

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

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Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 20-4127
Job Description: Williams Floor Plan	
Address:	

Job Engineering Criteria:			
Design Code: FBC 2017 RES		IntelliVIEW Version: 18.02.01B through 19.02.02B JRef #: 1WV12150006	
Wind Standard: ASCE 7-10	Wind Speed (mph): 130	Roof Load (psf): 20.00-10.00- 0.00-10.00	
Building Type: Closed		Floor Load (psf): None	

This package contains general notes pages, 43 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	127.20.1156.17386	A01
3	127.20.1156.18073	A03
5	127.20.1156.17589	A05
7	127.20.1156.17884	A07
9	127.20.1156.17947	A09
11	127.20.1156.17698	A11
13	127.20.1156.17650	A13
15	127.20.1201.59023	A14A
17	127.20.1202.18890	A16
19	127.20.1156.17869	B01
21	127.20.1156.17806	B03
23	127.20.1156.17511	B04
25	127.20.1156.17510	C01
27	127.20.1202.34390	C03
29	127.20.1156.17604	D02
31	127.20.1156.18118	J01
33	127.20.1156.17978	J01B
35	127.20.1156.17728	J01D
37	127.20.1156.17262	J02
39	127.20.1156.17714	J04
41	127.20.1156.17715	J06
43	127.20.1156.17853	PB02
45	BRCLBSUB0119	
47	PB160101014	

Item	Drawing Number	Truss
2	127.20.1156.17387	A02
4	127.20.1156.17915	A04
6	127.20.1156.18072	A06
8	127.20.1156.17263	A08
10	127.20.1201.40563	A10
12	127.20.1201.49017	A12
14	127.20.1201.53043	A14
16	127.20.1156.17388	A15
18	127.20.1156.17792	A17
20	127.20.1156.18104	B02
22	127.20.1156.17389	B03A
24	127.20.1156.17651	B05
26	127.20.1156.17385	C02
28	127.20.1156.17837	D01
30	127.20.1156.18026	D03
32	127.20.1156.18009	J01A
34	127.20.1156.17542	J01C
36	127.20.1156.18165	J01E
38	127.20.1156.17636	J03
40	127.20.1156.17948	J05HJ
42	127.20.1156.17653	PB01
44	A14015ENC101014	
46	GBLLETIN0118	



## **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](http://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.

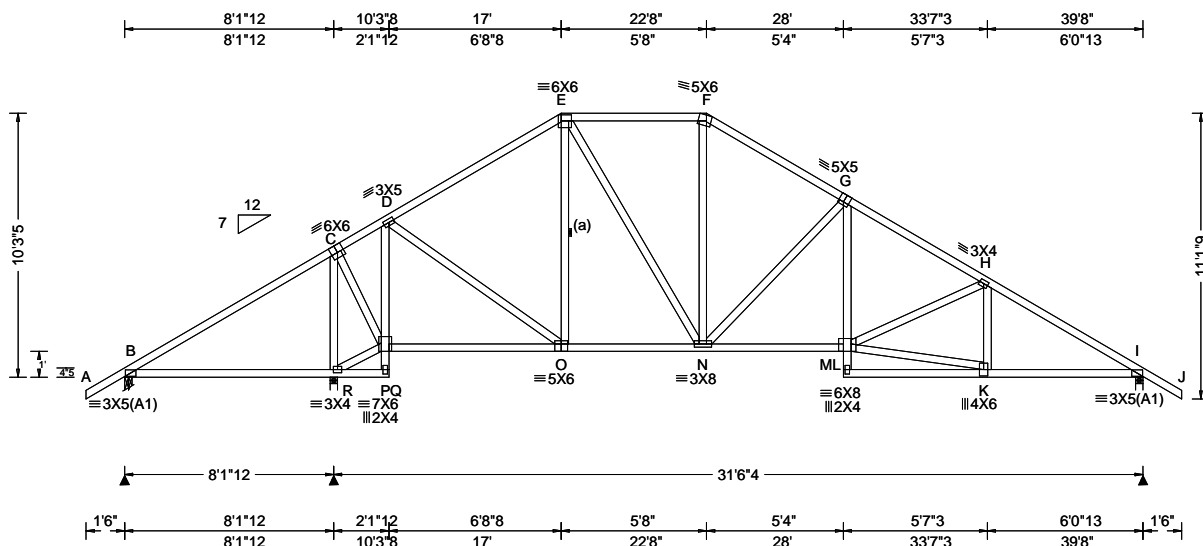


**References:**

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; [www.awc.org](http://www.awc.org).
2. ICC: International Code Council; [www.iccsafe.org](http://www.iccsafe.org).
3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; [www.alpineitw.com](http://www.alpineitw.com).
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; [www.tpinst.org](http://www.tpinst.org).
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; [www.sbcindustry.com](http://www.sbcindustry.com).



SEQN: 314387 / FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 20-4127 Williams Floor Plan Truss Label: A01	Cust: R 215 JRef: 1WV12150006 T34 / DrwNo: 127.20.1156.17386 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.081 L 999 240 VERT(CL): 0.164 L 999 180 HORZ(LL): 0.034 K - - HORZ(TL): 0.069 K - - Creep Factor: 2.0 Max TC CSI: 0.897 Max BC CSI: 0.683 Max Web CSI: 0.967  VIEW Ver: 18.02.01B.0321.08	<b>Gravity</b> Loc R+ / R- / Rh / Rw / U / RL B 376 /-21 /- /122 /11 /239 R 1900 /- /- /1112 /- /- I 1358 /- /- /814 /- /- <b>Non-Gravity</b> Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 R Brg Width = 3.5 Min Req = 1.9 I Brg Width = 3.5 Min Req = 1.6 Bearings B, R, & I are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

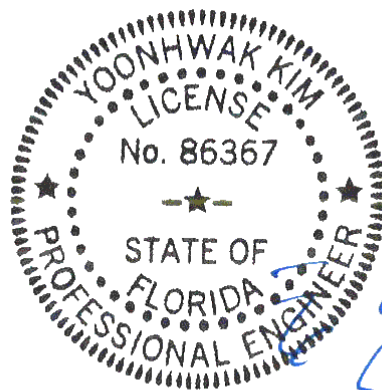
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-3-5.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
O - N	794 0	K - I	1670 - 120
N - L	1565 - 51		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - R	138 - 1477	E - N	453 - 49
C - P	1040 - 15	N - G	140 - 784
R - P	97 - 437	G - L	534 - 37
P - D	82 - 1160	L - K	1663 - 119
D - O	797 0		

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
**\*\*IMPORTANT\*\*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS  
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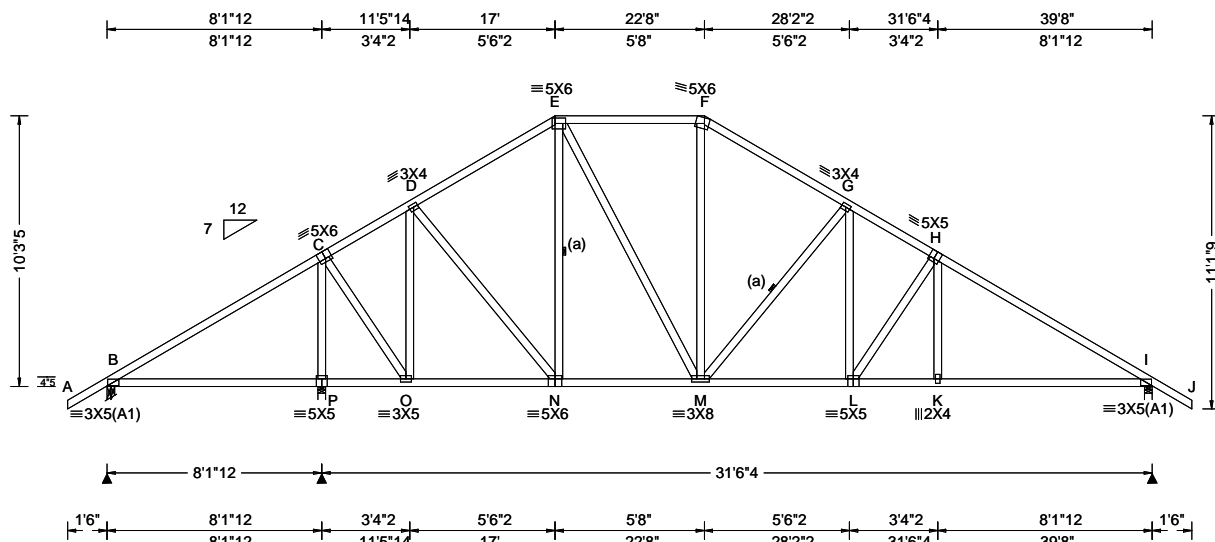
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, 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.

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

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



SEQN: 314388 / FROM: CDM	COMM Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: A02	Cust: R 215 JRef: 1WV12150006 T33 / DrwNo: 127.20.1156.17387 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.066 L 999 240 VERT(CL): 0.135 L 999 180 HORZ(LL): 0.025 K - - HORZ(TL): 0.051 K - - Creep Factor: 2.0 Max TC CSI: 0.953 Max BC CSI: 0.703 Max Web CSI: 0.731  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 471 -/- /- /217 -/- /239 P 1682 -/- /- /989 -/- /- I 1409 -/- /- /838 -/- /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 P Brg Width = 3.5 Min Req = 2.0 I Brg Width = 3.5 Min Req = 1.7 Bearings B, P, & I are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### Wind

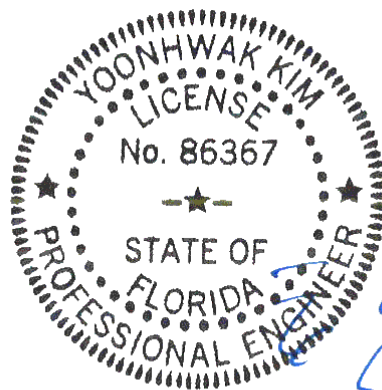
Wind loads based on MWFRS with additional C&C member design.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10'-3-5".

THIS TRUSS MUST BE INSTALLED AS SHOWN AND NOT END FOR END.



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05/06/2020

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
O - N	544 -47	L - K	1653 -105
N - M	823 0	K - I	1656 -105
M - L	1380 -46		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
P - C	173 -1489	E - M	407 -47
C - O	1021 -28	M - G	126 -582
O - D	45 -812	G - L	460 -68
D - N	468 0	L - H	106 -478

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
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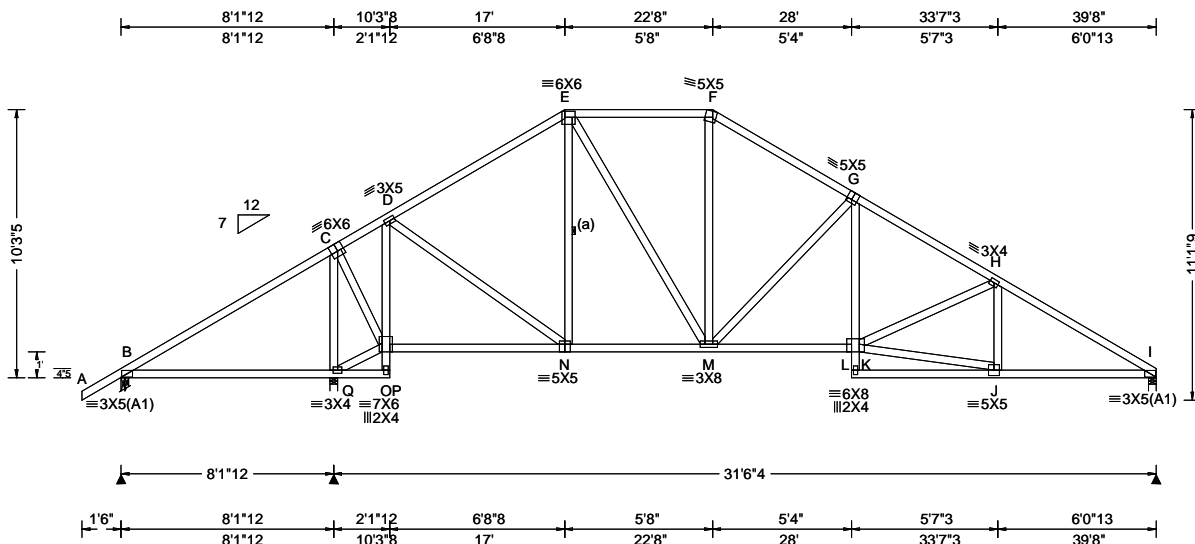
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AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314389 / FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 20-4127 Williams Floor Plan Truss Label: A03	Cust: R 215 JRef: 1WV12150006 T25 / DrwNo: 127.20.1156.18073 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.080 K 999 240 VERT(CL): 0.163 K 999 180 HORZ(LL): 0.034 J - - HORZ(TL): 0.070 J - - Creep Factor: 2.0 Max TC CSI: 0.896 Max BC CSI: 0.683 Max Web CSI: 0.976  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 377 /-19 /- /127 /7 /228 Q 1900 /- /- /1107 /- /- I 1254 /- /- /742 /- /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 Q Brg Width = 3.5 Min Req = 1.9 I Brg Width = 3.5 Min Req = 1.5 Bearings B, Q, & I are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

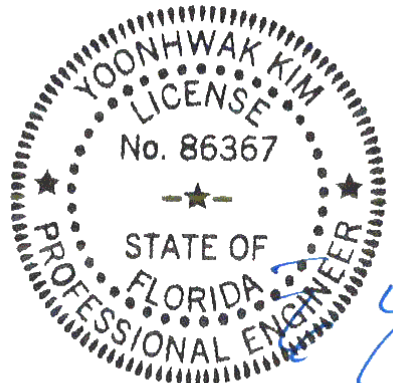
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-3-5.

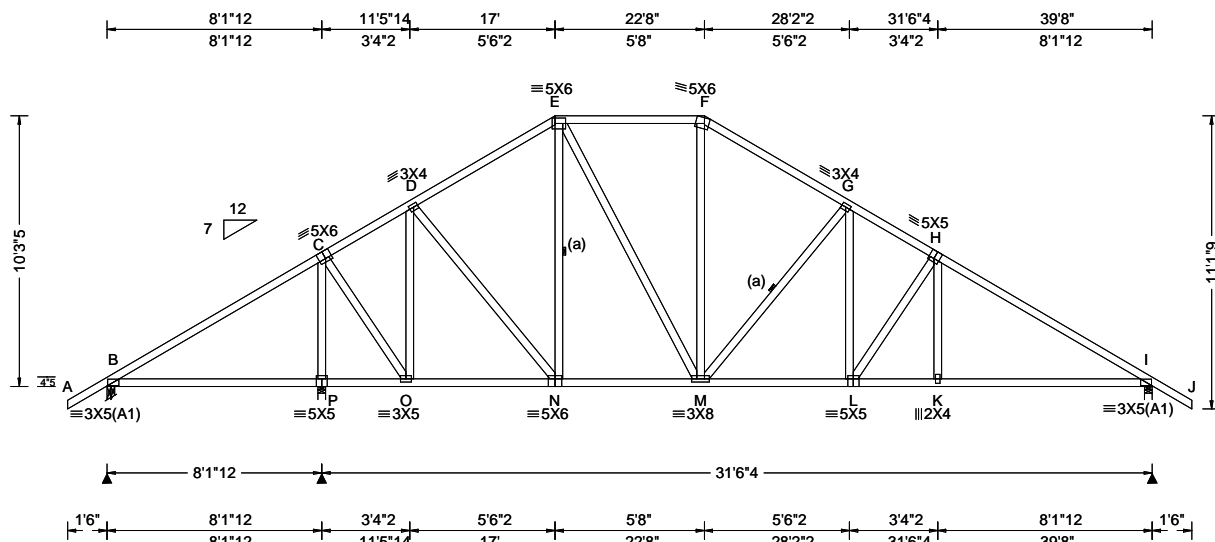


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05/06/2020

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

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6750 Forum Drive  
Suite 305  
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.066 L 999 240 VERT(CL): 0.135 L 999 180 HORZ(LL): 0.025 K - - HORZ(TL): 0.051 K - - Creep Factor: 2.0 Max TC CSI: 0.953 Max BC CSI: 0.703 Max Web CSI: 0.731  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 471 -/- /- /220 -/- /232 P 1682 -/- /- /988 -/- /- I 1409 -/- /- /840 -/- /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 P Brg Width = 3.5 Min Req = 2.0 I Brg Width = 3.5 Min Req = 1.7 Bearings B, P, & I are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### Wind

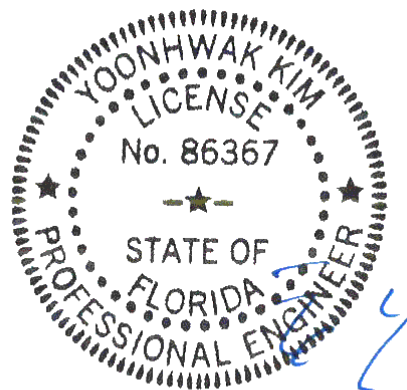
Wind loads based on MWFRS with additional C&C member design.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10'-3-5.

THIS TRUSS MUST BE INSTALLED AS SHOWN AND NOT END FOR END.



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#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
O - N	544 -42	L - K	1653 -87
N - M	823 0	K - I	1656 -87
M - L	1380 -28		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
P - C	150 -1489	E - M	407 -45
C - O	1021 -10	M - G	131 -582
O - D	30 -812	G - L	460 -67
D - N	468 0	L - H	104 -478

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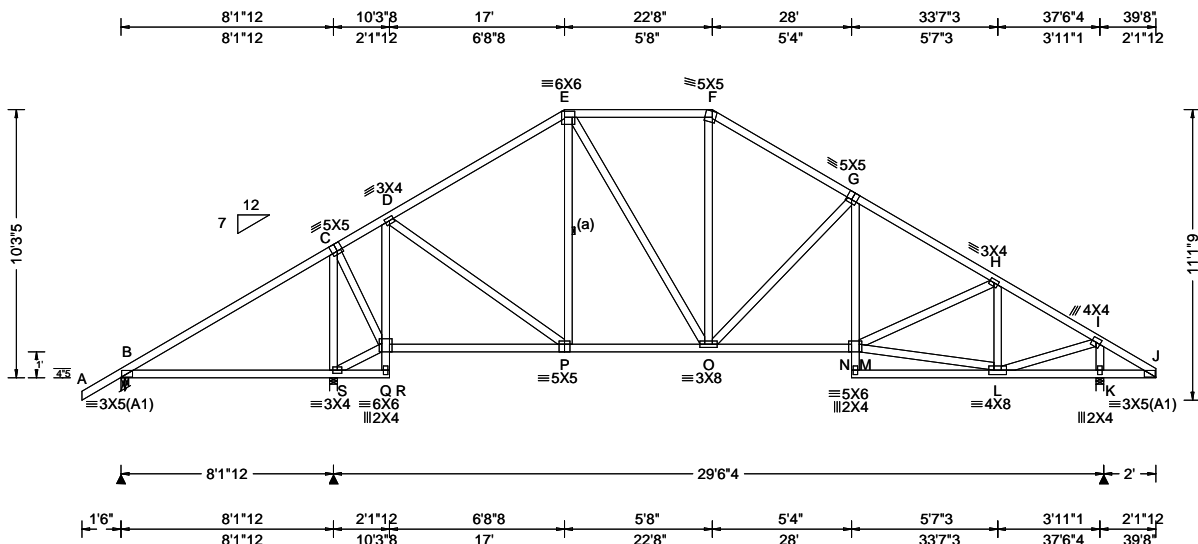
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314391 / FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: A05	Cust: R 215 JRef: 1WV12150006 T26 / DrwNo: 127.20.1156.17589 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.050 M 999 240 VERT(CL): 0.102 M 999 180 HORZ(LL): 0.025 L - - HORZ(TL): 0.051 K - - Creep Factor: 2.0 Max TC CSI: 0.730 Max BC CSI: 0.564 Max Web CSI: 0.698  VIEW Ver: 18.02.01B.0321.08	<b>Gravity</b> Loc R+ / R- / Rh / Rw / U / RL B 432 -/- /- /180 -/- /220 S 1685 -/- /- /1001 -/- /- K 1369 -/- /- /838 -/- /- <b>Non-Gravity</b> Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 S Brg Width = 3.5 Min Req = 1.6 K Brg Width = 3.5 Min Req = 1.5 Bearings B, S, & K are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

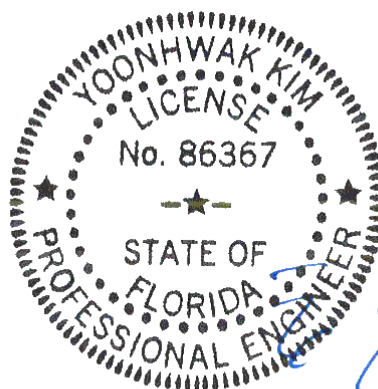
#### Wind

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

Right cantilever is exposed to wind

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 10-3-5.

