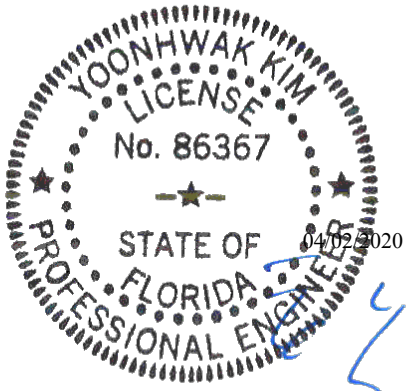



04/02/2020

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

ALPINE AN ITW COMPANY

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

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

| Site Information: | Page 1: |
|---|---|
| *Customer:* W. B. Howland Company, Inc. | *Job Number:* 20-3965FB |
| *Job Description:* /Crosby /SPARKS CONST. | |
| *Address:* FL | |

| Job Engineering Criteria: | |
|---|---|
| *Design Code:* FBC 2017 RES | *IntelliVIEW Version:* 18.02.01B<br>*JRef #:* 1WU32150001 |
| | *Roof Load (psf):* None<br>*Floor Load (psf):* 40.00-10.00- 0.00- 5.00 |

This package contains general notes pages, 22 truss drawing(s) and 3 detail(s).

| Item | Drawing Number | Truss |
|---|---|---|
| 1 | 093.20.0748.47727 | F01 |
| 3 | 093.20.0835.39687 | F02 |
| 5 | 093.20.0748.47772 | F04 |
| 7 | 093.20.0748.47726 | F06 |
| 9 | 093.20.0748.47461 | F08 |
| 11 | 093.20.0748.47648 | F10 |
| 13 | 093.20.0748.47771 | F12 |
| 15 | 093.20.0748.47507 | F14 |
| 17 | 093.20.0748.47537 | F16 |
| 19 | 093.20.0748.47460 | F18 |
| 21 | 093.20.0748.47477 | F20 |
| 23 | CNSY42PL0118 | |
| 25 | STRBRIBR1014 | |

| Item | Drawing Number | Truss |
|---|---|---|
| 2 | 093.20.0835.27757 | F2A |
| 4 | 093.20.0748.47663 | F03 |
| 6 | 093.20.0748.47649 | F05 |
| 8 | 093.20.0748.47834 | F07 |
| 10 | 093.20.0748.47787 | F09 |
| 12 | 093.20.0748.47695 | F11 |
| 14 | 093.20.0748.47804 | F13 |
| 16 | 093.20.0748.47632 | F15 |
| 18 | 093.20.0748.47492 | F17 |
| 20 | 093.20.0748.47476 | F19 |
| 22 | 093.20.0748.47694 | F21 |
| 24 | LSCSYX2A1014 | |
| | | |

## General Notes

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

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

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

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

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

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

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

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

## General Notes (continued)

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

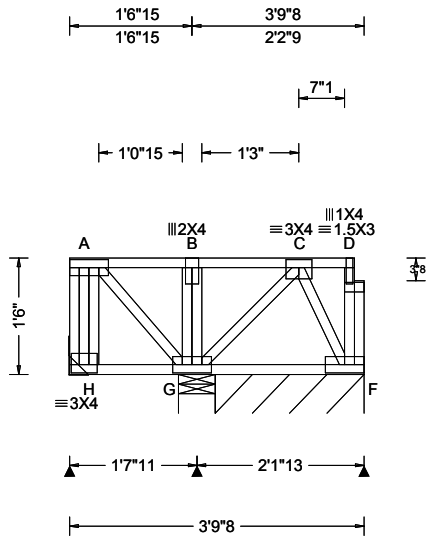
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze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

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

**References:**


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

| | | | |
|---|---|---|---|
| SEQN: 585893 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F01 | Cust: R 215 JRef: 1WU32150001 T7 /<br>DrwNo: 093.20.0748.47727<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.001 | C | 999 | 480 |
| VERT(CL): 0.001 | C | 999 | 360 |
| HORZ(LL): -0.000 | B | - | - |
| HORZ(TL): 0.000 | B | - | - |

Creep Factor: 2.0
Max TC CSI: 0.119
Max BC CSI: 0.062
Max Web CSI: 0.020

VIEW Ver: 18.02.01B.0321.08

**▲Maximum Reactions (lbs), or *=PLF**

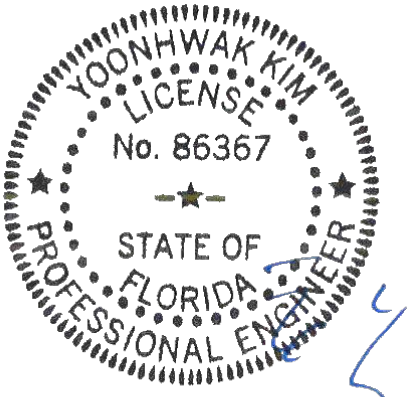
| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| H | 83 | /- | /- | /- | /- | /- |
| G | 224 | /- | /- | /- | /- | /- |
| F* | 58 | /- | /- | /- | /- | /- |

H Brg Width = - Min Req = -
G Brg Width = 5.7 Min Req = 1.5
F Brg Width = 23.0 Min Req = -
Bearings G & G are a rigid surface.
Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**Plating Notes**
All plates are 2.5X6 except as noted.

