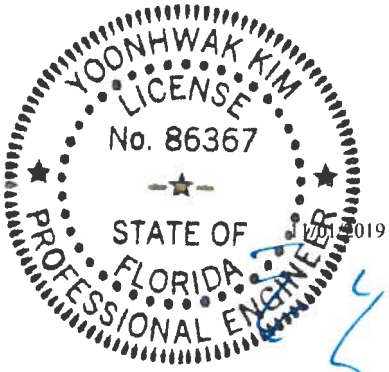

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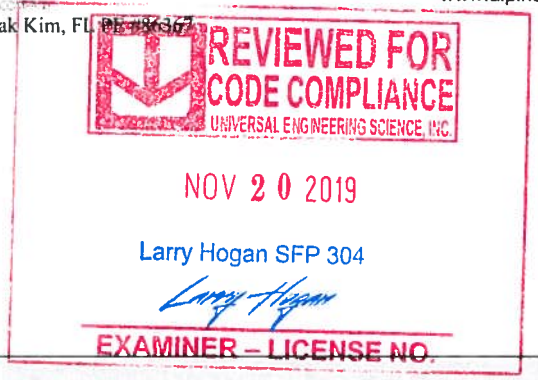


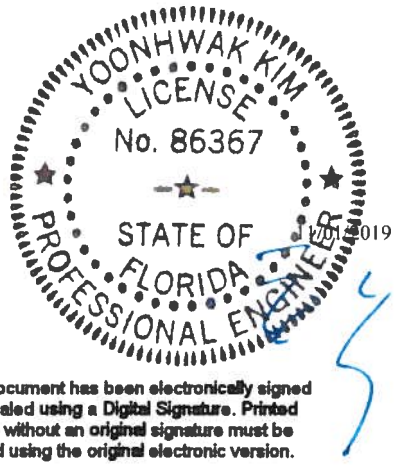
Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	*Job Number:* 19-3023C
Job Description: /LOT 43 ROLLING MEADOWS /SPARKS CONST.	
Address: LOT 43 ROLLING MEADOWS, FL	

Job Engineering Criteria:	
Design Code: FBC 2017 RES	*IntelliVIEW Version:* 18.02.00A through 19.02.01 *JRef #:* 1WPU2150002
Wind Standard: ASCE 7-10 *Wind Speed (mph):* 130 *Building Type:* Closed	*Roof Load (psf):* 20.00-10.00- 0.00-10.00 *Floor Load (psf):* None

This package contains general notes pages, 60 truss drawing(s) and 6 detail(s).

Item	Seal #	Truss
1	305.19.1138.33834	A01
3	305.19.1138.34194	A03
5	305.19.1138.33975	B01
7	305.19.1138.34443	B03
9	305.19.1138.34552	B05
11	305.19.1138.34303	C01
13	305.19.1138.34256	D01
15	305.19.1138.34239	G01
17	305.19.1138.34429	G03
19	305.19.1138.34381	G05
21	305.19.1318.56890	G07
23	305.19.1138.34209	H02
25	305.19.1138.34006	H04
27	305.19.1138.34365	H06
29	305.19.1138.33553	HJ4
31	305.19.1319.03540	J10
33	305.19.1138.33741	J12
35	305.19.1138.33992	J14
37	305.19.1138.33447	J16
39	305.19.1138.34037	J18
41	305.19.1138.34117	J2
43	305.19.1138.34162	J21
45	305.19.1138.33757	J4
47	305.19.1138.34116	J7
49	305.19.1138.34364	J9
51	305.19.1319.14360	JH2

Item	Seal #	Truss
2	305.19.1138.34521	A02
4	305.19.1138.33616	A05
6	305.19.1138.33991	B02
8	305.19.1138.33430	B04
10	305.19.1319.42970	B06
12	305.19.1138.34506	C02
14	305.19.1138.34428	FT1
16	305.19.1138.33679	G02
18	305.19.1138.33804	G04
20	305.19.1138.33803	G06
22	305.19.1138.33976	H01
24	305.19.1138.33710	H03
26	305.19.1138.34551	H05
28	305.19.1138.34474	HJ3
30	305.19.1138.34022	J1
32	305.19.1138.33726	J11
34	305.19.1138.34147	J13
36	305.19.1138.33570	J15
38	305.19.1138.34286	J17
40	305.19.1138.33537	J19
42	305.19.1138.34334	J20
44	305.19.1138.33912	J3
46	305.19.1138.33648	J5
48	305.19.1138.33429	J8
50	305.19.1319.09593	JH1
52	305.19.1138.33460	K01



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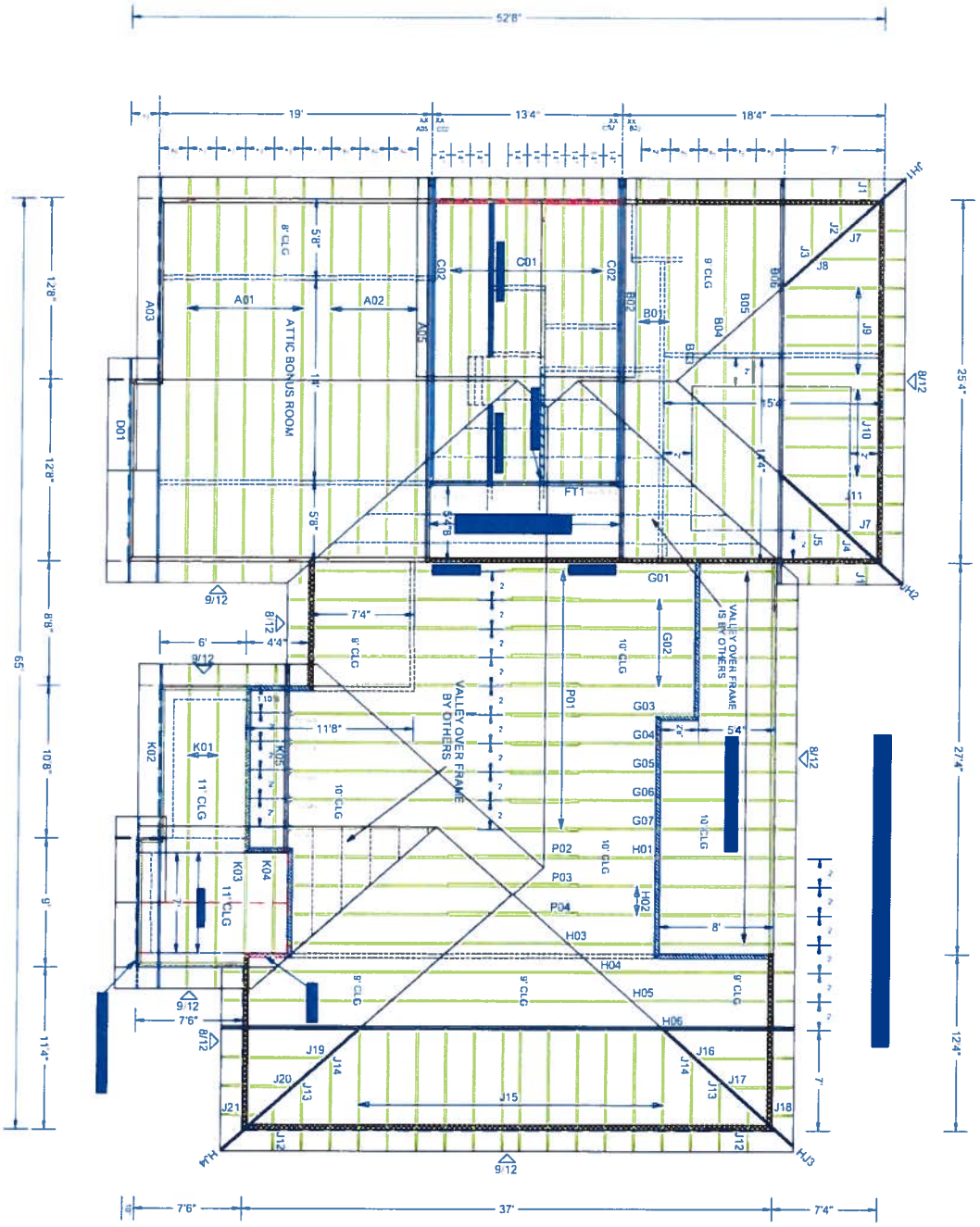
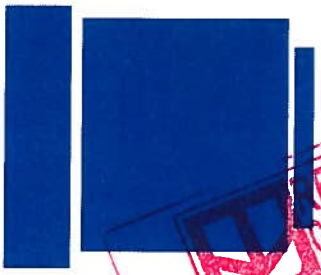
Site Information:	**Page 2:**
Customer: W. B. Howland Company, Inc.	*Job Number:* 19-3023C
Job Description: /LOT 43 ROLLING MEADOWS /SPARKS CONST.	
Address: LOT 43 ROLLING MEADOWS, FL	

Item	Seal #	Truss
53	305.19.1138.34084	K02
55	305.19.1138.33446	K04
57	305.19.1138.33600	P01
59	305.19.1138.34475	P03
61	A14015ENC101014	
63	BRCLBSUB0119	
65	PB160101014	

Item	Seal #	Truss
54	305.19.1138.33663	K03
56	305.19.1138.33694	K05
58	305.19.1138.33913	P02
60	305.19.1138.33819	P04
62	A14030ENC101014	
64	GBLLETIN0118	
66	160TL	





PAGE NO: 1 OF 1	JOB NO: 19-3023C	Job Name: LOT 43 ROLLING MEADOWS Customer: SPARKS CONST. Designer: Bob Glover ADDRESS: LOT 43 ROLLING MEADOWS SALESMAN: DB : <Not Found>	JOB #: 19-3023C	

General Notes

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

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

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

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

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

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

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

General Notes (continued)

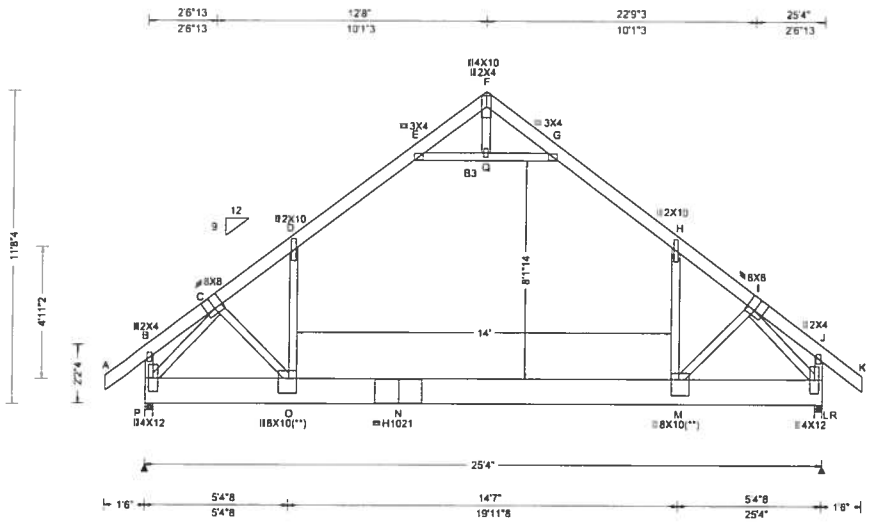
Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written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

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the immediate vertical Deflection, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

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

SEQN: 296323 / ATIC FROM: CDM	Ply: 1 Qty: 5	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** A01	Cust: R 215 JRef 1WPU2150002 T66 / DrwNo: 305.19.1138.33834 / YK 11/01/2019



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	**Wind Criteria** Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	**Snow Criteria** (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	**Defl/CSI Criteria** PP Deflection in loc L/defl L/# VERT(LL): 0.230 O 999 480 VERT(CL): 0.445 O 683 360 HORZ(LL): 0.215 D - - HORZ(TL): 0.420 D - - Creep Factor: 2.0 Max TC CSI: 0.768 Max BC CSI: 0.463 Max Web CSI: 0.744 VIEW Ver: 18.02.01B.0321.08	**▲Maximum Reactions (lbs)** Gravity / Non-Gravity Loc R+ / R- / Rh / Rw / U / RL P 2135 /- /- /714 /184 /337 R 2135 /- /- /714 /184 /- Wind reactions based on MWFRS P Brg Width = 3.5 Min Req = 1.8 R Brg Width = 3.5 Min Req = 1.8 Bearings P & R are a rigid surface. Members not listed have forces less than 375# **Maximum Top Chord Forces Per Ply (lbs)** Chords Tens. Comp. Chords Tens. Comp. C - D 289 -2247 F - G 387 -61 D - E 324 -1537 G - H 324 -1538 E - F 387 -61 H - I 289 -2246 **Maximum Bot Chord Forces Per Ply (lbs)** Chords Tens. Comp. Chords Tens. Comp. P - O 1456 -146 N - M 1451 -73 O - N 1451 -73 M - L 1456 -114 **Maximum Web Forces Per Ply (lbs)** Webs Tens. Comp. Webs Tens. Comp. P - C 188 -2418 Q - G 453 -2012 O - D 1138 -112 H - M 1136 -111 E - Q 453 -2012 I - L 189 -2417

Lumber

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x12 SP 2400f-2.0E; B3 2x4 SP #2;
Webs: 2x4 SP #3;

Plating Notes

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

Loading

Attic room loading from 5-8-0 to 19-8-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

End verticals not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 11-8-4.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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

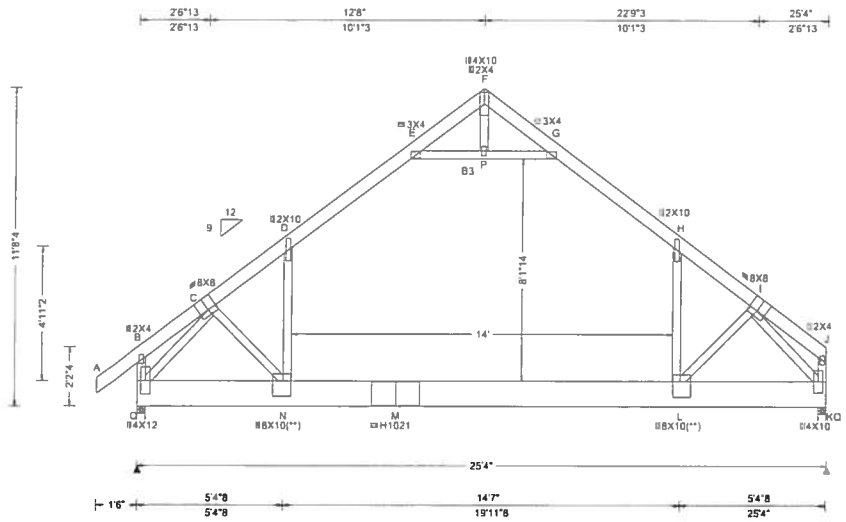
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

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

SEQN: 296328 / ATIC FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** A02	Cust: R 215 JRef: 1WPU2150002 T47 / DrwNo: 305.19.1138.34521 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.231	L	999	240
VERT(CL): 0.446	L	681	180
HORZ(LL): 0.215	D	-	-
HORZ(TL): 0.421	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.769
Max BC CSI: 0.463
Max Web CSI: 0.754

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2138	/-	/-	/715	/184	/316
Q	2027	/-	/-	/621	/160	/-

Wind reactions based on MWFRS
O Brg Width = 3.5 Min Req = 1.8
Q Brg Width = 3.5 Min Req = 1.7
Bearings O & Q are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	287	-2253	F - G	389	-61
D - E	323	-1541	G - H	323	-1541
E - F	388	-61	H - I	287	-2256

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	1460	-154	M - L	1455	-77
N - M	1455	-77	L - K	1477	-152

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - C	185	-2425	P - G	451	-2019
N - D	1143	-111	H - L	1141	-109
E - P	451	-2019	I - K	251	-2449

Lumber

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x12 SP 2400f-2.0E; B3 2x4 SP #2;
Webs: 2x4 SP #3;

Plating Notes

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

Loading

Attic room loading from 5-8-0 to 19-8-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

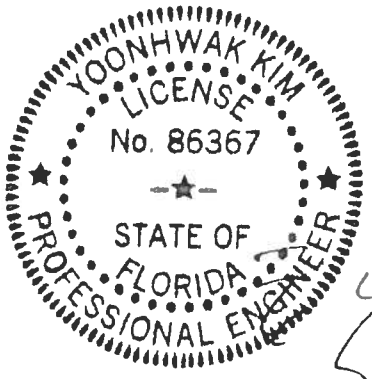
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 11-8-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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

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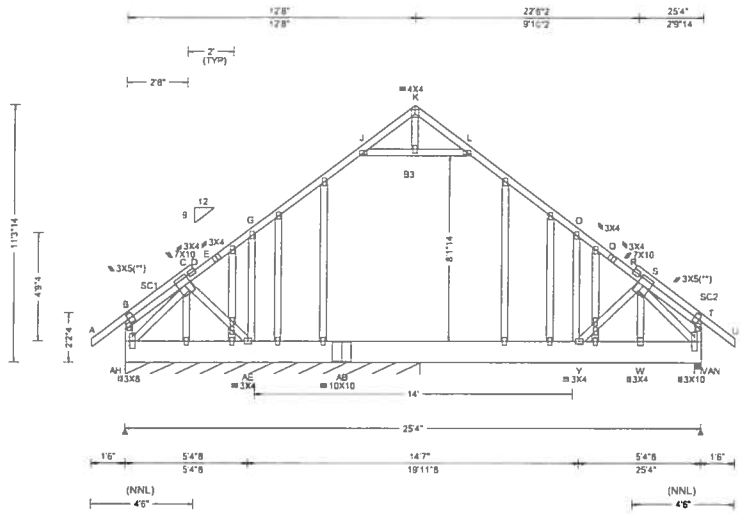
Orlando FL, 32821

SEQN: 296343 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** A03	Cust: R 215 JRef: 1WPU2150002 T69 / DrwNo: 305.19.1138.34194 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.063	N	999	240
VERT(CL): 0.122	N	999	180
HORZ(LL): -0.052	O	-	-
HORZ(TL): 0.103	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.374
Max BC CSI: 0.216
Max Web CSI: 0.296

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AH	*244	/-	/-	/91	/37	/40
AN	1293	/-	/-	/617	/118	/-
AE		/-111				
AB		/-354				

Wind reactions based on MWFRS
AH Brg Width = 155 Min Req = -
AN Brg Width = 3.5 Min Req = 1.5
Bearings AH & AN are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	223	-819	L - O	271	-783
D - E	137	-743	O - Q	83	-776
E - G	145	-766	Q - R	45	-751
G - J	271	-787	R - S	130	-827

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AH-AE	402	-116	Y - W	654	0
AE-AB	576	-208	W - V	640	-4
AB- Y	1142	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AH- C	181	-631	S - V	5	-1002

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.
W - S	395	-237

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x12 SP 2400f-2.0E; B3 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.

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

Loading

Truss designed to support 1-6-0 top chord outlookers and cladding load not to exceed 2.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Attic room loading from 5-8-0 to 19-8-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

End verticals not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

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

The overall height of this truss excluding overhangs 11-3-14.

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FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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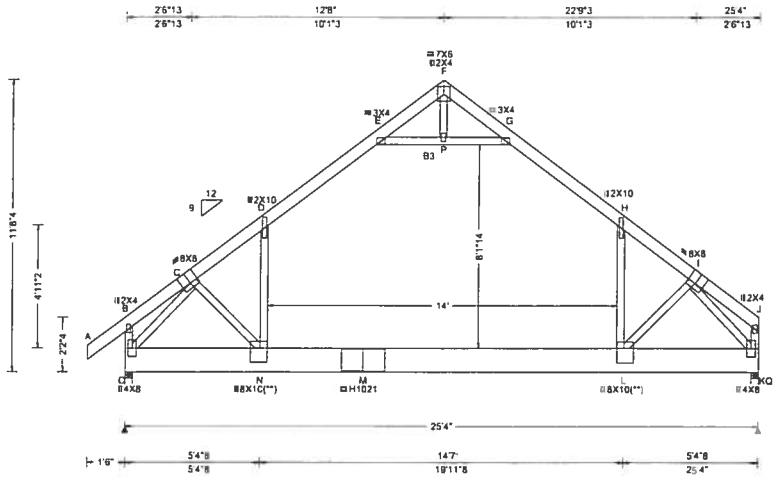
For more information see this job's general notes page and these web sites. ALPINE: www.alpineitw.com, TPI: www.tpinst.org, SBCA: www.sbcindustry.com, ICC: www.iccsafe.org

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

SEQN: 296368 / ATIC FROM: CDM Page 1 of 2	Ply: 2 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** A05	Cust: R 215 JRef: 1WPU2150002 T24 / DrwNo: 305.19.1138.33616 / YK 11/01/2019

2 Complete Trusses Required



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.260	L	999	480
VERT(CL): 0.547	L	556	360
HORZ(LL): -0.241	H	-	-
HORZ(TL): 0.506	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.922
Max BC CSI: 0.488
Max Web CSI: 0.733

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	4213	/-	/-	/1269	/244	/316
Q	4066	/-	/-	/691	/299	/-

Wind reactions based on MWFRS
O Brg Width = 3.5 Min Req = 1.7
Q Brg Width = 3.5 Min Req = 1.7
Bearings O & Q are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	96	-2159	F - G	514	-6
D - E	125	-1267	G - H	120	-1257
E - F	504	-6	H - I	112	-2189

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	1403	-63	M - L	1342	-68
N - M	1342	-68	L - K	1434	-79

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - C	105	-2328	P - G	137	-2112
N - D	1388	-1	H - L	1455	-15
E - P	137	-2112	I - K	131	-2379

Lumber

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x12 SP 2400f-2.0E; B3 2x4 SP #2;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 7.25" 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	65 plf at	-1.50 to	65 plf at	25.33
TC: From	25 plf at	5.67 to	25 plf at	9.97
TC: From	25 plf at	15.36 to	25 plf at	19.67
PLT: From	20 plf at	10.31 to	20 plf at	15.03
PLT: From	100 plf at	5.67 to	100 plf at	19.67
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	25.33
BC: From	110 plf at	0.00 to	110 plf at	5.67
BC: From	5 plf at	25.33 to	5 plf at	25.33

BC: 129 lb Conc. Load at 1.40, 2.73, 4.06, 5.40 6.73, 8.06, 8.94
BC: 99 lb Conc. Load at 5.67,19.67
BC: 159 lb Conc. Load at 10.27,11.60,12.94,14.27 15.60,16.94,18.27,19.60
BC: 1315 lb Conc. Load at 19.83

Plating Notes

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

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings.
bearing 1 located at 0.0
bearing 2 located at 25.3

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FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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6750 Forum Drive
Suite 305
Orlando FL, 32821

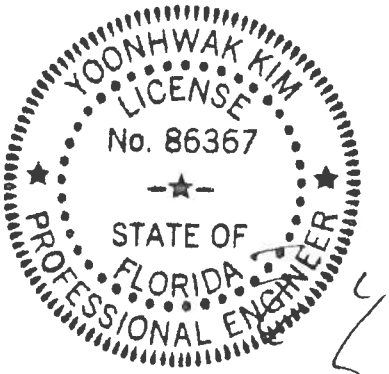
Additional Notes

Refer to General Notes for additional information

The maximum horizontal reaction is 316#

The overall height of this truss excluding overhang is 11-8-4.

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



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11/01/2019

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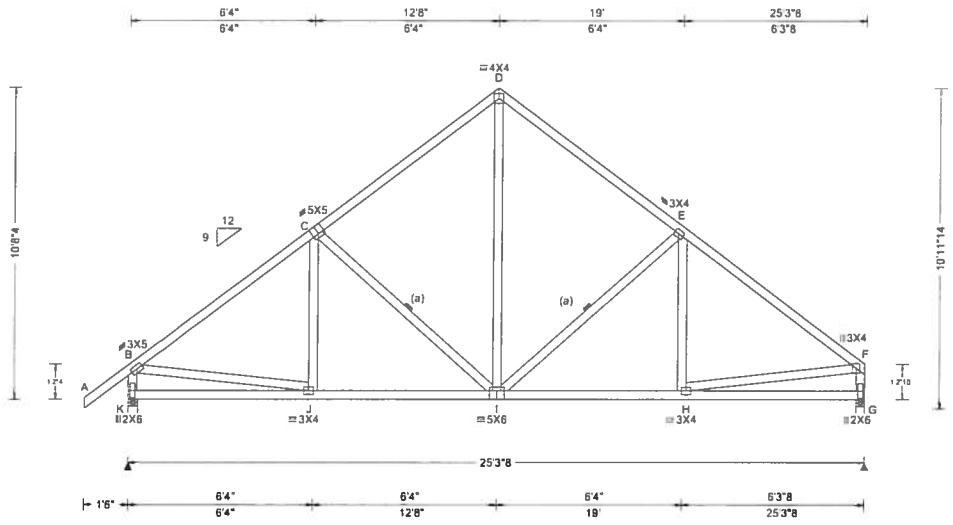
ALPINE
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296399 / SPEC FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** B01	Cust: R 215 JRef: 1WPU2150002 T17 / DrwNo: 305.19.1138.33975 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.037	I	999	240
VERT(CL): 0.076	I	999	180
HORZ(LL): 0.013	C	-	-
HORZ(TL): 0.027	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.539
Max BC CSI: 0.547
Max Web CSI: 0.442

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1240	/-	/-	/722	/186	/316
G	1095	/-	/-	/627	/161	/-

Wind reactions based on MWFRS
K Brg Width = 4.0 Min Req = 1.5
G Brg Width = 3.5 Min Req = 1.5
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	267	-1387	D - E	308	-1012
C - D	301	-1010	E - F	272	-1332

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	1017	-125	I - H	983	-127

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - K	296	-1192	D - I	674	-215
B - J	975	-73	H - F	923	-99
C - I	174	-419	F - G	220	-1042

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-8-4.