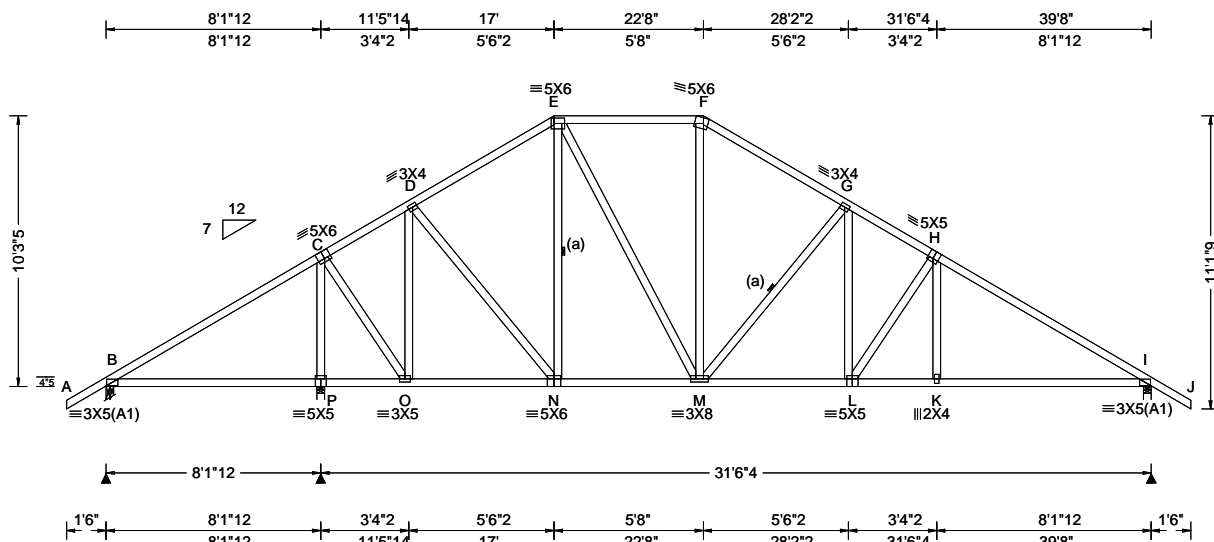


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05/06/2020

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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	Wind Std: ASCE 7-10	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): 0.066 L 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.135 L 999 180	B 471 -/- /227 -/- /213
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 K - -	P 1682 -/- /970 -/- -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.051 K - -	I 1409 -/- /835 -/- -
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.953	B Brg Width = 3.5 Min Req = 1.5
Load Duration: 1.25	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.703	P Brg Width = 3.5 Min Req = 2.0
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max Web CSI: 0.731	I Brg Width = 3.5 Min Req = 1.7
	C&C Dist a: 3.97 ft	Rep Fac: Yes		Bearings B, P, & I are a rigid surface.
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#
	GCp: 0.18	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### Wind

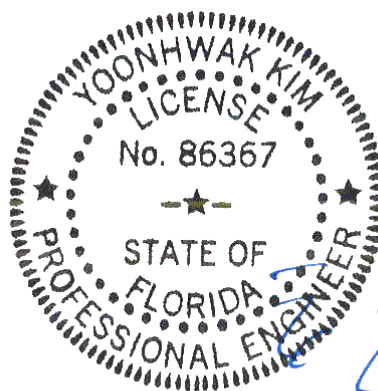
Wind loads based on MWFRS with additional C&C member design.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10'-3-5".

THIS TRUSS MUST BE INSTALLED AS SHOWN AND NOT END FOR END.



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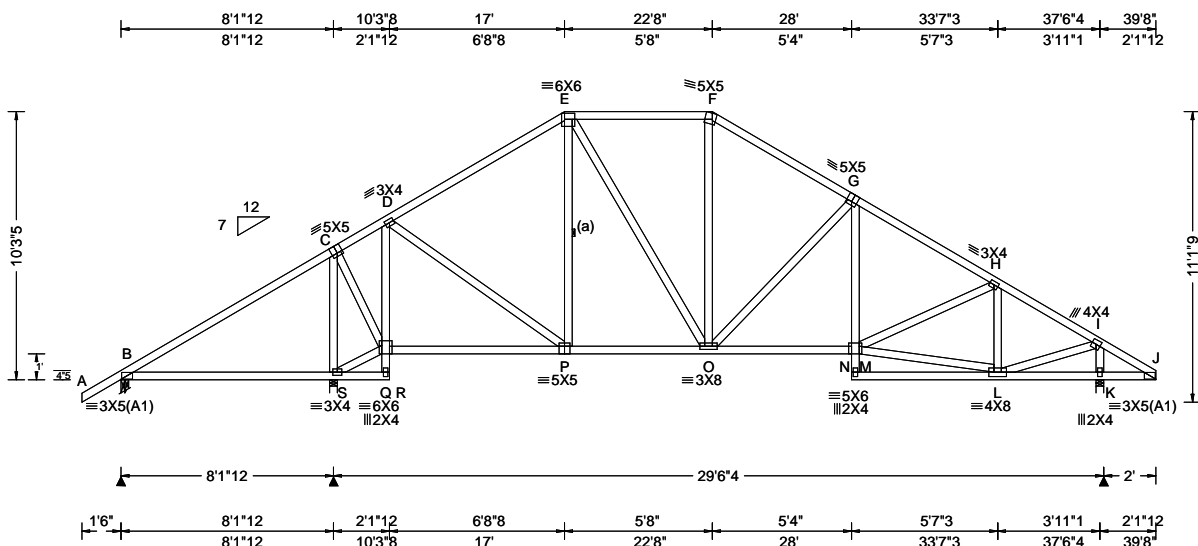
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SEQN: 314393 / FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: A07	Cust: R 215 JRef: 1WV12150006 T21 / DrwNo: 127.20.1156.17884 KD / DF 05/06/2020
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Loading Criteria (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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.050 M 999 240 VERT(CL): 0.102 M 999 180 HORZ(LL): 0.025 L - - HORZ(TL): 0.051 K - - Creep Factor: 2.0 Max TC CSI: 0.730 Max BC CSI: 0.564 Max Web CSI: 0.698  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 432 -/- /- /189 -/- /202 S 1685 -/- /- /982 -/- /- K 1369 -/- /- /832 -/- /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 S Brg Width = 3.5 Min Req = 1.6 K Brg Width = 3.5 Min Req = 1.5 Bearings B, S, & K are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

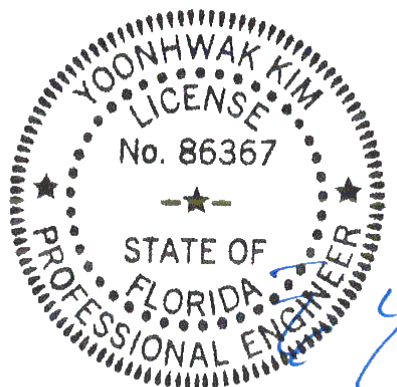
#### Wind

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

Right cantilever is exposed to wind

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 10-3-5.

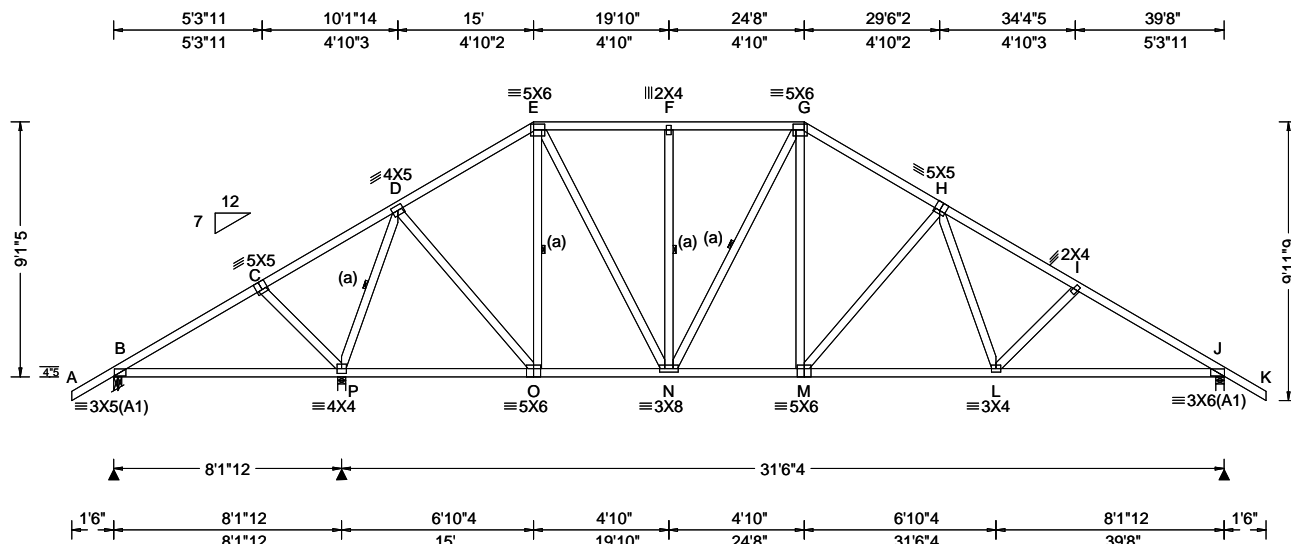


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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.069 H 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.141 H 999 180	B 336 -/- -/- /156 -/- /192
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.024 L - -	P 1898 -/- -/- /1053 -/- -/-
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.049 L - -	J 1370 -/- -/- /817 -/- -/-
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.449	B Brg Width = 3.5 Min Req = 1.5
Load Duration: 1.25	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.768	P Brg Width = 3.5 Min Req = 1.9
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max Web CSI: 0.599	J Brg Width = 3.5 Min Req = 1.6
	C&C Dist a: 3.97 ft	Rep Fac: Yes		Bearings B, P, & J are a rigid surface.
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#
	GCpi: 0.18	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

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

#### Bracing

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#### Purlins

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#### Wind

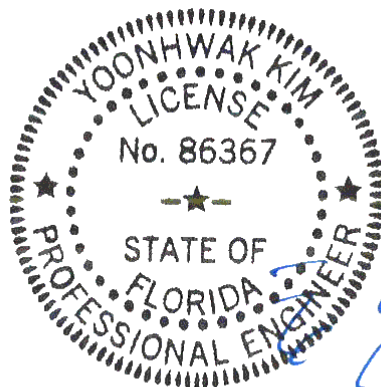
Wind loads based on MWFRS with additional C&C member design.

#### Additional Notes

Refer to General Notes for additional information

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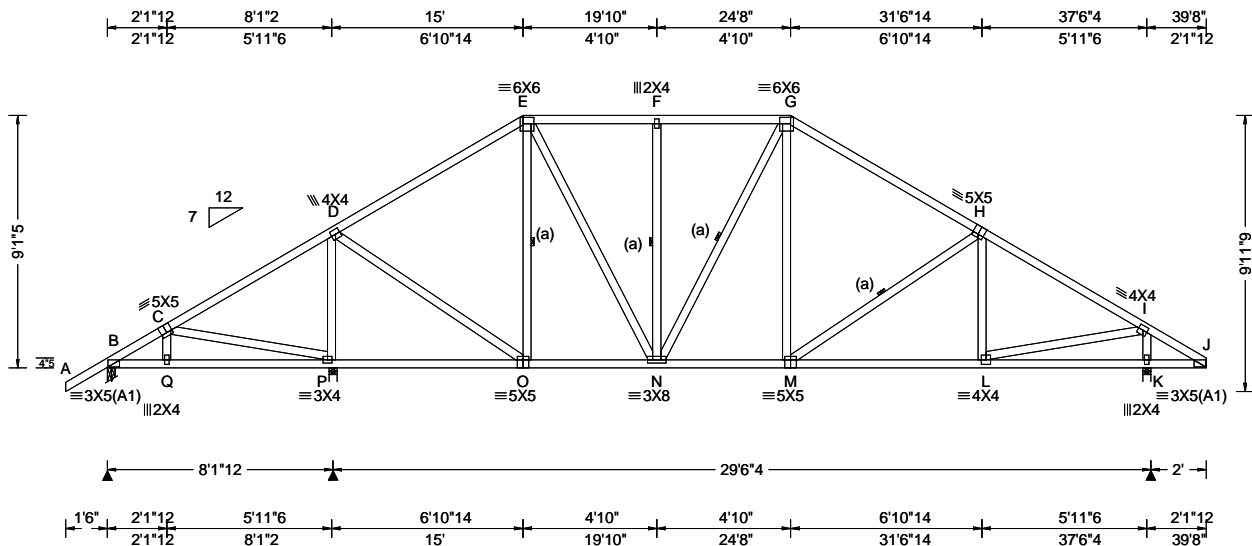


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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
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Webs: 2x4 SP #3;

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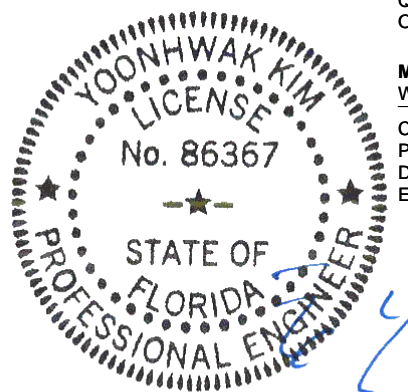
#### Wind

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Right cantilever is exposed to wind

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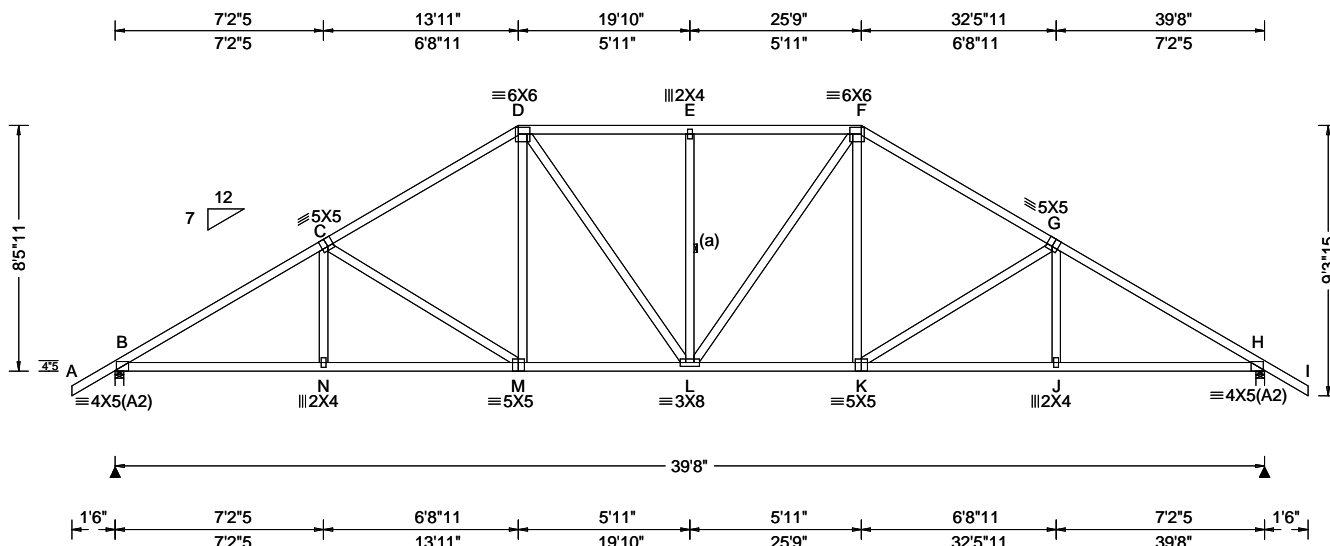
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AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 315568 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: A10	Cust: R 215 JRRef: 1WV12150006 T41 DrwNo: 127.20.1201.40563 KD / YK 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.144 E 999 240 VERT(CL): 0.295 E 999 180 HORZ(LL): 0.066 J - - HORZ(TL): 0.135 J - - Creep Factor: 2.0 Max TC CSI: 0.584 Max BC CSI: 0.737 Max Web CSI: 0.679  VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1751 - / - / 990 / 66 / 180 H 1751 - / - / 990 / 66 / - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 2.1 H Brg Width = 3.5 Min Req = 2.1 Bearings B & H are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 405 -2744 E - F 411 -1985 C - D 403 -2210 F - G 403 -2210 D - E 411 -1985 G - H 405 -2744

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

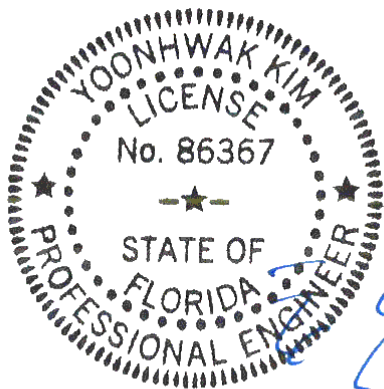
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 8'-5-11".