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

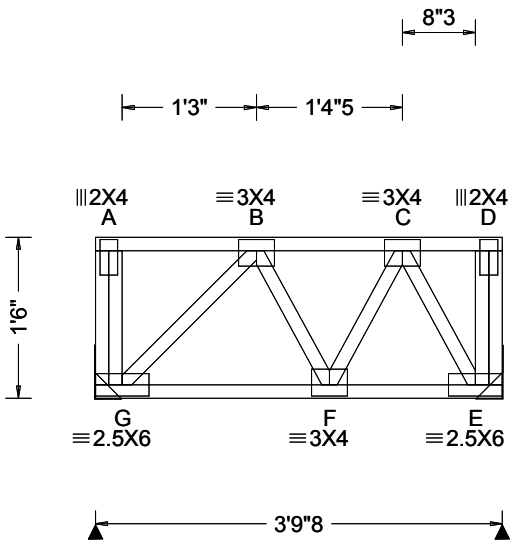
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 586292 SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F2A | Cust: R 215 JRef: 1WU32150001 T14<br>DrwNo: 093.20.0835.27757<br>/ YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.002 | B | 999 | 480 |
| VERT(CL): 0.003 | B | 999 | 360 |
| HORZ(LL): 0.000 | E | - | - |
| HORZ(TL): 0.001 | E | - | - |

Creep Factor: 2.0
Max TC CSI: 0.105
Max BC CSI: 0.060
Max Web CSI: 0.040

VIEW Ver: 18.02.01B.0321.08

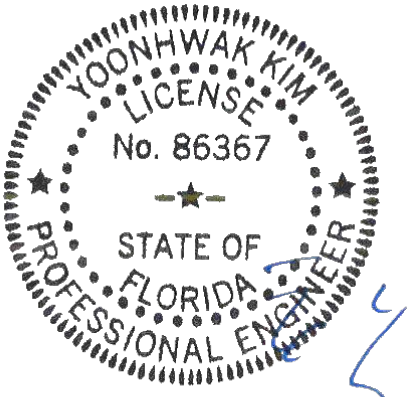
**▲Maximum Reactions (lbs)**

| | | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| G | 209 | /- | /- | /- | /- | /- |
| E | 209 | /- | /- | /- | /- | /- |
| G | Brg Width = - | | | Min Req = - | | |
| E | Brg Width = - | | | Min Req = - | | |

Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

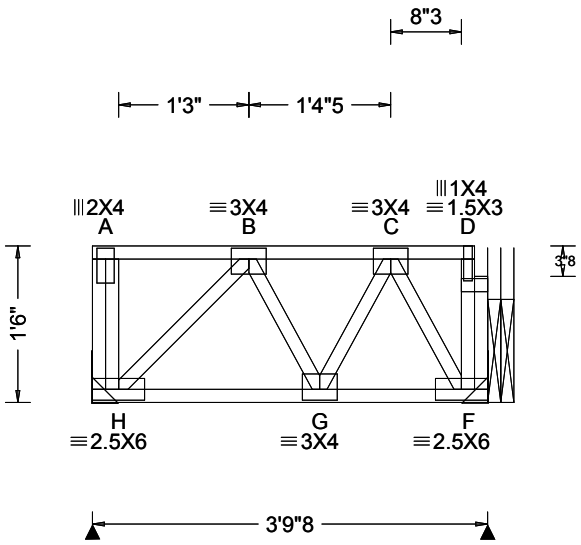
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 586287 SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F02 | Cust: R 215 JRef: 1WU32150001 T22<br>DrwNo: 093.20.0835.39687<br>/ YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.002 | B | 999 | 480 |
| VERT(CL): 0.003 | B | 999 | 360 |
| HORZ(LL): 0.000 | F | - | - |
| HORZ(TL): 0.001 | F | - | - |

Creep Factor: 2.0
Max TC CSI: 0.105
Max BC CSI: 0.060
Max Web CSI: 0.041

VIEW Ver: 18.02.01B.0321.08

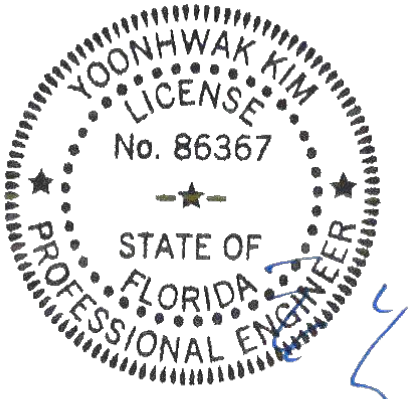
**▲Maximum Reactions (lbs)**

| | | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| H | 213 | /- | /- | /- | /- | /- |
| F | 192 | /- | /- | /- | /- | /- |
| H | Brg Width = - | | | Min Req = - | | |
| F | Brg Width = - | | | Min Req = - | | |

Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

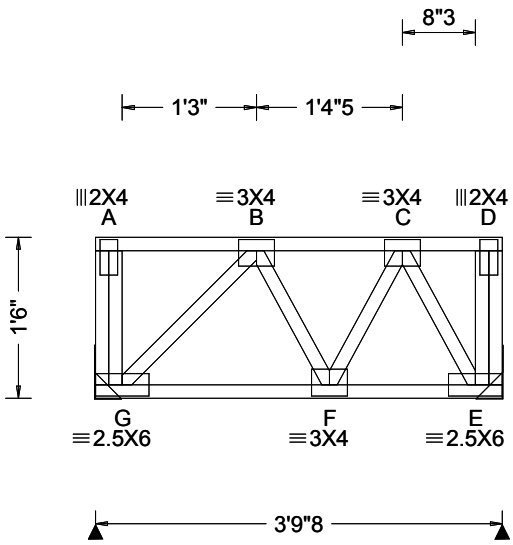
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 585897 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 13 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F03 | Cust: R 215 JRef: 1WU32150001 T10 /<br>DrwNo: 093.20.0748.47663<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.002 | B | 999 | 480 |
| VERT(CL): 0.003 | B | 999 | 360 |
| HORZ(LL): 0.000 | E | - | - |
| HORZ(TL): 0.001 | E | - | - |

Creep Factor: 2.0
Max TC CSI: 0.105
Max BC CSI: 0.060
Max Web CSI: 0.040

VIEW Ver: 18.02.01B.0321.08

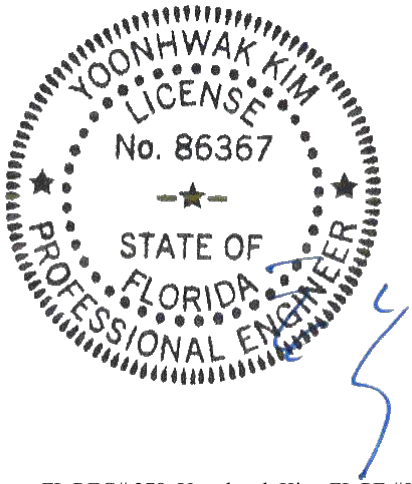
**▲Maximum Reactions (lbs)**

| | | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| G | 209 | /- | /- | /- | /- | /- |
| E | 209 | /- | /- | /- | /- | /- |

G Brg Width = - Min Req = -
E Brg Width = - Min Req = -
Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

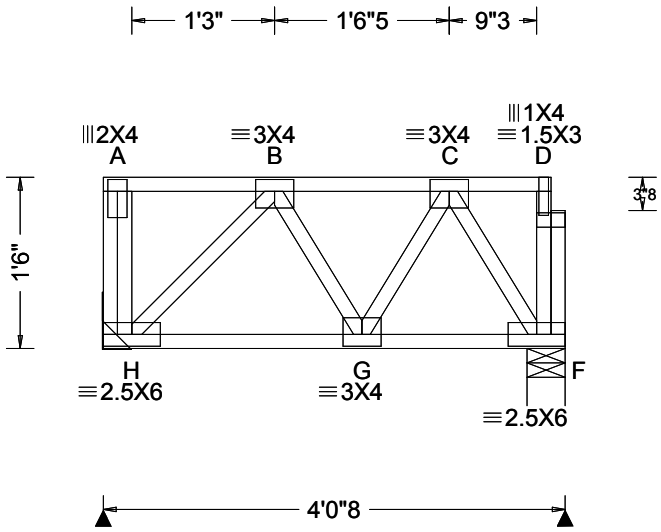
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 585901 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F04 | Cust: R 215 JRef: 1WU32150001 T18 /<br>DrwNo: 093.20.0748.47772<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.003 | B | 999 | 480 |
| VERT(CL): 0.004 | B | 999 | 360 |
| HORZ(LL): 0.000 | F | - | - |
| HORZ(TL): 0.001 | F | - | - |

Creep Factor: 2.0
Max TC CSI: 0.119
Max BC CSI: 0.069
Max Web CSI: 0.046

VIEW Ver: 18.02.01B.0321.08

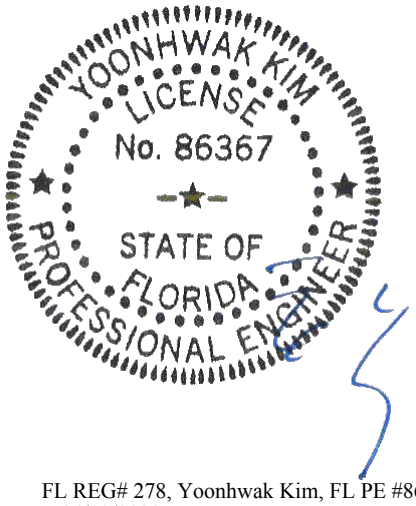
**▲Maximum Reactions (lbs)**

| | | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | | / Rw | / U | / RL |
| H | 227 | /- | /- | | /- | /- | /- |
| F | 206 | /- | /- | | /- | /- | /- |
| H | Brg Width = - | | | | Min Req = - | | |
| F | Brg Width = 4.0 | | | | Min Req = 1.5 | | |

Bearing F is a rigid surface.
Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