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11/01/2019

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6750 Forum Drive
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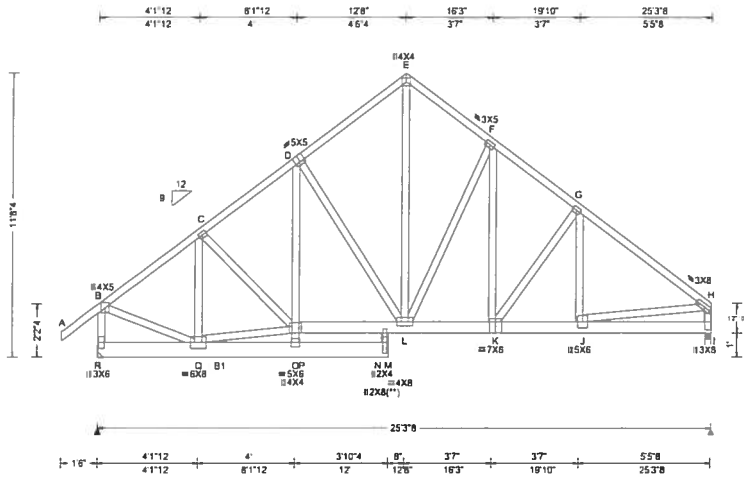
Orlando FL, 32821

SEQN: 296374 / SPEC FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** B02	Cust: R 215 JRef: 1WPU2150002 T21 / DrwNo: 305.19.1138.33991 / YK 11/01/2019

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.059 K 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.136 K 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.027 D - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.063 D - -
NCBCLL: 0.00	Mean Height: 15.00 ft	**Code / Misc Criteria**	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.494
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.200
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.724
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	VIEW Ver: 18.02.01B.0321.08
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	4167	/-	/-	/195	/233	/-
I	3690	/-	/-	/-	/558	/-

Wind reactions based on MWFRS
R Brg Width = - Min Req = -
I Brg Width = 3.0 Min Req = 1.5
Bearing I is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	130	- 1898	E - F	184	- 1480
C - D	189	- 2010	F - G	272	- 1923
D - E	187	- 1490	G - H	380	- 2454

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	1590	- 149	L - K	1490	- 205
N - L	1589	- 146	K - J	1893	- 286

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - R	145	- 1840	L - F	145	- 742
B - Q	1604	- 102	F - K	906	- 171
Q - O	1509	- 100	K - G	135	- 673
O - P	596	- 3	G - J	717	- 120
O - D	889	0	J - H	1899	- 283
D - L	11	- 759	H - I	289	- 1811
E - L	1677	- 189			

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
B1 2x8 SP 2400f-2.0E;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 5.50" 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	65 plf at	-1.50 to	65 plf at	1.40
TC: From	33 plf at	1.40 to	33 plf at	19.83
TC: From	65 plf at	19.83 to	65 plf at	25.29
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	120 plf at	0.00 to	120 plf at	9.00
BC: From	10 plf at	9.00 to	10 plf at	19.83
BC: From	20 plf at	19.83 to	20 plf at	25.29

BC: 287 lb Conc. Load at 1.40, 2.73, 4.06, 5.40 6.73, 8.06, 8.94
BC: 206 lb Conc. Load at 10.27,11.60,12.94,14.27 15.60,16.94,18.27,19.60
BC: 1752 lb Conc. Load at 19.83

Plating Notes

All plates are 3X4 except as noted.

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

Wind

Wind loads and reactions based on MWFRS.

Left end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 11-8-4.

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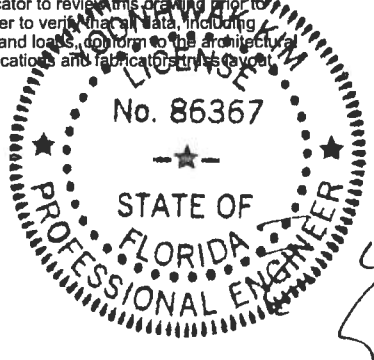

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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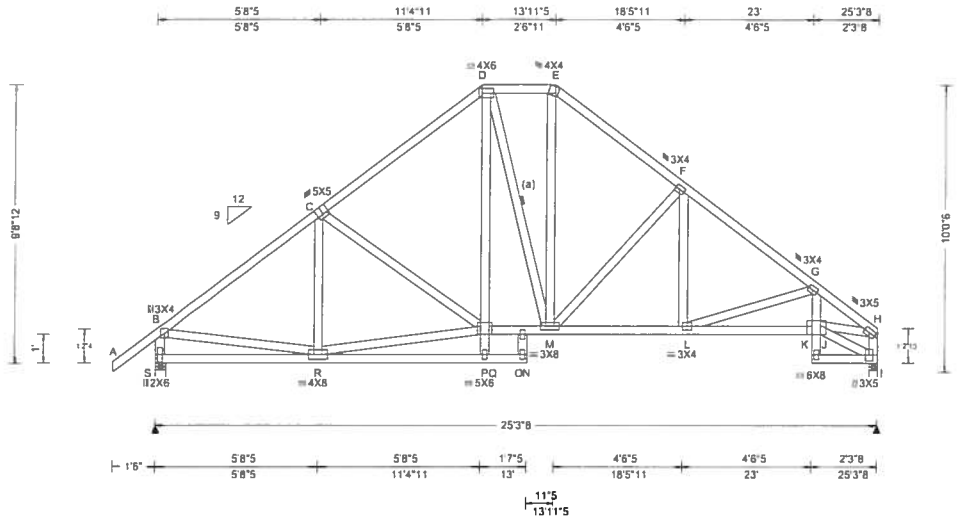
For more information see this job's general notes page and these web sites. ALPINE: www.alpineitw.com, TPI: www.tpinst.org, SBCA: www.sbcindustry.com, ICC: www.iccsafe.org

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

SEQN: 296402 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** B03	Cust: R 215 JRef: 1WPU2150002 T62 / DrwNo: 305.19.1138.34443 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.045	Q	999	240
VERT(CL): 0.095	Q	999	180
HORZ(LL): 0.037	I	-	-
HORZ(TL): 0.077	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.395
Max BC CSI: 0.479
Max Web CSI: 0.606

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1183	/-	/-	/724	/189	/288
I	1072	/-	/-	/628	/163	/-

Wind reactions based on MWFRS
S Brg Width = 4.0 Min Req = 1.5
I Brg Width = 3.5 Min Req = 1.5
Bearings S & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	289	-1304	E - F	342	-1096
C - D	327	-1140	F - G	344	-1460
D - E	308	-804	G - H	436	-2010

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	805	-43	M - L	1095	-150
O - M	822	-45	L - J	1617	-329

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - S	311	-1135	M - F	168	-441
B - R	932	-109	L - G	191	-540
R - P	955	-152	J - H	1591	-324
D - P	416	-94	H - I	226	-1027
M - E	405	-137			

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

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

Plating Notes
All plates are 2X4 except as noted.

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 9-8-12.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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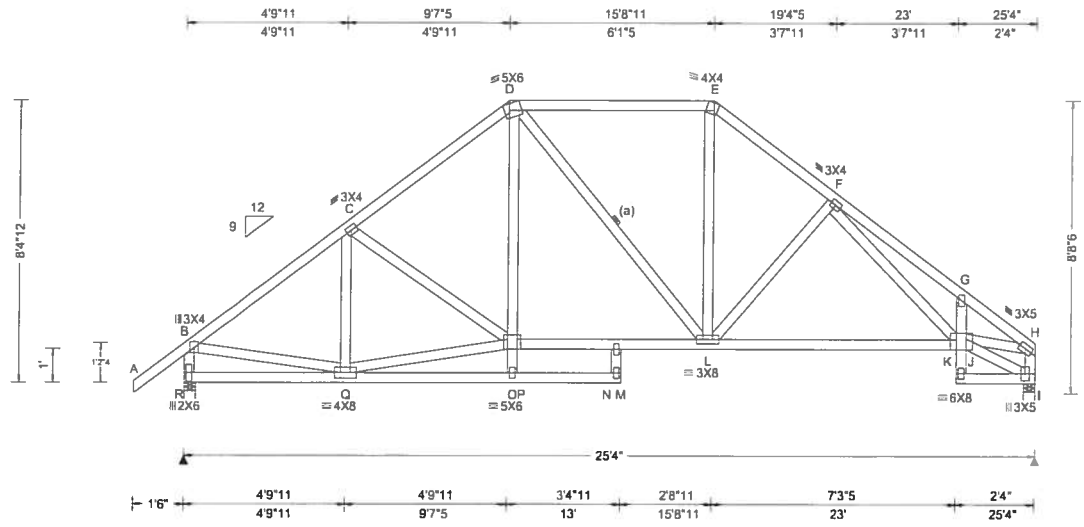
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296405 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** B04	Cust: R 215 JRef: 1WPU2150002 T58 / DrwNo: 305.19.1138.33430 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.047	L	999	240
VERT(CL): 0.099	L	999	180
HORZ(LL): 0.041	I	-	-
HORZ(TL): 0.085	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.675
Max Web CSI: 0.605

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	1185	/-	/-	/722	/194	/250
I	1074	/-	/-	/627	/168	/-

Wind reactions based on MWFRS
R Brg Width = 4.0 Min Req = 1.5
I Brg Width = 4.0 Min Req = 1.5
Bearings R & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	300	-1291	E - F	364	-1225
C - D	354	-1256	F - G	559	-2085
D - E	326	-935	G - H	453	-2020

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	923	-100	L - J	1154	-196
N - L	941	-104			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - R	322	-1144	L - E	417	-89
B - Q	949	-136	F - J	694	-213
Q - O	959	-173	J - H	1587	-334
D - O	387	-76	H - I	238	-1035

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Wind

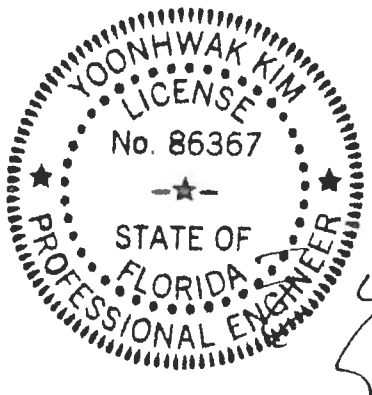
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 8-4-12.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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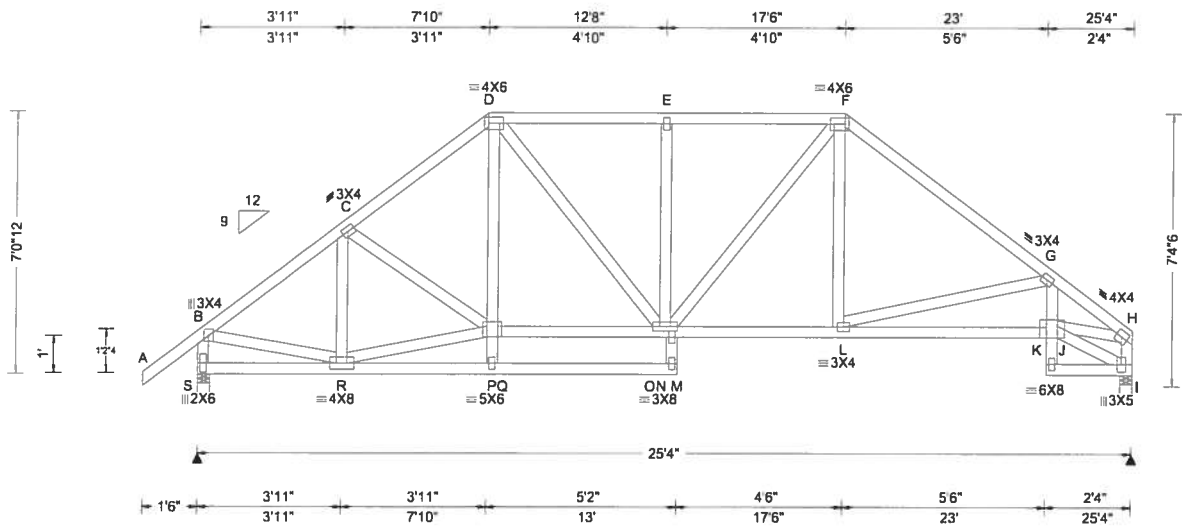
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296408 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** B05	Cust: R 215 JRef: 1WPU2150002 T7 / DrwNo: 305.19.1138.34552 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.052	M	999	240
VERT(CL): 0.109	M	999	180
HORZ(LL): 0.042	I	-	-
HORZ(TL): 0.089	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.363
Max BC CSI: 0.586
Max Web CSI: 0.632

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1185	/-	/-	/715	/198	/211
I	1074	/-	/-	/619	/172	/-

Wind reactions based on MWFRS
S Brg Width = 4.0 Min Req = 1.5
I Brg Width = 4.0 Min Req = 1.5
Bearings S & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	305	-1258	E - F	385	-1197
C - D	378	-1378	F - G	372	-1413
D - E	385	-1197	G - H	503	-2078

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1038	-150	N - L	1045	-154
O - N	1030	-150	L - J	1683	-389

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - S	331	-1149	D - P	378	-68
B - R	952	-158	L - G	244	-659
R - C	101	-389	J - H	1659	-385
R - P	959	-191	H - I	247	-1028

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Wind

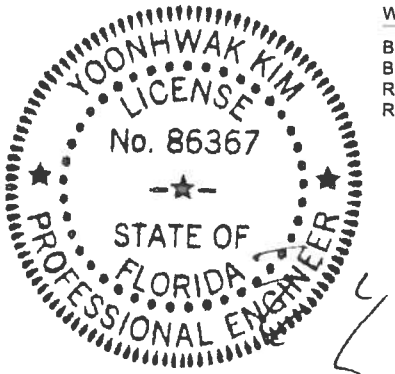
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 7-0-12.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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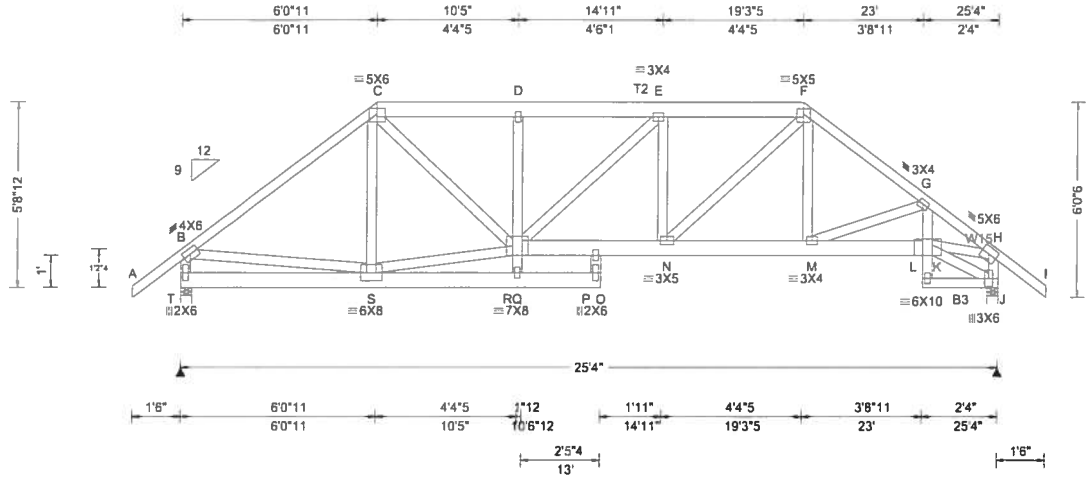
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 2901 HIPS FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** B06	Cust: R 215 JRef: 1WPU2150002 T53 DrwNo: 305.19.1319.42970 / YK 11/01/2019

2 Complete Trusses Required



Loading Criteria (psf)
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 Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.097	E	999	240
VERT(CL): 0.196	E	999	180
HORZ(LL): 0.058	J	-	-
HORZ(TL): 0.116	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.396
Max BC CSI: 0.209
Max Web CSI: 0.718

VIEW Ver: 19.02.01.1027.13

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	3606	/-	/-	/-	/497	/-
J	4100	/-	/-	/-	/759	/-

Wind reactions based on MWFRS
T Brg Width = 4.0 Min Req = 1.5
J Brg Width = 4.0 Min Req = 2.4
Bearings T & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	315	-2384	E - F	568	-3397
C - D	449	-3241	F - G	605	-3343
D - E	451	-3252	G - H	702	-3877

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	3423	-573	N - M	2635	-475
P - N	3440	-576	M - K	3111	-560

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - T	260	-1777	F - M	511	-37
B - S	1840	-228	M - G	88	-477
S - Q	1868	-235	G - K	472	-69
C - Q	1885	-291	K - H	3087	-556
E - N	134	-679	H - J	375	-1985
N - F	1084	-132			

Lumber
Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E; B3 2x4 SP #2;
Webs: 2x4 SP #3; W15 2x4 SP #2;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 8.25" 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	65 plf at	-1.50 to	65 plf at	6.06
TC: From	32 plf at	6.06 to	32 plf at	19.28
TC: From	65 plf at	19.28 to	65 plf at	26.83
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	6.09
BC: From	10 plf at	6.09 to	10 plf at	19.25
BC: From	20 plf at	19.25 to	20 plf at	25.33
BC: From	5 plf at	25.33 to	5 plf at	26.83

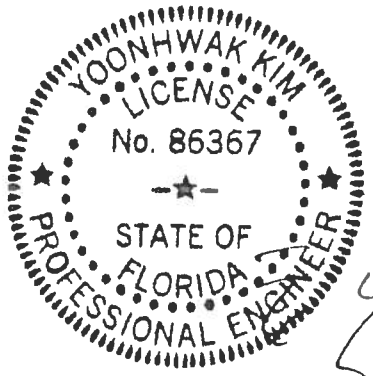
TC: 392 lb Conc. Load at 6.09
TC: 213 lb Conc. Load at 8.12,10.12,12.12
TC: 633 lb Conc. Load at 13.22,15.22,17.22
TC: 852 lb Conc. Load at 19.25
BC: 628 lb Conc. Load at 6.09
BC: 148 lb Conc. Load at 8.12,10.12,12.12
BC: 136 lb Conc. Load at 13.22,15.22,17.22
BC: 643 lb Conc. Load at 19.25

Plating Notes
All plates are 2X4 except as noted.

Wind
Wind loads and reactions based on MWFRS.

Additional Notes
Refer to General Notes for additional information

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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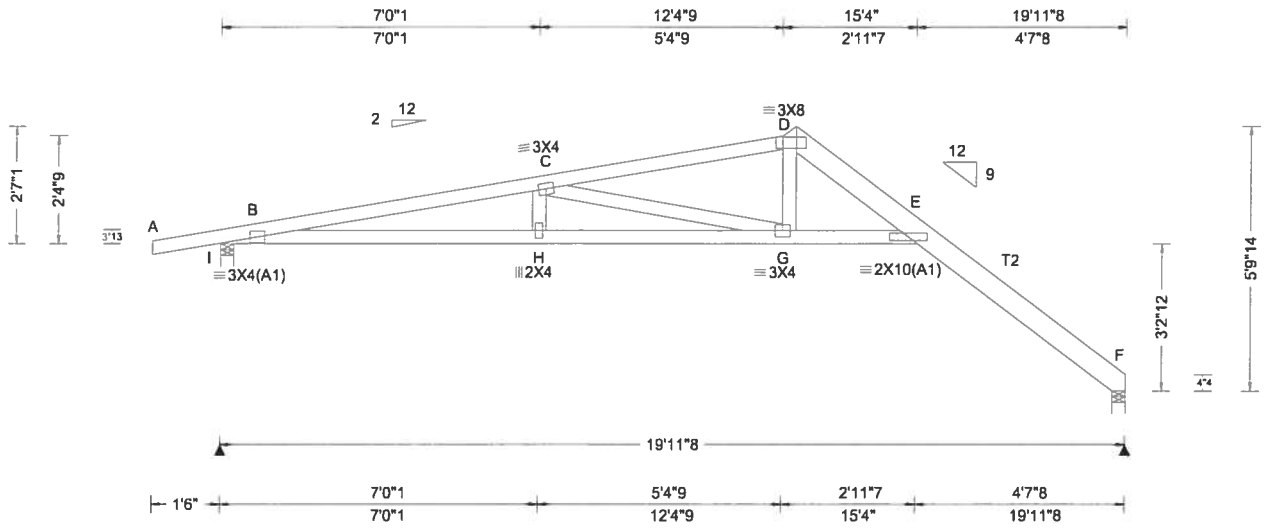
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296331 / COMN FROM: CDM	Ply: 1 Qty: 9	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** C01	Cust: R 215 JRef: 1WPU2150002 T9 / DrwNo: 305.19.1138.34303 / YK 11/01/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 16.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.95 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

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.453	G	517	240
VERT(CL): 0.917	G	255	180
HORZ(LL): 0.055	D	-	-
HORZ(TL): 0.112	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.629
Max BC CSI: 0.623
Max Web CSI: 0.536

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	597	/-	/-	/310	/147	/82
F	547	/-	/-	/375	/55	/-

Wind reactions based on MWFRS
I Brg Width = 3.5 Min Req = 1.5
F Brg Width = 3.5 Min Req = 1.5
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	466	-2024	D - E	236	-1025
C - D	257	-1164			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	1981	-352	G - E	1116	-120
H - G	1973	-353			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - G	237	-869

Lumber

Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

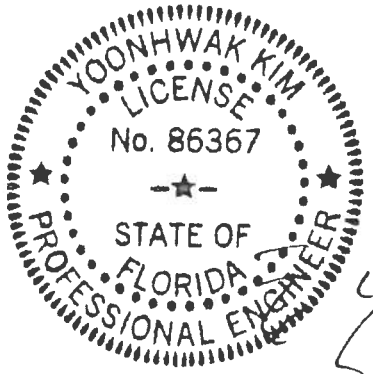
Wind

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 2-7-1.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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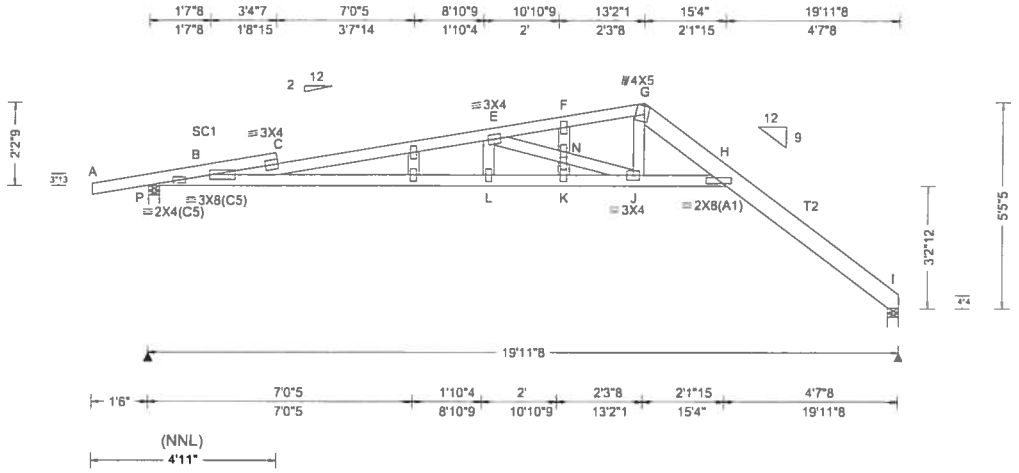
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296396 / GABL FROM: CDM	Ply: 2 Qty: 2	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** C02	Cust: R 215 JRef: 1WPU2150002 T54 / DrwNo: 305.19.1138.34506 / YK 11/01/2019

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 16.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.76 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 9.17 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.382	J	609	240
VERT(CL): 0.651	M	356	180
HORZ(LL): -0.027	D	-	-
HORZ(TL): 0.048	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.640
Max BC CSI: 0.480
Max Web CSI: 0.234

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	841	/-	/-	/385	/619	/384
I	726	/-	/-	/459	/765	/-

Wind reactions based on MWFRS
P Brg Width = 3.5 Min Req = 1.5
I Brg Width = 3.5 Min Req = 1.5
Bearings P & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1117	-1596	F - G	620	-879
C - E	1106	-1579	G - H	507	-743
E - F	617	-891			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	1555	-855	K - J	1535	-840
L - K	1535	-840	J - H	854	-334

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - N	523	-709	N - J	516	-699

Lumber

Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;

Nailnote

Nail Schedule:0.128"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.

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 2.00 PSF one face and 16.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Purlins

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

Wind

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

Additional Notes

Refer to General Notes for additional information

See DWGS A14030ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

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

The overall height of this truss excluding overhangs 2-2-9.

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FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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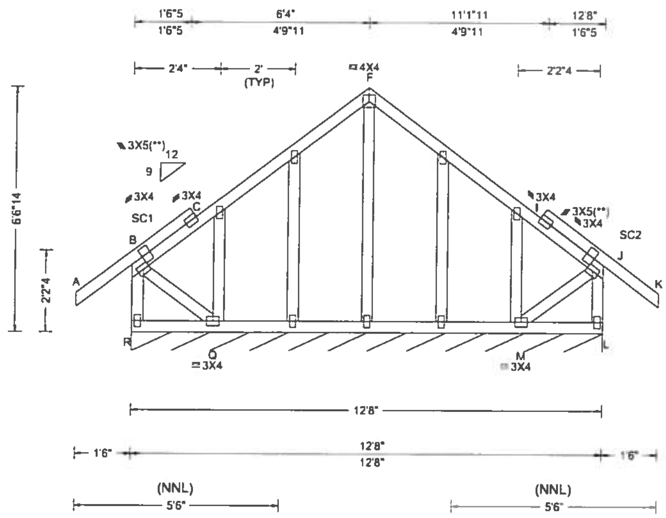
SEQN: 296346 / GABL	Ply: 1	Job Number: 19-3023C	Cust: R 215 JRef: 1WPU2150002 T57 /
FROM: CDM	Qty: 1	/LOT 43 ROLLING MEADOWS /SPARKS CONST.	DrwNo: 305.19.1138.34256
		Truss Label: D01	/ YK 11/01/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 J 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.004 J 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.006 B - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.007 B - -
NCBCLL: 10.00	Mean Height: 15.00 ft	**Code / Misc Criteria**	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.448
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.088
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.178
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
R*	190	/-	/-	/84	/71	/31

Wind reactions based on MWFRS
R Brg Width = 152 Min Req = -
Bearing R is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	517	- 474	I - J	576	- 483

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
M - L	391	- 391

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
B - R	78	- 442	J - L	85	- 442

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.

