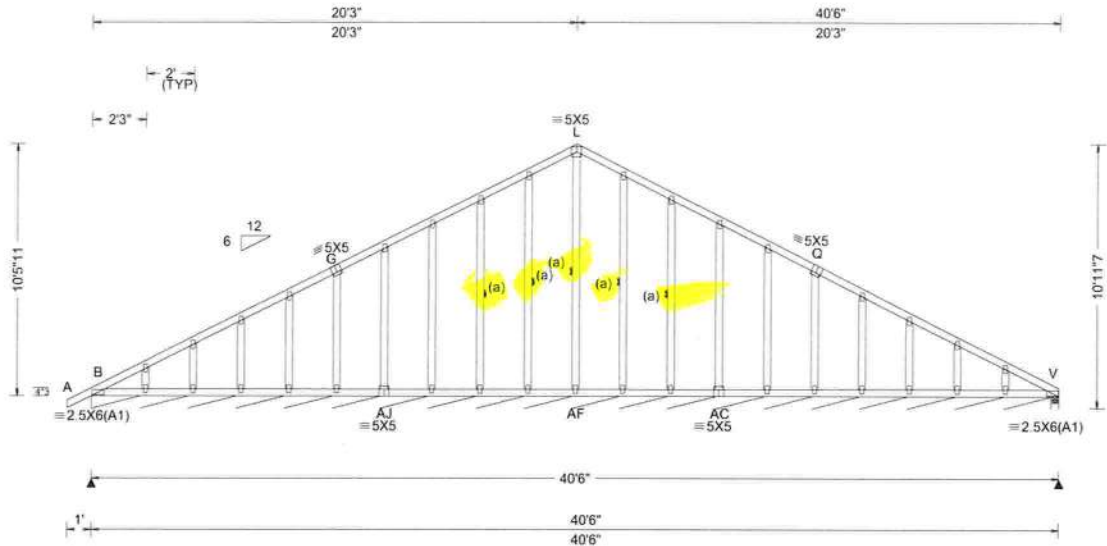
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609466 FROM: CDM	GABL Qty: 1	Ply: 1 Job Number: 20-4936 Johnson Devon (Lexington) Truss Label: G01	Cust: R 215 JRef: 1X1T2150003 T7 DrwNo: 005.21.1541.52747 / YK 01/05/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
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 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.05 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.004 L 999 480 VERT(CL): 0.006 K 999 360 HORZ(LL): 0.013 R - - HORZ(TL): 0.016 R - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.078 Max Web CSI: 0.242 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B* 158 /- /- /67 /41 /14 V 177 /- /- /147 /23 /- Wind reactions based on MWFRS B Brg Width = 482 Min Req = - V Brg Width = 4.0 Min Req = 1.5 Bearings B & V 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 - G 396 -500 L - Q 757 -147 G - L 779 -284

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 2.30 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

The overall height of this truss excluding overhang is 10-5-11.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/05/2021

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

h Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 100

Group A:		
Spruce-Pine-Fir	Hein-Fir	
#1 / #2 Standard	#2	Stud
#3	#3	Standard
Douglas Fir-Larch	Southern Pine	
#3	#3	
Stud	Stud	
Standard	Standard	

Group B:		
	Hein-Fir	
	#1 & Br	
	#1	
Douglas Fir-Larch	Southern Pine	
#1	#1	
#2	#2	

1x4 Braces shall be SRB (Stress-Rated Board).

For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:
Wind Load deflection criterion is L/240.

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) 'L' brace! space nalls 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 19' and zone and 6" o.c. between zones.

L' bracing must be a minimum of 80% of web member length.

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

REF	ASCE7-16-GABI4015
DATE	01/26/2018
DRWG	A14015ENC160118



IS DRAWING
CLUDING THE INSTALLERS.

VARING 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 BCSC (Building Component Safety Information, by TPI and SBCA) for best practices prior to performing these functions. Installers shall provide temporary bracing per BCSC. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSC sections B3, B7 or B10, as applicable. Apply plates to each face of the truss and position as shown above and on the Joint Details, unless noted otherwise.

Refer to drawings 160A-Z for standard plate positions.

Alpha, a division of ITV 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 & bracing of trusses.