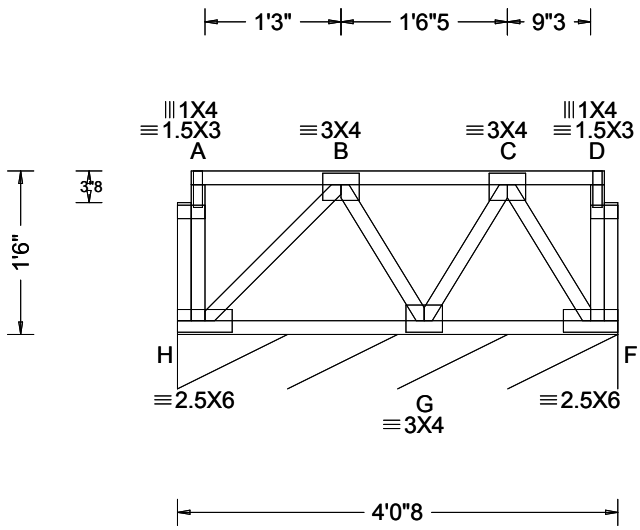
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 585903 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F05 | Cust: R 215 JRef: 1WU32150001 T20 /<br>DrwNo: 093.20.0748.47649<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.001 | B | 999 | 480 |
| VERT(CL): 0.002 | B | 999 | 360 |
| HORZ(LL): -0.000 | H | - | - |
| HORZ(TL): 0.000 | H | - | - |

Creep Factor: 2.0
Max TC CSI: 0.135
Max BC CSI: 0.071
Max Web CSI: 0.028

VIEW Ver: 18.02.01B.0321.08

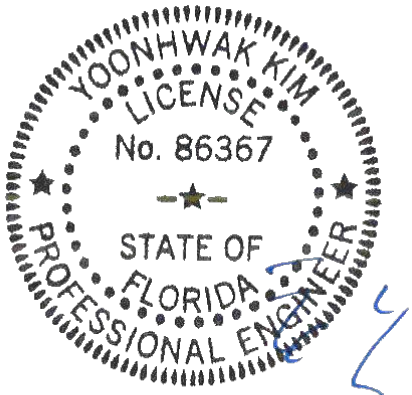
**▲Maximum Reactions (lbs), or *=PLF**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| F* | 104 | /- | /- | /- | /- | /- |
| F | Brg Width = 48.5 | | | Min Req = - | | |

Bearing H is a rigid surface.
Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

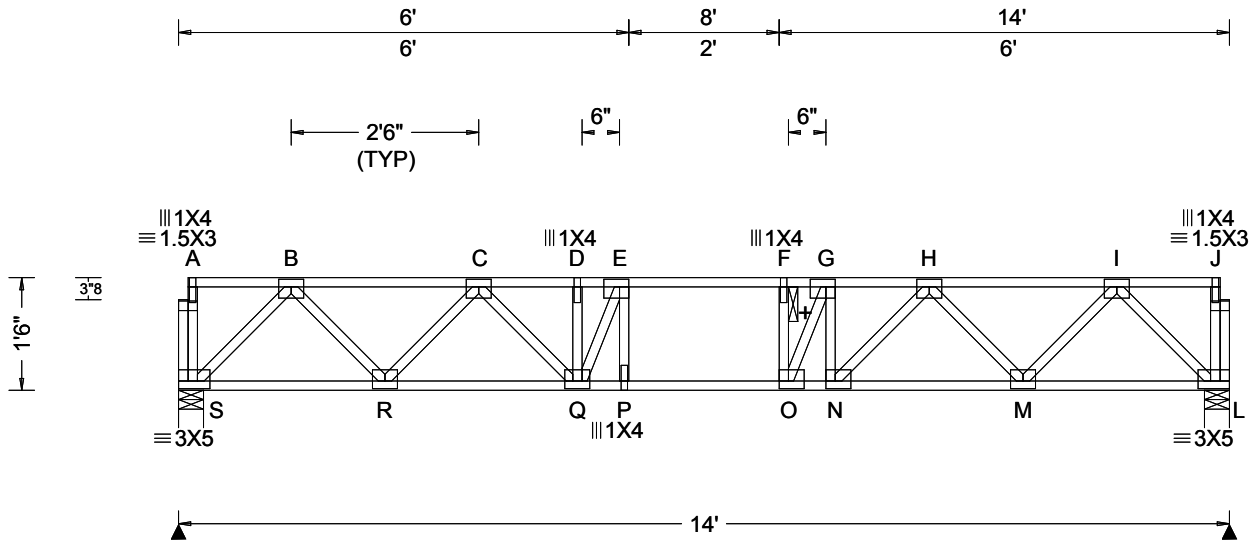
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 585917 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 6 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F06 | Cust: R 215 JRef: 1WU32150001 T12 /<br>DrwNo: 093.20.0748.47726<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)

| | |
|---|---|
| TCLL: | 40.00 |
| TCDL: | 10.00 |
| BCLL: | 0.00 |
| BCDL: | 5.00 |
| Des Ld: | 55.00 |
| NCBCLL: | 10.00 |
| Soffit: | 0.00 |

Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.097 | F | 999 | 480 |
| VERT(CL): 0.144 | E | 999 | 360 |
| HORZ(LL): 0.021 | L | - | - |
| HORZ(TL): 0.032 | B | - | - |

Creep Factor: 2.0
Max TC CSI: 0.615
Max BC CSI: 0.744
Max Web CSI: 0.309

VIEW Ver: 18.02.01B.0321.08

**▲Maximum Reactions (lbs)**

| | | Gravity | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| S | 757 | /- | /- | /- | /- | /- |
| L | 757 | /- | /- | /- | /- | /- |

S Brg Width = 4.0 Min Req = 1.5
L Brg Width = 4.0 Min Req = 1.5
Bearings S & 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 | 0 | -1108 | F - G | 0 | -1817 |
| C - D | 0 | -1739 | G - H | 0 | -1731 |
| D - E | 0 | -1739 | H - I | 0 | -1107 |
| E - F | 0 | -1825 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| S - R | 670 | 0 | O - N | 1750 | 0 |
| R - Q | 1519 | 0 | N - M | 1520 | 0 |
| Q - P | 1824 | 0 | M - L | 670 | 0 |
| P - O | 1825 | 0 | | | |