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

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 2.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

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

End verticals not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

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

The overall height of this truss excluding overhang is 6-6-14.

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11/01/2019

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Orlando FL, 32821

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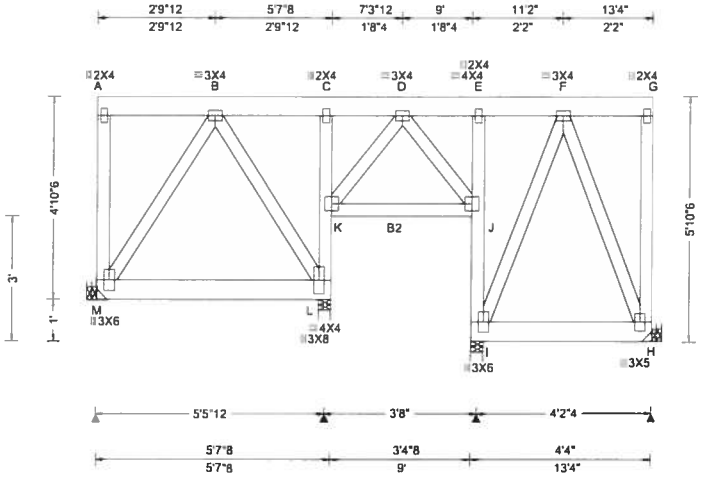
SEQN: 296338 / MONO FROM: CDM Page 1 of 2	Ply: 2 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** FT1	Cust: R 215 JRef 1WPU2150002 T16 / DrwNo: 305.19.1138.34428 / YK 11/01/2019

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	D	999	240
VERT(CL): 0.007	D	999	180
HORZ(LL): 0.001	H	-	-
HORZ(TL): 0.003	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.125
Max BC CSI: 0.195
Max Web CSI: 0.232

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M	1752	/-	/-	/1651	/291	/-
L	3345	/-	/-	/3152	/564	/-
I	2811	/-	/-	/2648	/470	/-
H	1315	/-	/-	/1238	/218	/-

Wind reactions based on MWFRS
M Brg Width = - Min Req = -
L Brg Width = 3.5 Min Req = 1.5
I Brg Width = 3.5 Min Req = 1.5
H Brg Width = - Min Req = -
Bearings L & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - B	113	-528	E - J	127	-587
B - L	136	-643	J - I	165	-912
L - K	195	-1055	I - F	99	-475
C - K	156	-727			

Lumber

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E; B2 2x4 SP #2;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 4.75" 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	646 plf at	0.00 to	646 plf at	13.33
BC: From	45 plf at	0.00 to	45 plf at	13.33

Purlins

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

Wind

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

End verticals not exposed to wind pressure.

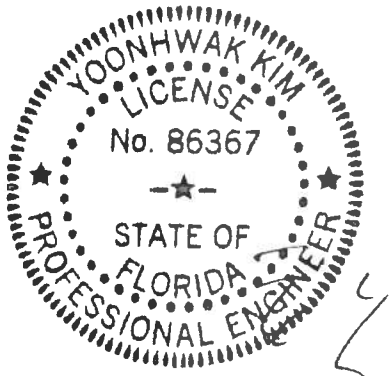
It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.

Additional Notes

Refer to General Notes for additional information

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 4-10-6.



FL REG# 278. Yoonhwak Kim, FL PE #86367
11/01/2019

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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=0' uses the following support conditions: 0'
Bearing M (0', 9') HGUS26-2
Supporting Member: (2)2x6 SP 2400f-2.0E
(20) 0.148"x3" nails into supporting member,
(6) 0.148"x3" nails into supported member.

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11/01/2019

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ALPINE
6750 Forum Drive
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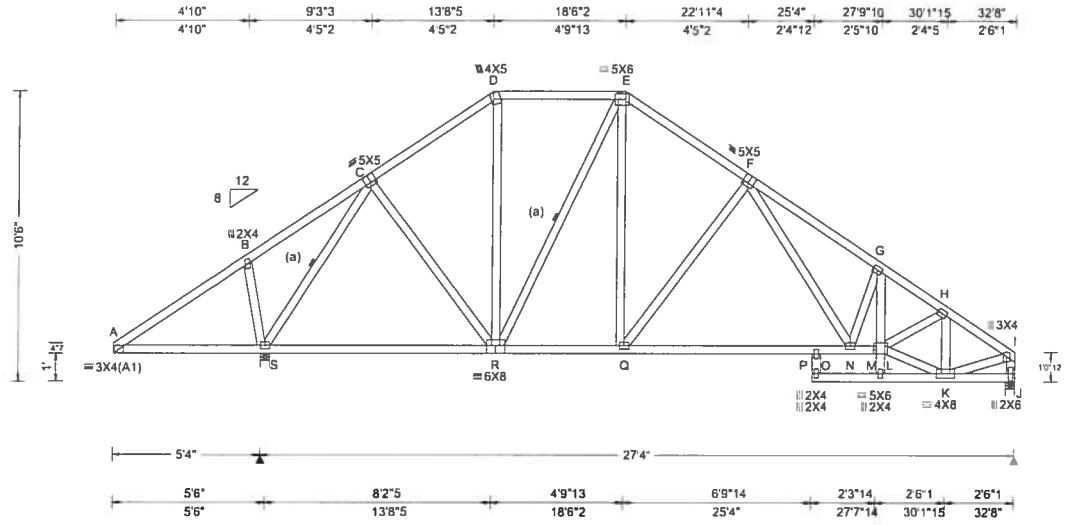
Orlando FL, 32821

SEQN: 296465 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** G01	Cust: R 215 JRef: 1WPU2150002 T50 / DrwNo: 305.19.1138.34239 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.08 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.27 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.069	P	999	240
VERT(CL): 0.146	P	999	180
HORZ(LL): 0.026	J	-	-
HORZ(TL): 0.057	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.455
Max BC CSI: 0.763
Max Web CSI: 0.573

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1650	/-	/-	/982	/5	/304
J	1117	/-	/-	/685	/4	/-

Wind reactions based on MWFRS
S Brg Width = 4.0 Min Req = 1.6
J Brg Width = 4.0 Min Req = 1.5
Bearings S & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	379	-82	E - F	300	-1073
B - C	423	0	F - G	393	-1768
C - D	256	-901	G - H	363	-1941
D - E	258	-685	H - I	249	-1309

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	500	-147	O - N	1117	-88
R - Q	823	0	N - L	1598	-213
Q - O	1119	-94			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - C	217	-1380	L - H	593	-50
E - Q	531	-131	L - K	1162	-180
Q - F	185	-502	H - K	133	-782
F - N	561	-127	K - I	1080	-171
N - G	171	-586	I - J	213	-1089
G - L	436	-83			

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Wind

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

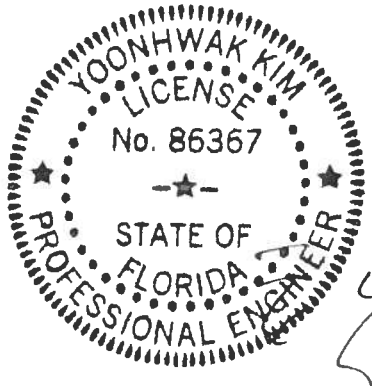
Left cantilever is exposed to wind

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 9-6-0.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).



FL REG# 278. Yoonhwak Kim, FL PE #86367
11/01/2019

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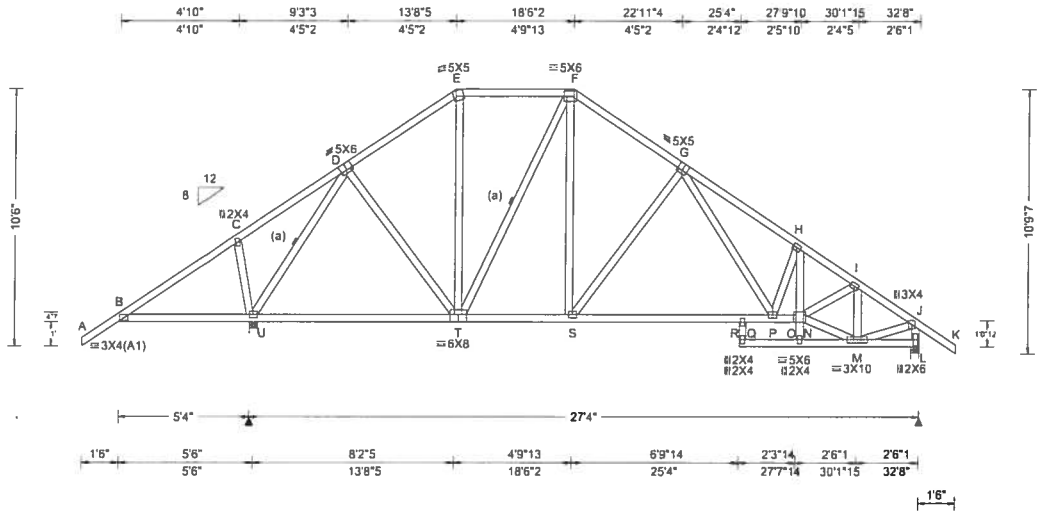
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296460 / COMN FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** G02	Cust: R 215 JRef: 1WPU2150002 T59 / DrwNo: 305.19.1138.33679 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.08 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.27 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.067	R	999	240
VERT(CL): 0.145	R	999	180
HORZ(LL): 0.025	L	-	-
HORZ(TL): 0.055	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.471
Max BC CSI: 0.757
Max Web CSI: 0.564

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
U	1775	/-	/-	/1088	/11	/355
L	1213	/-	/-	/772	/8	/-

Wind reactions based on MWFRS
U Brg Width = 4.0 Min Req = 1.7
L Brg Width = 4.0 Min Req = 1.5
Bearings U & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	587	- 247	F - G	283	- 1050
C - D	637	- 170	G - H	357	- 1731
D - E	236	- 873	H - I	309	- 1891
E - F	242	- 662	I - J	240	- 1274

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - U	315	- 416	S - Q	1095	- 27
U - T	460	- 173	Q - P	1093	- 22
T - S	804	- 3	P - N	1560	- 132

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
U - D	351	- 1545	H - N	405	- 51
D - T	439	- 33	N - I	603	- 31
F - S	525	- 126	N - M	1112	- 111
S - G	179	- 494	I - M	86	- 750
G - P	545	- 115	M - J	1044	- 111
P - H	149	- 567	J - L	288	- 1185

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Wind

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

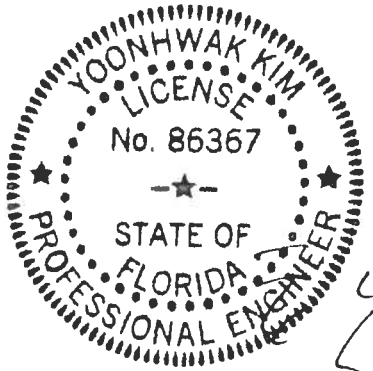
Left cantilever is exposed to wind

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 9-6-0.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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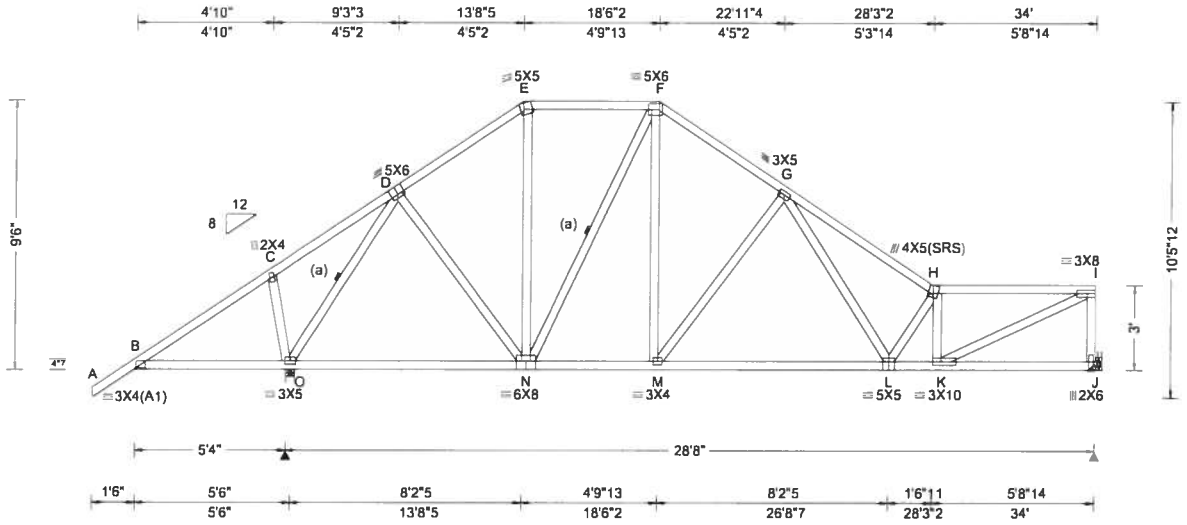
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org, SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 296468 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** G03	Cust: R 215 JRef: 1WPU2150002 T51 / DrwNo: 305.19.1138.34429 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.24 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.40 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.082	L	999	240
VERT(CL): 0.177	L	999	180
HORZ(LL): 0.031	E	-	-
HORZ(TL): 0.070	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.601
Max BC CSI: 0.774
Max Web CSI: 0.812

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1830	/-	/-	/1123	/-	/292
J	1165	/-	/-	/631	/37	/-

Wind reactions based on MWFRS
O Brg Width = 4.0 Min Req = 1.8
J Brg Width = - Min Req = -
Bearing O is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	587	- 249	F - G	324	- 1149
C - D	636	- 171	G - H	488	- 2121
D - E	262	- 935	H - I	418	- 1928
E - F	264	- 713			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	317	- 416	M - L	1258	- 225
O - N	494	- 111	L - K	2026	- 441
N - M	885	- 86			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - D	368	- 1609	G - L	841	- 203
D - N	467	- 40	L - H	224	- 674
N - F	107	- 417	H - K	219	- 921
F - M	640	- 170	K - I	2131	- 460
M - G	235	- 632	I - J	278	- 1109

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

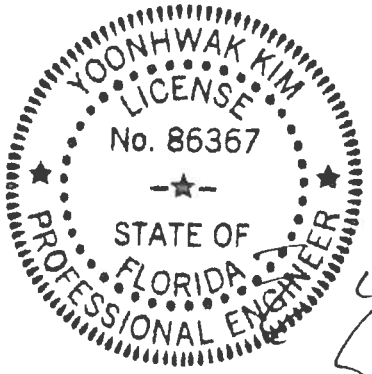
Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 9-6-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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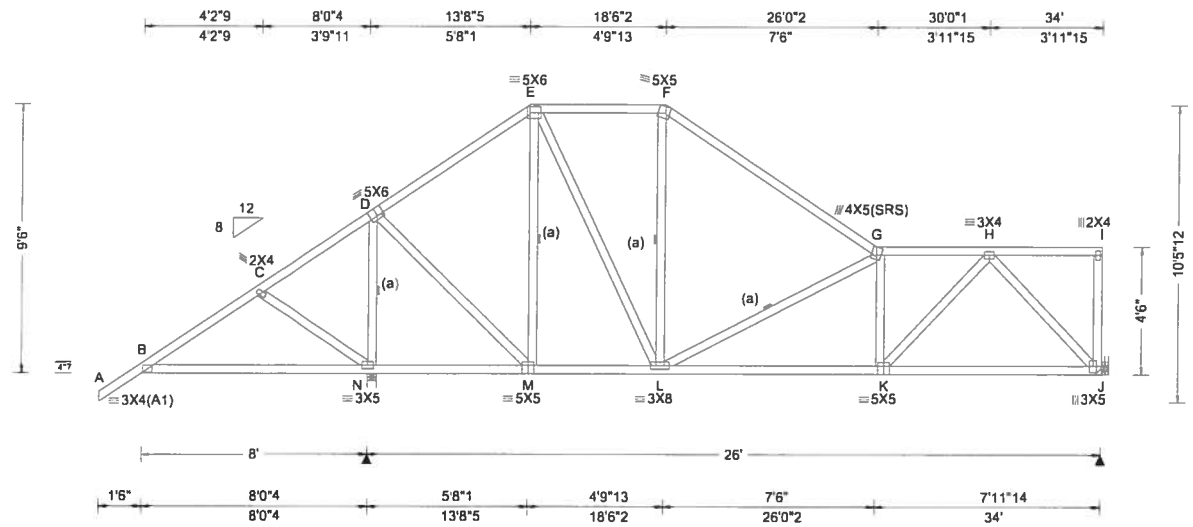
ALPINE
ANITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296477 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** G04	Cust: R 215 JRef: 1WPU2150002 T45 / DrwNo: 305.19.1138.33804 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.24 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.40 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.044	G	999	240
VERT(CL): 0.098	G	999	180
HORZ(LL): 0.012	E	-	-
HORZ(TL): 0.029	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.679
Max BC CSI: 0.847
Max Web CSI: 0.743

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2008	/-	/-	/1242	/10	/278
J	1022	/-	/-	/518	/80	/-

Wind reactions based on MWFRS
N Brg Width = 4.0 Min Req = 2.0
J Brg Width = - Min Req = -
Bearing N is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	598	-237	E - F	250	-652
C - D	830	-245	F - G	231	-915
D - E	170	-565	G - H	302	-1351

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	305	-430	L - K	1381	-312
N - M	185	-591	K - J	808	-195
M - L	388	-49			

Maximum Web Forces Per Ply (lbs)

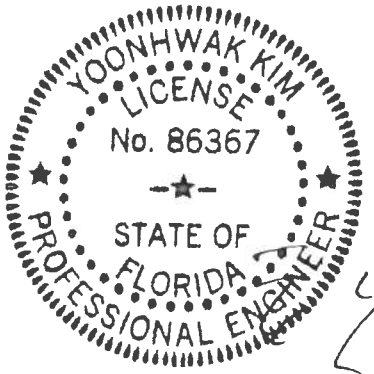
Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - D	426	-1699	L - G	259	-832
D - M	1129	-211	G - K	154	-441
E - M	163	-731	K - H	822	-161
E - L	662	-165	H - J	283	-1173

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Left cantilever is exposed to wind

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 9-6-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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

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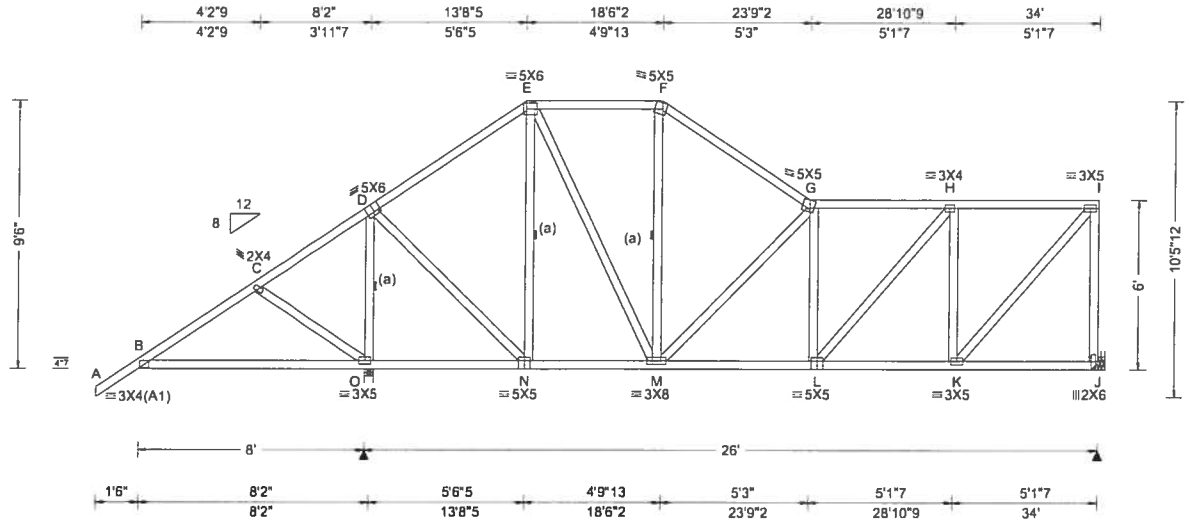
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296474 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** G05	Cust: R 215 JRef: 1WPU2150002 T28 / DrwNo: 305.19.1138.34381 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.24 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.40 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.040	G	999	240
VERT(CL): 0.089	G	999	180
HORZ(LL): 0.011	E	-	-
HORZ(TL): 0.027	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.509
Max BC CSI: 0.480
Max Web CSI: 0.774

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2008	/-	/-	/1255	/26	/264
J	1022	/-	/-	/493	/119	/-

Wind reactions based on MWFRS
O Brg Width = 4.0 Min Req = 2.0
J Brg Width = - Min Req = -
Bearing O is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	598	-237	F - G	240	-856
C - D	831	-245	G - H	257	-1075
D - E	169	-566	H - I	180	-738
E - F	243	-638			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	305	-430	M - L	1088	-262
O - N	140	-592	L - K	775	-191
N - M	391	-72			

Maximum Web Forces Per Ply (lbs)

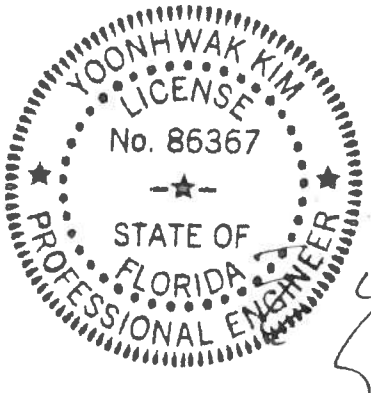
Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - D	423	-1700	L - H	472	-104
D - N	1134	-211	H - K	224	-737
E - N	164	-727	K - I	1123	-273
E - M	624	-148	I - J	273	-982
M - G	203	-657			

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Left cantilever is exposed to wind

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 9-6-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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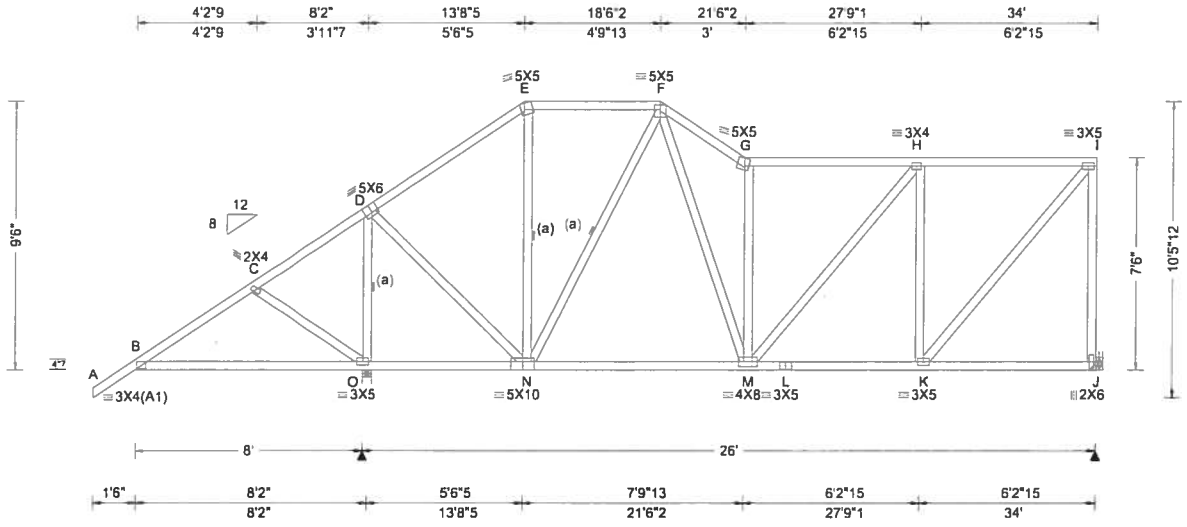
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296480 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** G06	Cust: R 215 JRef: 1WPU2150002 T48 / DrwNo: 305.19.1138.33803 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.24 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.40 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.047	G	999	240
VERT(CL): 0.105	G	999	180
HORZ(LL): -0.012	I	-	-
HORZ(TL): 0.029	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.719
Max BC CSI: 0.551
Max Web CSI: 0.980

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2008	/-	/-	/1271	/49	/250
J	1022	/-	/-	/478	/153	/-

Wind reactions based on MWFRS
O Brg Width = 4.0 Min Req = 2.0
J Brg Width = - Min Req = -
Bearing O is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	599	-236	F - G	330	-1135
C - D	833	-245	G - H	220	-883
D - E	134	-583	H - I	176	-688
E - F	195	-405			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	305	-430	M - L	716	-185
O - N	95	-593	L - K	716	-185
N - M	627	-153			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - D	418	-1708	G - M	279	-857
D - N	1148	-209	H - K	229	-681
N - F	143	-569	K - I	1065	-272
F - M	844	-225	I - J	284	-973