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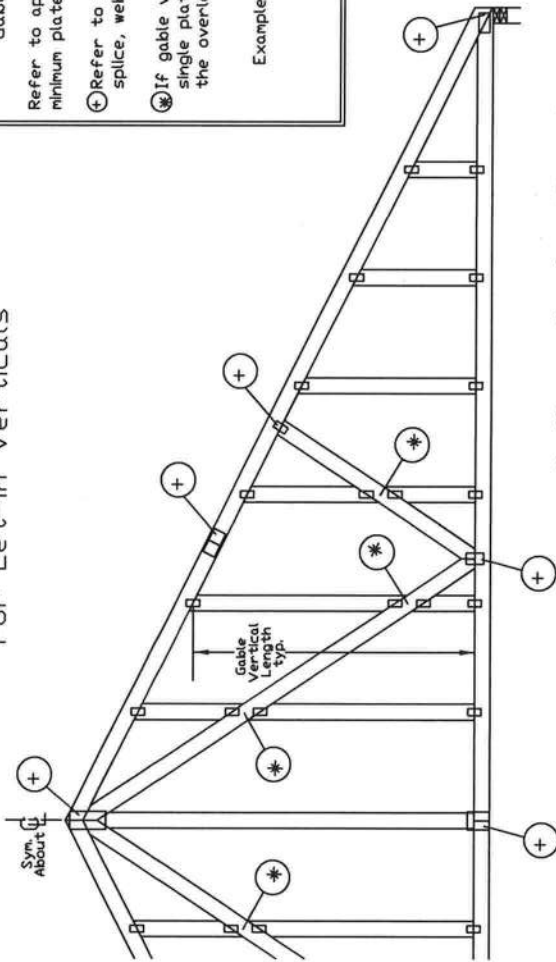
For more information see this Job's general notes page and these web sites:
ALPINE: www.alphintelw.com TPI: www.tpinst.org SBCA: www.sbcindustry.org ICC: www.icc-sb.org # 278

MAX. TOT. LD. 60 PSF

Yoonhwak Kim, FL PE #86367

MAX. SPACING 24.0"

Gable Detail For Let-In Verticals

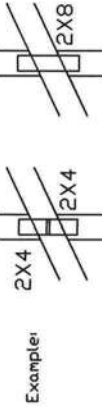


Gable Truss Plate Sizes

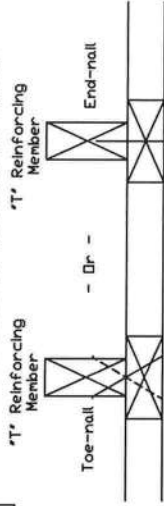
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



'T' Reinforcement Attachment Detail



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

Web Length Increase w/ 'T' Brace

'T' Reinf. Mbr. Size	'T' Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24' o.c. SP #3
'T' Reinforcing Member Size = 2x4
'T' Brace Increase (From Above) = 30% = 1.30
(1) 2x4 'L' Brace Length = 8' 7"
Maximum 'T' Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148"x3".min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3".min) Toenails at 4' o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,

A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A10015ENC100118, A13015ENC100118,

A18015ENC100118, A20015ENC100118, A20015END100118, A20015ENC100118, A14030ENC100118,

A11530ENC100118, A12030ENC100118, A14030ENC100118, A20030ENC100118, A20030END100118,

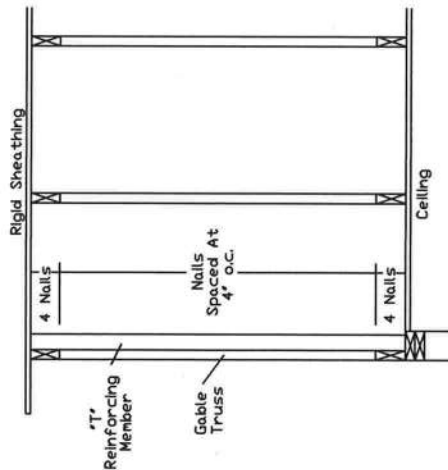
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S18015ENC100118, S20015ENC100118, S20015ENC100118, S20015ENC100118, S20015ENC100118,

S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S20030ENC100118,

S18030ENC100118, S20030ENC100118, S20030ENC100118, S20030ENC100118, S20030ENC100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length



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The undersigned hereby certifies that this drawing, including the notes, is a true and correct representation of the engineering responsibility solely for the design shown. The authority 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: www.alpineitw.com, www.tpiinc.org, www.sbcindustry.org, www.ansi.org



514 Earth City Expressway
Suite 242
Earth City, MO 63045

REF LET-IN VERT

DATE 01/02/2018

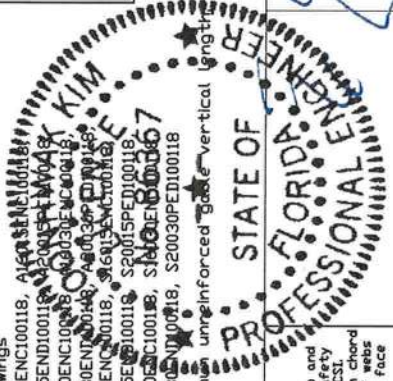
DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