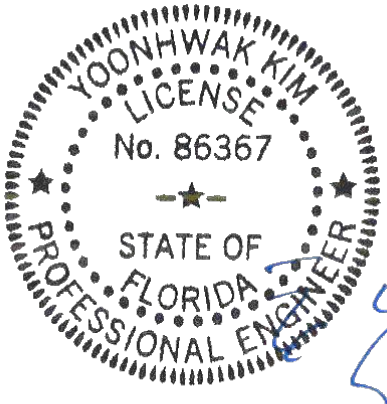
**Maximum Web Forces Per Ply (lbs)**

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| S - B | 0 | -971 | O - G | 462 | -98 |
| B - R | 650 | 0 | H - M | 0 | -614 |
| R - C | 0 | -612 | M - I | 650 | 0 |
| Q - E | 71 | -482 | I - L | 0 | -971 |

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**Plating Notes**
All plates are 3X4 except as noted.

**Additional Notes**
Refer to General Notes for additional information
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

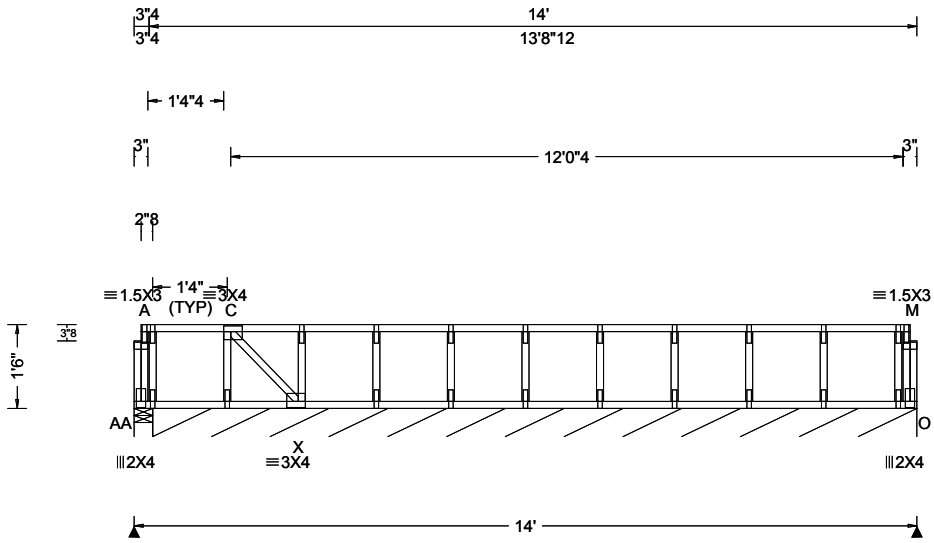
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 585914 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F07 | Cust: R 215 JRef: 1WU32150001 T23 /<br>DrwNo: 093.20.0748.47834<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: 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 | B | 999 | 480 |
| VERT(CL): 0.001 | B | 999 | 360 |
| HORZ(LL): -0.000 | B | - | - |
| HORZ(TL): 0.000 | B | - | - |

Creep Factor: 2.0
Max TC CSI: 0.104
Max BC CSI: 0.048
Max Web CSI: 0.033

VIEW Ver: 18.02.01B.0321.08

**▲Maximum Reactions (lbs), or *=PLF**

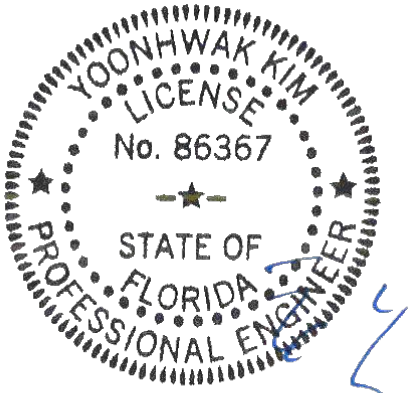
| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| AA | 77 | /- | /- | /- | /- | /- |
| O* | 105 | /- | /- | /- | /- | /- |

AA Brg Width = 4.0 Min Req = 1.5
O Brg Width = 164 Min Req = -
Bearings AA & Z are a rigid surface.
Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**Plating Notes**
All plates are 1X4 except as noted.

**Additional Notes**
Refer to General Notes for additional information
See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

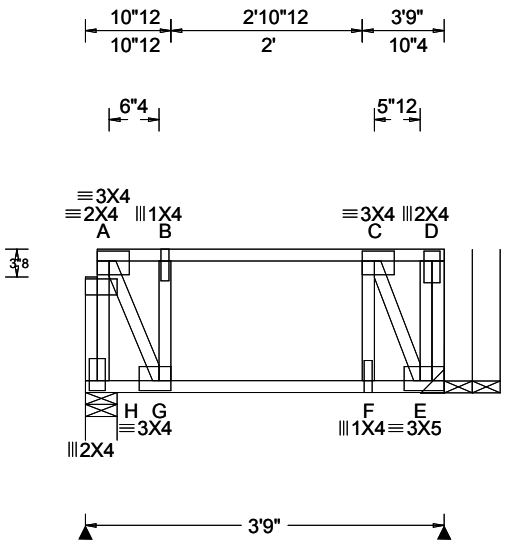
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 580768 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 4 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F08 | Cust: R 215 JRef: 1WU32150001 T11 /<br>DrwNo: 093.20.0748.47461<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.005 | B | 999 | 480 |
| VERT(CL): 0.007 | B | 999 | 360 |
| HORZ(LL): 0.003 | B | - | - |
| HORZ(TL): 0.004 | B | - | - |