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

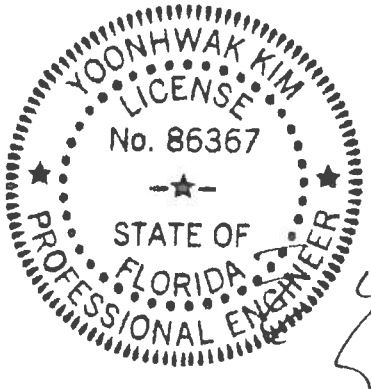
Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 9-6-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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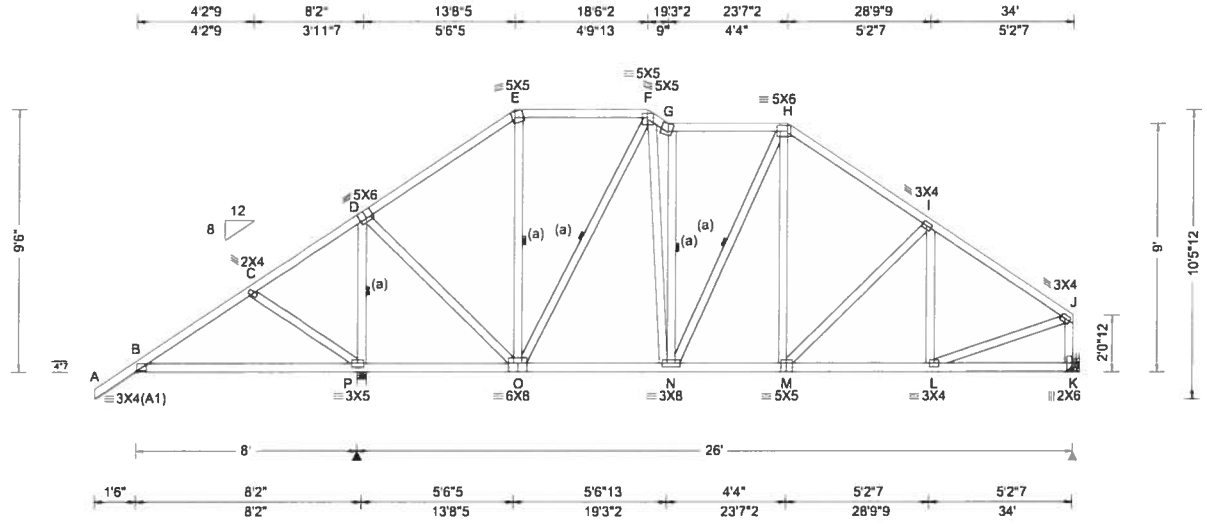
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296643 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** G07	Cust: R 215 JRef: 1WPU2150002 T46 DrwNo: 305.19.1318.56890 / YK 11/01/2019	



Loading Criteria (psf)
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 Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.40 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.034	G	999	240
VERT(CL): 0.070	G	999	180
HORZ(LL): -0.007	I	-	-
HORZ(TL): 0.016	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.502
Max BC CSI: 0.449
Max Web CSI: 0.434

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	2008	/-	/-	/1409	/141	/262
K	953	/-	/-	/613	/37	/-

Wind reactions based on MWFRS
P Brg Width = 4.0 Min Req = 2.0
K Brg Width = - Min Req = -
Bearing P is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	598	-434	G - H	330	-574
C - D	829	-453	H - I	354	-861
D - E	272	-398	I - J	294	-1001
F - G	386	-643			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	456	-491	N - M	633	-104
P - O	438	-561	M - L	774	-178
O - N	519	-91			

Maximum Web Forces Per Ply (lbs)

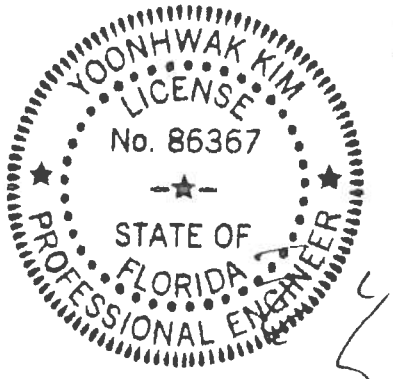
Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - D	563	-1701	G - N	236	-405
D - O	1140	-337	L - J	792	-175
O - F	220	-601	J - K	261	-910
F - N	631	-229			

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Left cantilever is exposed to wind

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 9-6-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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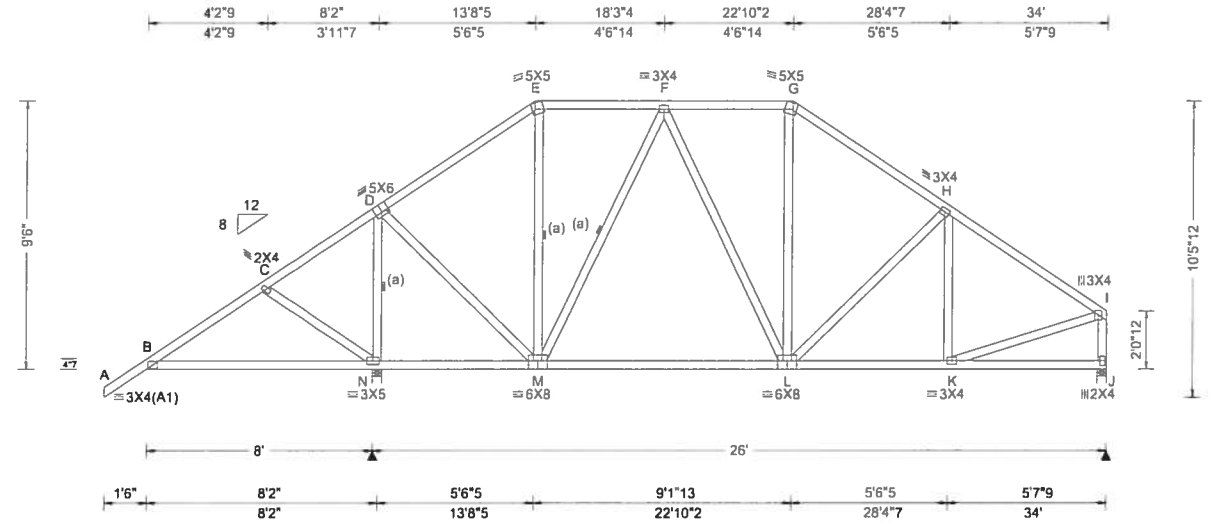
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296492 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** H01	Cust: R 215 JRef: 1WPU2150002 T29 / DrwNo: 305.19.1138.33976 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.40 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.028	N	999	240
VERT(CL): 0.062	N	999	180
HORZ(LL): -0.006	C	-	-
HORZ(TL): 0.015	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.507
Max BC CSI: 0.677
Max Web CSI: 0.438

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2008	/-	/-	/1266	/-	/286
J	1022	/-	/-	/624	/-	/-

Wind reactions based on MWFRS
N Brg Width = 4.0 Min Req = 2.0
J Brg Width = 4.0 Min Req = 1.5
Bearings N & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	601	-235	F - G	188	-695
C - D	833	-243	G - H	157	-940
D - E	91	-585	H - I	138	-1097
E - F	151	-407			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	304	-431	M - L	618	0
N - M	261	-594	L - K	849	-41

Maximum Web Forces Per Ply (lbs)

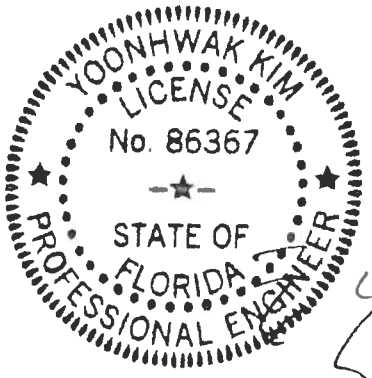
Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - D	316	-1713	K - I	858	-31
D - M	1149	-122	I - J	129	-973
M - F	56	-570			

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Left cantilever is exposed to wind

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 9-6-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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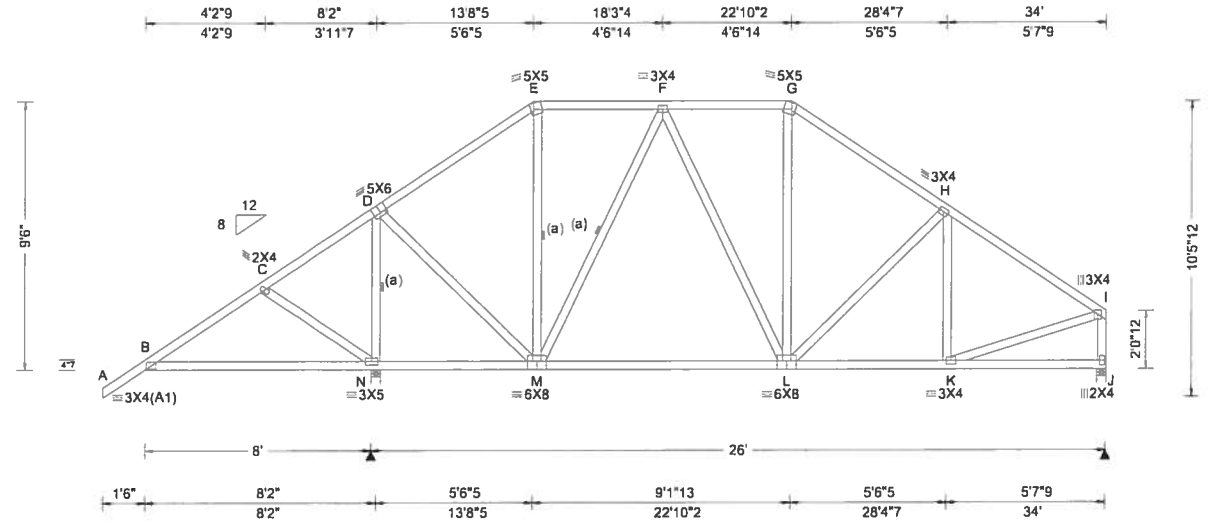
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296489 / HIPS FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** H02	Cust: R 215 JRef: 1WPU2150002 T3 / DrwNo: 305.19.1138.34209 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.69 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.40 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.028	N	999	240
VERT(CL): 0.062	N	999	180
HORZ(LL): -0.006	C	-	-
HORZ(TL): 0.015	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.507
Max BC CSI: 0.677
Max Web CSI: 0.438

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2008	/-	/-	/1256	/-	/322
J	1022	/-	/-	/615	/-	/-

Wind reactions based on MWFRS
N Brg Width = 4.0 Min Req = 2.0
J Brg Width = 4.0 Min Req = 1.5
Bearings N & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	601	-238	F - G	212	-695
C - D	833	-247	G - H	139	-940
D - E	101	-585	H - I	123	-1097
E - F	127	-407			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	307	-431	M - L	618	-6
N - M	215	-594	L - K	849	-31

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - D	307	-1713	K - I	858	-24
D - M	1149	-115	I - J	118	-973
M - F	78	-570			

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 9-6-0.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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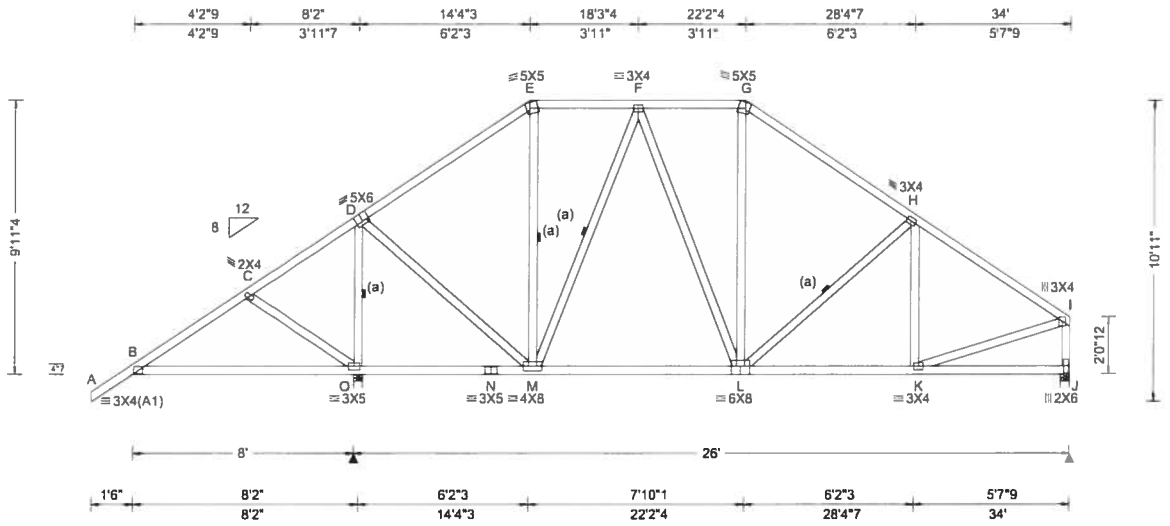
For more information see this job's general notes page and these web sites. ALPINE: www.alpineitw.com; TPI: www.tpinst.org, SBCA: www.sbcindustry.com, ICC: www.iccsafe.org

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

SEQN: 296495 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** H03	Cust: R 215 JRef: 1WPU2150002 T18 / DrwNo: 305.19.1138.33710 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.40 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.029	O	999	240
VERT(CL): 0.063	O	999	180
HORZ(LL): -0.007	C	-	-
HORZ(TL): 0.015	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.587
Max BC CSI: 0.565
Max Web CSI: 0.431

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2008	/-	/-	/1413	/275	/275
J	1022	/-	/-	/617	/163	/-

Wind reactions based on MWFRS
O Brg Width = 4.0 Min Req = 2.0
J Brg Width = 4.0 Min Req = 1.5
Bearings O & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	601	-440	F - G	315	-666
C - D	831	-458	G - H	330	-917
D - E	265	-629	H - I	284	-1103
E - F	276	-432			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	463	-496	M - L	588	-58
O - N	437	-590	L - K	856	-165
N - M	437	-590			

Maximum Web Forces Per Ply (lbs)

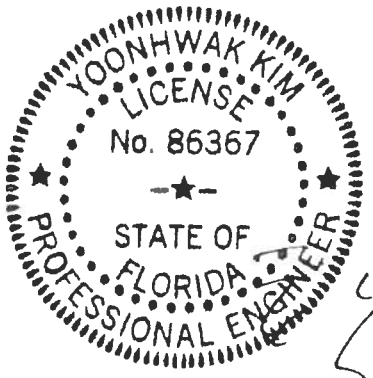
Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - D	555	-1707	K - I	868	-160
D - M	1131	-320	I - J	249	-976
M - F	186	-508			

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Left cantilever is exposed to wind

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 9-11-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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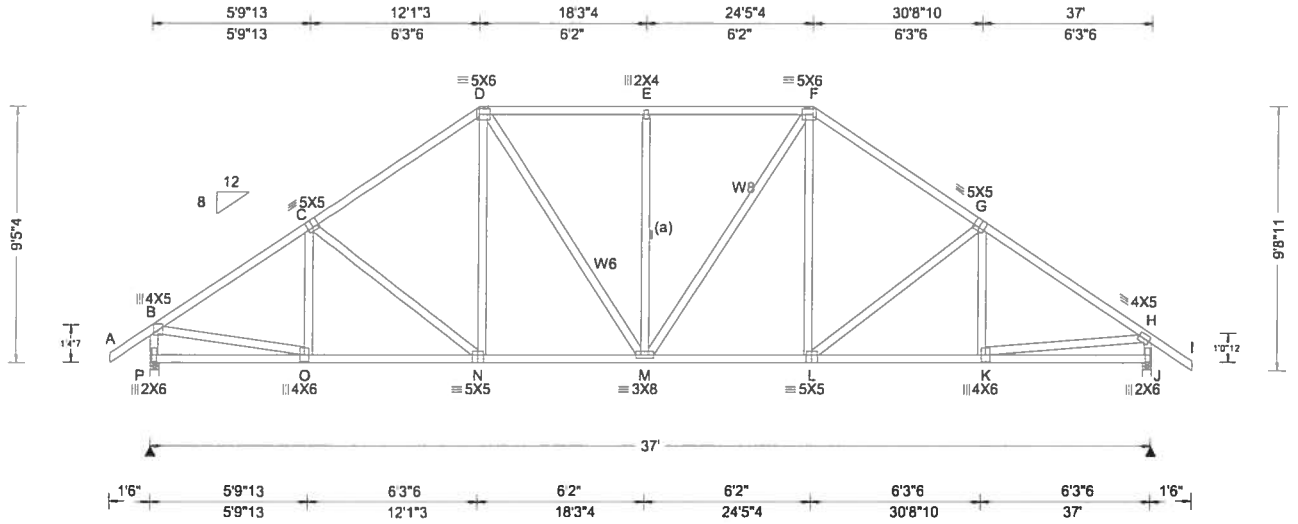
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296498 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** H04	Cust: R 215 JRef: 1WPU2150002 T26 / DrwNo: 305.19.1138.34006 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.70 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.086	E	999	240
VERT(CL): 0.177	E	999	180
HORZ(LL): 0.032	H	-	-
HORZ(TL): 0.066	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.570
Max BC CSI: 0.644
Max Web CSI: 0.616

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	1658	/-	/-	/996	/284	/294
J	1658	/-	/-	/1003	/283	/-

Wind reactions based on MWFRS
P Brg Width = 4.0 Min Req = 2.0
J Brg Width = 4.0 Min Req = 2.0
Bearings P & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	471	-1988	E - F	523	-1593
C - D	517	-1803	F - G	523	-1836
D - E	523	-1593	G - H	492	-2123

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	1582	-267	M - L	1430	-188
N - M	1404	-176	L - K	1684	-305

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - P	442	-1609	F - L	401	-75
B - O	1564	-283	K - H	1618	-285
E - M	151	-398	H - J	440	-1604

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W6,W8 2x4 SP #2;

Bracing
(a) Continuous lateral restraint equally spaced on 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 9-5-4.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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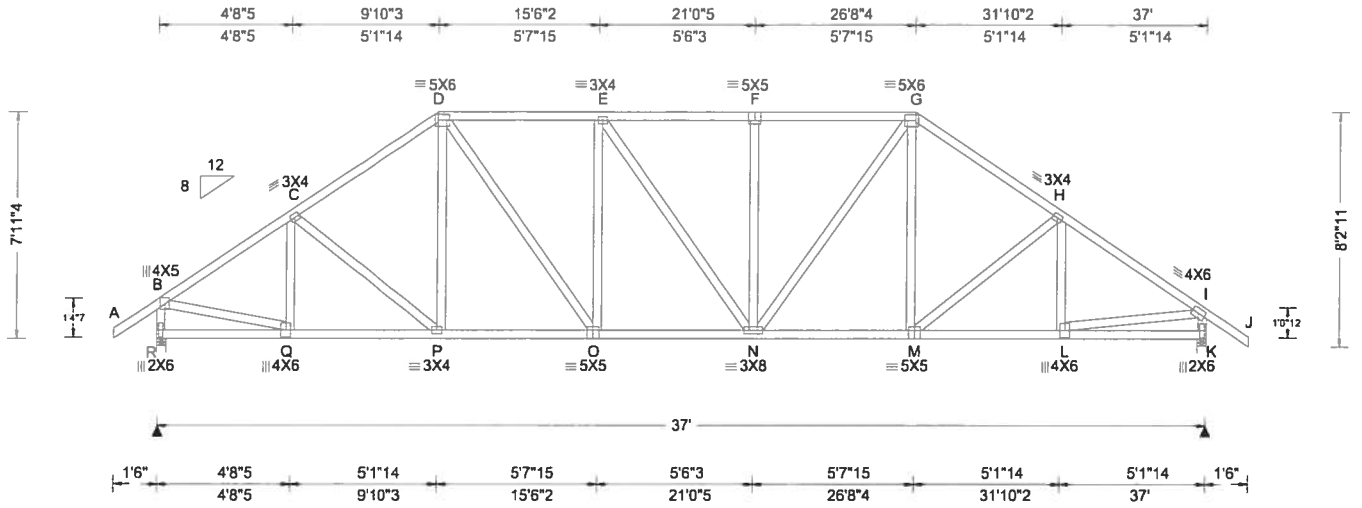
For more information see this job's general notes page and these web sites. ALPINE. www.alpineitw.com, TPI: www.tpinst.org, SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 296501 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** H05	Cust: R 215 JRef: 1WPU2150002 T19 / DrwNo: 305.19.1138.34551 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.70 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	F	999	240
VERT(CL): 0.199	F	999	180
HORZ(LL): 0.035	K	-	-
HORZ(TL): 0.073	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.356
Max BC CSI: 0.567
Max Web CSI: 0.624

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	1658	/-	/-	/981	/288	/250
K	1658	/-	/-	/989	/288	/-

Wind reactions based on MWFRS
R Brg Width = 4.0 Min Req = 2.0
K Brg Width = 4.0 Min Req = 2.0
Bearings R & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	471	-1919	F - G	574	-1862
C - D	532	-1879	G - H	543	-1932
D - E	570	-1839	H - I	500	-2089
E - F	574	-1862			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1543	-280	N - M	1529	-243
P - O	1487	-227	M - L	1672	-326
O - N	1852	-322			

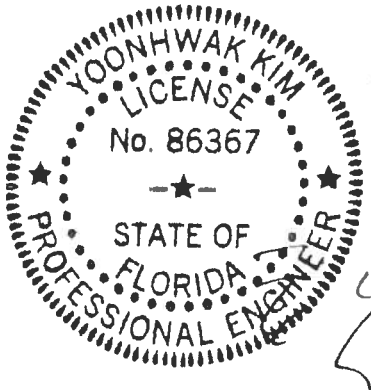
Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - R	452	-1617	N - G	558	-145
B - Q	1550	-304	L - I	1637	-316
D - O	599	-153	I - K	450	-1612
O - E	142	-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 7-11-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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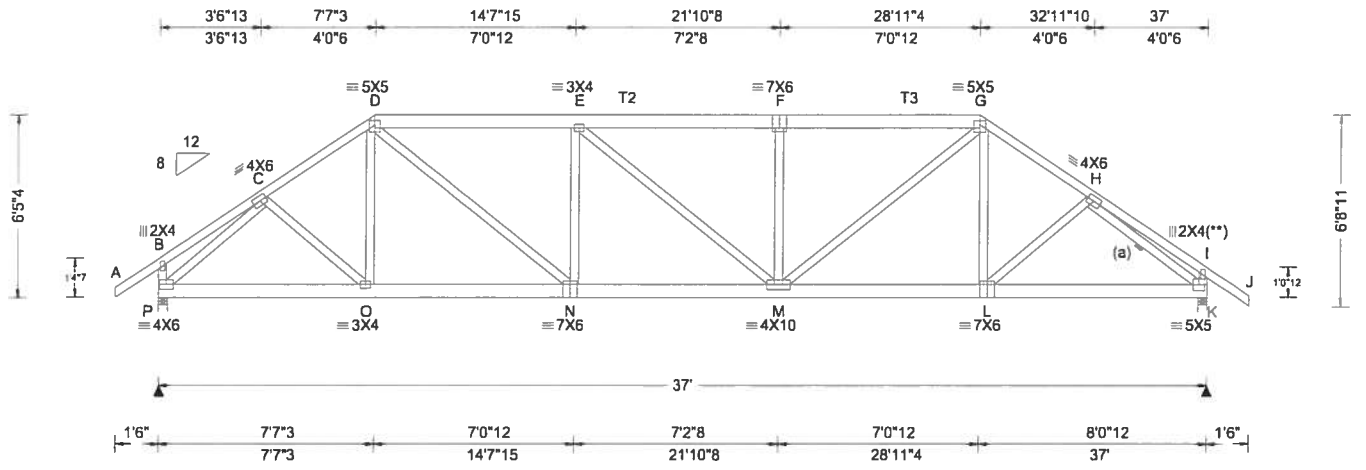
For more information see this job's general notes page and these web sites. ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 296506 / HIPS FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** H06	Cust: R 215 JRef: 1WPU2150002 T38 / DrwNo: 305.19.1138.34365 / YK 11/01/2019

2 Complete Trusses Required



Loading Criteria (psf)
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 Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.70 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.118	F	999	240
VERT(CL): 0.239	F	999	180
HORZ(LL): 0.041	I	-	-
HORZ(TL): 0.082	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.300
Max BC CSI: 0.292
Max Web CSI: 0.957

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	4059	/-	/-	/-	/47	/-
K	4025	/-	/-	/-	/50	/-

Wind reactions based on MWFRS
P Brg Width = 4.0 Min Req = 1.7
K Brg Width = 4.0 Min Req = 1.7
Bearings P & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-2803	F - G	0	-3479
D - E	0	-3422	G - H	0	-2934
E - F	0	-3478			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	2006	0	M - L	2412	0
O - N	2310	0	L - K	2241	0
N - M	3450	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - C	0	-2721	F - M	8	-548
C - O	415	0	M - G	1399	0
D - N	1472	0	H - K	0	-2836
N - E	7	-593			

Lumber

Top chord: 2x4 SP #2; T2,T3 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Nailnote

Nail Schedule:0.128"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	64 plf at	-1.50 to	64 plf at	7.60
TC: From	32 plf at	7.60 to	32 plf at	28.94
TC: From	64 plf at	28.94 to	64 plf at	38.50
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	7.63
BC: From	10 plf at	7.63 to	10 plf at	28.91
BC: From	20 plf at	28.91 to	20 plf at	37.00
BC: From	5 plf at	37.00 to	5 plf at	38.50

TC: 216 lb Conc. Load at 7.66, 9.66,11.66,13.66 15.66,17.66,18.87,20.87,22.87,24.87,26.87,28.87
BC: 691 lb Conc. Load at 7.63
BC: 164 lb Conc. Load at 9.66,11.66,13.66,15.66 17.66,18.87,20.87,22.87,24.87,26.87
BC: 735 lb Conc. Load at 28.91