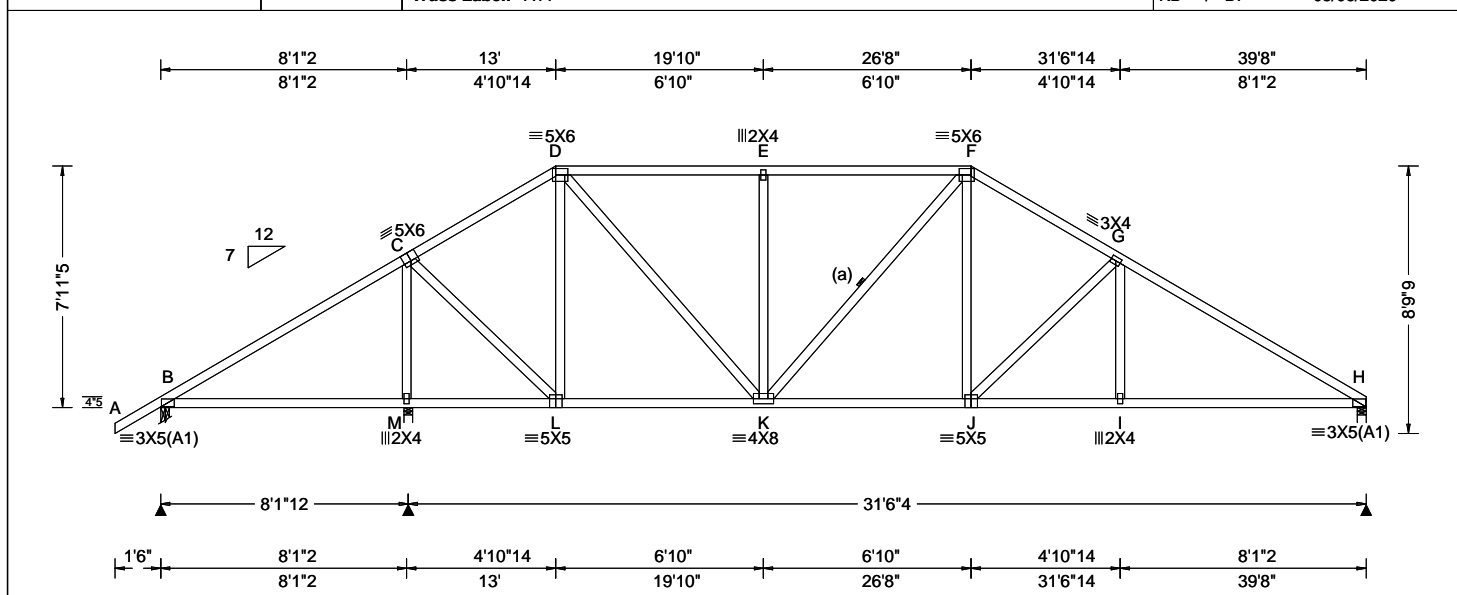


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05/06/2020

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**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	Wind Std: ASCE 7-10	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): 0.066 J 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.135 J 999 180	B 457 -/- -/- /225 /32 /159
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.024 I - -	M 1732 -/- -/- /955 /46 -/
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.050 I - -	H 1297 -/- -/- /747 /46 -/
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.937	B Brg Width = 3.5 Min Req = 1.5
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.710	M Brg Width = 3.5 Min Req = 1.7
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.752	H Brg Width = 3.5 Min Req = 1.5
	C&C Dist a: 3.97 ft	FT/RT:20(0)/10(0)		Bearings B, M, & H are a rigid surface.
	Loc. from endwall: not in 9.00 ft	Plate Type(s):		Members not listed have forces less than 375#
	GCpi: 0.18	WAVE	VIEW Ver: 18.02.01B.0321.08	Maximum Top Chord Forces Per Ply (lbs)
	Wind Duration: 1.60			Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

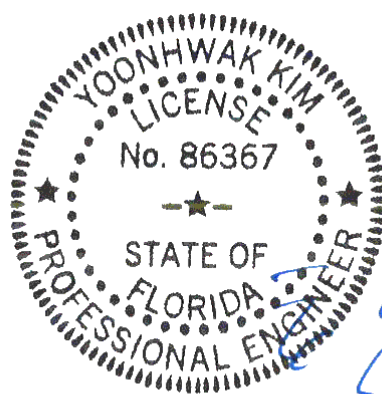
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 7-11-5.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/06/2020

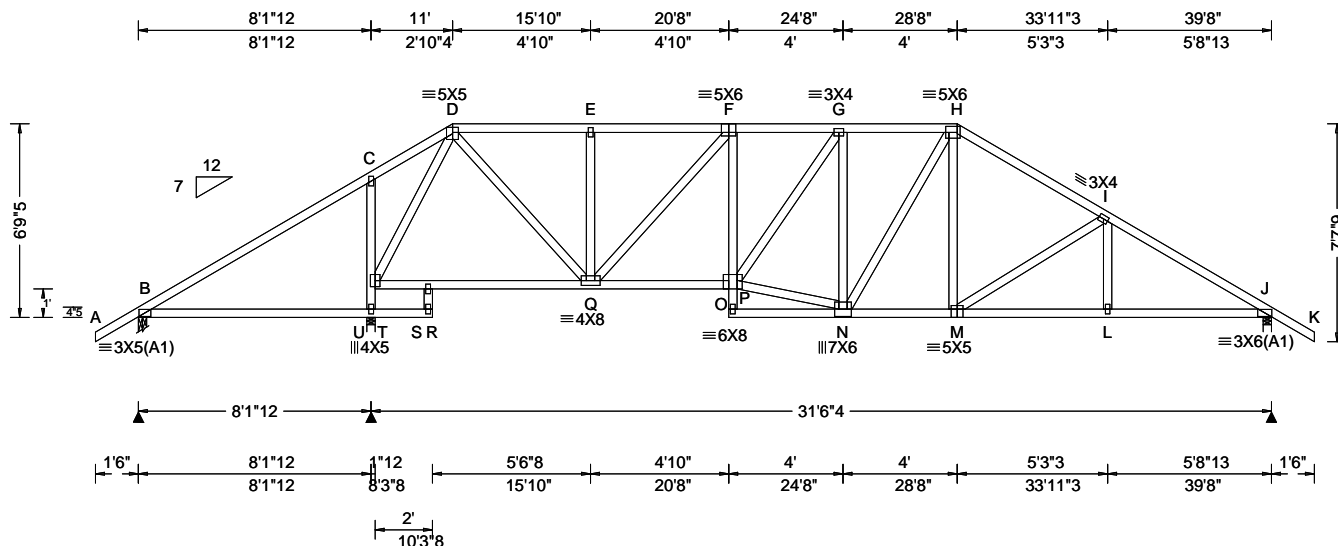
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 6750 Forum Drive  
 Suite 305  
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.087 G 999 240 VERT(CL): 0.180 G 999 180 HORZ(LL): 0.025 L - - HORZ(TL): 0.052 L - - Creep Factor: 2.0 Max TC CSI: 0.725 Max BC CSI: 0.594 Max Web CSI: 0.939  VIEW Ver: 18.02.01B.0321.08	<b>Gravity</b> Loc R+ / R- / Rh / Rw / U / RL B 392 - / - / - /179 /50 /149 U 1737 - / - / - /1001 /27 /- J 1402 - / - / - /818 /66 /- <b>Non-Gravity</b> Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 U Brg Width = 3.5 Min Req = 1.7 J Brg Width = 3.5 Min Req = 1.7 Bearings B, U, & J are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### Wind

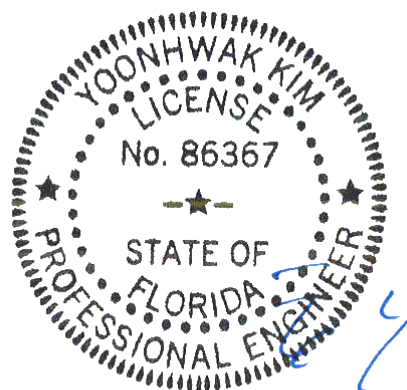
Wind loads based on MWFRS with additional C&C member design.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 6-9-5.

Note: Laterally brace bottom chord above filler at 2'0" O.C.  
Max. including a lateral brace at chord ends.



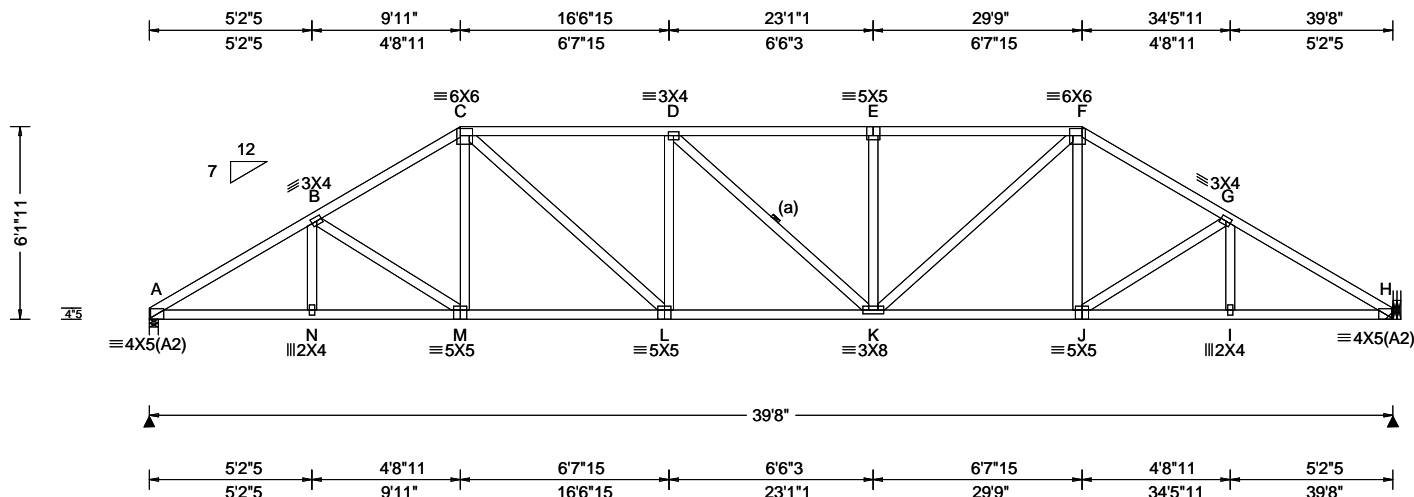
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05/06/2020

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Suite 305  
Orlando FL, 32821



SEQN: 315574 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: A14	Cust: R 215 JRef: 1WV12150006 T42 DrwNo: 127.20.1201.53043 KD / YK 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.187 E 999 240 VERT(CL): 0.388 E 999 180 HORZ(LL): 0.072 I - - HORZ(TL): 0.149 I - - Creep Factor: 2.0 Max TC CSI: 0.655 Max BC CSI: 0.811 Max Web CSI: 0.318  VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ / R- / Rh / Rw / U / RL A 1650 -/- /- /900 /61 /106 H 1648 -/- /- /899 /61 -/ Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.9 H Brg Width = - Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 462 -2819 E - F 527 -2730 B - C 461 -2497 F - G 461 -2501 C - D 524 -2715 G - H 464 -2830 D - E 527 -2730

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=39'5" uses the following support conditions: 39'5"

Bearing H (39'5", 9'1"2) HUS26

Supporting Member: (2)2x8 SP 2400F-2.0E

(14) 0.148"x3" nails into supporting

member,

(4) 0.148"x3" nails into supported

member.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

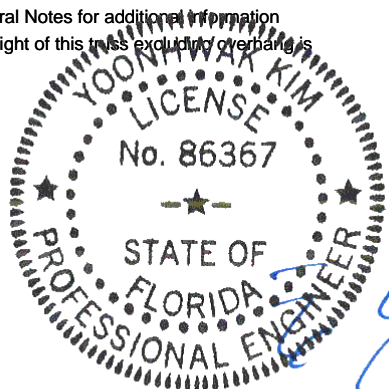
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 6'-11".



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - N	2361 -338	K - J	2102 -265
N - M	2359 -338	J - I	2371 -340
M - L	2100 -265	I - H	2372 -340
L - K	2735 -374		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - L	826 -138	E - K	127 -411
L - D	122 -420	K - F	835 -141

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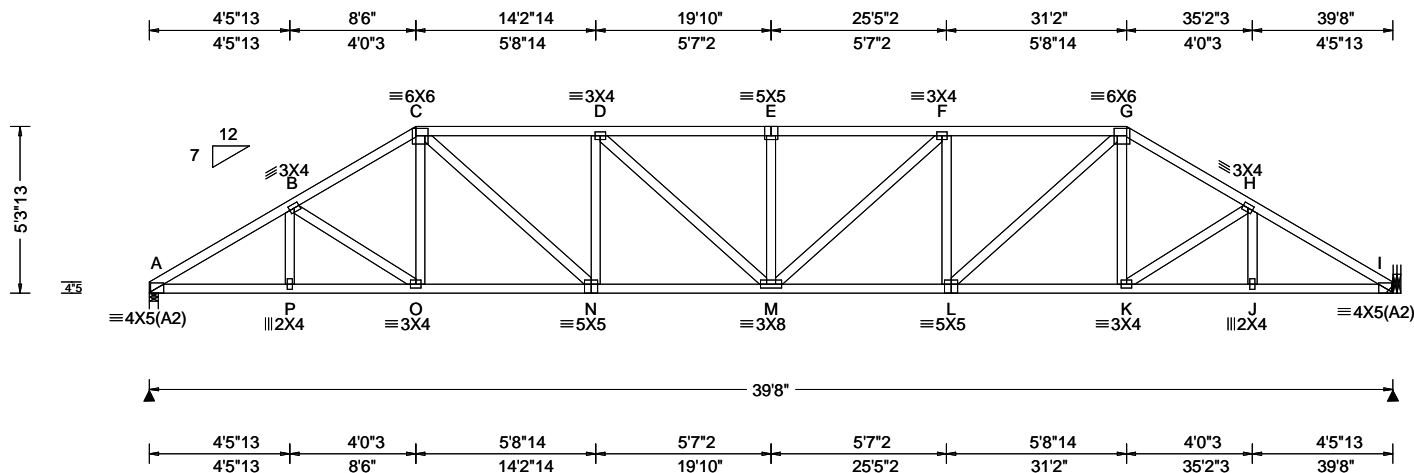
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 315577 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: A14A	Cust: R 215 JRef: 1WV12150006 T43 DrwNo: 127.20.1201.59023 KD / YK 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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 E 999 240 VERT(CL): 0.480 E 984 180 HORZ(LL): 0.077 J - - HORZ(TL): 0.159 J - - Creep Factor: 2.0 Max TC CSI: 0.580 Max BC CSI: 0.747 Max Web CSI: 0.401  VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ / R- / Rh / Rw / U / RL A 1650 -/- /- /890 /63 /91 I 1648 -/- /- /890 /63 /- Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.9 I Brg Width = - Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 474 -2826 E - F 602 -3244 B - C 476 -2584 F - G 563 -2972 C - D 563 -2970 G - H 477 -2589 D - E 602 -3244 H - I 476 -2839

#### Lumber

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

#### Hangers / Ties

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Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=39'5" uses the following support conditions: 39'5"

Bearing I (39'5", 9'1"2) HUS26

Supporting Member: (2)2x8 SP 2400f-2.0E

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

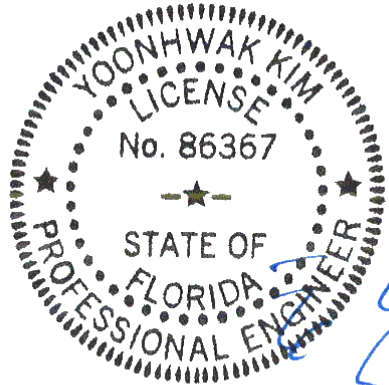
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 5-3-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

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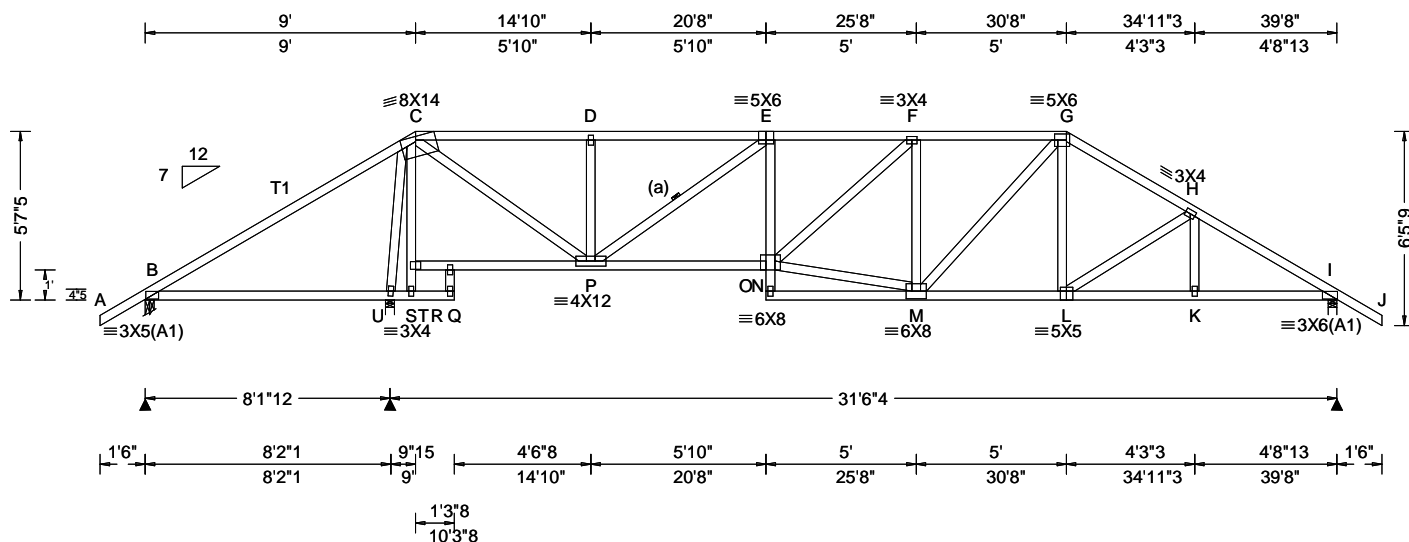
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6750 Forum Drive  
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SEQN: 314401 / FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: A15	Cust: R 215 JRef: 1WV12150006 T27 / DrwNo: 127.20.1156.17388 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.111 N 999 240 VERT(CL): 0.226 N 999 180 HORZ(LL): 0.022 K - - HORZ(TL): 0.045 K - - Creep Factor: 2.0 Max TC CSI: 0.493 Max BC CSI: 0.833 Max Web CSI: 0.721  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 362 -/6 -/ /138 /57 /128 U 1891 -/ -/ /1038 /22 -/ I 1365 -/ -/ /784 /70 -/ Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 U Brg Width = 3.5 Min Req = 1.9 I Brg Width = 3.5 Min Req = 1.6 Bearings B, U, & I are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> 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;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### Wind

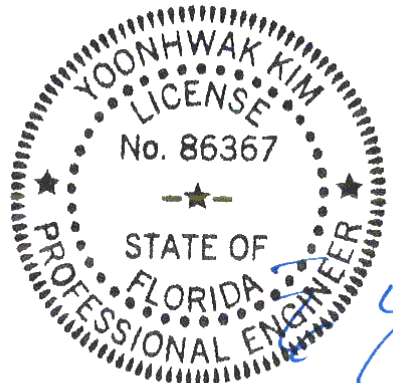
Wind loads based on MWFRS with additional C&C member design.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 5-7-5.

Note: Laterally brace bottom chord above filler at 2'0" O.C.  
Max. including a lateral brace at chord ends.