Creep Factor: 2.0
Max TC CSI: 0.239
Max BC CSI: 0.076
Max Web CSI: 0.090

VIEW Ver: 18.02.01B.0321.08

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| H | 189 | /- | /- | /- | /- | /- |
| E | 211 | /- | /- | /- | /- | /- |

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

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**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 connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Additional connection required to evenly distribute hanger reaction throughout all plies of supporting girder.

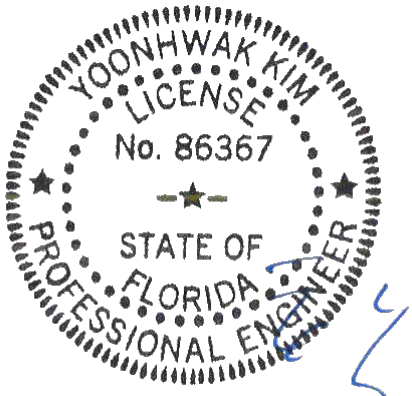
Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=3'6" ,y=9' uses the following support conditions: 3'6"
Bearing E (3'6", 9') THA422
Supporting Member: (2)4x2 SP M-31
(2) 0.162"x3.5" nails into supporting member,
(4) 0.148"x1.5" nails in flange and
(6) 0.148"x3" nails into supported member.

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

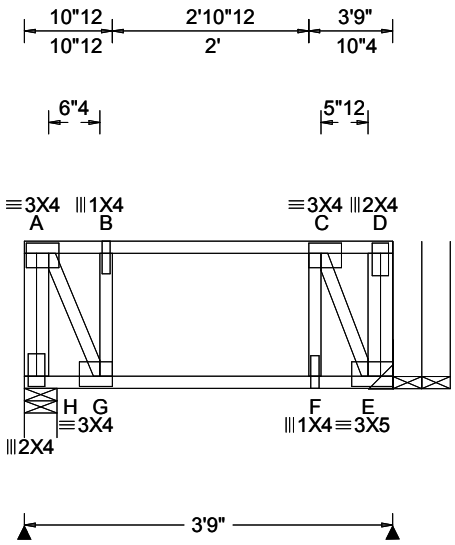
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 586269 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F09 | Cust: R 215 JRef: 1WU32150001 T19 /<br>DrwNo: 093.20.0748.47787<br>SSB / YK 04/02/2020 |




| **Loading Criteria** (psf) | **Wind Criteria** | **Snow Criteria** (Pg,Pf in PSF) | **Defl/CSI Criteria** |
|---|---|---|---|
| TCLL: 40.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 5.00<br>Des Ld: 55.00<br>NCBCLL: 10.00<br>Soffit: 0.00<br>Load Duration: 1.00<br>Spacing: 24.0 " | Wind Std: NA<br>Speed: NA mph<br>Enclosure: NA<br>Category: NA<br>EXP: NA Kzt: NA<br>Mean Height: NA ft<br>TCDL: NA psf<br>BCDL: NA psf<br>MWFRS Parallel Dist: NA<br>C&C Dist a: NA ft<br>Loc. from endwall: NA<br>I: NA GCpi: NA<br>Wind Duration: NA | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>**Code / Misc Criteria**<br>Bldg Code: FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT:12(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.004 B 999 480<br>VERT(CL): 0.006 B 999 360<br>HORZ(LL): 0.001 B - -<br>HORZ(TL): 0.002 B - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.222<br>Max BC CSI: 0.069<br>Max Web CSI: 0.095<br><br>VIEW Ver: 18.02.01B.0321.08 |

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| H | 206 | /- | /- | /- | /- | /- |
| E | 206 | /- | /- | /- | /- | /- |

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

**Lumber**

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

**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 connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Additional connection required to evenly distribute hanger reaction throughout all plies of supporting girder.

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.

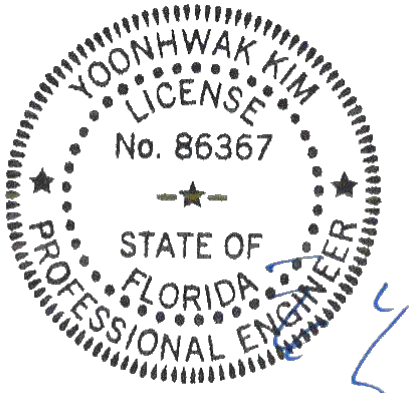
Bearing at location x=3'6" ,y=9' uses the following support conditions: 3'6"
Bearing E (3'6", 9') THA422
Supporting Member: (2)4x2 SP M-31
(2) 0.162"x3.5" nails into supporting member,
(4) 0.148"x1.5" nails in flange and
(6) 0.148"x3" nails into supported member.