Plating Notes

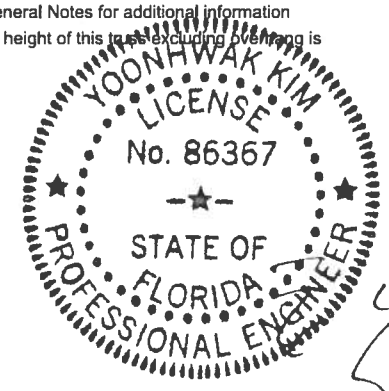
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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 6-5-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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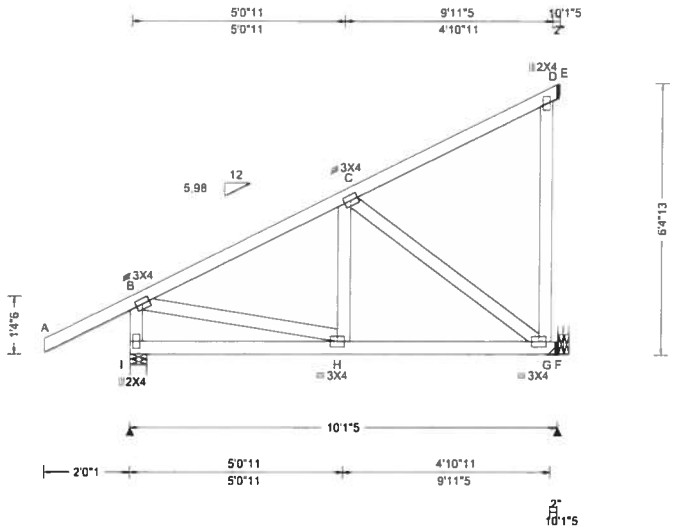
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 618290 / HIP_ FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** HJ3	Cust: R 215 JRef: 1WPU2150002 T43 / DrwNo: 305.19.1138.34474 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.013	H	999	240
VERT(CL): 0.025	H	999	180
HORZ(LL): 0.003	C	-	-
HORZ(TL): 0.006	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.740
Max BC CSI: 0.735
Max Web CSI: 0.402

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+ / R-	/ Rh		/ Rw	/ U	/ RL
I	417 /-	/-		/-	/153	/-
F	526 /-	/-		/6	/-	/-

Wind reactions based on MWFRS
I Brg Width = 4.7 Min Req = 1.5
F Brg Width = - Min Req = -
Bearing I is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	83	-542

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
H - G	479	-31

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - I	158	-401	C - G	39	-599
B - H	515	-12			

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 -2.01 to 62 plf at 0.00
TC: From 2 plf at 0.00 to 2 plf at 10.11
BC: From 0 plf at -2.01 to 4 plf at 0.00
BC: From 2 plf at 0.00 to 2 plf at 10.11
TC: -29 lb Conc. Load at 1.10
TC: 5 lb Conc. Load at 2.11
TC: 73 lb Conc. Load at 4.11
TC: 88 lb Conc. Load at 4.79
TC: 156 lb Conc. Load at 7.13
TC: 154 lb Conc. Load at 7.46
BC: 17 lb Conc. Load at 1.10
BC: 33 lb Conc. Load at 2.11
BC: 62 lb Conc. Load at 4.11
BC: 68 lb Conc. Load at 4.79
BC: 107 lb Conc. Load at 7.13
BC: 104 lb Conc. Load at 7.46

Wind
Wind loads and reactions based on MWFRS.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 6-4-13.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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

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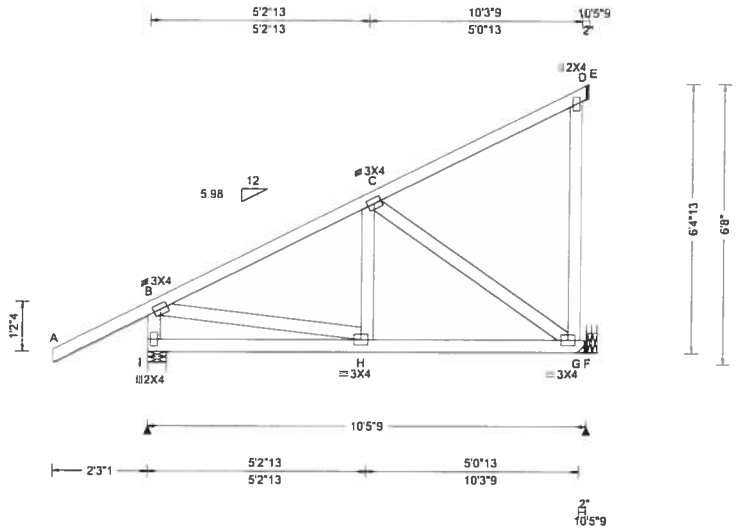
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, 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: 618291 / HIP_ FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** HJ4	Cust: R 215 JRef: 1WPU2150002 T31 / DrwNo: 305.19.1138.33553 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.015	H	999	240
VERT(CL): 0.030	H	999	180
HORZ(LL): 0.003	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.832
Max BC CSI: 0.820
Max Web CSI: 0.461

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+ / R-	/ Rh		/ Rw	/ U	/ RL
I	464 /-	/-		/-	/110	/-
F	571 /-	/-		/13	/-	/-

Wind reactions based on MWFRS
I Brg Width = 5.2 Min Req = 1.5
F Brg Width = - Min Req = -
Bearing I is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	56	-624

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
H - G	545	-22

Maximum Web Forces Per Ply (lbs)

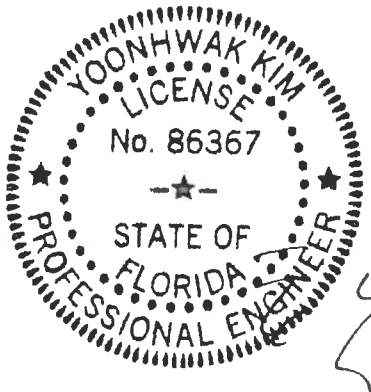
Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - I	115	-448	C - G	27	-667
B - H	583	-4			

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 -2.26 to 62 plf at 0.00
TC: From 2 plf at 0.00 to 2 plf at 10.47
BC: From 0 plf at -2.26 to 4 plf at 0.00
BC: From 2 plf at 0.00 to 2 plf at 10.47
TC: -10 lb Conc. Load at 1.46
TC: 5 lb Conc. Load at 2.47
TC: 91 lb Conc. Load at 4.47
TC: 88 lb Conc. Load at 5.14
TC: 172 lb Conc. Load at 7.48
TC: 154 lb Conc. Load at 7.82
BC: 26 lb Conc. Load at 1.46
BC: 33 lb Conc. Load at 2.47
BC: 71 lb Conc. Load at 4.47
BC: 68 lb Conc. Load at 5.14
BC: 116 lb Conc. Load at 7.48
BC: 104 lb Conc. Load at 7.82

Wind
Wind loads and reactions based on MWFRS.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 6-4-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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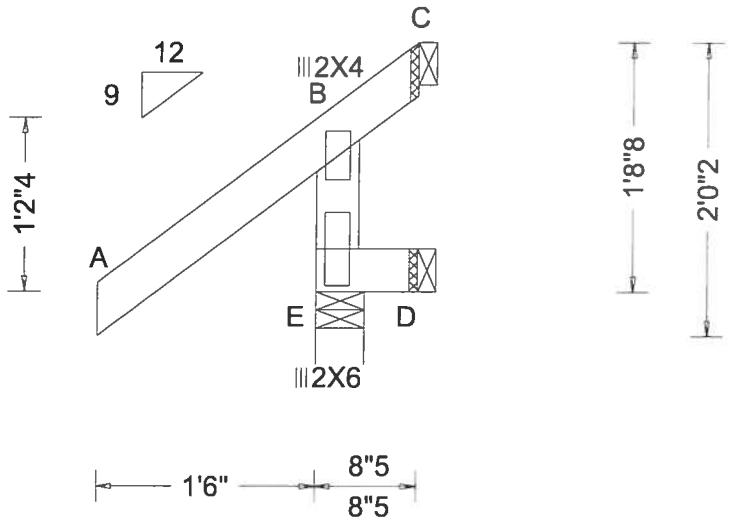
For more information see this job's general notes page and these web sites. ALPINE: www.alpineitw.com, TPI: www.tpinst.org, SBCA: www.sbcindustry.com, ICC: www.iccsafe.org

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

SEQN: 296411 / JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J1	Cust: R 215 JRef: 1WPU2150002 T11 / DrwNo: 305.19.1138.34022 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.192
Max BC CSI: 0.005
Max Web CSI: 0.097

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	248	/-	/-	/267	/102	/-
D	14	/-	/-	/9	/-	/-
C	-	/-91	/-	/80	/143	/46

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

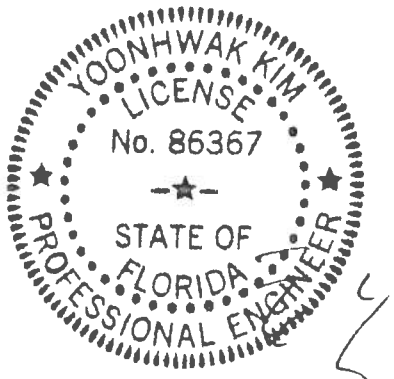
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1-8-8.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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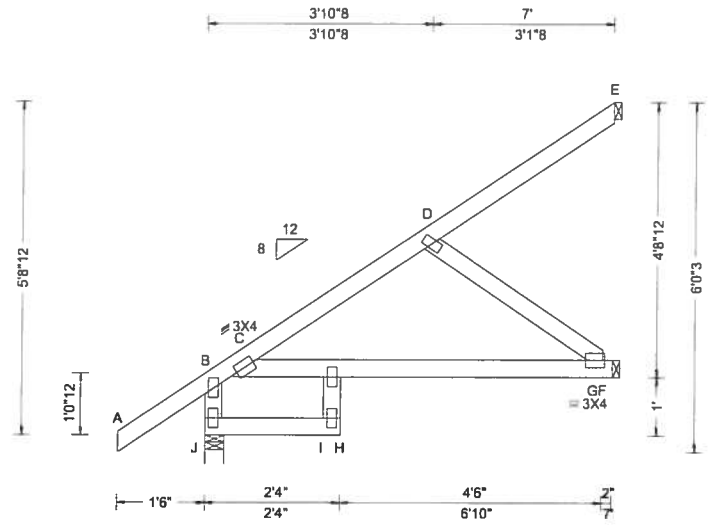
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296652 EJAC FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J10		Cust: R 215 JRef: 1WPU2150002 T13 DrwNo: 305.19.1319.03540 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.045	H	999	240
VERT(CL): 0.158	H	532	180
HORZ(LL): -0.057	J	-	-
HORZ(TL): 0.071	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.248
Max BC CSI: 0.488
Max Web CSI: 0.231

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
J	408	/-	/-	/285	/13	/161
F	209	/-	/-	/177	/71	/-
E	75	/-	/-	/43	/34	/-

Wind reactions based on MWFRS
J Brg Width = 4.0 Min Req = 1.5
F Brg Width = 1.5 Min Req = -
E Brg Width = 1.5 Min Req = -
Bearing J is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - J	150	-384

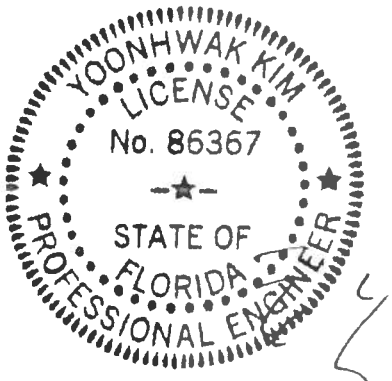
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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
The overall height of this truss excluding overhang is 5-8-12.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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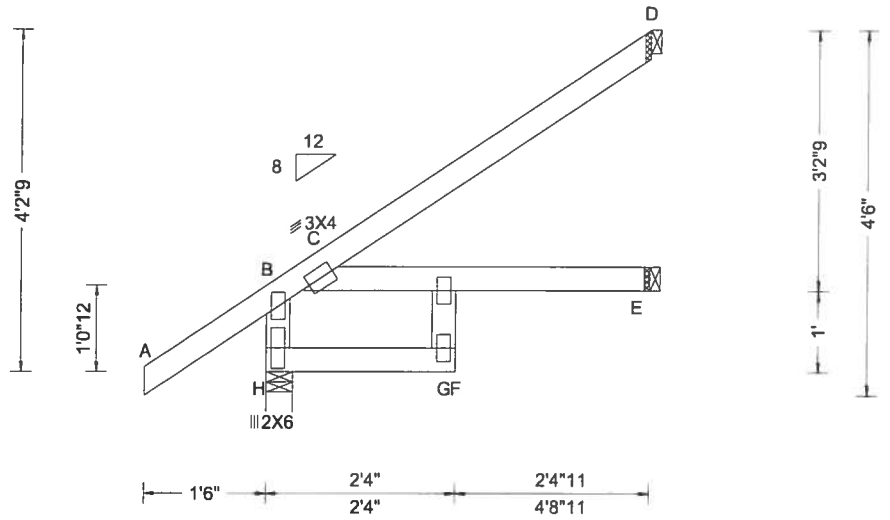
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296432 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J11	Cust: R 215 JRef: 1WPU2150002 T6 / DrwNo: 305.19.1138.33726 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.017	F	999	240
VERT(CL): 0.049	F	999	180
HORZ(LL): -0.007	H	-	-
HORZ(TL): 0.019	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.324
Max BC CSI: 0.222
Max Web CSI: 0.071

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	204	/-	/-	/208	/88	/-
E	91	/-	/268	/63	/-	/138
D	294	/-	/268	/158	/65	/188

Wind reactions based on MWFRS
H Brg Width = 4.0 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

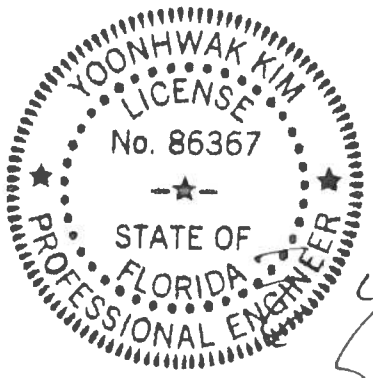
Chords	Tens.	Comp.
C - D	386	- 162

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

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
The maximum horizontal reaction is 268#
The overall height of this truss excluding overhang is 4-2-9.
Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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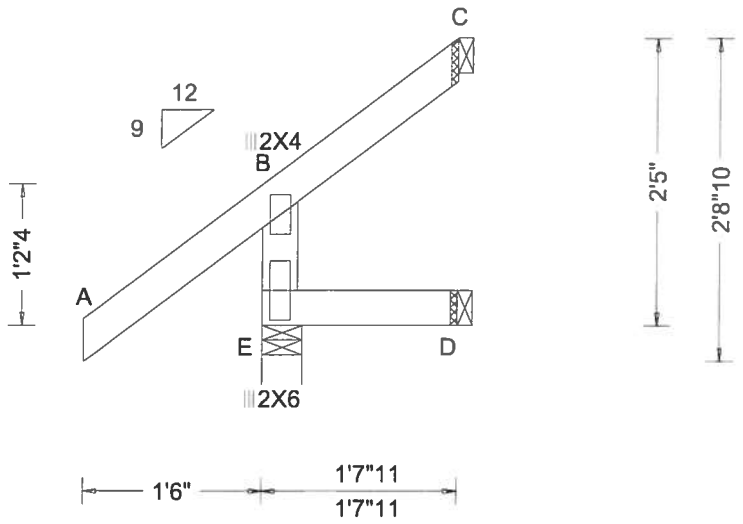
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 618274 / JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J12	Cust: R 215 JRef: 1WPU2150002 T37 / DrwNo: 305.19.1138.33741 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.192
Max BC CSI: 0.029
Max Web CSI: 0.079

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	223	/-	/-	/228	/89	/-
D	33	/-	/-	/22	/-	/-
C	5	/0	/-	/58	/60	/66

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

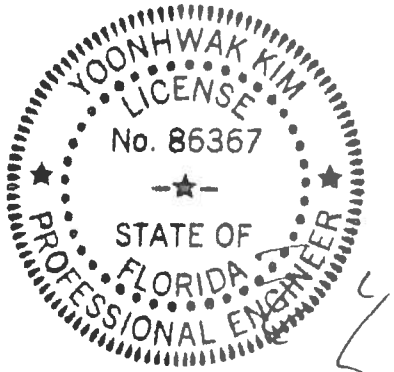
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-5-0.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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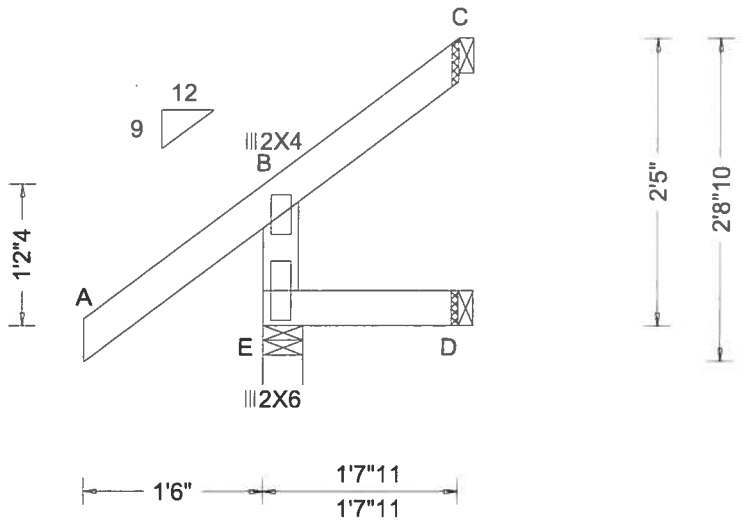
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com, TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 618274 / JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J12	Cust: R 215 JRef: 1WPU2150002 T37 / DrwNo: 305.19.1138.33741 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.192
Max BC CSI: 0.029
Max Web CSI: 0.079

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	223	/-	/-	/228	/89	/-
D	33	/-	/-	/22	/-	/-
C	5	/0	/-	/58	/60	/66

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

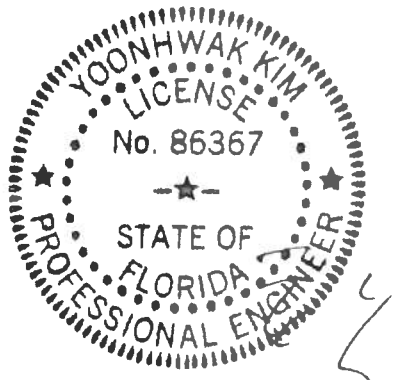
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-5-0.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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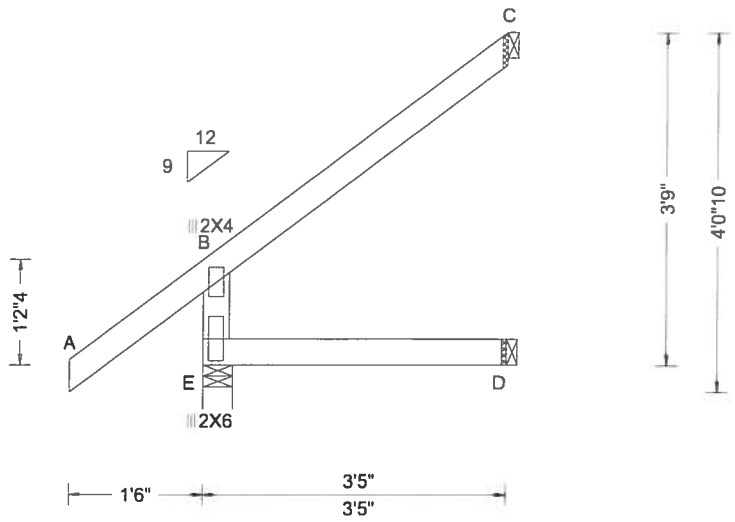
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 618275 / JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J13	Cust: R 215 JRef: 1WPU2150002 T36 / DrwNo: 305.19.1138.34147 / YK 11/01/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
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: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** 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 B 999 240 VERT(CL): 0.000 B 999 180 HORZ(LL): -0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.208 Max BC CSI: 0.145 Max Web CSI: 0.083 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	273	/-	/-	/261	/105	/-
D	68	/-	/-	/46	/-	/-
C	88	/-	/-	/71	/22	/104

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

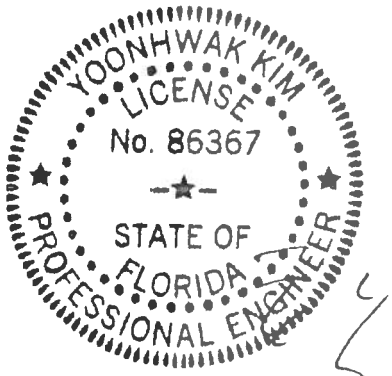
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 3-9-0.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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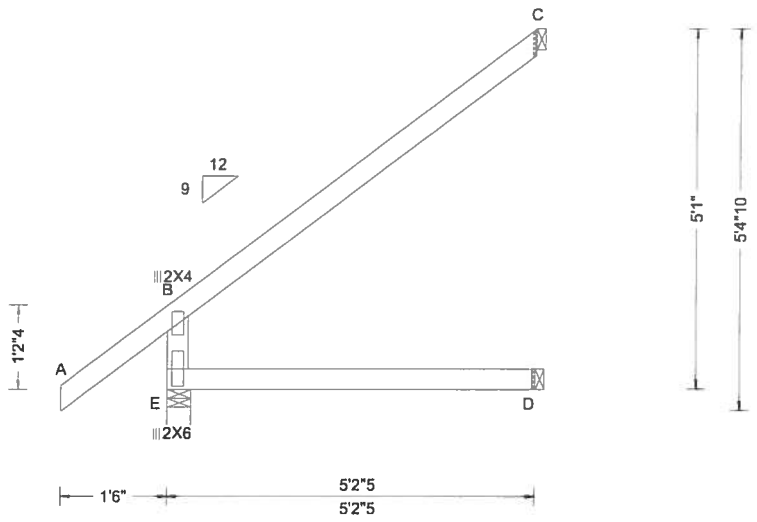
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 618276 / JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J14	Cust: R 215 JRef: 1WPU2150002 T35 / DrwNo: 305.19.1138.33992 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): -0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.452
Max BC CSI: 0.334
Max Web CSI: 0.092

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	341	/-	/-	/313	/127	/-
D	104	/-	/-	/69	/-	/-
C	154	/-	/-	/89	/-	/143

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

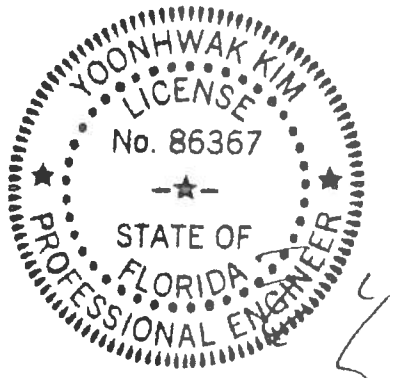
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 5-1-0.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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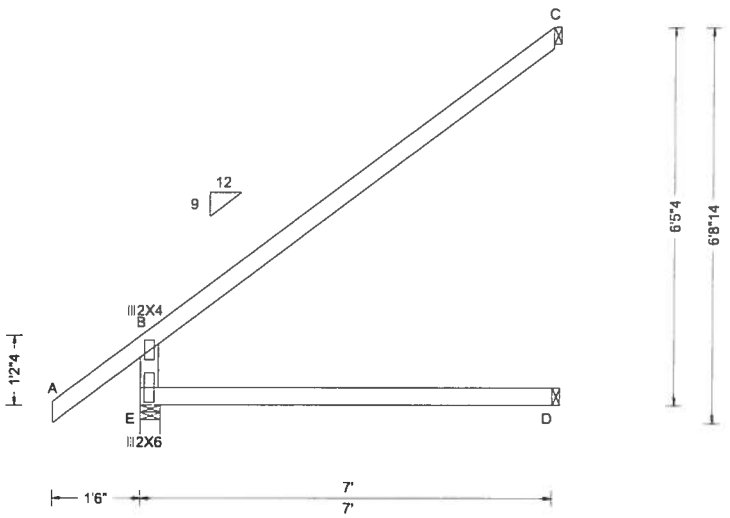
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 618277 / EJAC FROM: CDM	Ply: 1 Qty: 12	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J15	Cust: R 215 JRef: 1WPU2150002 T42 / DrwNo: 305.19.1138.33570 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.001	B	999	180
HORZ(LL): -0.002	B	-	-
HORZ(TL): 0.002	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.941
Max BC CSI: 0.607
Max Web CSI: 0.099

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	439	/-	/-	/370	/152	/-
D	164	/-	/-	/94	/-	/-
C	216	/-	/-	/109	/-	/181

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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;

Loading

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

Wind

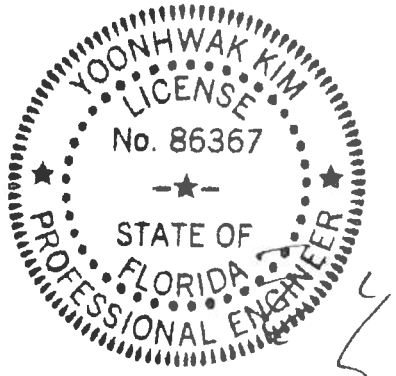
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 6-5-4.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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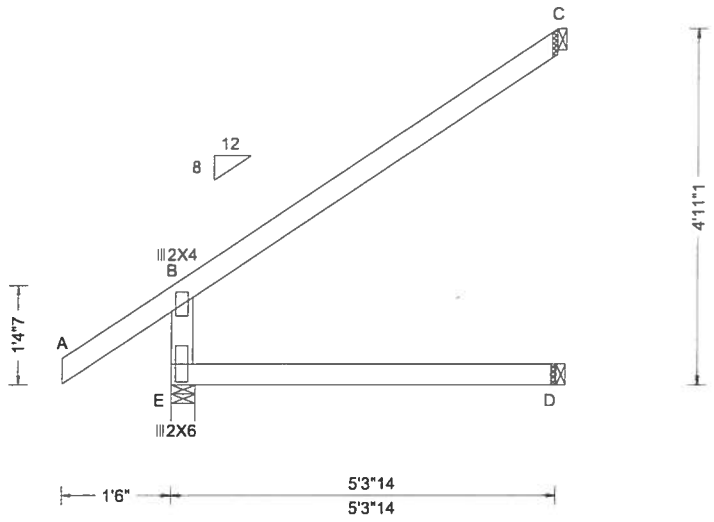
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 618281 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J16	Cust: R 215 JRef: 1WPU2150002 T32 / DrwNo: 305.19.1138.33447 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.001	B	999	180
HORZ(LL): -0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.472
Max BC CSI: 0.351
Max Web CSI: 0.085