Yoonhwak Kim, FL PE #86367





Manual S Compliance Report

Entire House

Comfort Temp Company

Job:
Date: Feb 07, 2020
By:

31

4301 NW 6th ST, Gainesville, FL 32609 Phone: 352 275 4022 Fax: 352 376 0523 Email: jay@comforttemp.com Web: www.comforttemp.com

Project Information

For: Devon Johnson
Parcel # 11-6S-16-03815-165, Fort White, FL

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	32925	Btuh
Outdoor design WB:	76.3°F	Latent gain:	5217	Btuh
Indoor design DB:	75.0°F	Total gain:	38142	Btuh
Indoor RH:	50%	Estimated airflow:	1550	cfm

Entering coil DB: 77.4°F
Entering coil WB: 63.7°F



Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP	Model:	4TWR4048G1+TEM4A0C48S41++TDR
Manufacturer:	Trane		
Actual airflow:	1550 cfm		
Sensible capacity:	37492 Btuh	114% of load	
Latent capacity:	6957 Btuh	133% of load	
Total capacity:	44448 Btuh	117% of load	SHR: 84%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	31095	Btuh
Indoor design DB:	68.0°F			

Entering coil DB: 66.9°F

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP	Model:	4TWR4048G1+TEM4A0C48S41++TDR
Manufacturer:	Trane		
Actual airflow:	1550 cfm		
Output capacity:	36011 Btuh	116% of load	
Supplemental heat required:	0 Btuh		

Capacity balance: 23 °F
Economic balance: -99 °F

Backup equipment type:	Elec strip	Model:	
Manufacturer:			
Actual airflow:	1550 cfm		
Output capacity:	6.0 kW	65% of load	Temp. rise: 50 °F

Meets all requirements of ACCA Manual S.



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A MSA® / Berkshire Hathaway Company

Right-Suite® Universal 2019 19.0.17 RSU25182

2020-Nov-04 04:44:33

Page 1

...ter\My Documents\HCL\Red Door\Devon Johnson.rup Calc = MJ8 Front Door faces: SE

Project Information

For: Devon Johnson
Parcel # 11-6S-16-03815-165, Fort White, FL

Notes:

Design Information

Weather: Gainesville Regional AP, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	68 °F
Design TD	35 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	47 gr/lb

Heating Summary

Structure	21131 Btuh
Ducts	9964 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	31095 Btuh

Sensible Cooling Equipment Load Sizing

Structure	20559 Btuh
Ducts	12366 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	31937 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

Latent Cooling Equipment Load Sizing

Structure	2515 Btuh
Ducts	2702 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Equipment latent load	5217 Btuh

	Heating	Cooling
Area (ft²)	2282	2282
Volume (ft³)	20067	20067
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	107	54

Equipment Total Load (Sen+Lat)	37154 Btuh
Req. total capacity at 0.75 SHR	3.5 ton

Heating Equipment Summary

Make	Trane
Trade	TRANE
Model	4TWR4048G1
AHRI ref	8908430
Efficiency	8.5 HSPF
Heating input	
Heating output	46500 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	1550 cfm
Air flow factor	0.050 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	
Capacity balance point = 23 °F	

Backup:
Input = 6 kW, Output = 20320 Btuh, 100 AFUE

Cooling Equipment Summary

Make	Trane
Trade	TRANE
Cond	4TWR4048G1
Coil	TEM4A0C48S41++TDR
AHRI ref	8908430
Efficiency	11.5 EER, 14 SEER
Sensible cooling	34875 Btuh
Latent cooling	11625 Btuh
Total cooling	46500 Btuh
Actual air flow	1550 cfm
Air flow factor	0.047 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.86