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

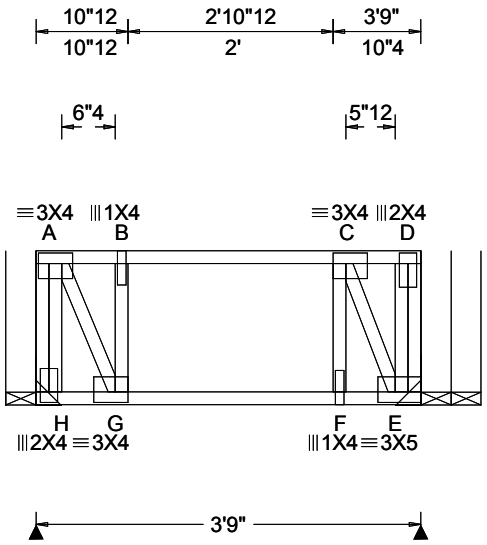
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 580770 / SY42<br>FROM: CDM<br>Page 1 of 2 | Ply: 1<br>Qty: 5 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F10 | Cust: R 215 JRef: 1WU32150001 T1 /<br>DrwNo: 093.20.0748.47648<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.004 | B | 999 | 480 |
| VERT(CL): 0.006 | B | 999 | 360 |
| HORZ(LL): 0.001 | B | - | - |
| HORZ(TL): 0.002 | B | - | - |

Creep Factor: 2.0
Max TC CSI: 0.222
Max BC CSI: 0.069
Max Web CSI: 0.095

VIEW Ver: 18.02.01B.0321.08

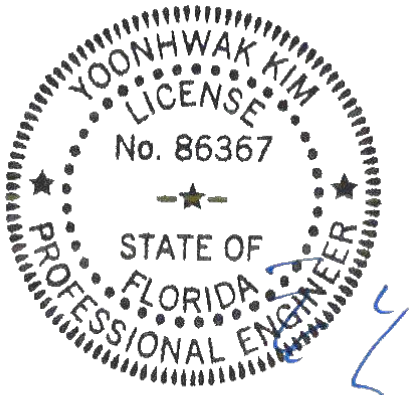
**▲Maximum Reactions (lbs)**

| | | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| H | 206 | /- | /- | /- | /- | /- |
| E | 206 | /- | /- | /- | /- | /- |
| H | Brg Width = - | | | Min Req = - | | |
| E | Brg Width = - | | | Min Req = - | | |

Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

****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

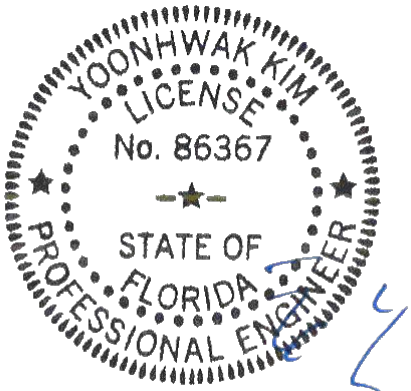
**Hangers / Ties**

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 connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Additional connection required to evenly distribute hanger reaction throughout all plies of supporting girder.

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' ,y=9' uses the following support conditions: 0'
Bearing H (0', 9') THA422
Supporting Member: (1)4x2 SP #2
(2) 0.162"x3.5" nails into supporting member,
(4) 0.148"x1.5" nails in flange and
(6) 0.148"x3" nails into supported member.
Bearing E (3'6", 9') THA422
Supporting Member: (2)4x2 SP #2
(2) 0.162"x3.5" nails into supporting member,
(4) 0.148"x1.5" nails in flange and
(6) 0.148"x3" nails into supported member.

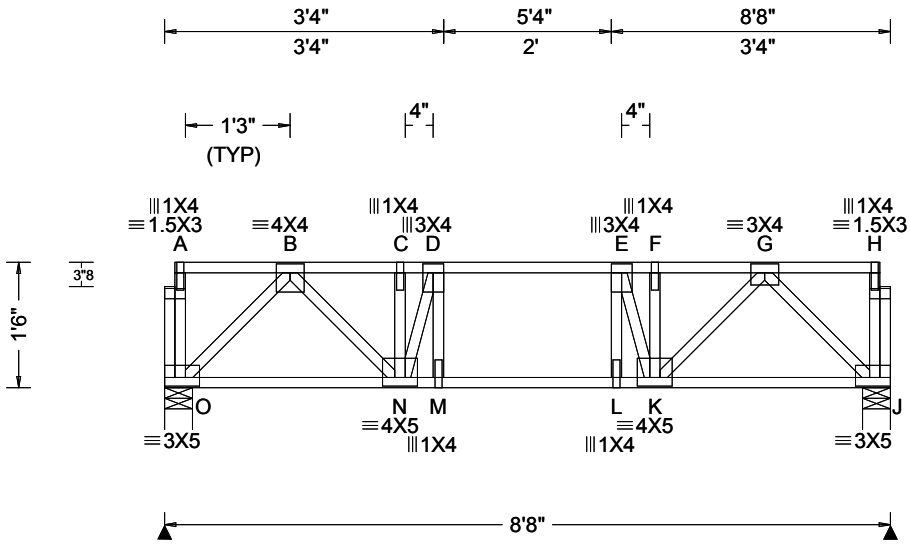



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020




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

| | | | |
|---|---|---|---|
| SEQN: 586273 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F11 | Cust: R 215 JRef:1WU32150001 T21 /<br>DrwNo: 093.20.0748.47695<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.059 | D | 999 | 480 |
| VERT(CL): 0.081 | D | 999 | 360 |
| HORZ(LL): 0.016 | B | - | - |
| HORZ(TL): 0.021 | B | - | - |