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	342	/-	/-	/294	/117	/-
D	107	/-	/-	/71	/-	/-
C	156	/-	/-	/80	/-	/129

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

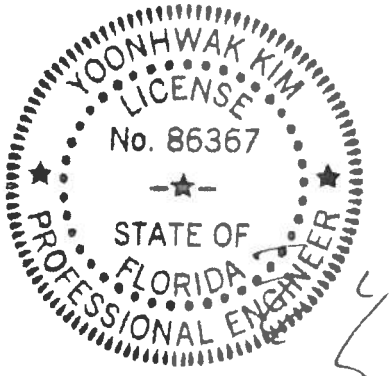
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-11-1.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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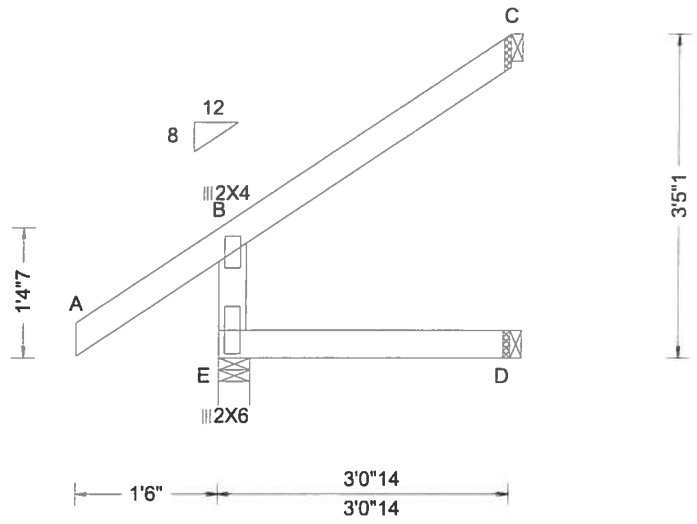
For more information see this job's general notes page and these web sites. ALPINE: www.alpineitw.com, TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 618282 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J17	Cust: R 215 JRef: 1WPU2150002 T33 / DrwNo: 305.19.1138.34286 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): -0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.191
Max BC CSI: 0.116
Max Web CSI: 0.075

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	258	/-	/-	/233	/91	/-
D	62	/-	/-	/41	/-	/-
C	73	/-	/-	/60	/18	/86

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

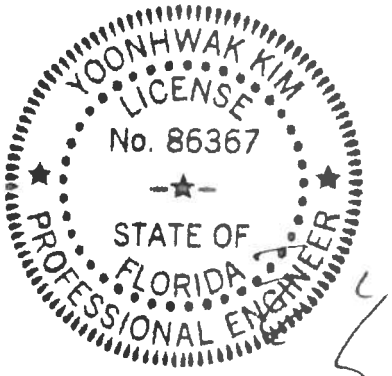
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

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

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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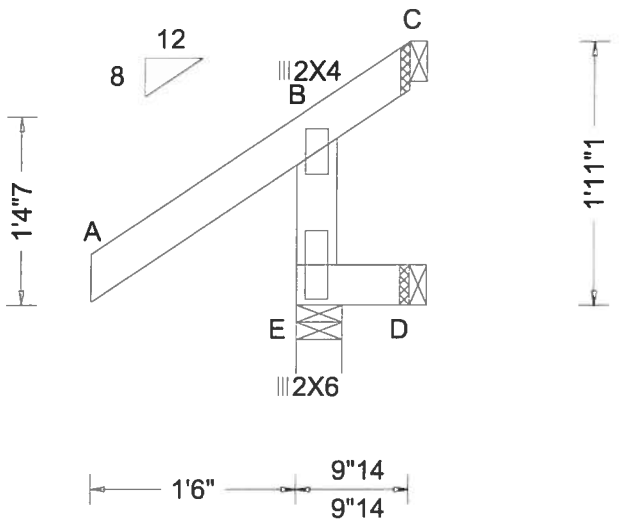
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 618283 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J18	Cust: R 215 JRef: 1WPU2150002 T34 / DrwNo: 305.19.1138.34037 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.187
Max BC CSI: 0.007
Max Web CSI: 0.084

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	232	/-	/-	/231	/90	/-
D	17	/-	/-	/11	/-	/-
C	-	/-67	/-	/66	/106	/43

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

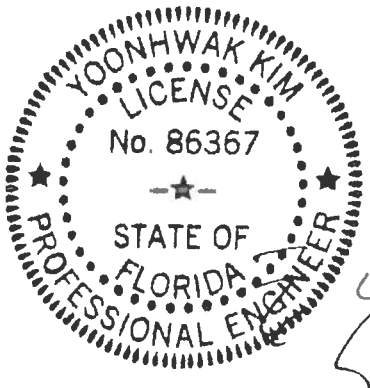
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1-11-1.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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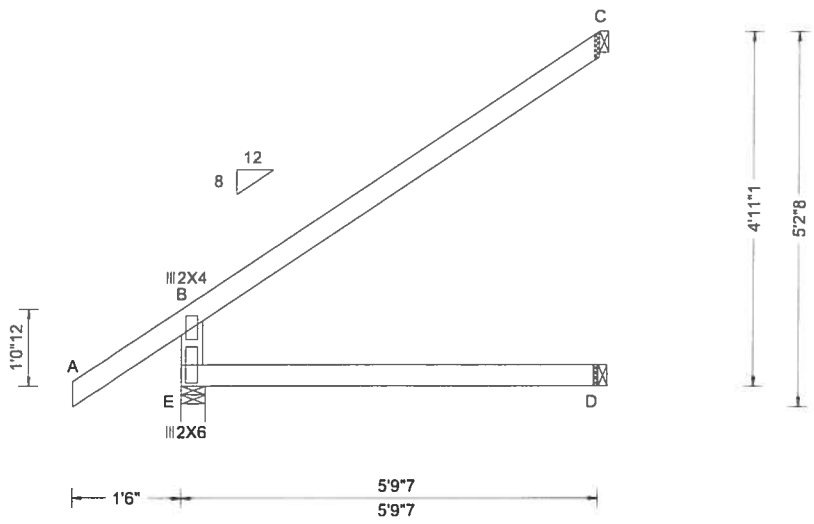
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 618280 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J19	Cust: R 215 JRef: 1WPU2150002 T39 / DrwNo: 305.19.1138.33537 / YK 11/01/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
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: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** 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 B 999 240 VERT(CL): 0.000 B 999 180 HORZ(LL): -0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.581 Max BC CSI: 0.415 Max Web CSI: 0.087 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	360	/-	/-	/307	/122	/-
D	116	/-	/-	/77	/-	/-
C	172	/-	/-	/84	/-	/138

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

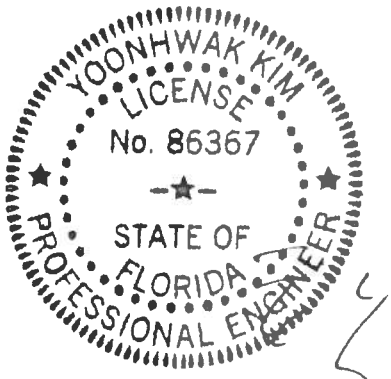
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-11-1.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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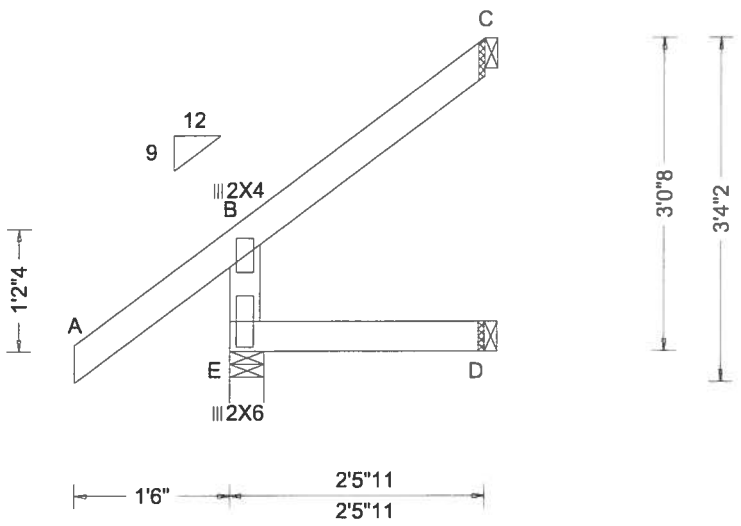
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296414 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J2	Cust: R 215 JRef: 1WPU2150002 T10 / DrwNo: 305.19.1138.34117 / YK 11/01/2019



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):	0.000 B	999	240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.000 B	999	180	E	242	/-	/-	/239	/94	/-
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	0.000 B	-	-	D	49	/-	/-	/33	/-	/-
Des Ld:	40.00	EXP: C Kzt: NA	**Code / Misc Criteria**	HORZ(TL):	0.001 B	-	-	C	48	/-	/-	/63	/38	/84
NCBCLL:	10.00	Mean Height: 15.00 ft	Bldg Code: FBC 2017 RES	Creep Factor: 2.0				Wind reactions based on MWFRS						
Soffit:	2.00	TCDL: 5.0 psf	TPI Std: 2014	Max TC CSI:	0.206			E Brg Width = 4.0 Min Req = 1.5						
Load Duration:	1.25	BCDL: 5.0 psf	Rep Fac: Yes	Max BC CSI:	0.073			D Brg Width = 1.5 Min Req = -						
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)	Max Web CSI:	0.079			C Brg Width = 1.5 Min Req = -						
		C&C Dist a: 3.00 ft	Plate Type(s):					Bearing E is a rigid surface.						
		Loc. from endwall: not in 4.50 ft	WAVE	VIEW Ver: 18.02.01B.0321.08				Members not listed have forces less than 375#						
		GCpi: 0.18												
		Wind Duration: 1.60												

Lumber

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

Wind

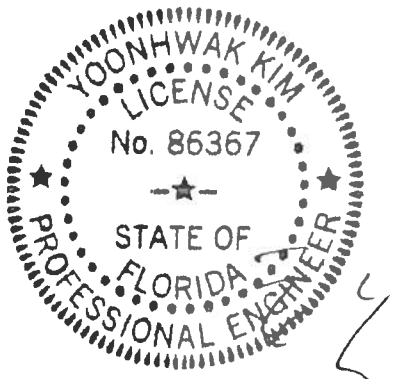
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 3-0-8.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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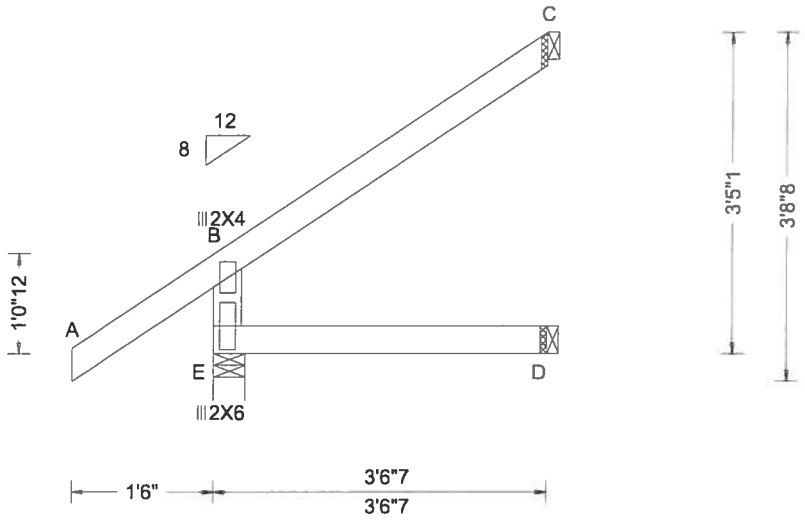
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 618279 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J20	Cust: R 215 JRef: 1WPU2150002 T40 / DrwNo: 305.19.1138.34334 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): -0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.204
Max BC CSI: 0.154
Max Web CSI: 0.077

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	274	/-	/-	/244	/96	/-
D	71	/-	/-	/47	/-	/-
C	91	/-	/-	/63	/11	/95

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

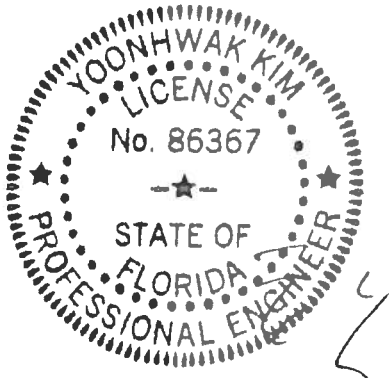
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

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

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278. Yoonhwak Kim, FL PE #86367
11/01/2019

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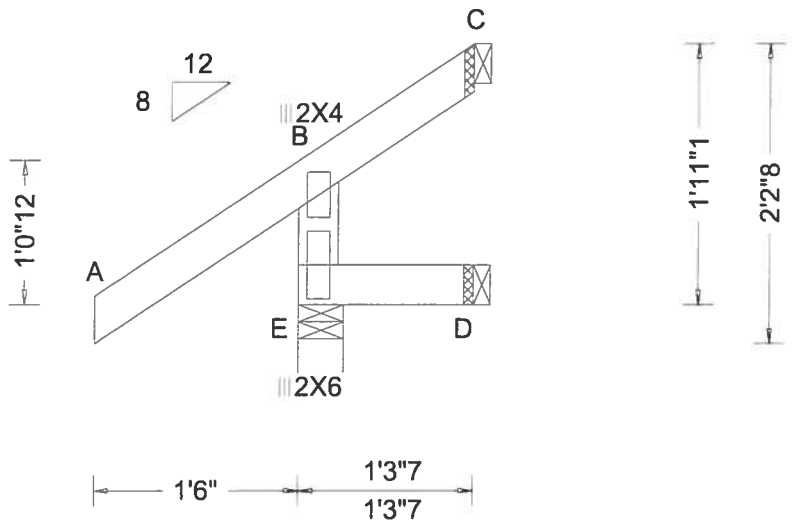
For more information see this job's general notes page and these web sites. ALPINE. www.alpineitw.com, TPI: www.tpinst.org, SBCA. www.sbcindustry.com, ICC. www.iccsafe.org

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

SEQN: 618278 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J21	Cust: R 215 JRef: 1WPU2150002 T41 / DrwNo: 305.19.1138.34162 / YK 11/01/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
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: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** 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 B 999 240 VERT(CL): 0.000 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.187 Max BC CSI: 0.018 Max Web CSI: 0.075 VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	218	/-	/-	/212	/81	/-
D	26	/-	/-	/17	/-	/-
C	-	/-19	/-	/53	/65	/52

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

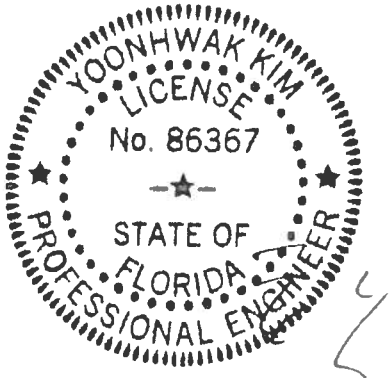
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1-11-1.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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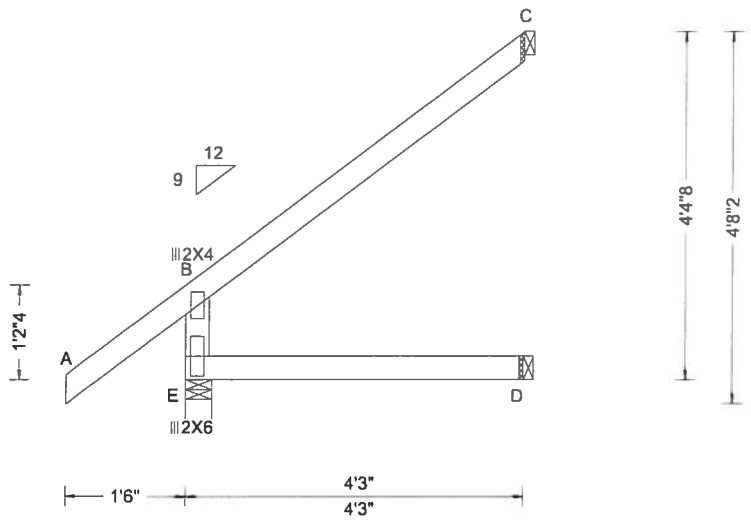
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296417 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J3	Cust: R 215 JRef: 1WPU2150002 T12 / DrwNo: 305.19.1138.33912 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): -0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.264
Max BC CSI: 0.223
Max Web CSI: 0.087

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	304	/-	/-	/285	/115	/-
D	85	/-	/-	/57	/-	/-
C	120	/-	/-	/79	/11	/122

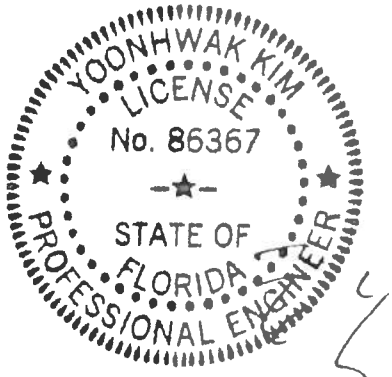
Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

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 4-4-8.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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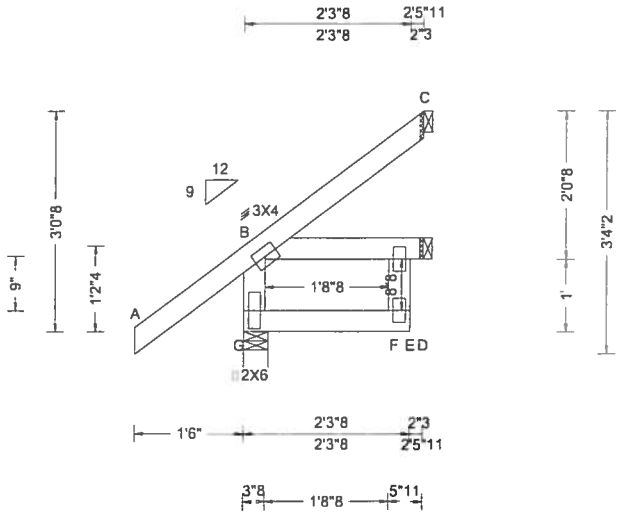
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296443 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J4	Cust: R 215 JRef: 1WPU2150002 T14 / DrwNo: 305.19.1138.33757 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	E	999	240
VERT(CL): 0.002	E	999	180
HORZ(LL): -0.001	G	-	-
HORZ(TL): 0.002	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.206
Max BC CSI: 0.036
Max Web CSI: 0.078

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	221	/-	/-	/197	/62	/-
D	49	/-	/29	/35	/-	/61
C	71	/-	/29	/43	/-	/44

Wind reactions based on MWFRS
G Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing G 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

All plates are 2X4 except as noted.

Wind

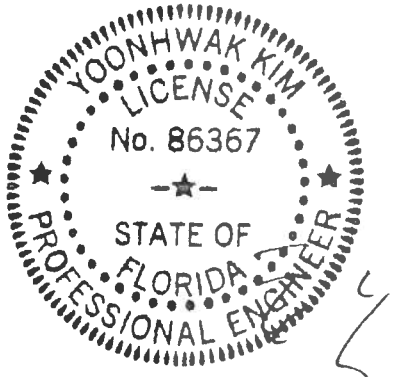
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 3-0-8.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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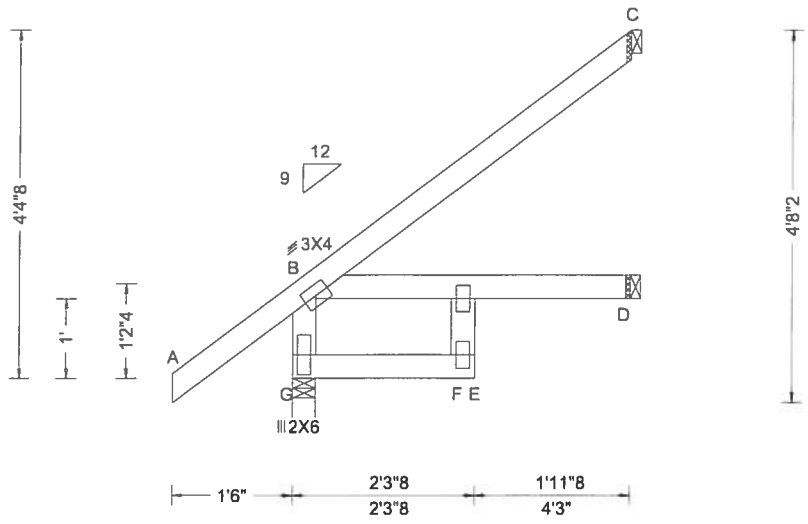
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296439 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J5	Cust: R 215 JRef: 1WPU2150002 T20 / DrwNo: 305.19.1138.33648 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.013	E	999	240
VERT(CL): 0.038	E	999	180
HORZ(LL): -0.006	G	-	-
HORZ(TL): 0.017	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.267
Max BC CSI: 0.171
Max Web CSI: 0.093

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	253	/-	/-	/197	/83	/-
C	173	/-	/116	/114	/2	/145
D	81	/-	/116	/56	/-	/122

Wind reactions based on MWFRS
G Brg Width = 3.5 Min Req = 1.5
C Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing G 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

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

The overall height of this truss excluding overhang is 4-4-8.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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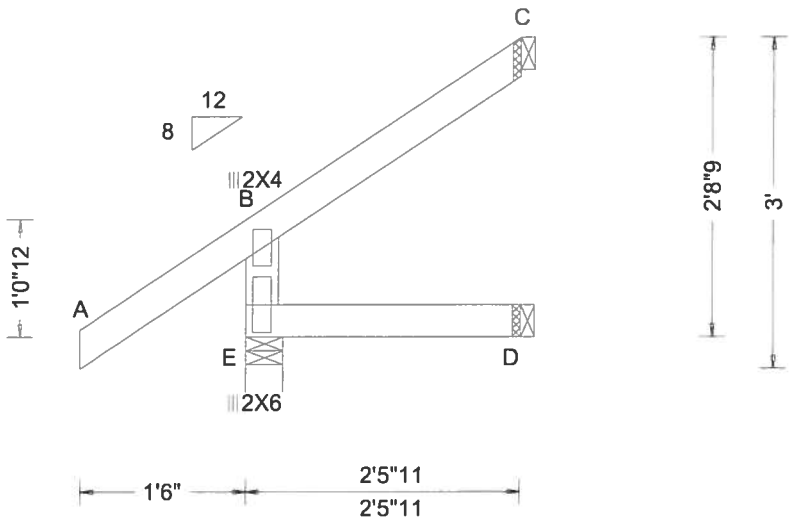
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296420 / JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J7	Cust: R 215 JRef: 1WPU2150002 T64 / DrwNo: 305.19.1138.34116 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): -0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.189
Max BC CSI: 0.073
Max Web CSI: 0.073

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	239	/-	/-	/220	/86	/-
D	50	/-	/-	/33	/-	/-
C	48	/-	/-	/55	/28	/75

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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

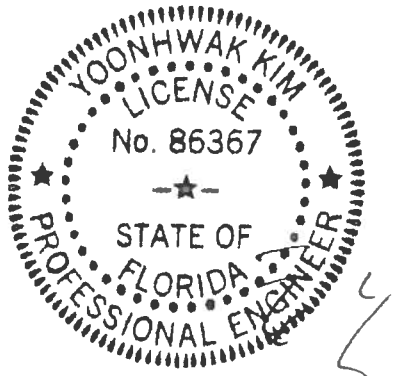
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-8-9.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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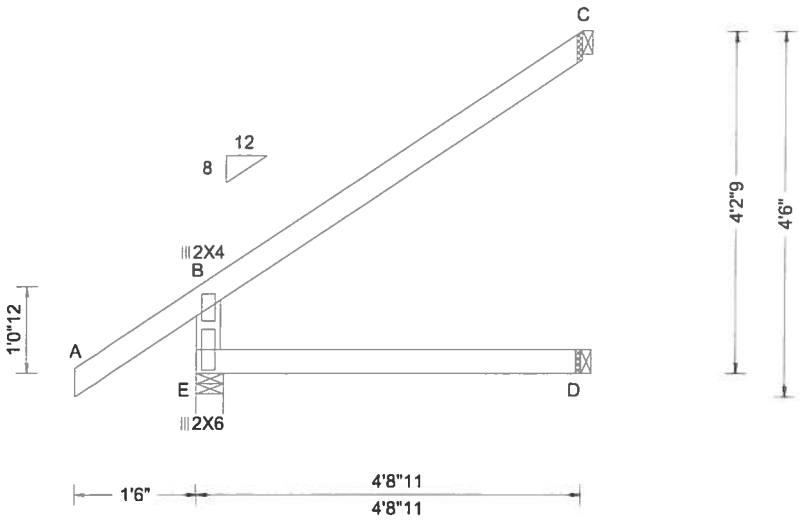
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296423 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J8	Cust: R 215 JRef: 1WPU2150002 T65 / DrwNo: 305.19.1138.33429 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): -0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.346
Max BC CSI: 0.276
Max Web CSI: 0.082

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	318	/-	/-	/277	/110	/-
D	95	/-	/-	/63	/-	/-
C	135	/-	/-	/74	/-	/118