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Project Information

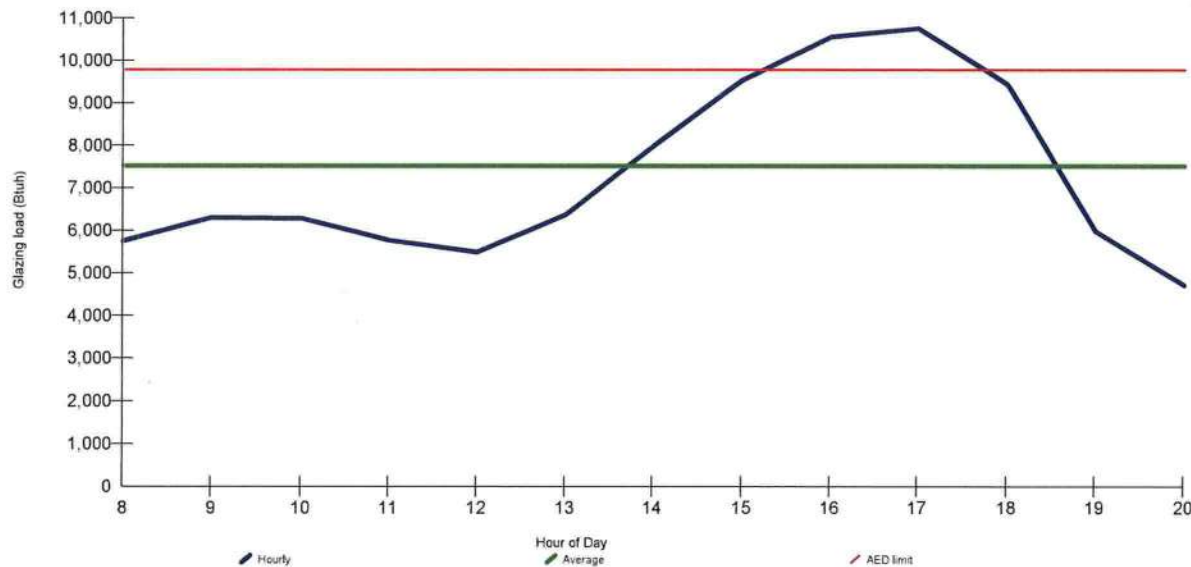
For: Devon Johnson
 Parcel # 11-6S-16-03815-165, Fort White, FL

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville Regional AP, FL, US		Indoor temperature (°F)		68	75
Elevation: 164 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		28.7	47.4
Outdoor:		Heating	Cooling	Infiltration:	
Dry bulb (°F)		33	92		
Daily range (°F)		-	18 (M)		
Wet bulb (°F)		-	76		
Wind speed (mph)		15.0	7.5		

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 43.1%.

House does not have adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 985 Btuh (PFG - 1.3*AFG)

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1	Room name					Entire House					Bedroom #2				
2	Exposed wall					180.0 ft					31.0 ft				
3	Room height					8.8 ft					9.0 ft				
4	Room dimensions					d					1.0 x 195.0 ft				
5	Room area					2282.0 ft²					195.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²-F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	n	3.15	2.22	284	284	894	629	0	0	0	0	
11	W	12B-0sw	0.097	e	3.36	2.61	63	48	161	125	0	0	0	0	
	G	4A5-2ob	0.560	e	19.38	38.55	15	0	291	578	0	0	0	0	
	W	12C-0sw	0.091	e	3.15	2.22	301	241	759	534	0	0	0	0	
	G	4A5-2ob	0.560	e	19.38	38.55	60	0	1163	2313	0	0	0	0	
	W	12B-0sw	0.097	s	3.36	2.61	315	315	1057	823	144	144	483	376	
	W	12C-0sw	0.091	s	3.15	2.22	96	96	302	213	0	0	0	0	
	W	12B-0sw	0.097	w	3.36	2.61	135	105	352	274	135	105	352	274	
	G	4A5-2ob	0.560	w	19.38	38.55	30	0	581	1157	30	0	581	1157	
	W	12C-0sw	0.091	w	3.15	2.22	384	284	894	629	0	0	0	0	
	G	4A5-2ob	0.560	w	19.38	38.55	60	0	1163	2313	0	0	0	0	
	G	4A5-2obd	0.560	w	19.38	45.03	40	0	779	1810	0	0	0	0	
C	16B-30ad	0.032	-	1.11	1.69	2282	2282	2527	3859	195	195	216	330		
F	22A-tpi	0.989	-	34.22	0.00	2282	180	6159	0	195	31	1061	0		

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1	Room name					Hall Bath					Bedroom3				
2	Exposed wall					0 ft					26.0 ft				
3	Room height					9.0 ft					9.0 ft				
4	Room dimensions					6.0 x 11.0 ft					1.0 x 192.0 ft				
5	Room area					66.0 ft²					192.0 ft²				
	Ty	Construction number	U-value (Btu/h/ft²-F)	Or	HTM (Btu/h/ft²)		Area (ft²) or perimeter (ft)		Load (Btu/h)		Area (ft²) or perimeter (ft)		Load (Btu/h)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	n	3.15	2.22	0	0	0	0	0	0	0	0	
	W	12B-0sw	0.097	e	3.36	2.61	0	0	0	0	63	48	161	125	
	G	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	15	0	291	578	
11	W	12C-0sw	0.091	e	3.15	2.22	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12B-0sw	0.097	s	3.36	2.61	0	0	0	0	171	171	574	447	
	W	12C-0sw	0.091	s	3.15	2.22	0	0	0	0	0	0	0	0	
	W	12B-0sw	0.097	w	3.36	2.61	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	w	3.15	2.22	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0	
	G	4A5-2obd	0.560	w	19.38	45.03	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.11	1.69	66	66	73	112	192	192	213	325	
	F	22A-lpl	0.989	-	34.22	0.00	66	0	0	0	192	26	890	0	
6	c) AED excursion									-13			-23		
	Envelope loss/gain								73	99			2128	1452	
12	a) Infiltration								0	0			600	148	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ 230						0			0	0			0	0
	Appliances/other									0				0	0
	Subtotal (lines 6 to 13)								73	99			2728	1600	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								73	99			2728	1600	
15	Duct loads						47%	60%	34	59	47%	60%	1287	962	
	Total room load								108	158			4015	2562	
	Air required (cfm)								5	7			200	121	