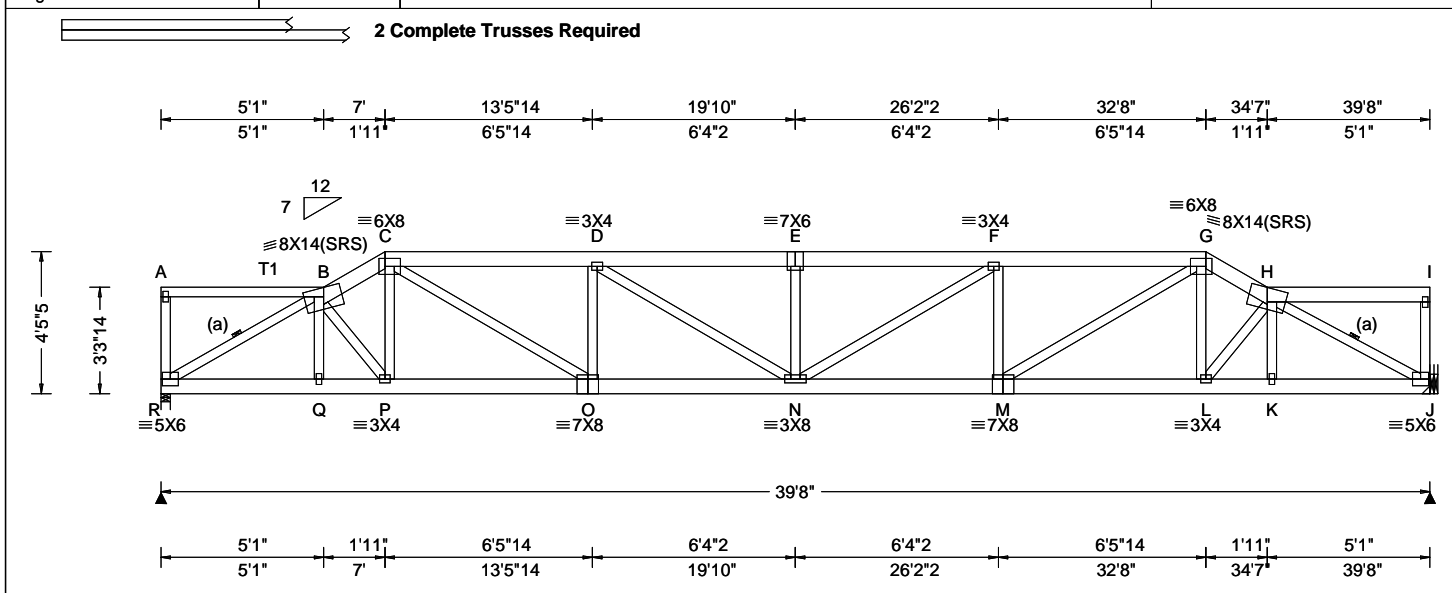


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05/06/2020

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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 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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.232 E 999 240 VERT(CL): 0.465 E 999 180 HORZ(LL): 0.051 J - - HORZ(TL): 0.103 J - - Creep Factor: 2.0 Max TC CSI: 0.253 Max BC CSI: 0.306 Max Web CSI: 0.820  VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ / R- / Rh / Rw / U / RL R 4139 -/- /- /- /230 -/ J 4035 -/- /- /- /335 -/ Wind reactions based on MWFRS R Brg Width = 3.5 Min Req = 1.7 J Brg Width = - Min Req = - Bearing R is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 227 -3451 E - F 380 -5053 C - D 329 -4522 F - G 348 -4512 D - E 380 -5053 G - H 270 -3446

**Lumber**  
Top chord: 2x6 SP 2400F-2.0E; T1 2x4 SP #2;  
Bot chord: 2x6 SP 2400F-2.0E;  
Webs: 2x4 SP #3;

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

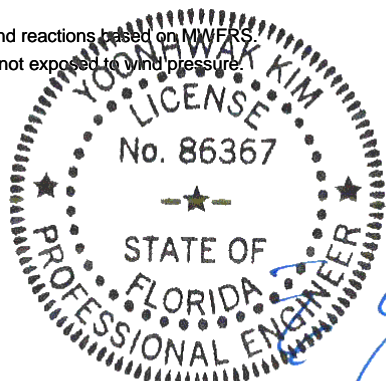
**Nailnote**  
Nail Schedule: 0.131"x3", min. nails  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

**Special Loads**  
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 63 plf at 0.00 to 63 plf at 7.00  
TC: From 32 plf at 7.00 to 32 plf at 39.67  
BC: From 10 plf at 0.00 to 10 plf at 39.67  
TC: 186 lb Conc. Load at 6.60  
TC: 190 lb Conc. Load at 8.60,10.60,12.60,14.60  
16.60,18.60,20.60,22.60,24.60,26.60,28.60,30.60  
32.60  
TC: 87 lb Conc. Load at 34.60,36.60,38.60  
BC: 285 lb Conc. Load at 0.60  
BC: 272 lb Conc. Load at 2.60, 4.60  
BC: 133 lb Conc. Load at 6.60  
BC: 130 lb Conc. Load at 8.60,10.60,12.60,14.60  
16.60,18.60,20.60,22.60,24.60,26.60,28.60,30.60  
32.60  
BC: 248 lb Conc. Load at 34.60,36.60,38.60

**Plating Notes**  
All plates are 2X4 except as noted.

**Purlins**  
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.  
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

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



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**Maximum Bot Chord Forces Per Ply (lbs)**

Chords	Tens.Comp.	Chords	Tens. Comp.
R - Q	3106 -190	N - M	4563 -355
Q - P	3099 -191	M - L	3011 -239
P - O	3030 -202	L - K	3119 -252
O - N	4573 -337	K - J	3125 -254

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.	Webs	Tens. Comp.
R - B	217 -3559	N - F	583 -30
C - O	1758 -150	F - M	104 -711
O - D	116 -706	M - G	1769 -128
D - N	571 -51	G - L	436 0
E - N	78 -380	H - J	290 -3572

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SEQN: 315579 FROM: CDM Page 2 of 2	SPEC Ply: 2 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: A16	Cust: R 215 JRef: 1WV12150006 T30 DrwNo: 127.20.1202.18890 KD / YK 05/06/2020
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#### Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=39'5" uses the following support conditions: 39'5"

Bearing J (39'5", 9'1"2) HGUS28-2

Supporting Member: (2)2x8 SP 2400f-2.0E

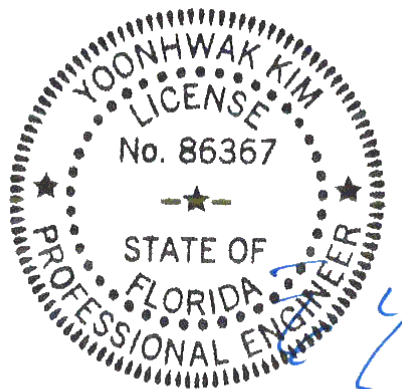
(36) 0.148"x3" nails into supporting member,

(6) 0.148"x3" nails into supported member.

#### Additional Notes

Refer to General Notes for additional information

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



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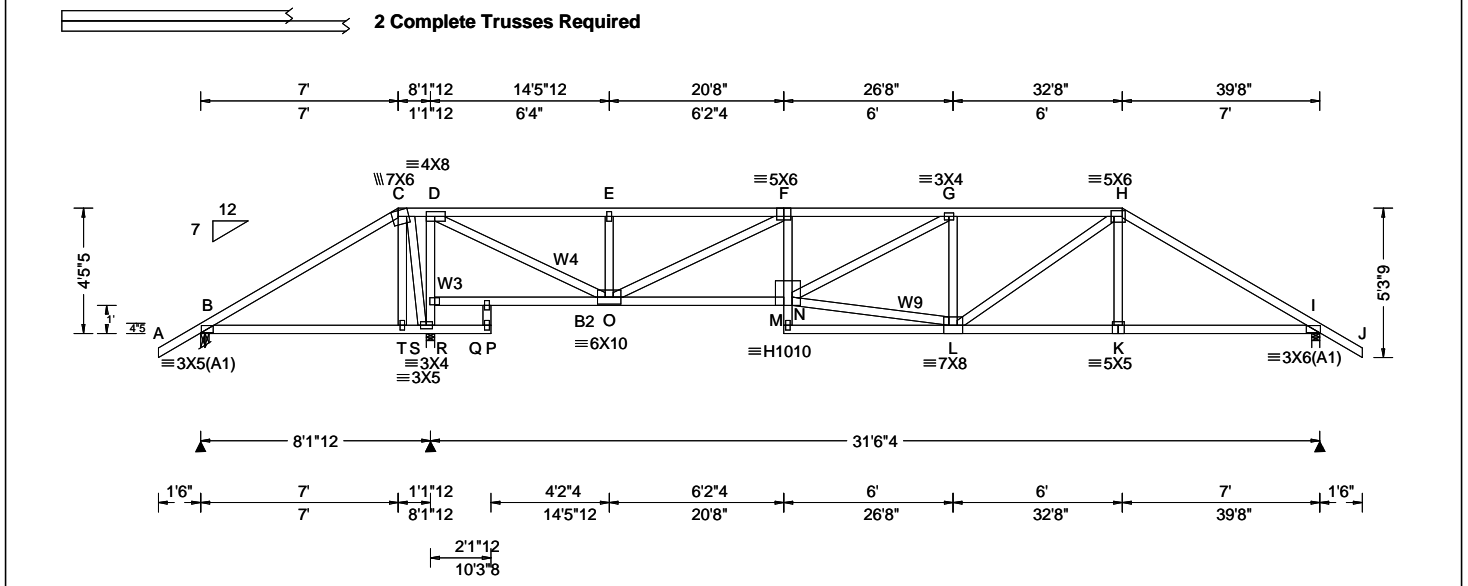
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.221 M 999 240 VERT(CL): 0.444 M 851 180 HORZ(LL): -0.046 H - - HORZ(TL): 0.094 H - - Creep Factor: 2.0 Max TC CSI: 0.775 Max BC CSI: 0.802 Max Web CSI: 0.931  VIEW Ver: 18.02.01B.0321.08	<b>Gravity</b> Loc R+ / R- / Rh / Rw / U / RL B - / -321 / - / 9 / - / - S 4908 / - / - / - / 327 / - I 2874 / - / - / - / 187 / - <b>Non-Gravity</b> Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 S Brg Width = 3.5 Min Req = 2.5 I Brg Width = 3.5 Min Req = 1.7 Bearings B, S, & I are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

Lumber	Plating Notes	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; B2 2x4 SP M-31; Webs: 2x4 SP #3; W3,W4,W9 2x4 SP #2;	All plates are 2X4 except as noted.	B - C 506 -57 F - G 283 -3658 C - D 521 -40 G - H 202 -2834 D - E 165 -2115 H - I 158 -2450 E - F 165 -2115

Nailnote	Purlins	Maximum Bot Chord Forces Per Ply (lbs)
Nail Schedule: 0.131"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @12.00" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.	In lieu of structural panels use purlins to brace all flat TC @ 24" oc.	B - T 41 -419 O - M 3683 -287 T - S 42 -412 L - K 2077 -125 R - Q 30 -395 K - I 2065 -126 Q - O 35 -492

Special Loads	Wind	Maximum Web Forces Per Ply (lbs)
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 63 plf at -1.50 to 63 plf at 7.00 TC: From 32 plf at 7.00 to 32 plf at 32.67 TC: From 63 plf at 32.67 to 63 plf at 41.17 BC: From 5 plf at -1.50 to 5 plf at 0.00 BC: From 20 plf at 0.00 to 20 plf at 7.03 BC: From 10 plf at 7.03 to 10 plf at 32.64 BC: From 20 plf at 32.64 to 20 plf at 39.67 BC: From 5 plf at 39.67 to 5 plf at 41.17 TC: 269 lb Conc. Load at 7.03,32.64 TC: 190 lb Conc. Load at 9.06,22.60,24.60,26.60 28.60,30.60 TC: 205 lb Conc. Load at 11.06,13.06,15.06,17.06 19.06,20.60 BC: 470 lb Conc. Load at 7.03,32.64 BC: 130 lb Conc. Load at 9.06,22.60,24.60,26.60 28.60,30.60 BC: 106 lb Conc. Load at 11.06,13.06,15.06,17.06 19.06,20.60	Wind loads and reactions based on MWFRS.	C - S 0 -537 F - M 391 0 S - R 173 -1765 M - G 898 -87 R - D 176 -1733 M - L 2797 -202 D - O 2919 -224 G - L 125 -809 E - O 85 -422 L - H 920 -94 O - F 136 -1757

Note: Laterally brace bottom chord above filler at 2'0" O.C.  
Max. including a lateral brace at chord ends.

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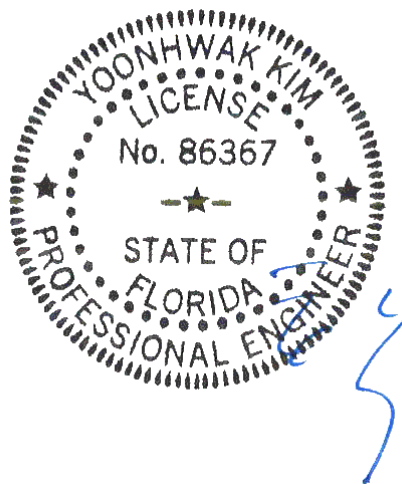
SEQN: 314403 /	HIPS	Ply: 2	Job Number: 20-4127	Cust: R 215 JRef: 1WV12150006 T19 /
FROM: CDM		Qty: 1	Williams Floor Plan	DrwNo: 127.20.1156.17792
Page 2 of 2			Truss Label: A17	KD / DF 05/06/2020

#### Additional Notes

Refer to General Notes for additional information

Negative reaction(s) of -321# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

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



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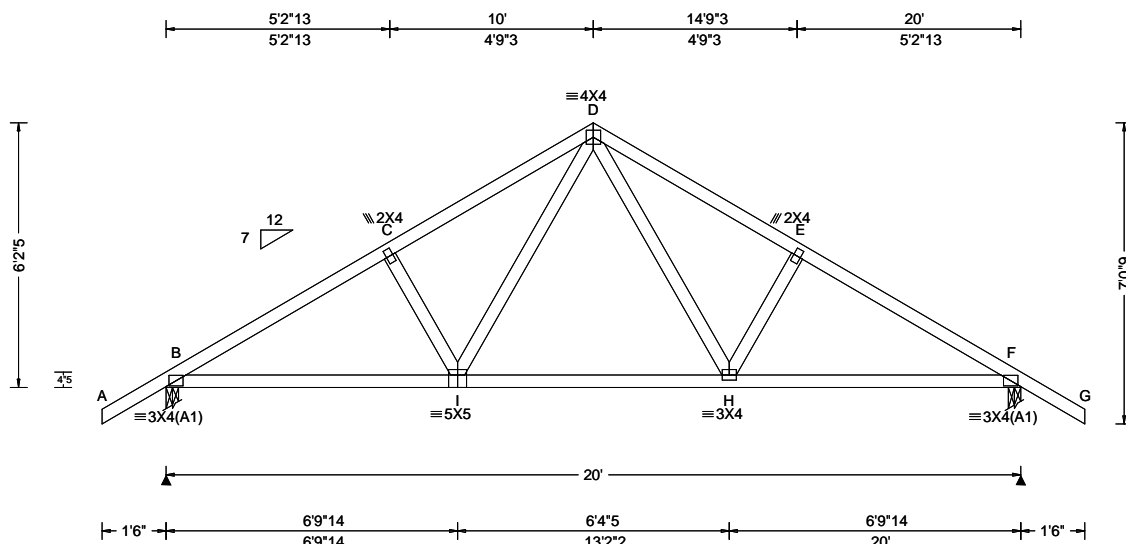
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SEQN: 314404 / FROM: CDM	COMN Ply: 1 Qty: 6	Job Number: 20-4127 Williams Floor Plan Truss Label: B01	Cust: R 215 JRef: 1WV12150006 T9 / DrwNo: 127.20.1156.17869 KD / DF 05/06/2020
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Loading Criteria (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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.038 H 999 240 VERT(CL): 0.074 H 999 180 HORZ(LL): 0.016 H - - HORZ(TL): 0.031 H - - Creep Factor: 2.0 Max TC CSI: 0.253 Max BC CSI: 0.524 Max Web CSI: 0.176  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 975 - / - / 533 / 34 / 131 F 975 - / - / 533 / 34 / - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 159 - 1326 D - E 190 - 1184 C - D 191 - 1182 E - F 159 - 1328

#### Lumber

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

#### Loading

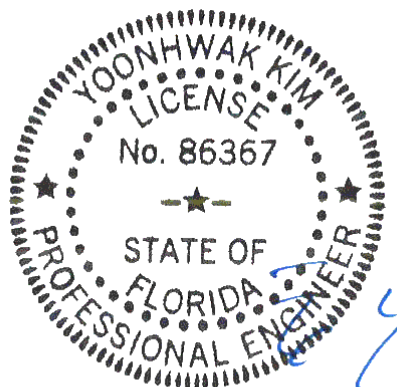
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 6'-2.5."



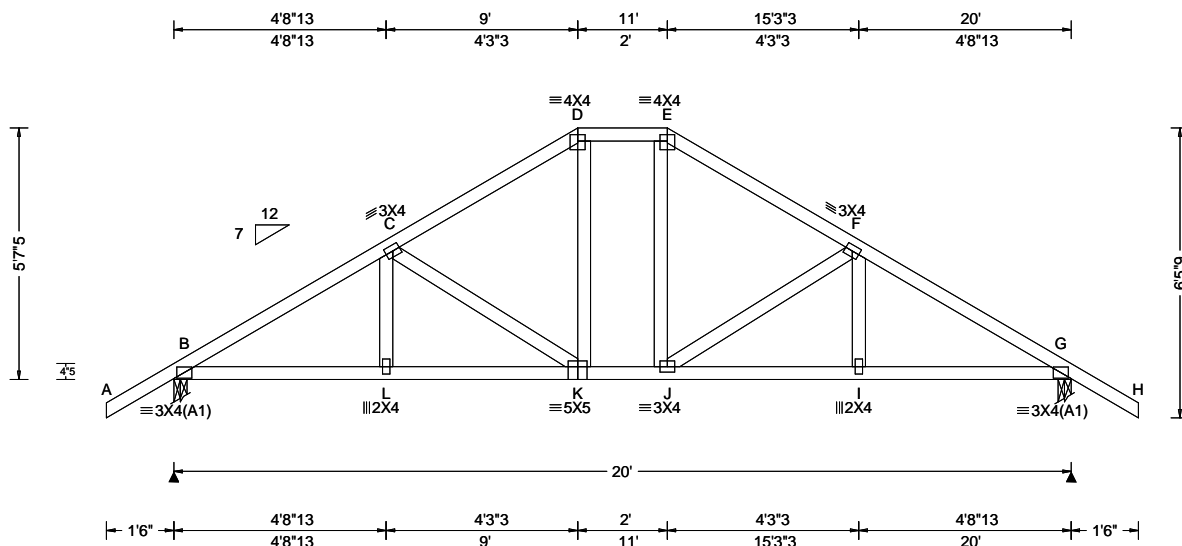
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Orlando FL, 32821



SEQN: 314405 / FROM: CDM	HIPS Ply: 1 Qty: 2	Job Number: 20-4127 Williams Floor Plan Truss Label: B02	Cust: R 215 JRef: 1WV12150006 T8 / DrwNo: 127.20.1156.18104 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.033 J 999 240 VERT(CL): 0.076 J 999 180 HORZ(LL): 0.016 I - - HORZ(TL): 0.032 I - - Creep Factor: 2.0 Max TC CSI: 0.238 Max BC CSI: 0.357 Max Web CSI: 0.195  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 933 - / - / - / 533 / 36 / 121 G 933 - / - / - / 533 / 36 / - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 G Brg Width = 3.5 Min Req = 1.5 Bearings B & G are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 177 - 1262 E - F 180 - 941 C - D 180 - 941 F - G 177 - 1262 D - E 175 - 750

#### Lumber

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

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

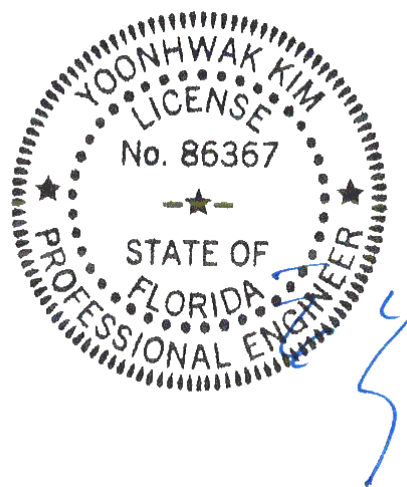
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 5'-7.5'.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

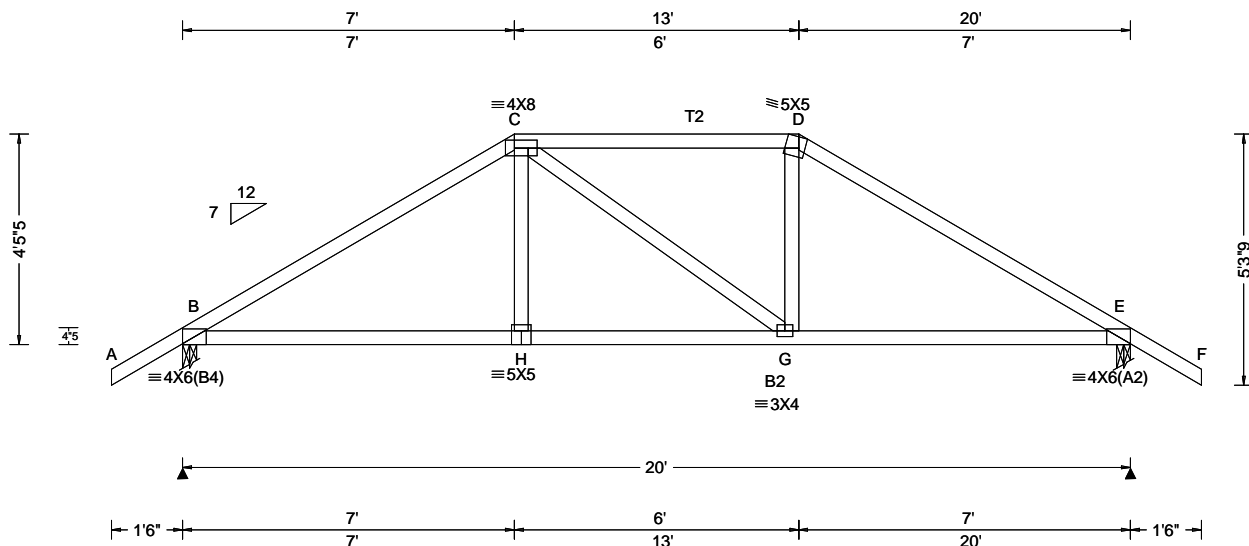
**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!**  
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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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 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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.078 H 999 240 VERT(CL): 0.156 H 999 180 HORZ(LL): 0.033 G - - HORZ(TL): 0.066 G - - Creep Factor: 2.0 Max TC CSI: 0.625 Max BC CSI: 0.872 Max Web CSI: 0.260  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1867 -/- /- /- /85 -/ E 1867 -/- /- /- /85 -/ Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 2.2 E Brg Width = 3.5 Min Req = 1.5 Bearings B & E are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 121 -2976 D - E 122 -2972 C - D 80 -2524

#### Lumber

Top chord: 2x4 SP #2; T2 2x4 SP M-31;  
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;  
Webs: 2x4 SP #3;

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From 63 plf at -1.50 to 63 plf at 7.00	
TC: From 32 plf at 7.00 to 32 plf at 13.00	
TC: From 63 plf at 13.00 to 63 plf at 21.50	
BC: From 5 plf at -1.50 to 5 plf at 0.00	
BC: From 20 plf at 0.00 to 20 plf at 7.03	
BC: From 10 plf at 7.03 to 10 plf at 12.97	
BC: From 20 plf at 12.97 to 20 plf at 20.00	
BC: From 5 plf at 20.00 to 5 plf at 21.50	
TC: 269 lb Conc. Load at 7.03,12.97	
TC: 190 lb Conc. Load at 9.06,10.94	
BC: 470 lb Conc. Load at 7.03,12.97	
BC: 130 lb Conc. Load at 9.06,10.94	

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

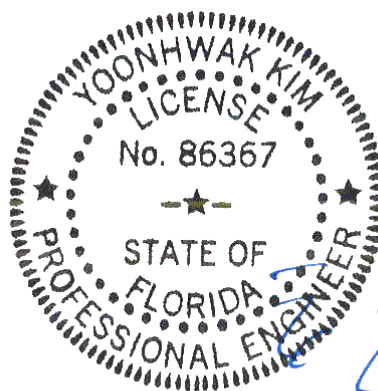
#### Wind

Wind loads and reactions based on MWFRS.