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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 4-2-9.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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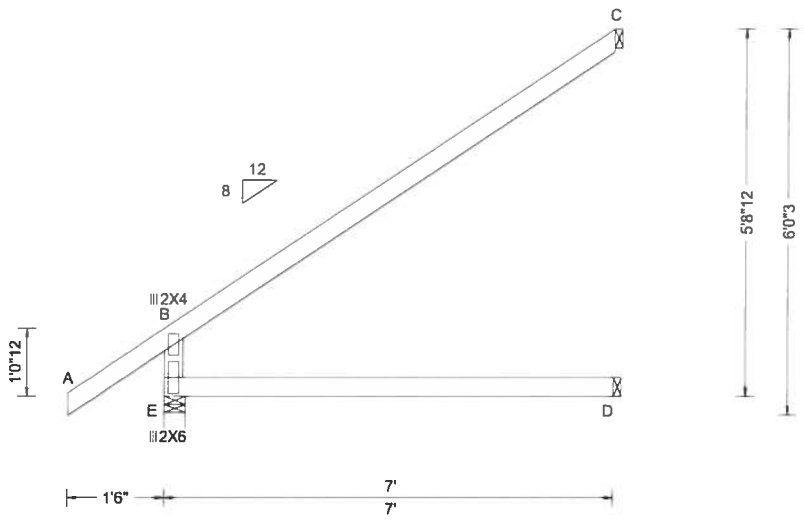
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, 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: 296426 / EJAC FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** J9	Cust: R 215 JRef: 1WPU2150002 T22 / DrwNo: 305.19.1138.34364 / YK 11/01/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
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: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 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 **Code / Misc Criteria** 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 B 999 240 VERT(CL): 0.000 B 999 180 HORZ(LL): -0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.921 Max BC CSI: 0.607 Max Web CSI: 0.091 VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	424	/-	/-	/343	/137	/-
D	148	/-	/-	/94	/-	/-
C	213	/-	/-	/96	/-	/161

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E 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;

Loading

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

Wind

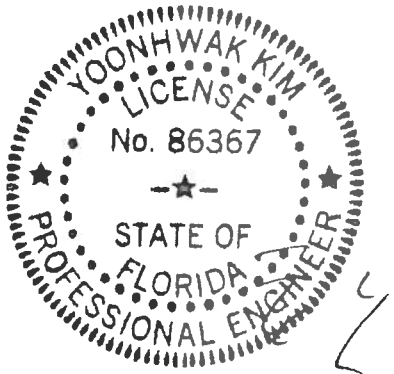
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 5-8-12.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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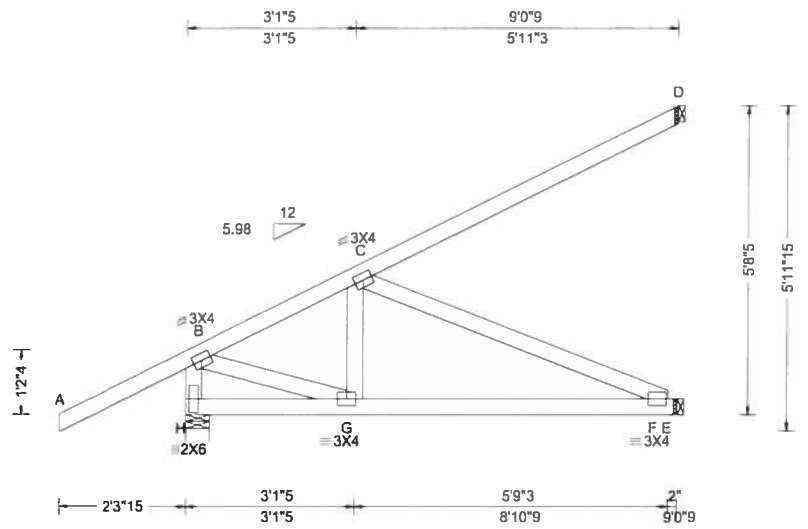
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296666 HIP_ FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** JH1	Cust: R 215 JRef: 1WPU2150002 T8 DrwNo: 305.19.1319.09593 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.014	C	999	240
VERT(CL): 0.026	C	999	180
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.014	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.484
Max BC CSI: 0.957
Max Web CSI: 0.582

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	721	/-	/-	/-	/284	/-
E	411	/-	/-	/-	/25	/-
D	247	/-	/-	/-	/59	/-

Wind reactions based on MWFRS
H Brg Width = 5.2 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	197	-796

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	685	-127

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	294	-766	C - F	139	-746
B - G	591	-59			

Lumber

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

Special Loads

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

TC: From	62 plf at	-2.33 to	62 plf at	3.05
TC: From	31 plf at	3.05 to	31 plf at	6.06
TC: From	62 plf at	6.06 to	62 plf at	9.04
BC: From	4 plf at	-2.33 to	4 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	3.05
BC: From	10 plf at	3.05 to	10 plf at	6.06
BC: From	20 plf at	6.06 to	20 plf at	9.04

TC: -40 lb Conc. Load at 1.04
TC: 48 lb Conc. Load at 3.05, 3.72
TC: 135 lb Conc. Load at 6.06
TC: 120 lb Conc. Load at 6.40
BC: 14 lb Conc. Load at 1.04
BC: 50 lb Conc. Load at 3.05, 3.72
BC: 95 lb Conc. Load at 6.06
BC: 85 lb Conc. Load at 6.40

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 5-8-5.

Provide (3) 16d common 0.162"x3.5", toe-nails at TC.
Provide (3) 16d common 0.162"x3.5", toe-nails at BC.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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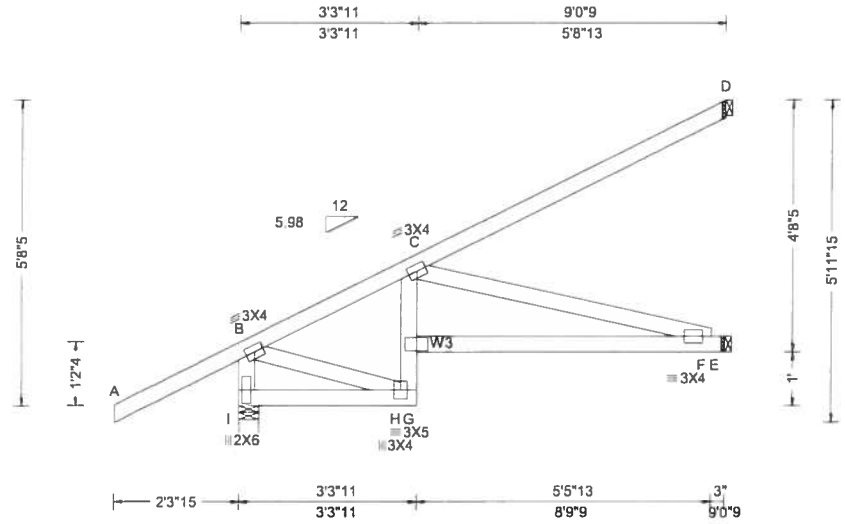
For more information see this job's general notes page and these web sites ALPINE. www.alpineitw.com, TPI: www.tpinst.org, SBCA. www.sbcindustry.com; ICC www.iccsafe.org

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

SEQN: 296702 HIP_ FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** JH2	Cust: R 215 JRef: 1WPU2150002 T4 DrwNo: 305.19.1319.14360 / YK 11/01/2019	



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.072	G	999	240
VERT(CL): 0.138	G	783	180
HORZ(LL): 0.060	F	-	-
HORZ(TL): 0.114	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.768
Max BC CSI: 0.902
Max Web CSI: 0.737

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	673	/-	/-	/-	/280	/-
E	365	/-	/-	/-	/32	/-
D	345	/-	/-	/-	/81	/-

Wind reactions based on MWFRS
I Brg Width = 4.4 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing I is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	207	-707

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	1042	-224

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - I	291	-661	C - F	232	-1079
B - H	686	-143			

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W3 2x4 SP M-31;

Special Loads

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

TC: From	62 plf at	-2.33 to	62 plf at	1.01
TC: From	31 plf at	1.01 to	31 plf at	6.06
TC: From	62 plf at	6.06 to	62 plf at	9.04
BC: From	4 plf at	-2.33 to	4 plf at	0.00
BC: From	10 plf at	0.00 to	10 plf at	6.06
BC: From	20 plf at	6.06 to	20 plf at	9.04

TC: -40 lb Conc. Load at 1.01
TC: 48 lb Conc. Load at 3.05
TC: 71 lb Conc. Load at 3.72
TC: 294 lb Conc. Load at 6.06
TC: 173 lb Conc. Load at 6.40
BC: 14 lb Conc. Load at 1.01
BC: 50 lb Conc. Load at 3.05
BC: 91 lb Conc. Load at 6.06

Wind

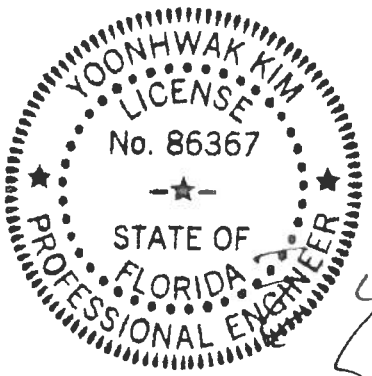
Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information

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

Provide (3) 16d common 0.162"x3.5", toe-nails at TC.
Provide (3) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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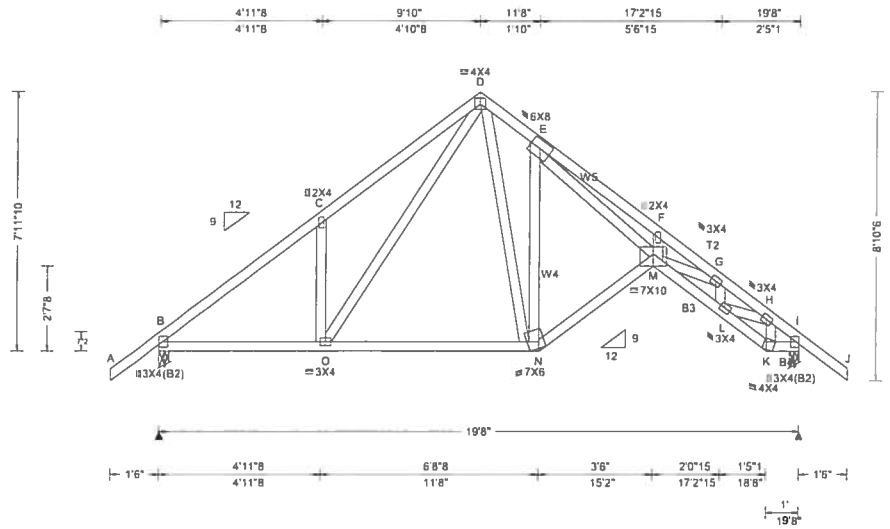
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296517 / COMN FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** K01	Cust: R 215 JRef: 1WPU2150002 T25 / DrwNo: 305.19.1138.33460 / YK 11/01/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.165 M 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.328 M 717 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.136 K - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.270 K - -
NCBCLL: 10.00	Mean Height: 15.00 ft	**Code / Misc Criteria**	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.419
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.867
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.692
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	VIEW Ver: 18.02.01B.0321.08
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1012	/-	/-	/598	/145	/278
I	1021	/-	/-	/618	/136	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
I Brg Width = 3.5 Min Req = 1.5
Bearings B & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	274	-1207	F - G	505	-3685
C - D	437	-1173	G - H	382	-2294
D - E	359	-948	H - I	206	-998
E - F	573	-3630			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	879	-113	M - L	2355	-268
O - N	605	-62	L - K	778	-85
N - M	912	-23	K - I	651	-73

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - D	489	-238	M - G	1016	-44
D - N	558	-177	G - L	101	-747
N - E	179	-829	L - H	1227	-148
E - M	3067	-337	K - H	75	-566

Lumber

Top chord: 2x4 SP #2; T2 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B3,B4 2x4 SP #2;
Webs: 2x4 SP #3; W4,W5 2x4 SP #2;

Loading

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

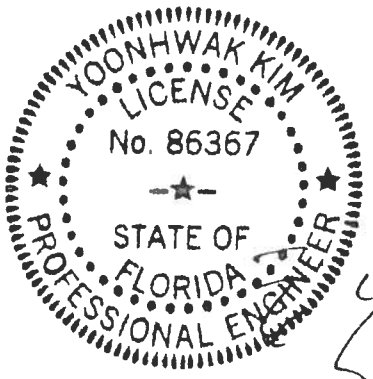
Wind

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 7-11-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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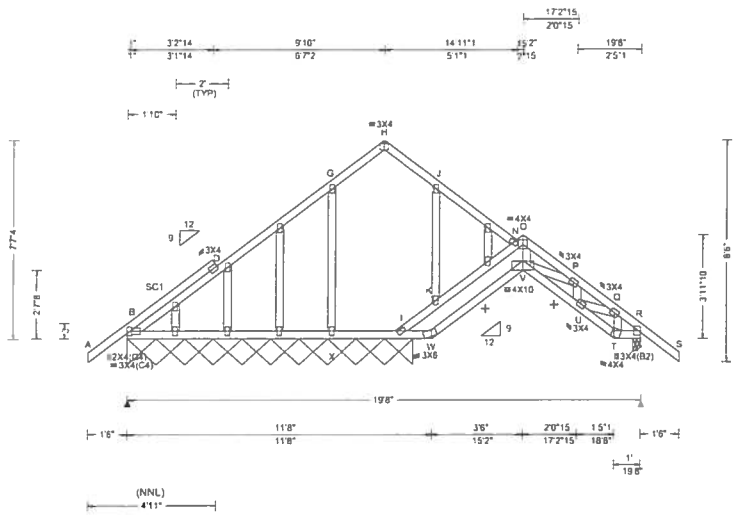
For more information see this job's general notes page and these web sites. ALPINE: www.alpineitw.com; TPI: www.tpinst.org, SBCA: www.sbcindustry.com, ICC: www.iccsafe.org

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

SEQN: 296557 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** K02		Cust: R 215 JRef 1WPU2150002 T1 DrwNo: 305.19.1138.34084 / YK 11/01/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.098 L 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.203 L 539 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.127 T - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.262 T - -
NCBCLL: 10.00	Mean Height: 15.00 ft	**Code / Misc Criteria**	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.839
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.724
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.288
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 18.02.01B.0321.08
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	146	/-	/-	/88	/21	/28
R	504	/-	/-	/385	/89	/-

Wind reactions based on MWFRS
B Brg Width = 131 Min Req = -
R Brg Width = 3.5 Min Req = 1.5
Bearings B & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
I - K	57	-1001	O - P	11	-734
K - N	53	-793	P - Q	67	-756
N - O	0	-667			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
I - W	555	0	V - U	699	0
W - V	638	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
J - K	7	-426	U - Q	413	0
O - V	687	0			

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.
G - X	43	-530

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 2.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

Wind

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

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).

+ Member to be laterally braced for out of plane wind loads

Additional Notes

Refer to General Notes for additional information

See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

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

The overall height of this truss excluding overhangs is 7-7-4.

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FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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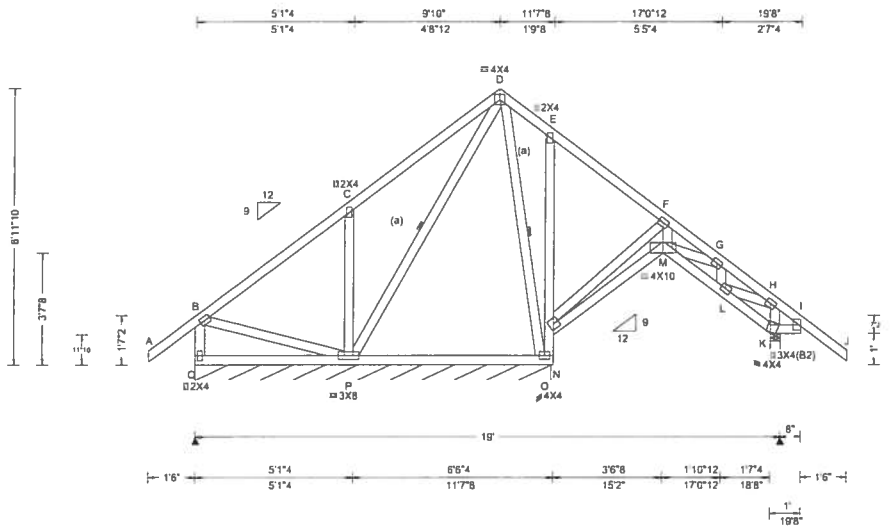
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296539 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** K03	Cust: R 215 JRef: 1WPU2150002 T2 / DrwNo: 305.19.1138.33663 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.014	M	999	240
VERT(CL): 0.031	M	999	180
HORZ(LL): -0.016	O	-	-
HORZ(TL): 0.035	O	-	-

Creep Factor: 2.0
Max TC CSI: 0.339
Max BC CSI: 0.400
Max Web CSI: 0.359

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q*	127	/-	/-	/83	/11	/24
K	476	/-	/-	/438	/148	/-

Wind reactions based on MWFRS
Q Brg Width = 138 Min Req = -
K Brg Width = 4.0 Min Req = 1.5
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
F - G	171	-394

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
N - M	427	-33

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - N	167	-434	M - F	464	0
N - F	77	-549			

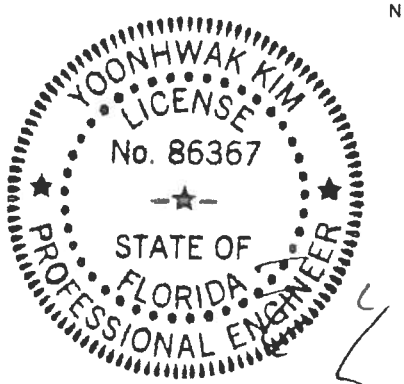
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

Plating Notes
All plates are 3X4 except as noted.

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 8-11-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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ALPINE
AN ITW COMPANY
6750 Forum Drive
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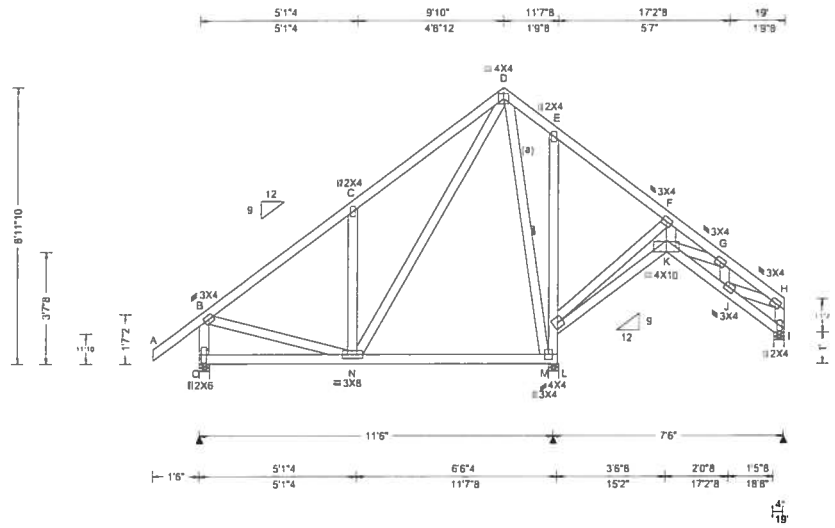
Orlando FL, 32821

SEQN: 296543 / COMN	Ply: 1	**Job Number:** 19-3023C	Cust: R 215 JRef: 1WPU2150002 T15 /
FROM: CDM	Qty: 1	/LOT 43 ROLLING MEADOWS /SPARKS CONST.	DrwNo: 305.19.1138.33446
		Truss Label: K04	/ YK 11/01/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.017 K 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.036 K 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.020 M - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.044 M - -
NCBCLL: 10.00	Mean Height: 15.00 ft	**Code / Misc Criteria**	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.335
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.387
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.439
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	VIEW Ver: 18.02.01B.0321.08
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	559	/-	/-	/312	/110	/245
M	976	/-	/-	/630	/70	/-
I	252	/-	/-	/190	/66	/-

Wind reactions based on MWFRS
O Brg Width = 4.0 Min Req = 1.5
M Brg Width = 4.0 Min Req = 1.5
I Brg Width = 4.0 Min Req = 1.5
Bearings O, M, & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	146	-431	F - G	183	-420
C - D	291	-455	G - H	163	-410

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	457	-91	K - J	403	-123

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - O	203	-523	M - L	186	-466
N - D	509	-212	L - F	154	-607
D - M	111	-468	K - F	536	-80

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

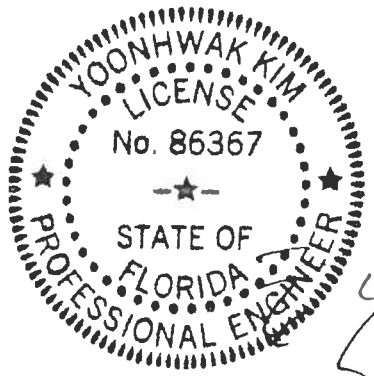
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

Shim all supports to solid bearing.

The overall height of this truss excluding overhang is 8-11-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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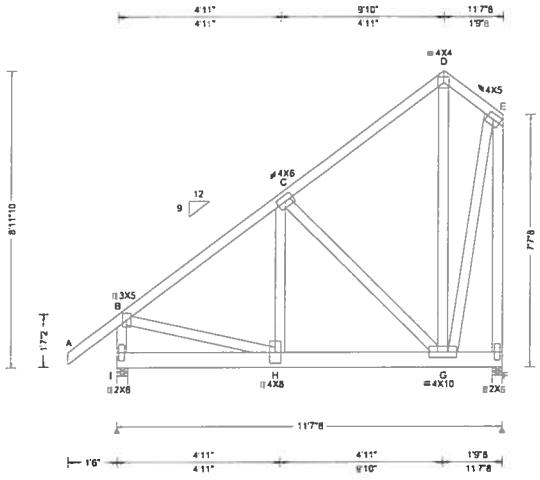
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296546 / COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** K05	Cust: R 215 JRef: 1WPU2150002 T63 / DrwNo: 305.19.1138.33694 / YK 11/01/2019

2 Complete Trusses Required



Loading Criteria (psf)
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 Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.026	H	999	240
VERT(CL): 0.052	H	999	180
HORZ(LL): 0.008	C	-	-
HORZ(TL): 0.015	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.119
Max BC CSI: 0.393
Max Web CSI: 0.790

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	3031	/-	/-	/-	/306	/-
F	2874	/-	/-	/-	/282	/-

Wind reactions based on MWFRS
I Brg Width = 4.0 Min Req = 1.5
F Brg Width = 3.5 Min Req = 1.5
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	149	- 1398	D - E	44	- 401
C - D	52	- 415			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
H - G	1035	- 103

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - I	151	- 1200	D - G	391	- 8
B - H	1100	- 109	G - E	1292	- 136
H - C	1227	- 90	E - F	162	- 1506
C - G	101	- 1029			

Lumber

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

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.25" 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	65 plf at	-1.50 to	65 plf at	1.94
TC: From	33 plf at	1.94 to	33 plf at	9.83
TC: From	65 plf at	9.83 to	65 plf at	11.63
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	10 plf at	0.00 to	10 plf at	11.63

BC: 1165 lb Conc. Load at 1.94
BC: 1022 lb Conc. Load at 3.94, 5.94, 7.94
BC: 953 lb Conc. Load at 9.94

Wind

Wind loads and reactions based on MWFRS.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 8-11-10.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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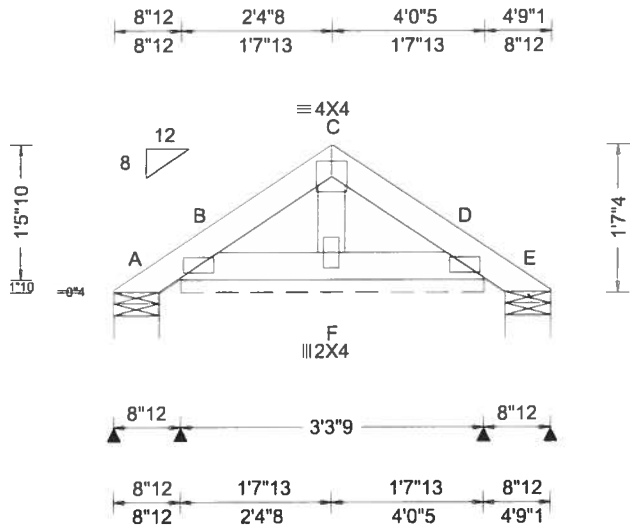
ALPINE
ANITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296553 / COMN FROM: CDM	Ply: 1 Qty: 10	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** P01	Cust: R 215 JRef: 1WPU2150002 T5 / DrwNo: 305.19.1138.33600 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.08 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

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 F	999	240
VERT(CL):	0.000 F	999	180
HORZ(LL):	-0.000 F	-	-
HORZ(TL):	0.000 F	-	-

Creep Factor: 2.0
Max TC CSI: 0.024
Max BC CSI: 0.023
Max Web CSI: 0.009

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	15	/-	/-	/29	/18	/41
B*	100	/-	/-	/53	/-	/-
E	15	/-	/-	/10	/-	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 39.6 Min Req = -
E Brg Width = 5.9 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;
Webs: 2x4 SP #3;

Plating Notes

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

Wind

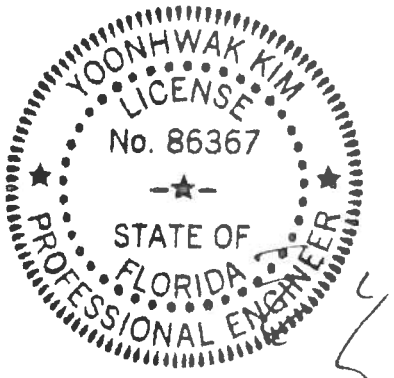
Wind loads based on MWFRS with additional C&C member design.