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1	Room name					Bedroom 4					WIC 4				
2	Exposed wall					30.0 ft					0 ft				
3	Room height					8.0 ft					8.0 ft				
4	Room dimensions					14.0 x 12.0 ft					7.0 x 6.0 ft				
5	Room area					168.0 ft²					42.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	n	3.15	2.22	32	32	101	71	0	0	0	0	
	W	12B-0sw	0.097	e	3.36	2.61	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0	
11	W	12C-0sw	0.091	e	3.15	2.22	112	82	258	182	0	0	0	0	
	W	4A5-2ob	0.560	e	19.38	38.55	30	0	581	1157	0	0	0	0	
	W	12B-0sw	0.097	s	3.36	2.61	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	s	3.15	2.22	96	96	302	213	0	0	0	0	
	W	12B-0sw	0.097	w	3.36	2.61	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	w	3.15	2.22	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0	
	W	4A5-2obd	0.560	w	19.38	45.03	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.11	1.69	168	168	186	284	42	42	47	71	
	F	22A-lpl	0.989	-	34.22	0.00	168	30	1027	0	42	0	0	0	
6	c) AED excursion									91				-8	
	Envelope loss/gain								2455	1997			47	63	
12	a) Infiltration								616	151			0	0	
	b) Room ventilation								0	0			0	0	
13	Internal gains:		Occupants @	230			0			0	0			0	
			Appliances/other							0				0	
	Subtotal (lines 6 to 13)								3071	2148			47	63	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								3071	2148			47	63	
15	Duct loads							47%	60%	1448	1292	47%	60%	22	38
	Total room load								4519	3440			68	101	
	Air required (cfm)								225	162			3		

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1	Room name					Family Room					Breakfast				
2	Exposed wall					24.0 ft					12.0 ft				
3	Room height					9.0 ft					8.0 ft				
4	Room dimensions					1.0 x 627.0 ft					12.0 x 13.0 ft				
5	Room area					627.0 ft²					156.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²-F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6 . . . 11	W	12C-0sw	0.091	n	3.15	2.22	0	0	0	0	0	0	0	0	
	W	12B-0sw	0.097	e	3.36	2.61	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	e	3.15	2.22	81	81	255	179	0	0	0	0	
	G	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12B-0sw	0.097	s	3.36	2.61	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	s	3.15	2.22	0	0	0	0	0	0	0	0	
	W	12B-0sw	0.097	w	3.36	2.61	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	w	3.15	2.22	135	95	298	210	96	66	208	146	
	G	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	30	0	581	1157	
	G	4A5-2obd	0.560	w	19.38	45.03	40	0	779	1810	0	0	0	0	
	C	16B-30ad	0.032	-	1.11	1.69	627	627	694	1060	156	156	173	264	
	F	22A-tpl	0.989	-	34.22	0.00	627	24	821	0	156	12	411	0	

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1	Room name					Kitch					Dining				
2	Exposed wall					0 ft					12.0 ft				
3	Room height					9.0 ft 12.0 x 16.0 ft heat/cool					9.0 ft 12.0 x 14.0 ft heat/cool				
4	Room dimensions					192.0 ft²					168.0 ft²				
5	Room area														
	Ty	Construction number	U-value (Btuh/ft²-F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	n	3.15	2.22	0	0	0	0	0	0	0	0	
11	W	12B-0sw	0.097	e	3.36	2.61	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	e	3.15	2.22	0	0	0	0	108	78	246	173	
	G	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	30	0	581	1157	
	W	12B-0sw	0.097	s	3.36	2.61	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	s	3.15	2.22	0	0	0	0	0	0	0	0	
	W	12B-0sw	0.097	w	3.36	2.61	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	w	3.15	2.22	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0	
	G	4A5-2obd	0.560	w	19.38	45.03	0	0	0	0	0	0	0	0	
C	16B-30ad	0.032	-	1.11	1.69	192	192	213	325	168	168	186	284		
F	22A-tpl	0.989	-	34.22	0.00	192	0	0	0	168	12	411	0		
6	c) AED excursion									-153				134	
	Envelope loss/gain									213	171		1424	1748	
12	a) Infiltration									0	0		277	68	
	b) Room ventilation									0	0		0	0	
13	Internal gains: Occupants @ 230						0			0	0			0	0
	Appliances/other									1000				0	0
	Subtotal (lines 6 to 13)									213	1171			1701	1816
14	Less external load									0	0			0	0
	Less transfer									0	0			0	0
	Redistribution									0	0			0	0
	Subtotal									213	1171			1701	1816
15	Duct loads						47%	60%		100	705	47%	60%	802	1092
	Total room load									313	1876			2503	2908
	Air required (cfm)									16	88			125	137