#### Additional Notes

Refer to General Notes for additional information

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



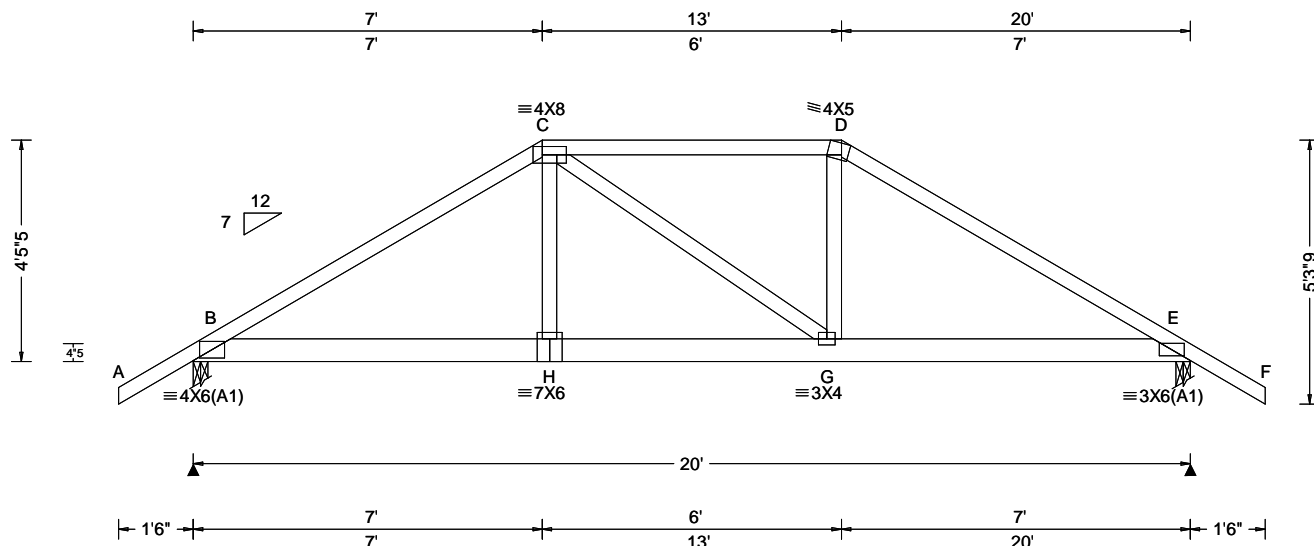
FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314407 / FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: B03A	Cust: R 215 JRef: 1WV12150006 T7 / DrwNo: 127.20.1156.17389 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.068 H 999 240 VERT(CL): 0.138 H 999 180 HORZ(LL): 0.017 G - - HORZ(TL): 0.035 G - - Creep Factor: 2.0 Max TC CSI: 0.714 Max BC CSI: 0.270 Max Web CSI: 0.825  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1983 -/- /- /50 -/ E 1538 -/- /- /54 -/ Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.6 E Brg Width = 3.5 Min Req = 1.5 Bearings B & E are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 50 -3244 D - E 58 -2384 C - D 25 -2026

#### Lumber

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

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From 63 plf at -1.50 to 63 plf at 21.50	BC: From 5 plf at -1.50 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 20.00	BC: From 5 plf at 20.00 to 5 plf at 21.50
TC: 269 lb Conc. Load at 7.03	TC: 88 lb Conc. Load at 7.60
BC: 470 lb Conc. Load at 7.03	BC: 827 lb Conc. Load at 7.60

#### Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### Wind

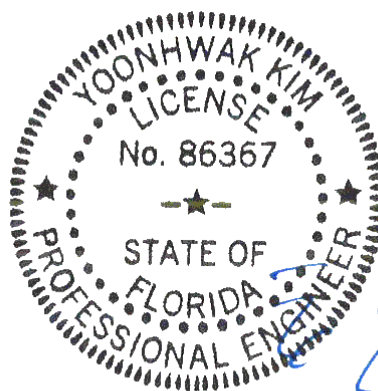
Wind loads and reactions based on MWFRS.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4'-5-5/8".

THIS TRUSS MUST BE INSTALLED AS SHOWN AND NOT END FOR END.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

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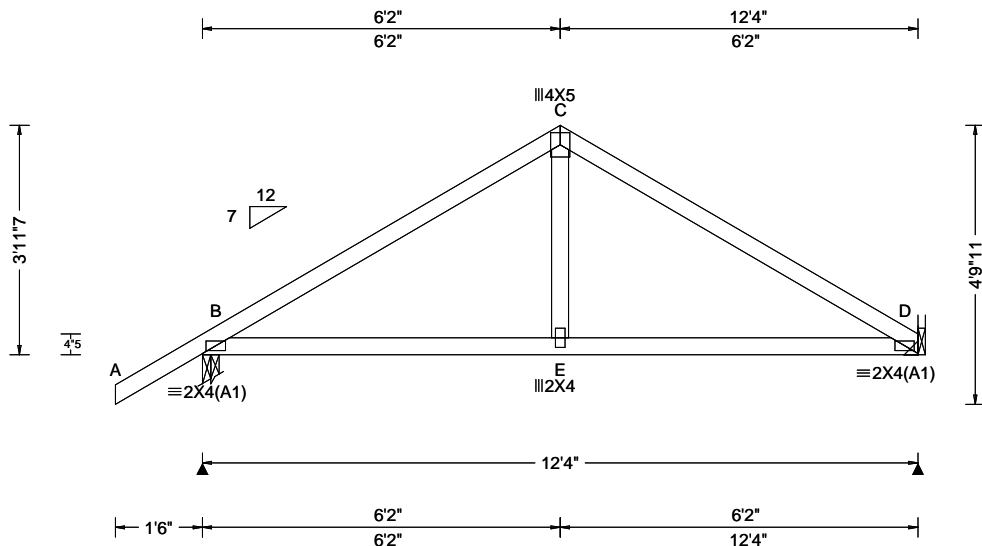
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314408 / FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 20-4127 Williams Floor Plan Truss Label: B04	Cust: R 215 JRef: 1WV12150006 T10 / DrwNo: 127.20.1156.17511 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.008 E 999 240 VERT(CL): 0.016 E 999 180 HORZ(LL): 0.004 E - - HORZ(TL): 0.008 E - - Creep Factor: 2.0 Max TC CSI: 0.386 Max BC CSI: 0.401 Max Web CSI: 0.105  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 623 -/- /- /359 -/- /81 D 504 -/- /- /284 -/- /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 116 -642 C - D 121 -368

#### Lumber

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

#### Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=12'1" uses the following support conditions: 12'1"

Bearing D (12'1", 9'1"2) LUS26

Supporting Member: (1)2x6 SP 2400f-2.0E

(4) 0.148"x3" nails into supporting member,

(3) 0.148"x3" nails into supported member.

#### Wind

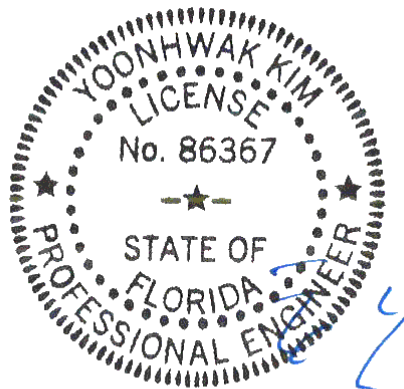
Wind loads based on MWFRS with additional C&C member design.

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 3-11-7.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - E	481 -36	E - D	481 -36



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

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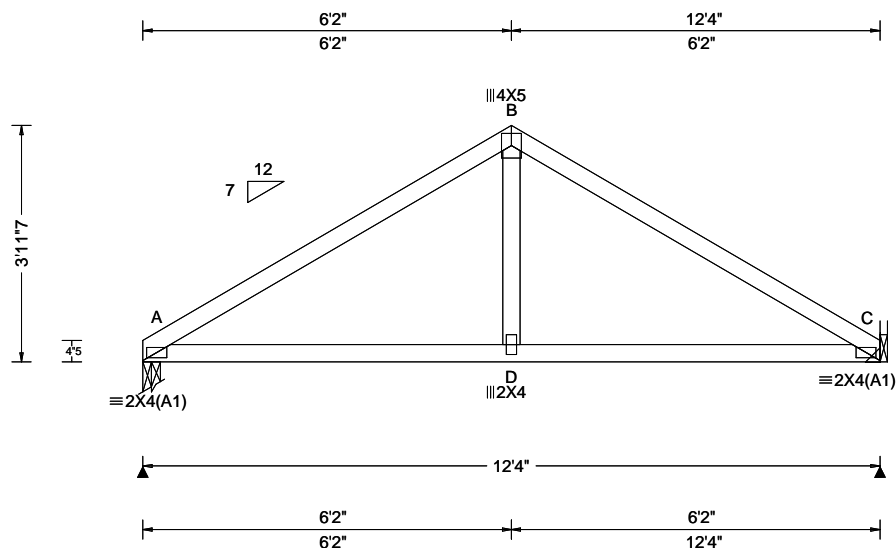
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SEQN: 314409 / FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: B05	Cust: R 215 JRef: 1WV12150006 T16 / DrwNo: 127.20.1156.17651 KD / DF 05/06/2020
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Loading Criteria (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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.007 D 999 240 VERT(CL): 0.015 D 999 180 HORZ(LL): 0.005 D - - HORZ(TL): 0.010 D - - Creep Factor: 2.0 Max TC CSI: 0.394 Max BC CSI: 0.408 Max Web CSI: 0.107  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 514 -/- /- /286 -/- /62 C 512 -/- /- /285 -/- /- Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 C Brg Width = - Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 127 -658 B - C 127 -658

#### Lumber

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

#### Hangers / Ties

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Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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Bearing at location x=12'1" uses the following support conditions: 12'1"

Bearing C (12'1", 9'1"2) LUS26

Supporting Member: (1)2x6 SP 2400f-2.0E

(4) 0.148"x3" nails into supporting member,

(3) 0.148"x3" nails into supported member.

#### Wind

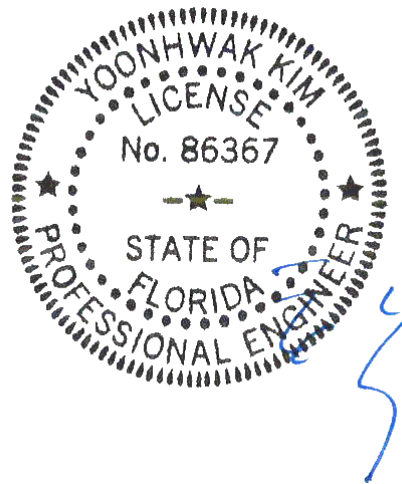
Wind loads based on MWFRS with additional C&C member design.

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 3-11-7.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - D	499 -41	D - C	499 -41



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

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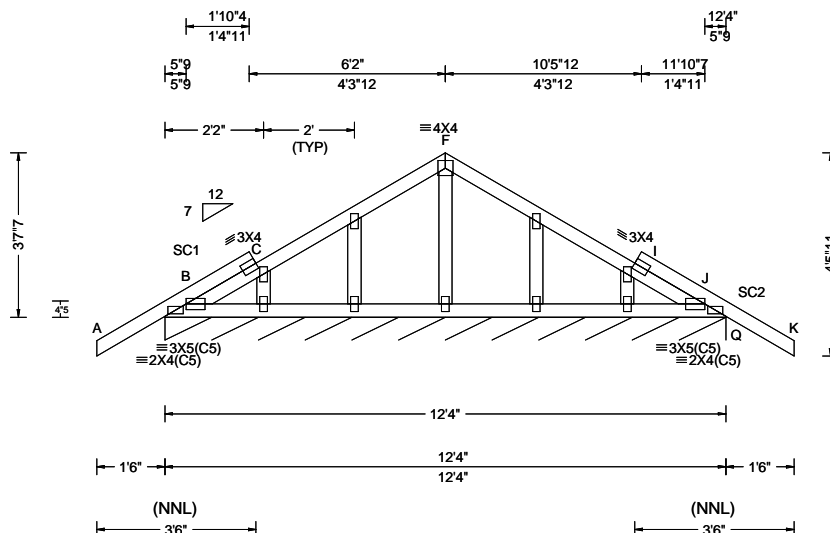
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6750 Forum Drive  
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Orlando FL, 32821



SEQN: 314410 / FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: C01	Cust: R 215 JRef: 1WV12150006 T5 / DrwNo: 127.20.1156.17510 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.000 F 999 240 VERT(CL): 0.001 F 999 180 HORZ(LL): -0.000 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.026 Max Web CSI: 0.029  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Q* 100 /- /- /50 /3 /7 Wind reactions based on MWFRS Q Brg Width = 148 Min Req = - Bearing B is 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.

#### Wind

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

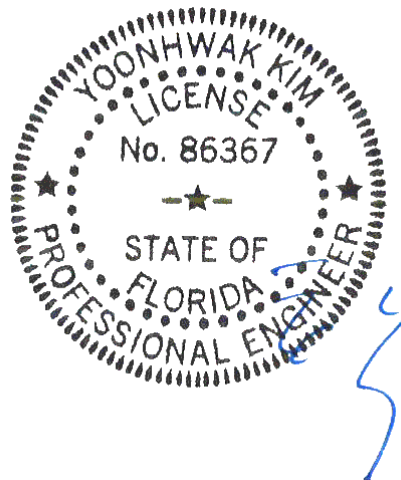
#### Additional Notes

Refer to General Notes for additional information

See DWGS A14015ENC101014 & GBLETIN0118 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 excluding overhang is 3'-7".



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

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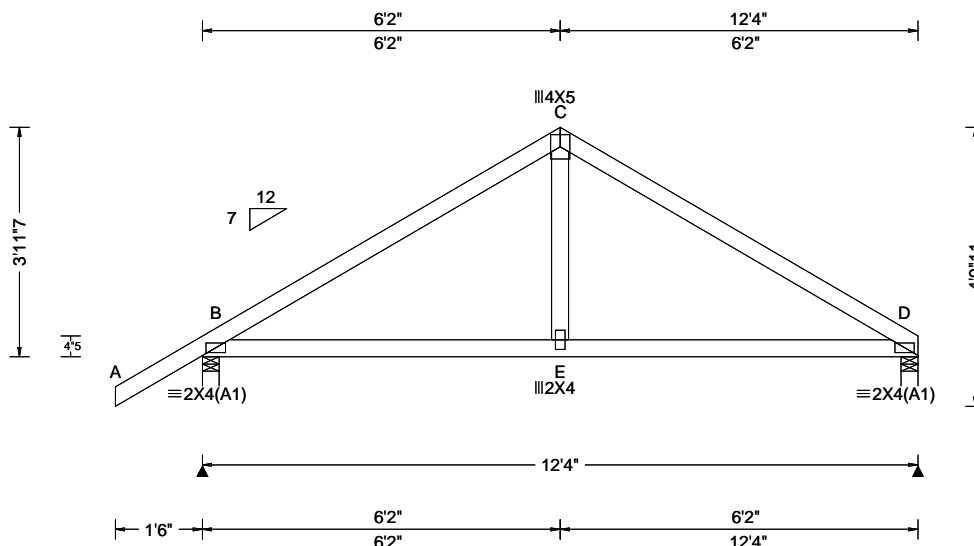
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For more information see this job's general notes page and these web sites: ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinet.org](http://www.tpinet.org); SBCA: [www.sbcindustry.com](http://www.sbcindustry.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)

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



SEQN: 314411 / FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: C02	Cust: R 215 JRef: 1WV12150006 T4 / DrwNo: 127.20.1156.17385 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.007 E 999 240 VERT(CL): 0.014 E 999 180 HORZ(LL): 0.004 E - - HORZ(TL): 0.008 E - - Creep Factor: 2.0 Max TC CSI: 0.382 Max BC CSI: 0.397 Max Web CSI: 0.105  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 622 - / - / /358 /26 /81 D 505 - / - / /284 /11 - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 3.5 Min Req = 1.5 Bearings B & D are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 140 -640 C - D 139 -636

#### Lumber

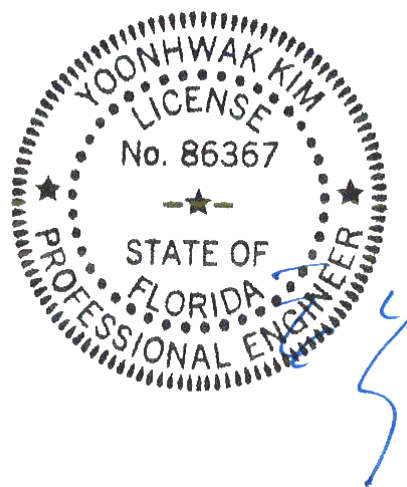
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 3-11-7.