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 1-7-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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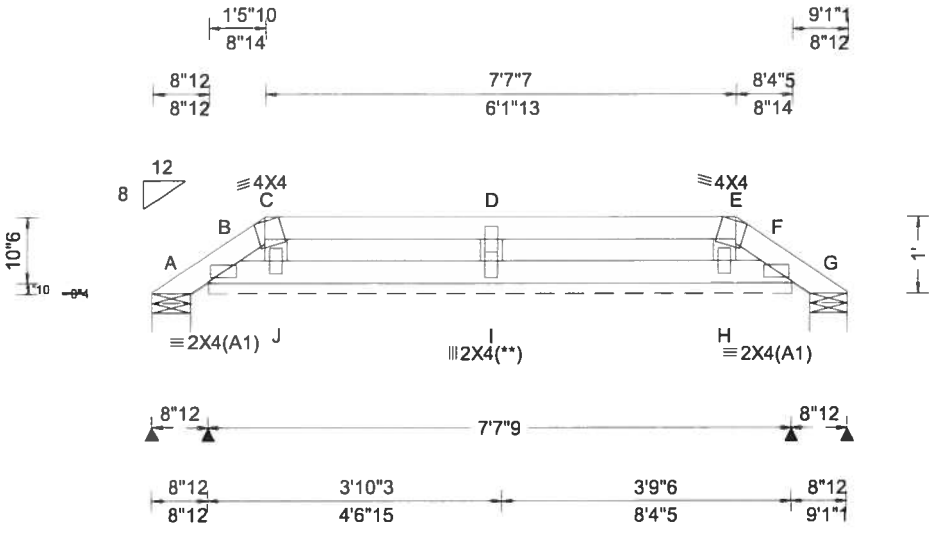
For more information see this job's general notes page and these web sites. ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 618345 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** P02	Cust: R 215 JRef: 1WPU2150002 T52 / DrwNo. 305.19.1138.33913 / YK 11/01/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 D 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 D 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 H - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.000 H - -
NCBCLL: 10.00	Mean Height: 15.00 ft	**Code / Misc Criteria**	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.141
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.062
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.044
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 18.02.00A.1126.20
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	25	/-	/-	/19	/3	/24
B*	88	/-	/-	/39	/2	/-
G	25	/-	/-	/17	/1	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 91.6 Min Req = -
G Brg Width = 5.9 Min Req = 1.5
Bearings A, B, & G are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

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

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 1-0-0.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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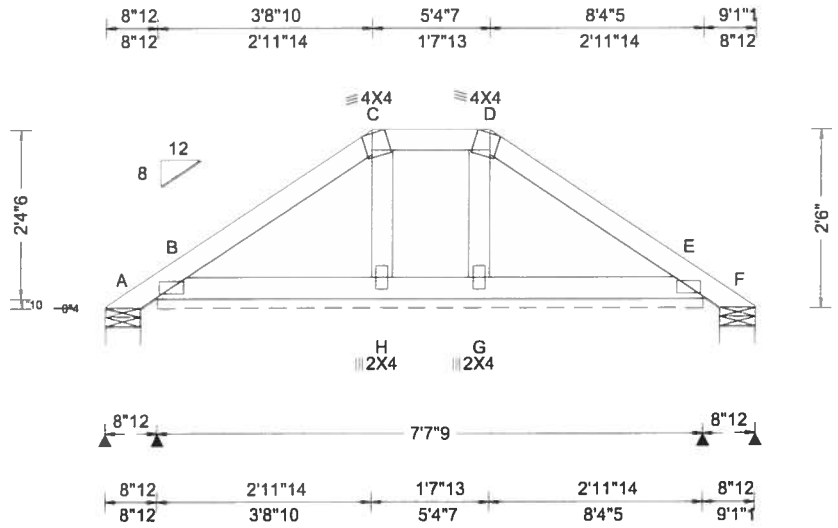
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 618347 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** P03	Cust: R 215 JRef: 1WPU2150002 T49 / DrwNo: 305.19.1138.34475 / YK 11/01/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.69 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

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	G	999	240
VERT(CL): 0.001	G	999	180
HORZ(LL): -0.000	G	-	-
HORZ(TL): 0.001	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.094
Max BC CSI: 0.070
Max Web CSI: 0.018

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-32	/-	/48	/60	/67
B*	103	/-	/-	/50	/-	/-
F	-	/-32	/-	/11	/22	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 91.6 Min Req = -
F Brg Width = 5.9 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;
Webs: 2x4 SP #3;

Plating Notes

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

Wind

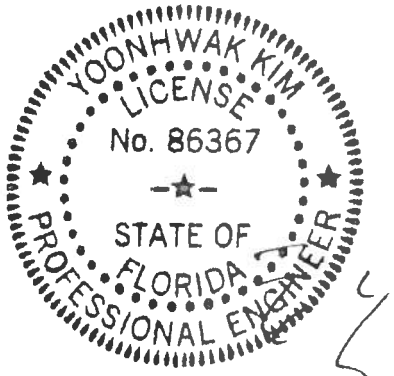
Wind loads based on MWFRS with additional C&C member design.

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 2-6-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/01/2019

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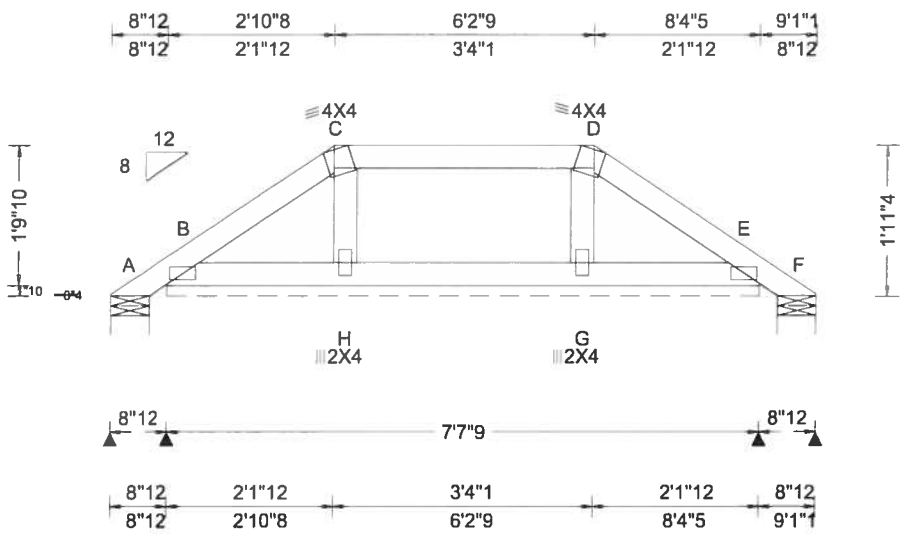
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 296549 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-3023C /LOT 43 ROLLING MEADOWS /SPARKS CONST. **Truss Label:** P04	Cust: R 215 JRef: 1WPU2150002 T44 / DrwNo: 305.19.1138.33819 / YK 11/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.40 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

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	H	999	240
VERT(CL): 0.001	H	999	180
HORZ(LL): -0.000	G	-	-
HORZ(TL): 0.001	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.198
Max BC CSI: 0.067
Max Web CSI: 0.025

VIEW Ver: 18.02.01B.0321.08

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	8	/-	/-	/35	/29	/50
B*	94	/-	/-	/45	/-	/-
F	8	/-	/-	/7	/0	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 91.6 Min Req = -
F Brg Width = 5.9 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;
Webs: 2x4 SP #3;

Plating Notes

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

Wind

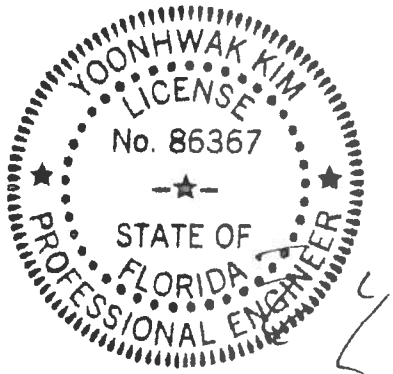
Wind loads based on MWFRS with additional C&C member design.

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 1-11-4.



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11/01/2019

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ALPINE
AN ITW COMPANY
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Suite 305
Orlando FL, 32821

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 Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#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 DFL	#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"
		Standard	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 2"	11' 0"	11' 10"	14' 0"	14' 0"
16" o.c.	SPF HF	#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"
		Standard	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#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"
		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"
12" o.c.	SPF HF	#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"
		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"
	SP DFL	#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"
		#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: #1 / #2 Standard; #3 Stud
Hem-Fir: #2 Stud; #3 Standard
Douglas Fir-Larch: #3; Stud; Standard
Southern Pine***: #3; Stud; Standard

Group B:

Hem-Fir: #1 & Btr; #1
Douglas Fir-Larch: #1; #2
Southern Pine***: #1; #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" braces: 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.

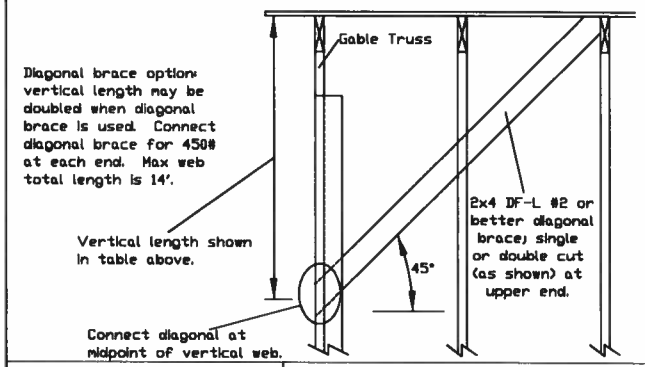
"L" bracing must be a minimum of 80% of web member length.

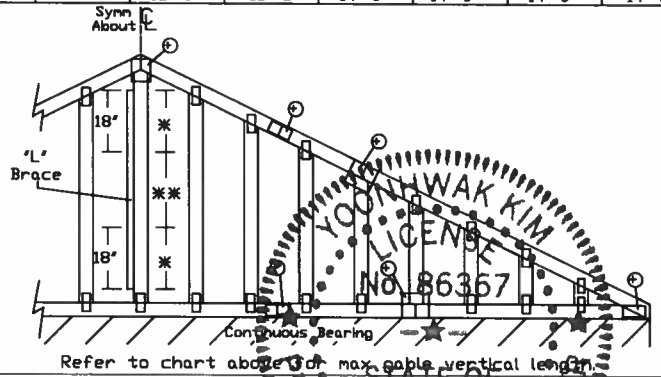
Gable Vertical Plate Sizes

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.





Refer to chart above for max. gable vertical length.

YOONHWAK KIM LICENSE NO. 86367
STATE OF FLORIDA PROFESSIONAL ENGINEER

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

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

11/01/2019
FL REG# 278, Yoonhwak Kim, FL PE #86367

Gable Stud Reinforcement Detail

ASCE 7-10: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
		#3	3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Stud	3' 10"	6' 2"	6' 6"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Standard	3' 10"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"
	SP DFL	#1	4' 2"	7' 0"	7' 3"	8' 3"	8' 7"	9' 10"	10' 3"	13' 0"	13' 6"	14' 0"	14' 0"
		#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
		#3	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Standard	3' 9"	4' 11"	5' 13"	6' 6"	7' 0"	8' 10"	9' 6"	10' 3"	11' 0"	13' 11"	14' 0"
16" o.c.	SPF HF	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine****
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine****
#1
#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 100 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.

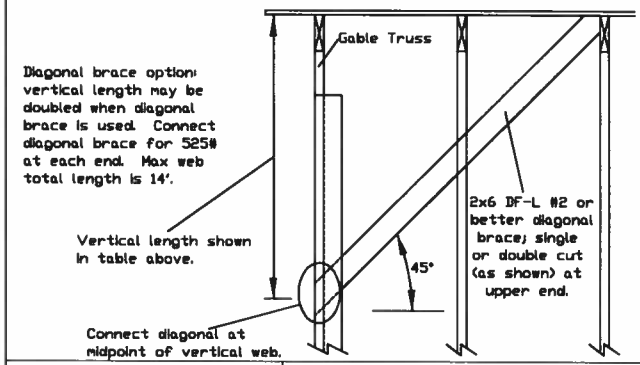
'L' bracing must be a minimum of 80% of web member length.

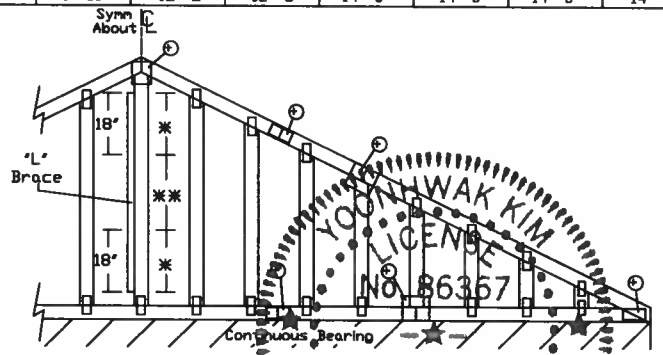
Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

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

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





Refer to chart above for max gable vertical length.

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YOONHWAK KIM LICENSE NO. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-10-GAB14030
DATE	10/01/14
DRWG	A14030ENC101014

11/07/2019
FL REG# 278, Yoonhwak Kim, FL PE #86367

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-reinforecement 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.

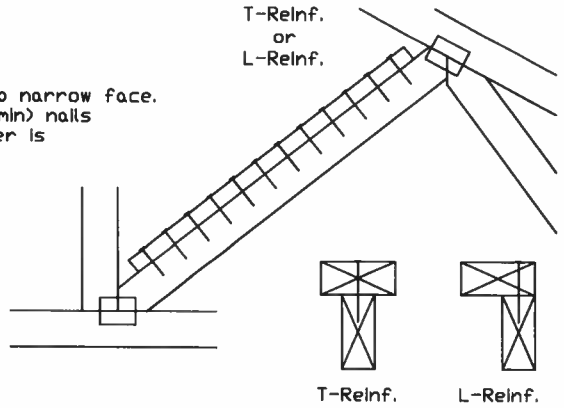
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4 (X)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6 (X)

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.

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

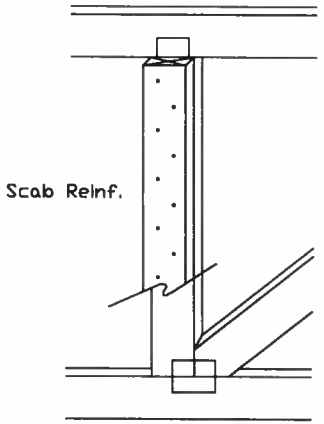
T-Reinforcement or L-Reinforcement:

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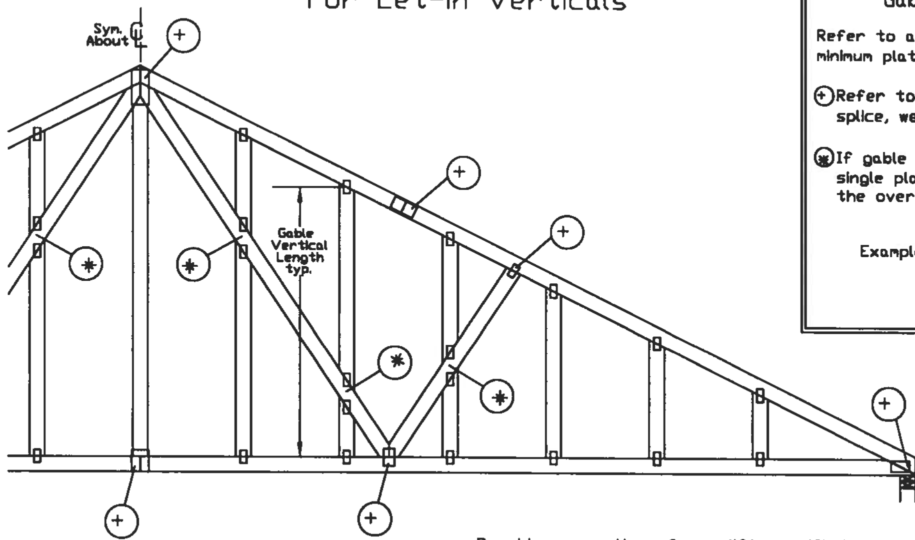
TC LL	PSF	REF CLR Subst.
TC DL	PSF	DATE 01/02/19
BC DL	PSF	DRWG BRCLBSUB0119
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

11/01/2019
FL REG# 278, Yoonhwak Kim, FL PE #86367

Gable Detail
For Let-in Verticals



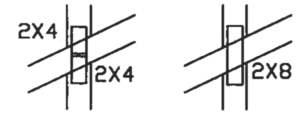
Gable Truss Plate Sizes

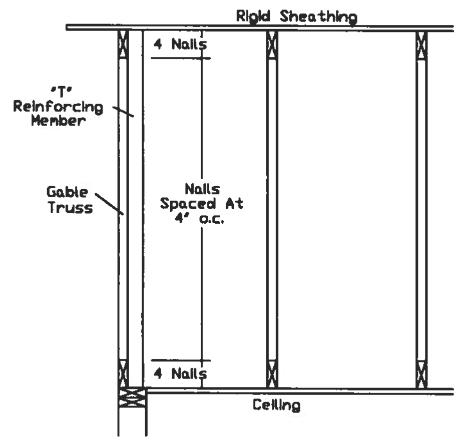
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

(+) 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.

Example:





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

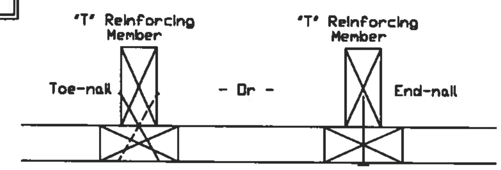
This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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

"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"

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STATE OF FLORIDA PROFESSIONAL ENGINEER

11/01/2019 FL REG# 278, Yoonhwak Kim, FL PE #86367

MAX. TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX. SPACING	24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

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

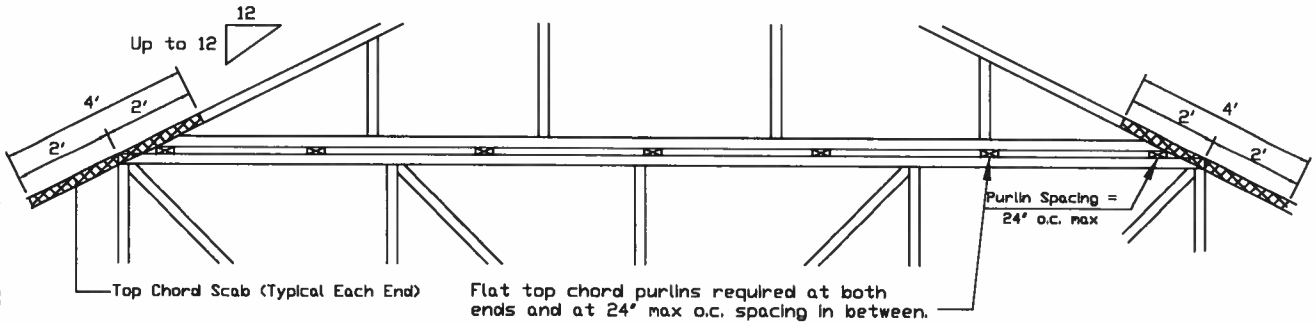
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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.

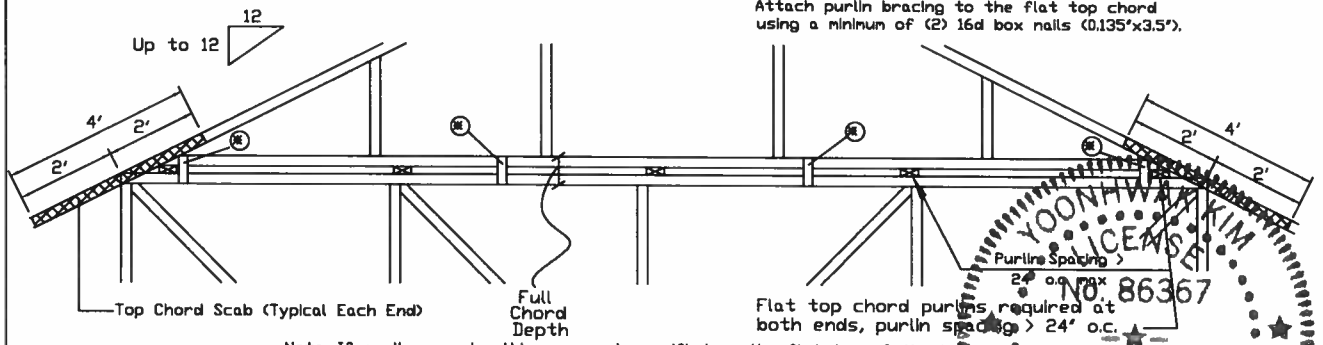
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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 plated 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 at time 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.

YOONHWAK KIM LICENSE NO. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

ALPINE AN ITW COMPANY
13723 Riverport Drive
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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.

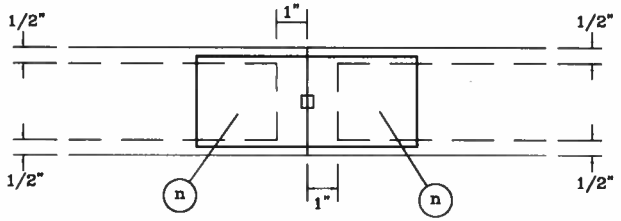
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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

REF	PIGGYBACK
DATE	10/01/14
DRWG	PB160101014
SPACING	24.0"

TRULOX INFORMATION DETAIL

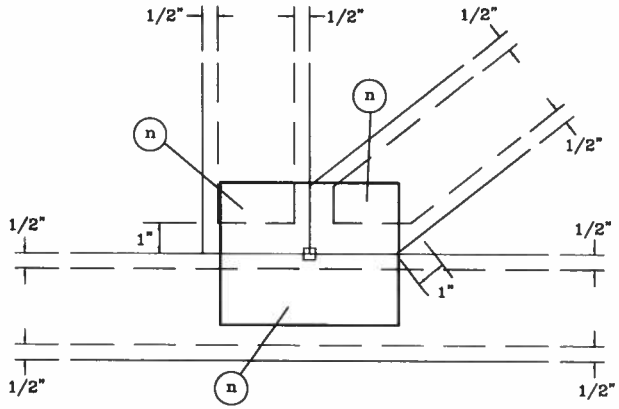
TYPICAL OFF PANEL SPLICE



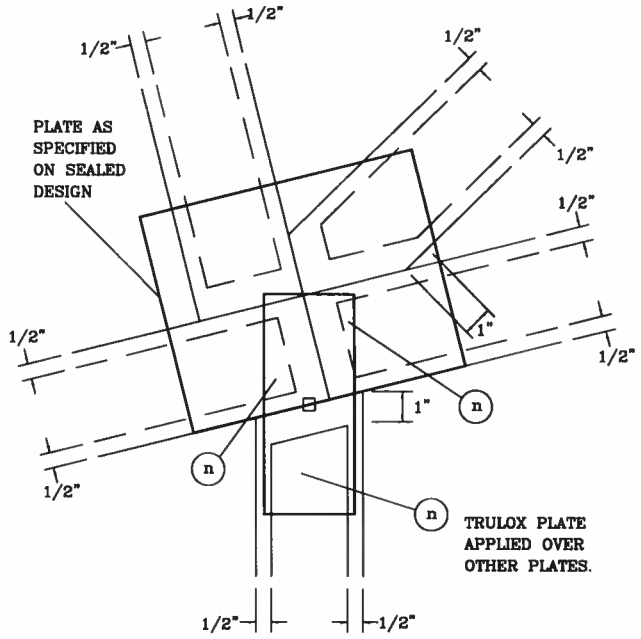
DO NOT APPLY NAILS WITHIN 1/2" OF LUMBER EDGES OR 1" OF LUMBER ENDS ON EACH FACE, AS SHOWN BY DASHED LINES.

NAILS MUST NOT SPLIT LUMBER.

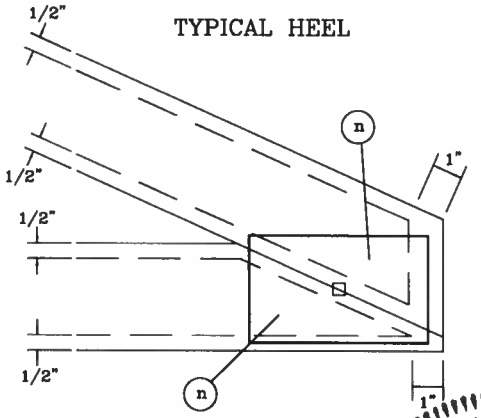
TYPICAL PANEL POINT WITHOUT SPLICE



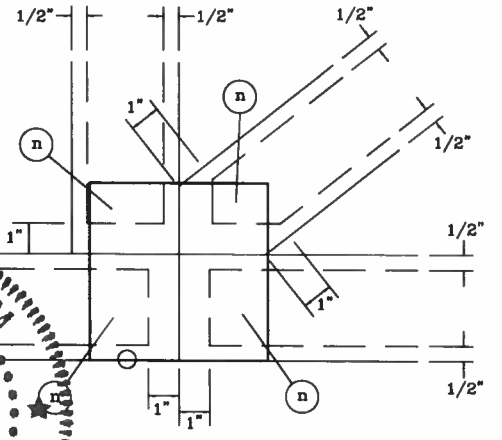
TYPICAL FILLER



TYPICAL HEEL



TYPICAL PANEL POINT SPLICE



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NOTES:
(n) IS THE REQUIRED NUMBER OF 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY AS SPECIFIED ON THE SEALED DESIGN REFERENCING THIS DETAIL.
○ LOCATES PLATE CORNER OR FLUSH EDGE.
□ LOCATES PLATE CENTER.

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TRULOX PLATING

160
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PAGE 1 OF 1
DATE 10/01/14