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1	Room name					Master					Mstr Bath				
2	Exposed wall					30.0 ft					15.0 ft				
3	Room height					9.0 ft					9.0 ft				
4	Room dimensions					17.0 x 13.0 ft					10.0 x 15.0 ft				
5	Room area					221.0 ft²					150.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²-F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	n	3.15	2.22	117	117	368	259	135	135	425	299	
	W	12B-0sw	0.097	e	3.36	2.61	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	e	3.15	2.22	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12B-0sw	0.097	s	3.36	2.61	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	s	3.15	2.22	0	0	0	0	0	0	0	0	
	W	12B-0sw	0.097	w	3.36	2.61	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	w	3.15	2.22	153	123	387	273	0	0	0	0	
	W	4A5-2ob	0.560	w	19.38	38.55	30	0	581	1157	0	0	0	0	
	W	4A5-2obd	0.560	w	19.38	45.03	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.11	1.69	221	221	245	374	150	150	166	254	
	F	22A-tpi	0.989	-	34.22	0.00	221	30	1027	0	150	15	513	0	
	6	c) AED excursion								224				-74	
	Envelope loss/gain							2608	2286			1104	479		
12	a) Infiltration							693	170			346	85		
	b) Room ventilation							0	0			0	0		
13	Internal gains: Occupants @ 230 Appliances/other					2			460	250	0			0	
	Subtotal (lines 6 to 13)								3301	3166			1451	564	
14	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
	Subtotal								3301	3166			1451	564	
15	Duct loads					47%	60%		1557	1904	47%	60%	684	339	
	Total room load								4858	5071			2135	903	
	Air required (cfm)								242	239			106	43	

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Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Level 2

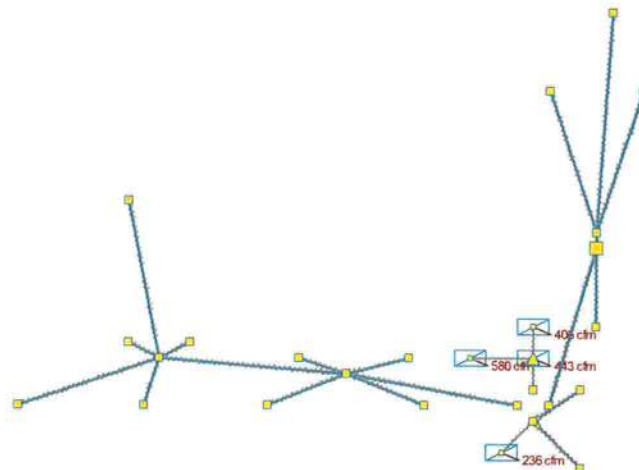
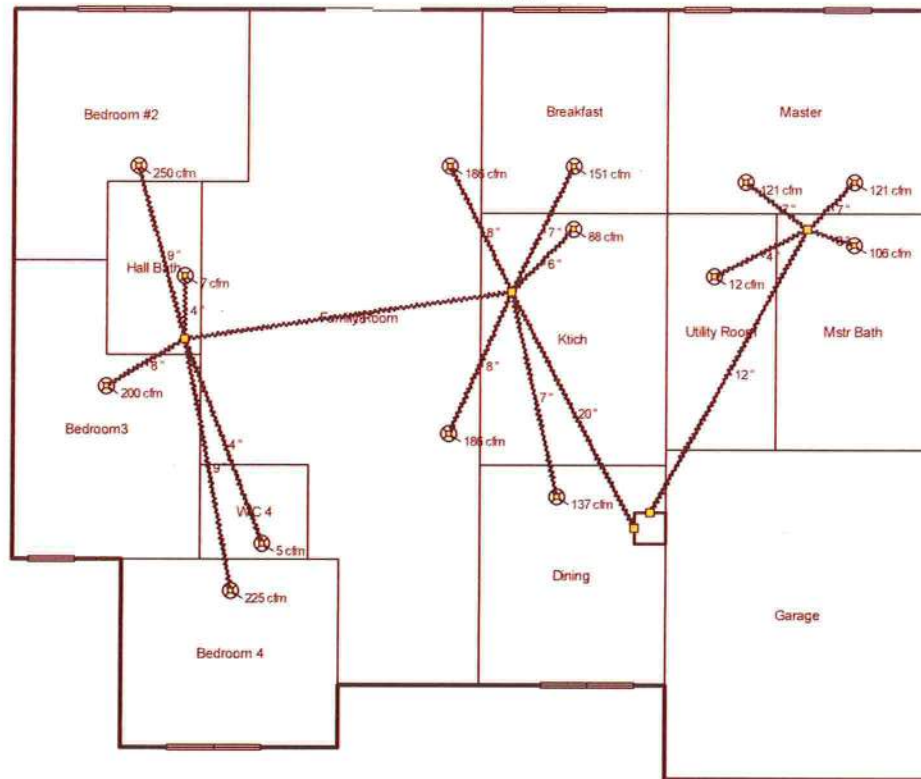
Job #:
Performed for:
Devon Johnson
Parcel # 11-6S-16-03815-165
Fort White, FL