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05/06/2020

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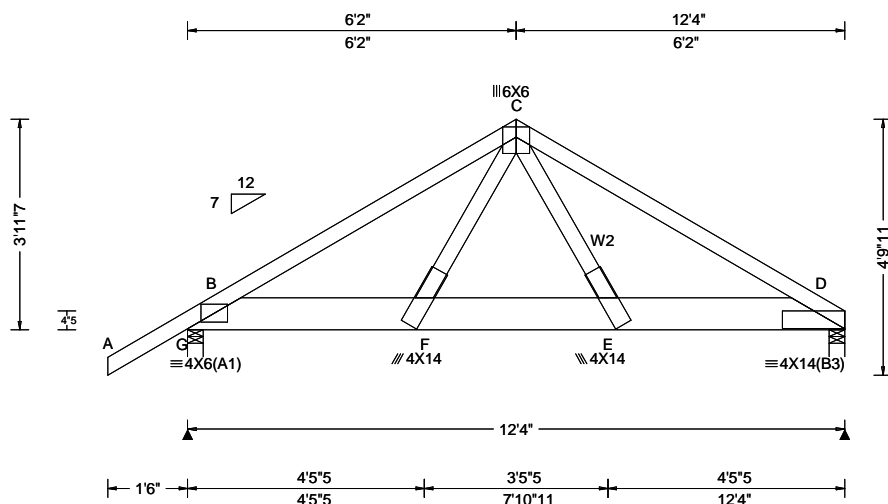
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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



SEQN: 315582 FROM: CDM	COMN Ply: 2 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: C03	Cust: R 215 JRef: 1WV12150006 T18 DrwNo: 127.20.1202.34390 KD / YK 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.064 E 999 240 VERT(CL): 0.128 E 999 180 HORZ(LL): 0.011 E - - HORZ(TL): 0.022 E - - Creep Factor: 2.0 Max TC CSI: 0.725 Max BC CSI: 0.488 Max Web CSI: 0.738  VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 3135 -/- /- /- /212 -/ D 6920 -/- /- /- /380 -/ Wind reactions based on MWFRS G Brg Width = 3.5 Min Req = 1.5 D Brg Width = 3.5 Min Req = 2.9 Bearings G & D are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 191 -2868 C - D 278 -4286

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x8 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W2 2x4 SP #2;

#### Nailnote

Nail Schedule: 0.131"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 2 Rows @ 4.50" 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

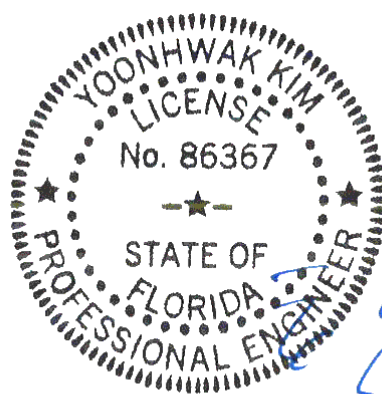
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 63 plf at -1.50 to 63 plf at 12.33  
BC: From 5 plf at -1.50 to 5 plf at 0.00  
BC: From 20 plf at 0.00 to 20 plf at 7.12  
BC: From 10 plf at 7.12 to 10 plf at 12.33  
BC: 4035 lb Conc. Load at 7.12  
BC: 1648 lb Conc. Load at 8.56, 9.98, 11.98

#### Wind

Wind loads and reactions based on MWFRS.

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 3-11-7.



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#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - F	2445 -158	E - D	3676 -234
F - E	2226 -148		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
F - C	494 -23	C - E	3271 -194

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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



Structural drawing of a roof truss system. The drawing includes the following details:

- Dimensions:**
  - Overall width: 1'10"4 (1'4"11)
  - Overall height: 2'10"1
  - Roof slope: 12/7
  - Truss spacing: 2'11"12
  - Truss height: 2' (TYP)
  - Truss depth: 2'10"
  - Truss width: 3'8"
  - Truss height: 9'1"
  - Truss width: 1'6"
  - Truss height: 9'8"
  - Truss width: 1'6"
  - Truss height: 3'6"
  - Truss width: 3'6"
- Members:**
  - Top chord: 4X4 E
  - Bottom chord: 2X4 (C5)
  - Web members: 3X4
  - Diagonal members: 3X5 (C5)
  - End gables: 3X4
  - End gables: 3X5 (C5)
  - End gables: 2X4 (C5)
- Connections:**
  - SC1
  - SC2
  - SC3
  - SC4
  - SC5
  - SC6
  - SC7
  - SC8
  - SC9
  - SC10
  - SC11
  - SC12
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  - SC100

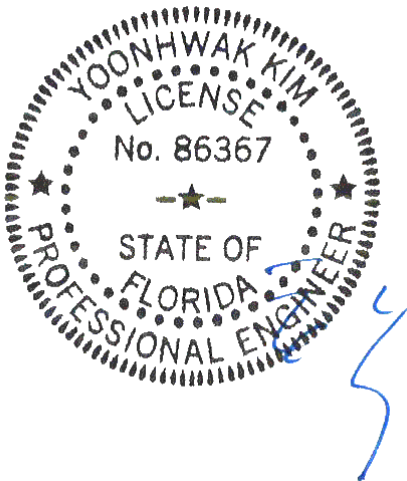
**Lumber**  
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;  
Stack Chord: SC1 2x4 SP #2;  
Stack Chord: SC2 2x4 SP #2;

**Plating Notes**  
All plates are 2X4 except as noted.

**Loading**  
Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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

**Additional Notes**  
Refer to General Notes for additional information  
See DWGS A14015ENC101014 & GBULLETIN0118 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 2-10-1.




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05/06/2020

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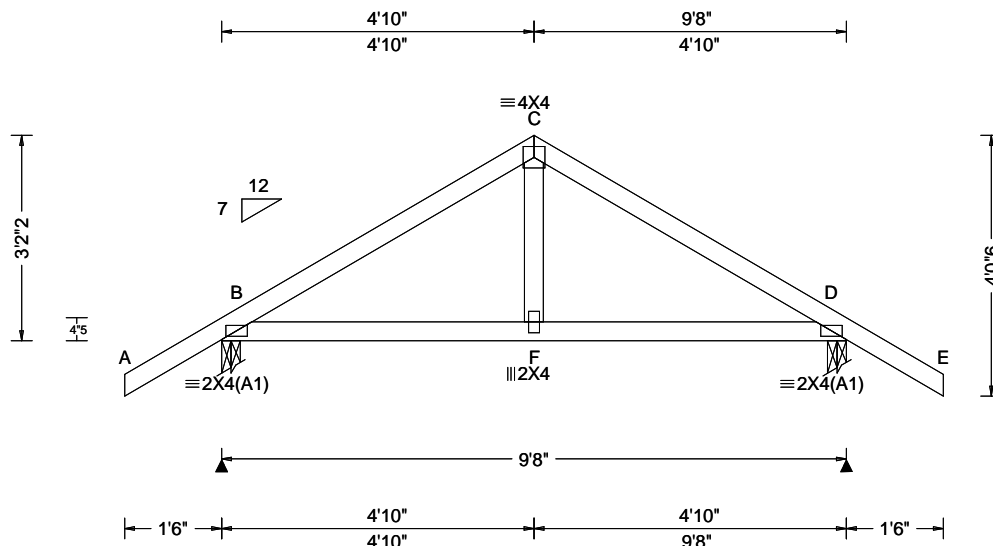
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Suite 305  
Orlando FL, 32821



SEQN: 314414 / FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 20-4127 Williams Floor Plan Truss Label: D02	Cust: R 215 JRef: 1WV12150006 T1 / DrwNo: 127.20.1156.17604 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.005 F 999 240 VERT(CL): 0.010 F 999 180 HORZ(LL): 0.002 F - - HORZ(TL): 0.005 F - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.223 Max Web CSI: 0.078  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 504 -/- /- /297 /22 /79 D 504 -/- /- /297 /22 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 3.5 Min Req = 1.5 Bearings B & D are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 93 -455 C - D 94 -455

#### Lumber

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

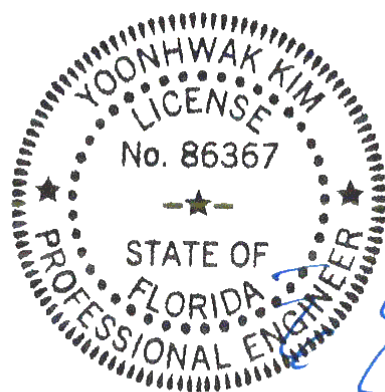
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

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



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05/06/2020

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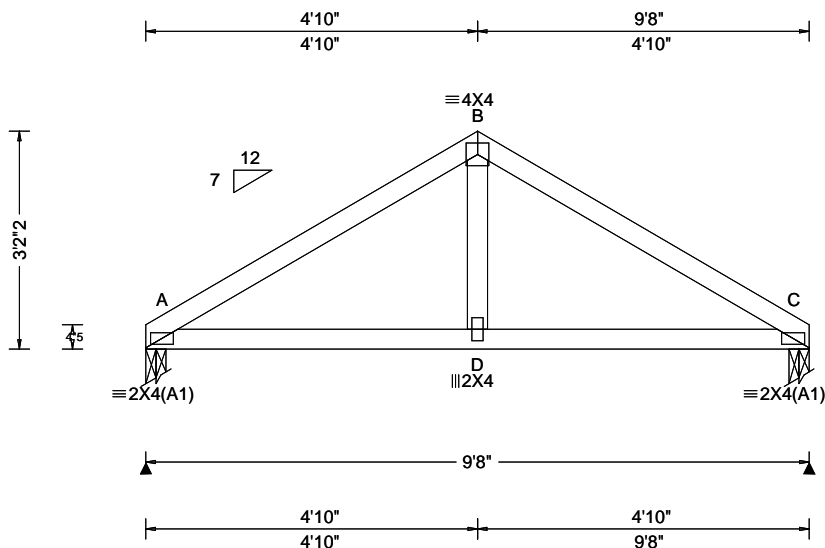
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314415 / FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: D03	Cust: R 215 JRef: 1WV12150006 T3 / DrwNo: 127.20.1156.18026 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.004 D 999 240 VERT(CL): 0.009 D 999 180 HORZ(LL): 0.002 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.218 Max BC CSI: 0.242 Max Web CSI: 0.081  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 402 -/- /- /223 /9 /48 C 402 -/- /- /223 /9 /- Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 C Brg Width = 3.5 Min Req = 1.5 Bearings A & C are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 110 -500 B - C 110 -500

#### Lumber

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

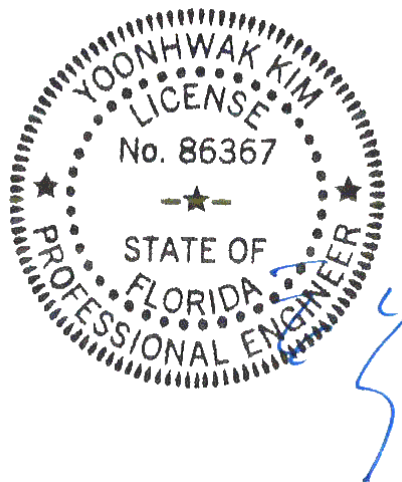
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

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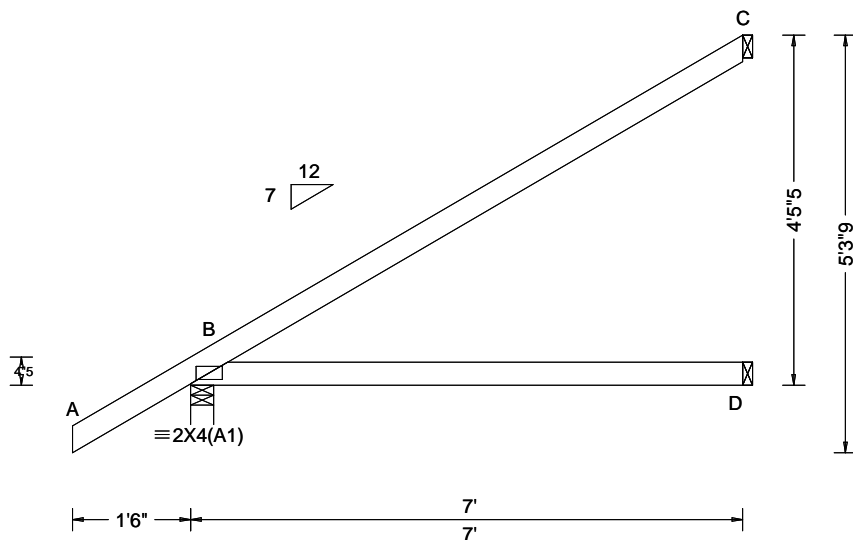
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, 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: 314416 / FROM: CDM	EJAC Ply: 1 Qty: 26	Job Number: 20-4127 Williams Floor Plan Truss Label: J01	Cust: R 215 JRef: 1WV12150006 T14 / DrwNo: 127.20.1156.18118 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): NA VERT(CL): NA HORZ(LL): 0.014 D - - HORZ(TL): 0.027 D - - Creep Factor: 2.0 Max TC CSI: 0.730 Max BC CSI: 0.520 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 412 - / - /257 - /96 D 130 - / - /83 - /- C 190 - / - /91 /41 - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

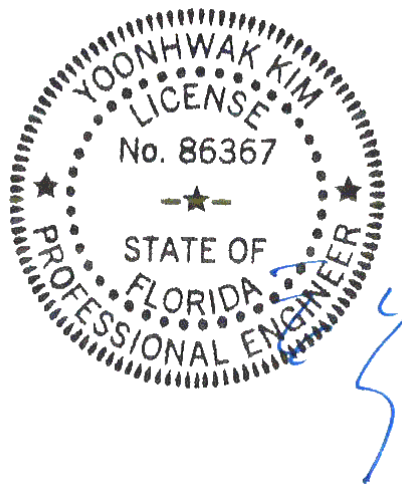
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 4-5-5.



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05/06/2020

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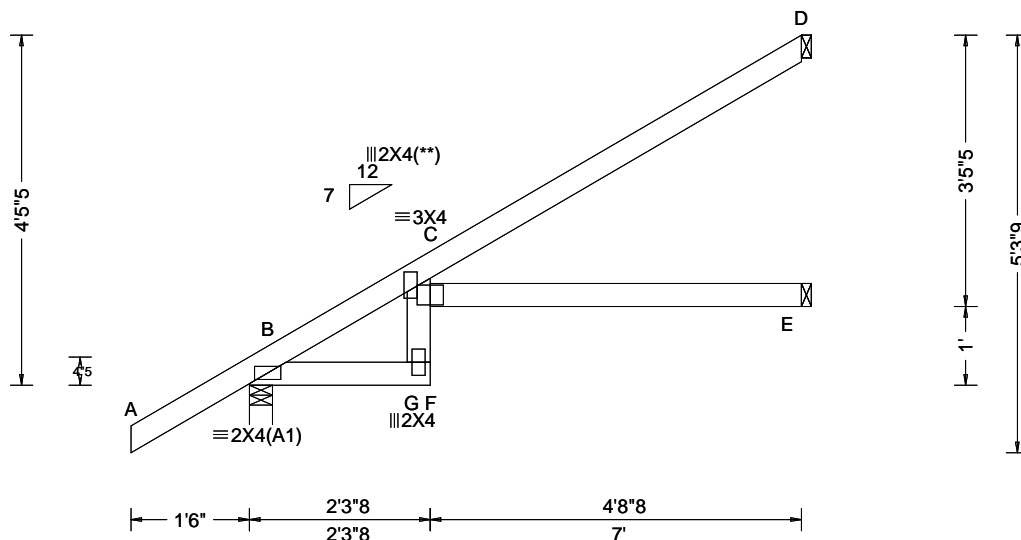
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314417 / FROM: CDM	EJAC Ply: 1 Qty: 6	Job Number: 20-4127 Williams Floor Plan Truss Label: J01A	Cust: R 215 JRef: 1WV12150006 T36 / DrwNo: 127.20.1156.18009 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.171 F 480 240 VERT(CL): 0.344 F 238 180 HORZ(LL): 0.107 C - - HORZ(TL): 0.215 C - - Creep Factor: 2.0 Max TC CSI: 0.923 Max BC CSI: 0.346 Max Web CSI: 0.389  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 412 /- /- /257 /- /96 E 106 /- /- /68 /- /- D 205 /- /- /106 /39 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is 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;

#### Plating Notes

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

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 4'-5".



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05/06/2020

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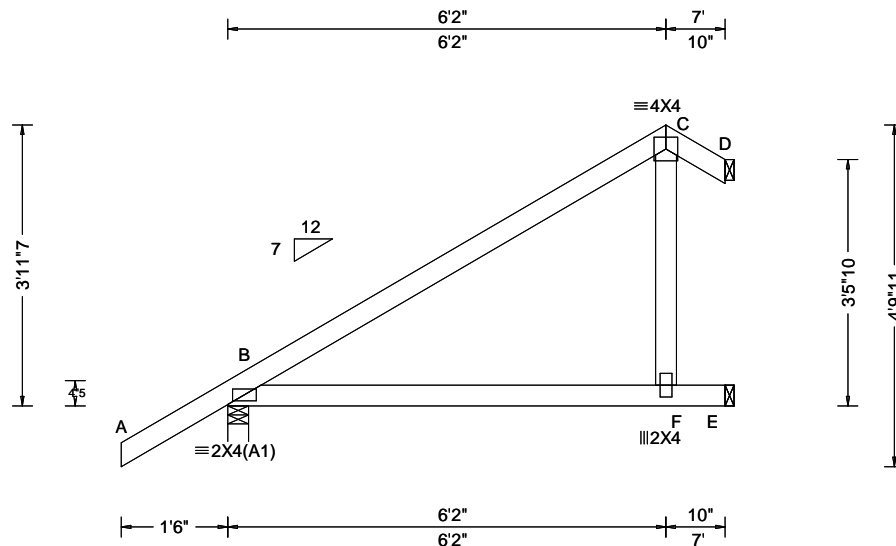
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Suite 305  
Orlando FL, 32821



SEQN: 314418 / FROM: CDM	EJAC Ply: 1 Qty: 3	Job Number: 20-4127 Williams Floor Plan Truss Label: J01B	Cust: R 215 JRef: 1WV12150006 T37 / DrwNo: 127.20.1156.17978 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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 C 999 240 VERT(CL): 0.080 C 999 180 HORZ(LL): 0.050 D - - HORZ(TL): 0.100 D - - Creep Factor: 2.0 Max TC CSI: 0.598 Max BC CSI: 0.469 Max Web CSI: 0.213  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 412 - / - /256 /5 /80 E 248 - / - /124 /41 - D 87 - / - /66 /1 - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

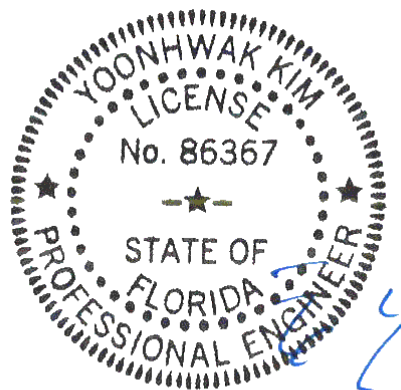
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 3-11-7.