Comfort Temp Company
4301 NW 6th ST
Gainesville, FL 32609
Phone: 352 275 4022 Fax: 352 376 0523
www.comforttemp.com jay@comforttemp.com

Scale: 1 : 148
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Level 1



Job #:
Performed for:
Devon Johnson
Parcel # 11-6S-16-03815-165
Fort White, FL

Comfort Temp Company
4301 NW 6th ST
Gainesville, FL 32609
Phone: 352 275 4022 Fax: 352 376 0523
www.comforttemp.com jay@comforttemp.com

Scale: 1 : 148
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2020-Nov-04 04:46:01
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Duct System Summary

Entire House

Comfort Temp Company

Job:
Date: Feb 07, 2020
By:

4301 NW 6th ST, Gainesville, FL 32609 Phone: 352 275 4022 Fax: 352 376 0523 Email: jay@comfortemp.com Web: www.comfortemp.com

Project Information

For: Devon Johnson
Parcel # 11-6S-16-03815-165, Fort White, FL

	Heating	Cooling
External static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Pressure losses	0 in H ₂ O	0 in H ₂ O
Available static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Supply / return available pressure	0.250 / 0.250 in H ₂ O	0.250 / 0.250 in H ₂ O
Lowest friction rate	0.304 in/100ft	0.304 in/100ft
Actual air flow	1550 cfm	1550 cfm
Total effective length (TEL)	164 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bedroom #2	h 5017	250	213	0.313	9.0	0x0	VIFx	49.6	110.0	st3
Bedroom 4	h 4519	225	162	0.304	9.0	0x0	VIFx	54.5	110.0	st3
Bedroom3-A	h 4015	200	121	0.325	8.0	0x0	VIFx	44.0	110.0	st3
Breakfast	c 3208	119	151	0.431	7.0	0x0	VIFx	25.9	90.0	st2
Dining	c 2908	125	137	0.415	7.0	0x0	VIFx	30.3	90.0	st2
Family Room	c 3956	125	186	0.431	8.0	0x0	VIFx	25.9	90.0	st2
Family Room-A	c 3956	125	186	0.428	8.0	0x0	VIFx	26.8	90.0	st2
Hall Bath	c 158	5	7	0.328	4.0	0x0	VIFx	42.2	110.0	st3
Kitch	c 1876	16	88	0.444	6.0	0x0	VIFx	22.7	90.0	st2
Master	h 2429	121	119	0.433	7.0	0x0	VIFx	25.6	90.0	st1
Master-A	h 2429	121	119	0.435	7.0	0x0	VIFx	24.8	90.0	st1
Mstr Bath	h 2135	106	43	0.440	6.0	0x0	VIFx	23.8	90.0	st1
Utility Room	c 251	9	12	0.426	4.0	0x0	VIFx	27.3	90.0	st1
WIC 4	c 101	3	5	0.308	4.0	0x0	VIFx	52.1	110.0	st3

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3	Peak AVF	684	508	0.304	490	16.0	0 x 0	VinIFlx	st2
st2	Peak AVF	1193	1257	0.304	576	20.0	0 x 0	VinIFlx	
st1	Peak AVF	357	293	0.426	455	12.0	0 x 0	VinIFlx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb16	0x 0	236	174	0	0	0	0	0x 0		VIFx	
rb11	0x 0	371	443	0	0	0	0	0x 0		VIFx	
rb13	0x 0	363	406	0	0	0	0	0x 0		VIFx	
rb15	0x 0	580	528	0	0	0	0	0x 0		VIFx	