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05/06/2020

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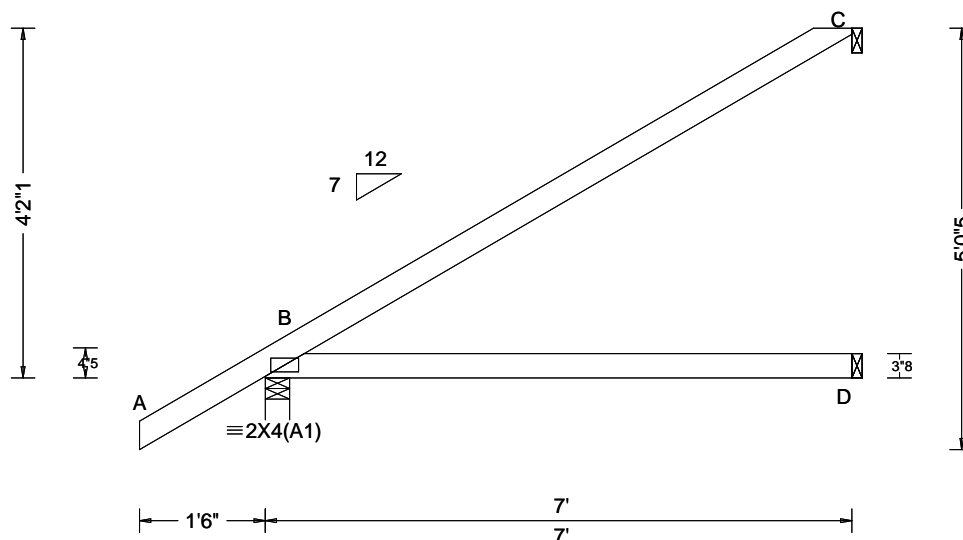
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SEQN: 314419 / FROM: CDM	EJAC Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: J01C	Cust: R 215 JRef: 1WV12150006 T6 / DrwNo: 127.20.1156.17542 KD / DF 05/06/2020
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Loading Criteria (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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): NA VERT(CL): NA HORZ(LL): 0.013 D - - HORZ(TL): 0.026 D - - Creep Factor: 2.0 Max TC CSI: 0.694 Max BC CSI: 0.514 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 408 - / - /255 - /61 D 133 - / - /82 - /- C 186 - / - /82 /14 - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

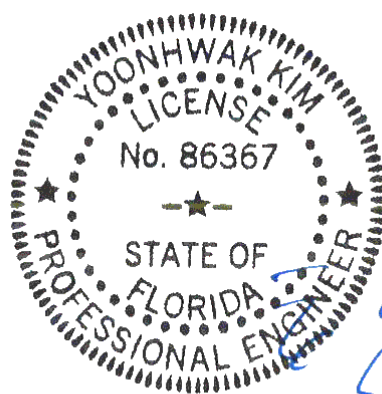
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

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



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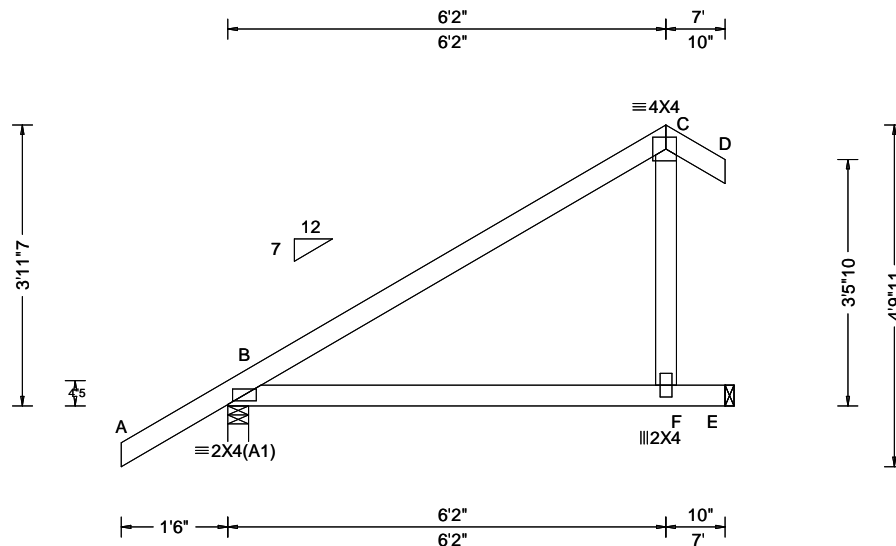
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314420 / FROM: CDM	EJAC Ply: 1 Qty: 2	Job Number: 20-4127 Williams Floor Plan Truss Label: J01D	Cust: R 215 JRef: 1WV12150006 T17 / DrwNo: 127.20.1156.17728 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.042 C 999 240 VERT(CL): 0.080 C 999 180 HORZ(LL): 0.049 D - - HORZ(TL): 0.098 D - - Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.518 Max Web CSI: 0.223  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 412 - / - / 256 - / 59 E 272 - / - / 165 - / - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

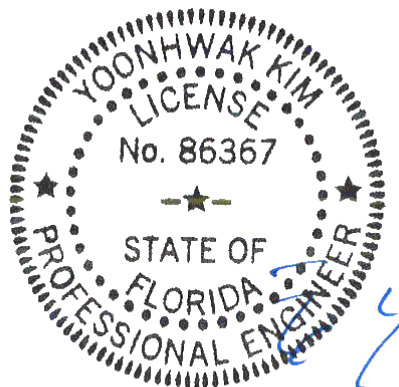
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 3-11-7.



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05/06/2020

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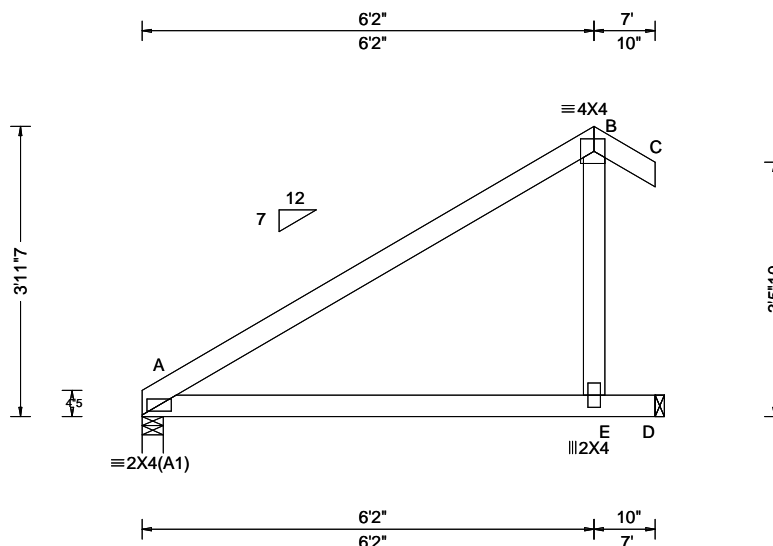
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314421 / FROM: CDM	EJAC Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: J01E	Cust: R 215 JRef: 1WV12150006 T28 / DrwNo: 127.20.1156.18165 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.044 B 999 240 VERT(CL): 0.083 B 985 180 HORZ(LL): 0.053 C - - HORZ(TL): 0.110 C - - Creep Factor: 2.0 Max TC CSI: 0.641 Max BC CSI: 0.537 Max Web CSI: 0.246  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 297 /- /- /178 /- /48 D 285 /- /- /174 /- /- Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

#### Lumber

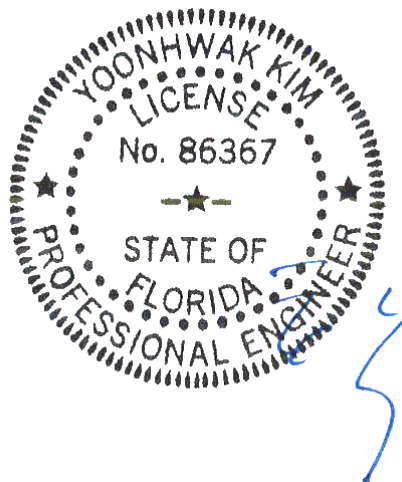
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 3-11-7.



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05/06/2020

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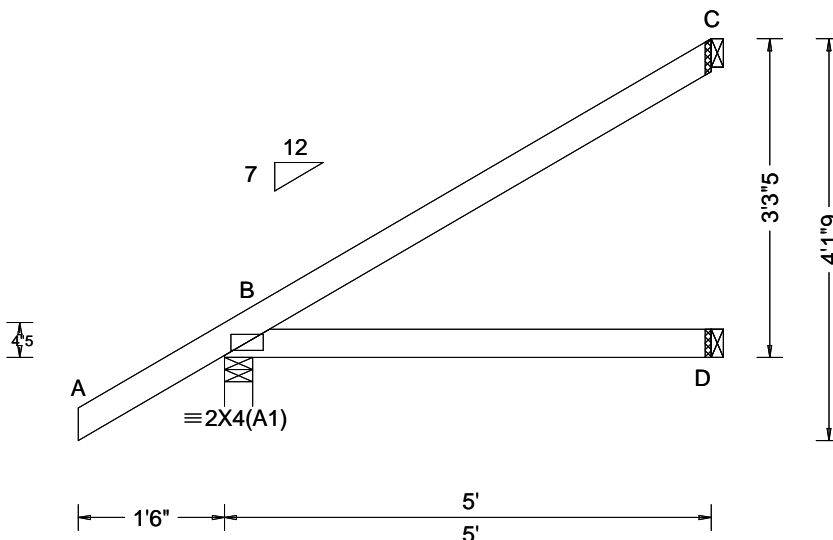
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AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314422 / FROM: CDM	JACK Ply: 1 Qty: 10	Job Number: 20-4127 Williams Floor Plan Truss Label: J02	Cust: R 215 JRef: 1WV12150006 T11 / DrwNo: 127.20.1156.17262 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): NA VERT(CL): NA HORZ(LL): 0.004 D - - HORZ(TL): 0.008 D - - Creep Factor: 2.0 Max TC CSI: 0.319 Max BC CSI: 0.251 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 335 /- /- /211 /2 /73 D 90 /- /- /59 /- /- C 129 /- /- /61 /28 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

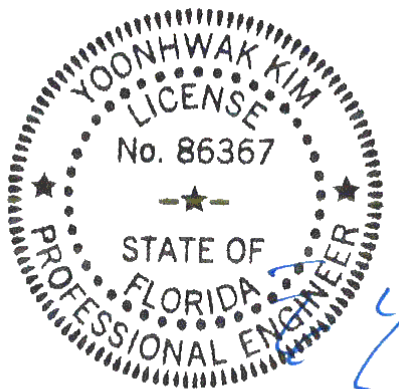
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

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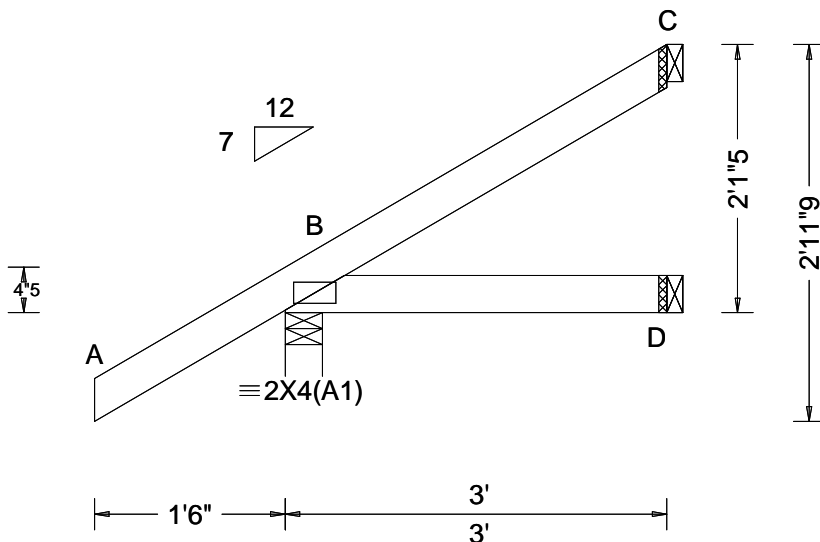
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AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314423 / FROM: CDM	JACK Ply: 1 Qty: 10	Job Number: 20-4127 Williams Floor Plan Truss Label: J03	Cust: R 215 JRef: 1WV12150006 T12 / DrwNo: 127.20.1156.17636 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): NA VERT(CL): NA HORZ(LL): 0.000 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.073 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 265 /- /- /170 /9 /50 D 50 /- /- /35 /- /- C 63 /- /- /26 /15 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

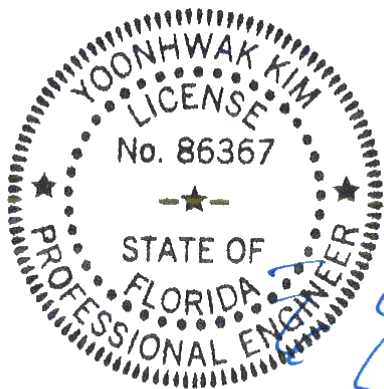
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

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



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05/06/2020

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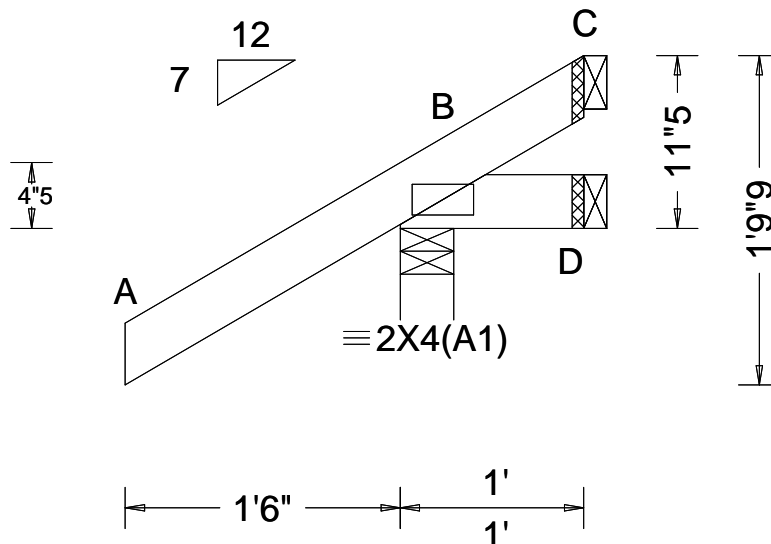
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314424 / FROM: CDM	JACK Ply: 1 Qty: 10	Job Number: 20-4127 Williams Floor Plan Truss Label: J04	Cust: R 215 JRef: 1WV12150006 T13 / DrwNo: 127.20.1156.17714 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): NA VERT(CL): NA HORZ(LL): -0.000 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.023 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 257 /- /- /174 /29 /28 D 5 /-17 /- /11 /13 /- C - /-55 /- /19 /46 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

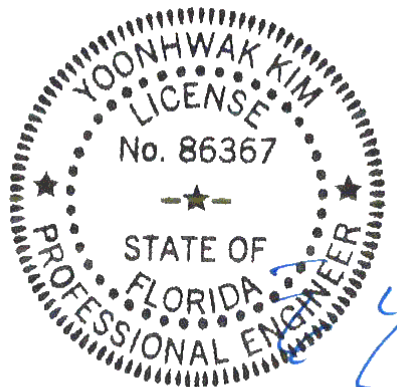
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 0-11-5.



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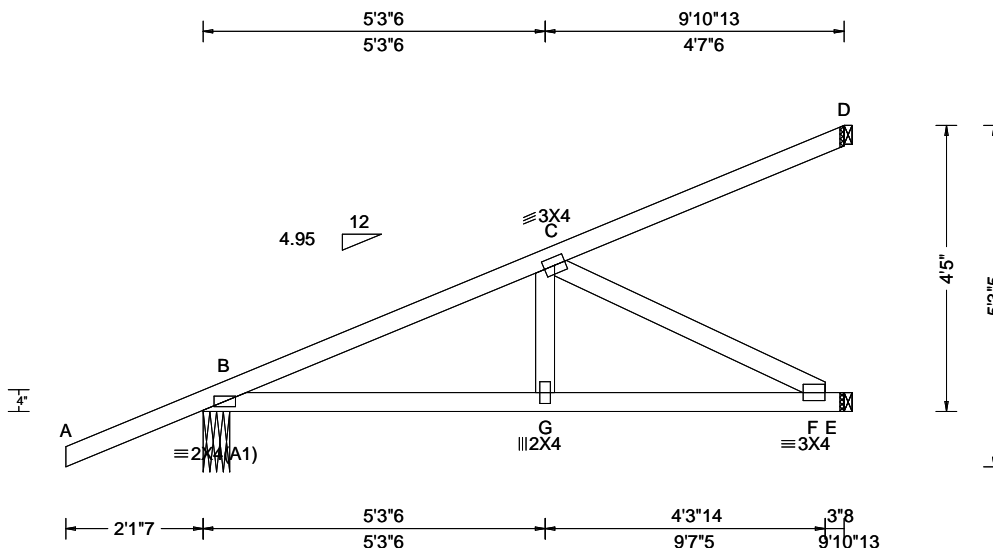
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SEQN: 314425 / FROM: CDM	HIP_	Ply: 1 Qty: 5	Job Number: 20-4127 Williams Floor Plan Truss Label: J05HJ	Cust: R 215 JRef: 1WV12150006 T20 / DrwNo: 127.20.1156.17948 KD / DF 05/06/2020
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Loading Criteria (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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.020 G 999 240 VERT(CL): 0.039 G 999 180 HORZ(LL): 0.005 F - - HORZ(TL): 0.009 F - - Creep Factor: 2.0 Max TC CSI: 0.582 Max BC CSI: 0.644 Max Web CSI: 0.313  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 372 -/- /- /98 -/ E 340 -/- /- /10 -/- D 79 -/- /- /19 -/- Wind reactions based on MWFRS B Brg Width = 4.9 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp.

#### Lumber

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

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	0 plf at	-2.12 to	62 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	9.90
BC: From	0 plf at	-2.12 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	9.90
TC:	-44 lb Conc. Load at	1.48		
TC:	126 lb Conc. Load at	4.31		
TC:	259 lb Conc. Load at	7.13		
BC:	9 lb Conc. Load at	1.48		
BC:	99 lb Conc. Load at	4.31		
BC:	180 lb Conc. Load at	7.13		

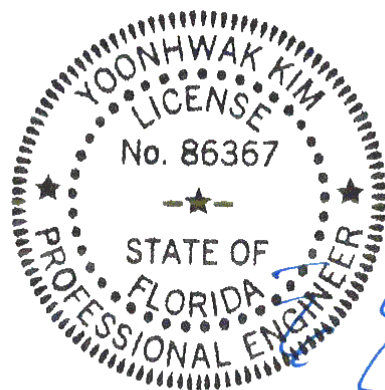
#### Wind

Wind loads and reactions based on MWFRS.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4'-5.0.



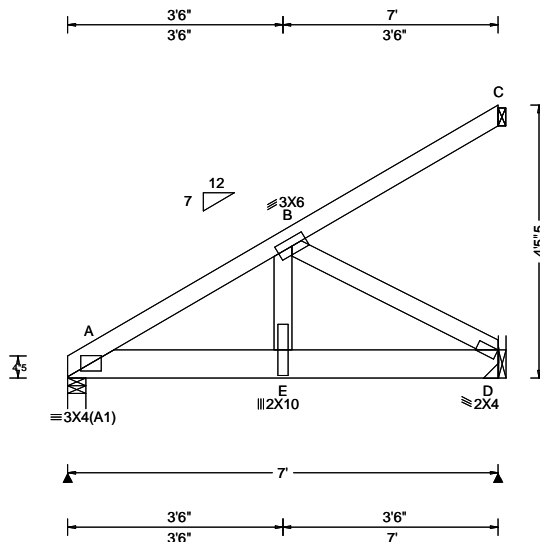
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05/06/2020

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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314426 / FROM: CDM	EJAC Ply: 1 Qty: 1	Job Number: 20-4127 Williams Floor Plan Truss Label: J06	Cust: R 215 JRef: 1WV12150006 T39 / DrwNo: 127.20.1156.17715 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.012 E 999 240 VERT(CL): 0.023 E 999 180 HORZ(LL): -0.004 C - - HORZ(TL): 0.009 C - - Creep Factor: 2.0 Max TC CSI: 0.225 Max BC CSI: 0.224 Max Web CSI: 0.374  VIEW Ver: 18.02.01B.0321.08	<b>Gravity</b> Loc R+ / R- / Rh / Rw / U / RL A 1118 -/- /- /39 -/- D 827 -/- /- /40 -/- C 88 -/- /- /18 -/- <b>Non-Gravity</b> Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 D Brg Width = - Min Req = - C Brg Width = 1.5 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp.

#### Lumber

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

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 63 plf at 0.00 to 63 plf at 7.00  
BC: From 10 plf at 0.00 to 10 plf at 7.00  
BC: 512 lb Conc. Load at 1.06  
BC: 504 lb Conc. Load at 3.06, 5.06

#### Hangers / Ties

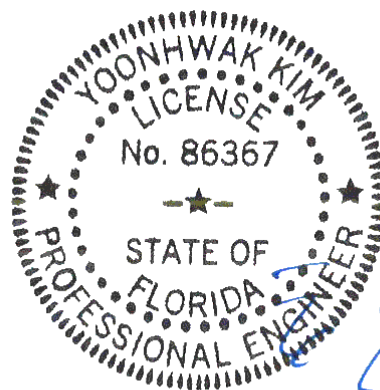
(J) Hanger Support Required, by others

#### Wind

Wind loads and reactions based on MWFRS.

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 4'-5".