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: D Johnson Residence-Red Door Street: Parcel 11-6S-16-03815-165 City, State, Zip: Fort White, FL, Owner: Devon Johnson Design Location: FL, Gainesville	Builder Name: Red Door Homes Permit Office: Columbia County Building Dept Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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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 4 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2142 Conditioned floor area below grade (ft²) 0 7. Windows(214.3 sqft.) Description Area a. U-Factor: Dbl, U=0.21 108.33 ft² SHGC: SHGC=0.31 b. U-Factor: Dbl, U=0.33 106.00 ft² SHGC: SHGC=0.27 c. U-Factor: N/A ft² SHGC: d. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 ft. Area Weighted Average SHGC: 0.290 8. Floor Types (2142.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 2142.00 ft² b. N/A R= ft² c. N/A R= ft²	9. Wall Types(1872.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1588.50 ft² b. Frame - Wood, Adjacent R=13.0 283.50 ft² c. N/A R= ft² d. N/A R= ft² 10. Ceiling Types (2142.0 sqft.) Insulation Area a. Under Attic (Vented) R=30.0 2142.00 ft² b. N/A R= ft² c. N/A R= ft² 11. Ducts R ft² a. Sup: Attic, Ret: Attic, AH: Attic 6 428.4 12. Cooling systems kBtu/hr Efficiency a. Central Unit 46.5 SEER:14.00 13. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 46.5 HSPF:8.50 14. Hot water systems a. Electric Cap: 40 gallons b. Conservation features EF: 0.960 None 15. Credits Pstat
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Glass/Floor Area: 0.100	Total Proposed Modified Loads: 54.40 Total Baseline Loads: 56.49	PASS
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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: _____
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- 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

PROJECT

Title:	D Johnson Residence-Red D	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2142	Lot #	
Owner Name:	Devon Johnson	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Red Door Homes	Rotate Angle:	0	Street:	Parcel 11-6S-16-03815-
Permit Office:	Columbia County Building De	Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Fort White , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2142	19278

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2142	19278	Yes	4	4	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	207 ft	0	2142 ft²	----	0.33	0.33	0.34

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	2396 ft²	0 ft²	Medium	N	0.96	No	0.9	No	0	26.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2142 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	2142 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	SE	Exterior	Frame - Wood	Main	13	17		9		153.0 ft²		0.23	0.75	0
2	NE	Exterior	Frame - Wood	Main	13	5	6	9		49.5 ft²		0.23	0.75	0
3	SE	Exterior	Frame - Wood	Main	13	13		9		117.0 ft²		0.23	0.75	0
4	SW	Exterior	Frame - Wood	Main	13	12		9		108.0 ft²		0.23	0.75	0
5	SE	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²		0.23	0.75	0
6	SW	Exterior	Frame - Wood	Main	13	34		9		306.0 ft²		0.23	0.75	0
7	NW	Exterior	Frame - Wood	Main	13	58		9		522.0 ft²		0.23	0.75	0
8	NE	Exterior	Frame - Wood	Main	13	29		9		261.0 ft²		0.23	0.75	0
9	SE	Garage	Frame - Wood	Main	13	20		9		180.0 ft²		0.23	0.75	0
10	NE	Garage	Frame - Wood	Main	13	11	6	9		103.5 ft²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	SE	Insulated	Main	None	.46	3		6	8	20 ft²
2	SE	Insulated	Main	None	.46	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	SE	1	Vinyl	Low-E Double	Yes	0.21	0.31	N	30.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 5
2	SE	3	Vinyl	Low-E Double	Yes	0.21	0.31	N	30.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 5
3	SE	5	Vinyl	Low-E Double	Yes	0.21	0.31	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 5
4	NW	7	Vinyl	Low-E Double	Yes	0.33	0.27	N	90.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 5
5	NW	7	Vinyl	Low-E Double	Yes	0.21	0.31	N	33.3 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 5
6	NE	8	Vinyl	Low-E Double	Yes	0.33	0.27	N	16.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 5

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	400 ft²	400 ft²	48.15 ft	9 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1606.5	88.19	165.86	.1128	5

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM

✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
✓	1	Electric Heat Pump/	None	Singl	HSPF:8.5	46.5 kBtu/hr	1	sys#1

COOLING SYSTEM

✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit/	None	Singl	SEER: 14	46.5 kBtu/hr	1550 cfm	0.85	1	sys#1

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	None	Garage	0.96	40 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM

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

DUCTS

✓	#	Location	Supply R-Value	Area	Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
✓	1	Attic	6	428.4 ft	Attic	107.1 ft	Prop. Leak Free	Attic	--- cfm	64.3 cfm	0.03	0.50	1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[X] Nov	[X] Dec
Heating	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec
Venting	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec

Thermostat Schedule: HERS 2006 Reference

Hours

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

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	Main
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	2nd Floor