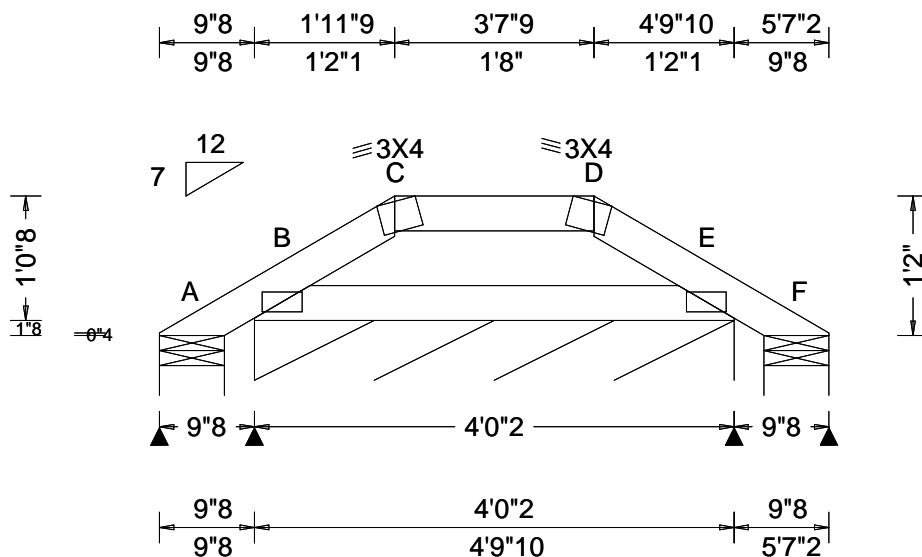
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05/06/2020

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6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 314427 / FROM: CDM	HIPS Ply: 1 Qty: 2	Job Number: 20-4127 Williams Floor Plan Truss Label: PB01	Cust: R 215 JRef: 1WV12150006 T22 / DrwNo: 127.20.1156.17653 KD / DF 05/06/2020
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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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.001 999 240 VERT(CL): 0.001 D 999 180 HORZ(LL): 0.000 - - HORZ(TL): 0.001 - - Creep Factor: 2.0 Max TC CSI: 0.034 Max BC CSI: 0.099 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 16 /- /- /13 /6 /18 B* 98 /- /- /49 /- /- F 16 /- /- /6 /0 /- Wind reactions based on MWFRS A Brg Width = 6.5 Min Req = 1.5 B Brg Width = 48.1 Min Req = - F Brg Width = 6.5 Min Req = 1.5 Bearings A, B, & F are a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Plating Notes

All plates are 2X4(A1) except as noted.

#### Purlins

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

#### Wind

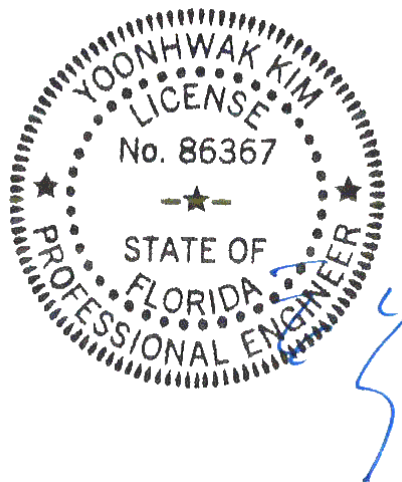
Wind loads based on MWFRS with additional C&C  
member design.

#### Additional Notes

Refer to General Notes for additional information

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is  
1-2-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

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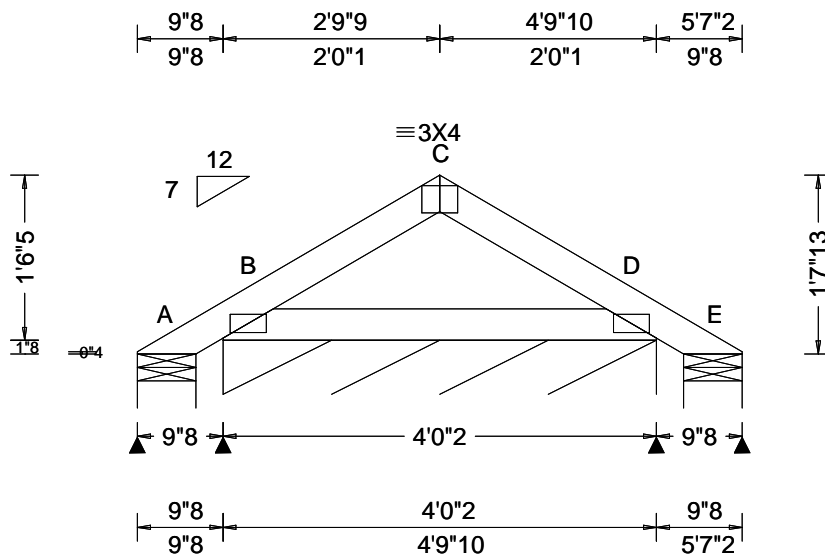
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Suite 305  
Orlando FL, 32821





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), 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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 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): 0.001 999 240 VERT(CL): 0.002 999 180 HORZ(LL): -0.001 - - HORZ(TL): 0.001 - - Creep Factor: 2.0 Max TC CSI: 0.029 Max BC CSI: 0.098 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 6 /-3 /- /13 /14 /27 B* 103 /- /- /53 /- /- E 6 /-3 /- /- /1 /- Wind reactions based on MWFRS A Brg Width = 6.5 Min Req = 1.5 B Brg Width = 48.1 Min Req = - E Brg Width = 6.5 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Plating Notes

All plates are 2X4(A1) except as noted.

#### Purlins

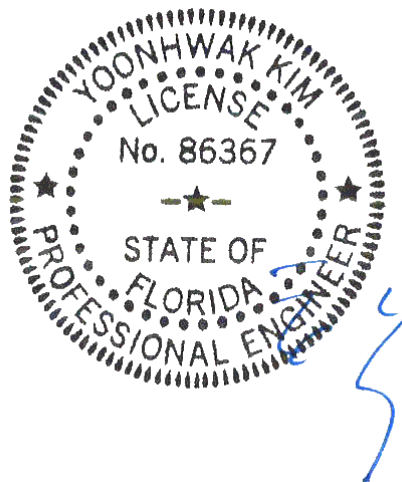
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
Refer to DWG PB160101014 for piggyback details.  
The overall height of this truss excluding overhang is 1'-7-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/06/2020

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# Gable Stud Reinforcement Detail

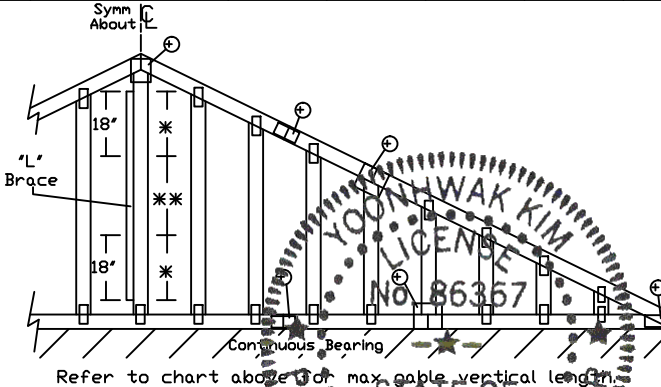
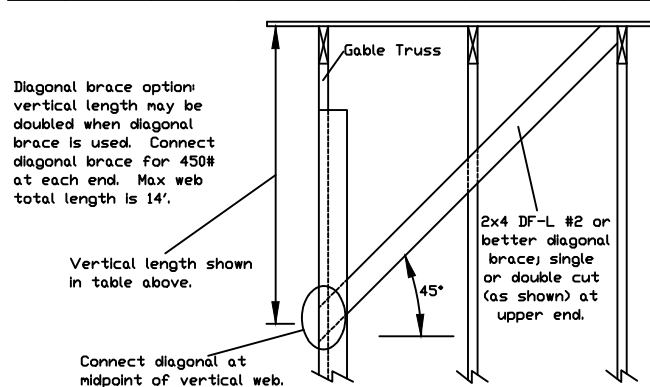
ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace *	
	Spacing	Species			Grade	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A
24" o.c.		SPF	#1 / #2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3'	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
			#3	4' 1"	6' 7"	7' 1"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
			Stud	4' 1"	6' 7"	7' 0"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
			Standard	4' 1"	5' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"
		SP	#1	4' 6"	7' 4"	7' 8"	8' 8"	9' 0"	10' 4"	10' 9"	13' 8"	14' 0"	14' 0"	14' 0"
			#2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
			#3	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
			Stud	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
		DFL	Standard	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 2"	11' 0"	11' 10"	14' 0"	14' 0"
			#1 / #2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 8"	8' 1"	8' 8"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 8"	8' 1"	8' 6"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
16" o.c.		SPF	Standard	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 1"	8' 5"	8' 9"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	Stud	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	4' 8"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	12' 1"	13' 6"	14' 0"	14' 0"	14' 0"
			#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		SPF	Stud	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 8"	9' 3"	9' 8"	10' 11"	11' 4"	13' 0"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
SP	#3	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"		
	Stud	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"		
	Standard	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"		



Bracing Group Species and Grades:			
Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine****	
#3		#3	
Stud		Stud	
Standard		Standard	
Group B:			
Hem-Fir			
#1 & Btr			
#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).  
 Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.  
 \* For (1) 'L' brace: space nails at 2' o.c. in 18" end zones and 4' o.c. between zones.  
 \*\*For (2) 'L' braces: space nails at 3' o.c. in 18" end zones and 6' o.c. between zones.  
 'L' bracing must be a minimum of 80% of web member length.

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

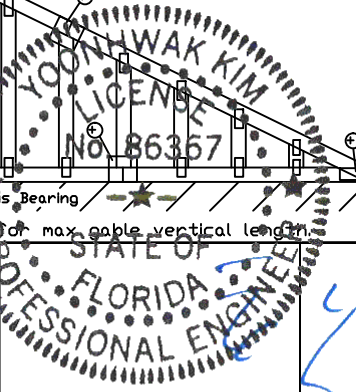
+ Refer to common truss design for peak, splice, and heel plates.

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

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 For more information see this Job's general notes page and these web sites:  
 ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcaindustry.org ICC: www.iccsafe.org



MAX. TOT. LD. 60 PSF  
 MAX. SPACING 24.0"

REF ASCE7-10-GAB14015  
 DATE 10/01/14  
 DRWG A14015ENC101014



# CLR Reinforcing Member Substitution

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

## Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

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

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

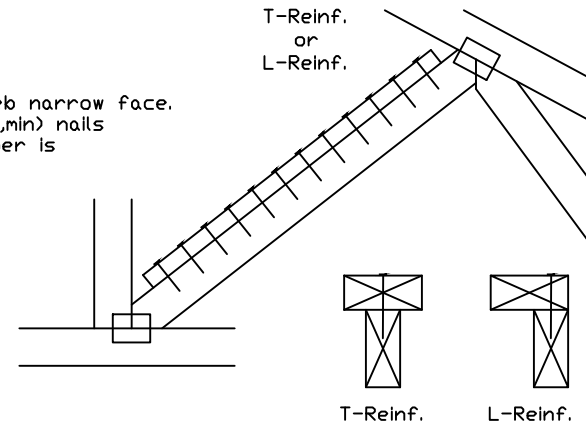
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

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

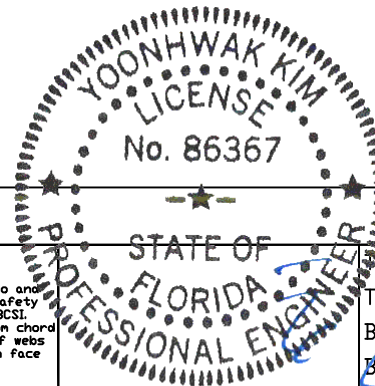
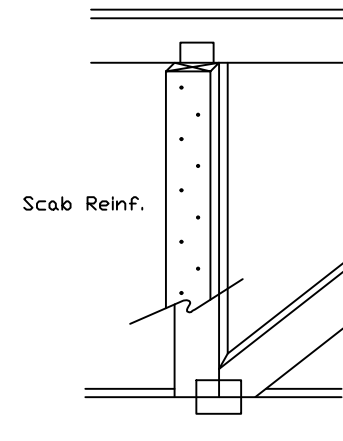
## T-Reinforcement or L-Reinforcement:

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



## Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



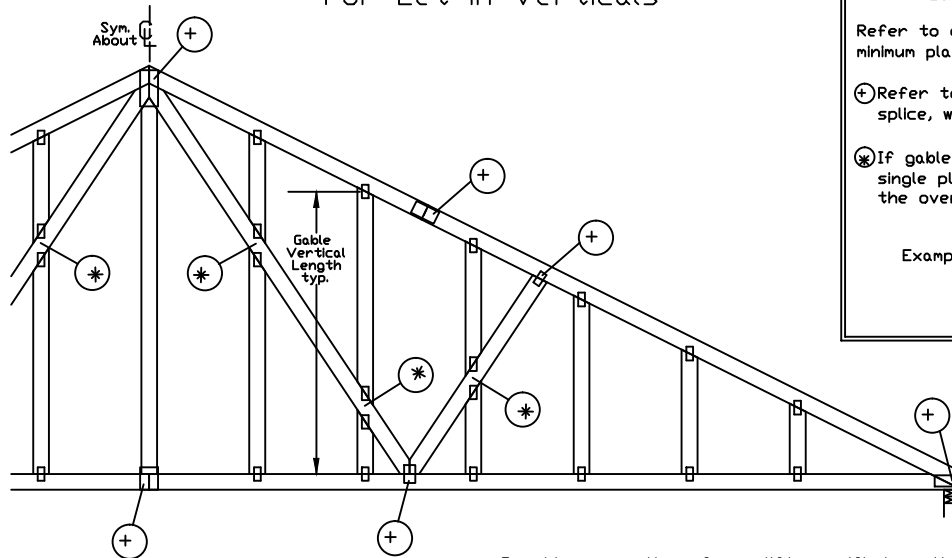
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Maryland Heights, MO 63043

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BC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TDT, LD.	PSF		
DUR. FAC.			
SPACING			



# Gable Detail For Let-in Verticals

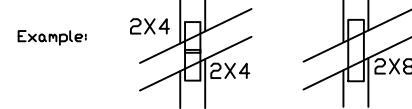


## Gable Truss Plate Sizes

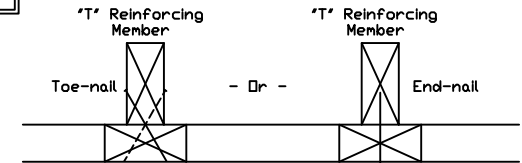
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ 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"x 3", min) Nails at 4' o.c. plus  
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3", 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.

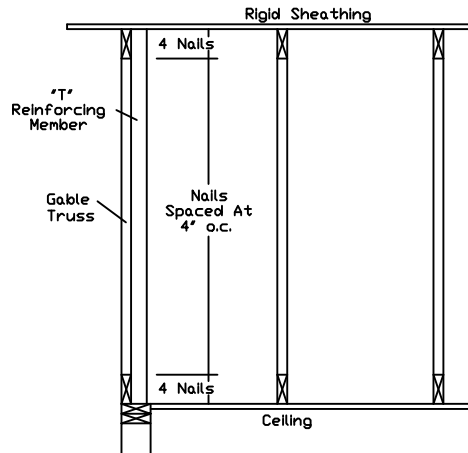
## ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,  
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

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

A11515ENC100118, A12015ENC100118, A14015ENC100118, A10015ENC100118,  
A18015ENC100118, A20015ENC100118, A20015END100118, A20015P100118,  
A11530ENC100118, A12030ENC100118, A14030ENC100118, A10030ENC100118,  
A18030ENC100118, A20030ENC100118, A20030END100118, A20030P100118,  
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,  
S18015ENC100118, S20015ENC100118, S20015END100118, S20015P100118,  
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,  
S18030ENC100118, S20030ENC100118, S20030END100118, S20030P100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



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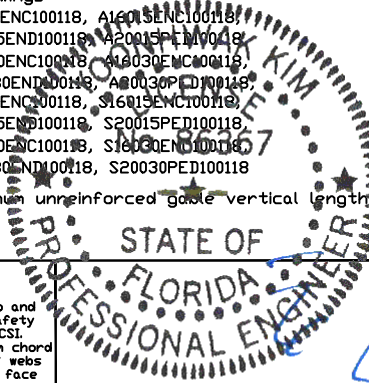
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REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

Yoonhwak Kim, FL PE #86367



# Piggyback Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

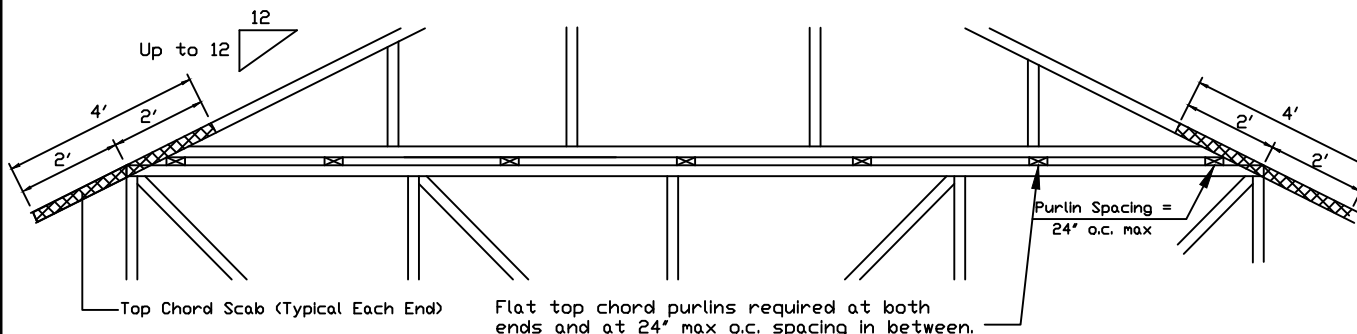
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.  
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

\*\*\* Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

## Detail A : Purlin Spacing = 24" o.c. or less



Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

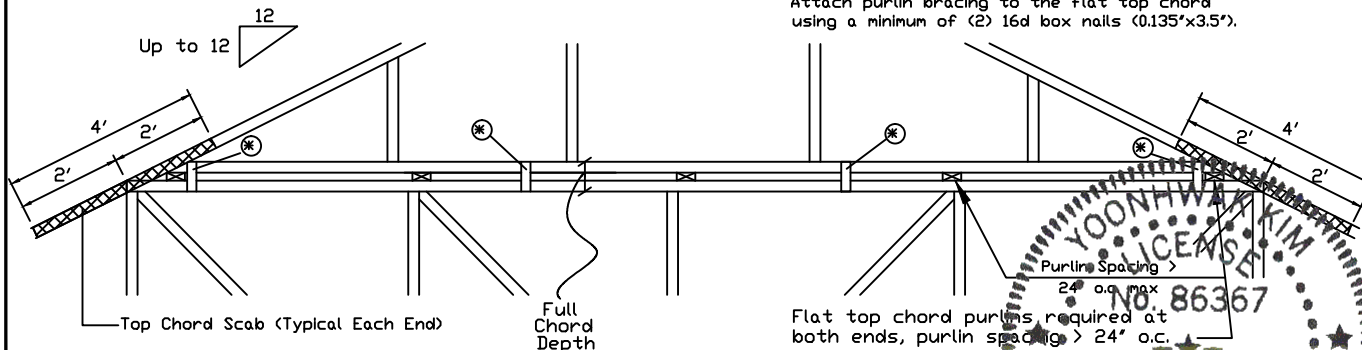
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

## Detail B : Purlin Spacing > 24" o.c.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



Note: If purlins or sheathing are not specified on the flat top of the base truss, purlins must be installed at 24' o.c. max. and use Detail A.

\* In addition, provide connection with one of the following methods:

**Trulox**  
Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

**APA Rated Gusset**  
8'x8'x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

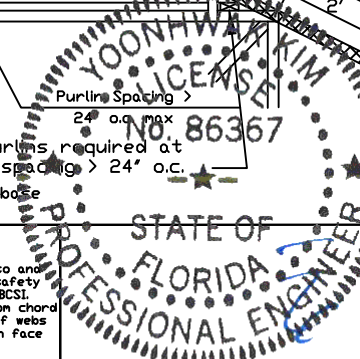
**2x4 Vertical Scabs**  
2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

**28PB Wave Piggyback Plate**  
One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback cap truss of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.



13723 Riverport Drive  
Suite 200  
Maryland Heights, MO 63043

**\*\*\*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.  
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 & bracing of trusses.  
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.  
For more information see this Job's general notes page and these web sites:  
ALPINE: [www.alpineitw.com](http://www.alpineitw.com) TPI: [www.tpinstr.org](http://www.tpinstr.org) SBCA: [www.sbcindustry.org](http://www.sbcindustry.org) ICC: [www.iccsafe.org](http://www.iccsafe.org)



REF PIGGYBACK  
DATE 10/01/14  
DRWG PB160101014

SPACING 24.0'