Creep Factor: 2.0
Max TC CSI: 0.496
Max BC CSI: 0.622
Max Web CSI: 0.369

VIEW Ver: 18.02.01B.0321.08

**▲Maximum Reactions (lbs)**

| | | Gravity | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| O | 1058 | /- | /- | /- | /- | /- |
| J | 902 | /- | /- | /- | /- | /- |

O Brg Width = 4.0 Min Req = 1.5
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 | 0 | -1339 | E - F | 0 | -1247 |
| C - D | 0 | -1339 | F - G | 0 | -1247 |
| D - E | 0 | -1411 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| O - N | 803 | 0 | L - K | 1408 | 0 |
| N - M | 1414 | 0 | K - J | 784 | 0 |
| M - L | 1411 | 0 | | | |

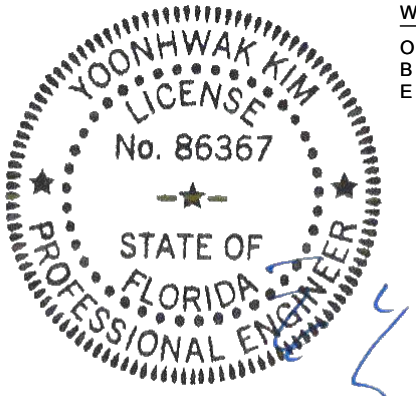
**Maximum Web Forces Per Ply (lbs)**

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| O - B | 0 | -1164 | K - G | 670 | 0 |
| B - N | 775 | 0 | G - J | 0 | -1136 |
| E - K | 0 | -583 | | | |

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**Special Loads**
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 100 plf at 0.12 to 100 plf at 8.54
BC: From 10 plf at 0.00 to 10 plf at 8.67
TC: 206 lb Conc. Load at 0.48, 2.48, 3.19, 5.19 7.19

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

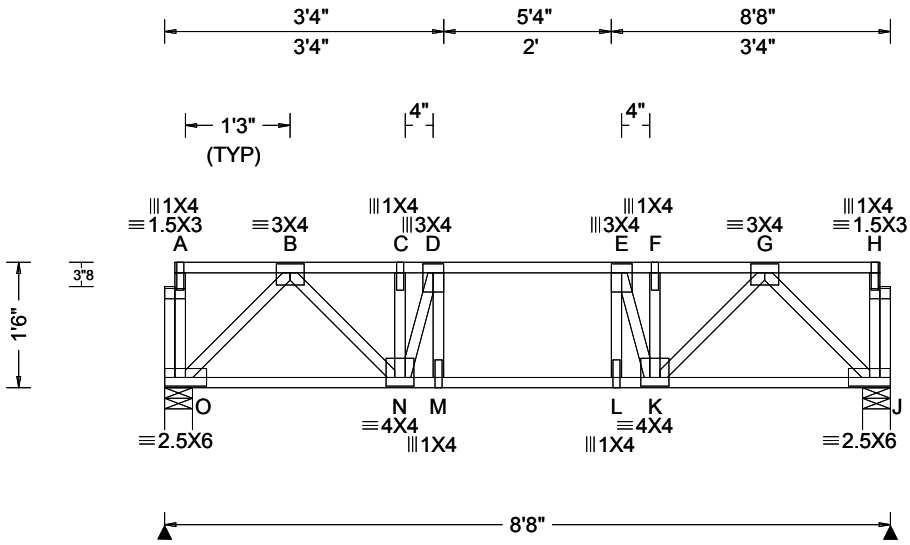
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 585910 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 5 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F12 | Cust: R 215 JRef: 1WU32150001 T3 /<br>DrwNo: 093.20.0748.47771<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.027 | D | 999 | 480 |
| VERT(CL): 0.043 | D | 999 | 360 |
| HORZ(LL): 0.009 | B | - | - |
| HORZ(TL): 0.014 | B | - | - |

Creep Factor: 2.0
Max TC CSI: 0.288
Max BC CSI: 0.324
Max Web CSI: 0.159

VIEW Ver: 18.02.01B.0321.08

**▲Maximum Reactions (lbs)**

| | | Gravity | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| O | 464 | /- | /- | /- | /- | /- |
| J | 464 | /- | /- | /- | /- | /- |

O Brg Width = 4.0 Min Req = 1.5
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 | 0 | -604 | E - F | 0 | -604 |
| C - D | 0 | -604 | F - G | 0 | -604 |
| D - E | 0 | -660 | | | |

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

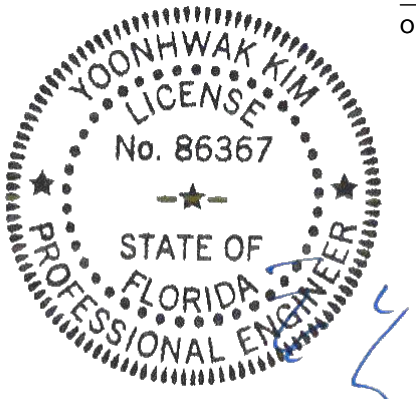
| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| N - M | 660 | 0 | L - K | 660 | 0 |
| M - L | 660 | 0 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| O - B | 0 | -541 | G - J | 0 | -541 |

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

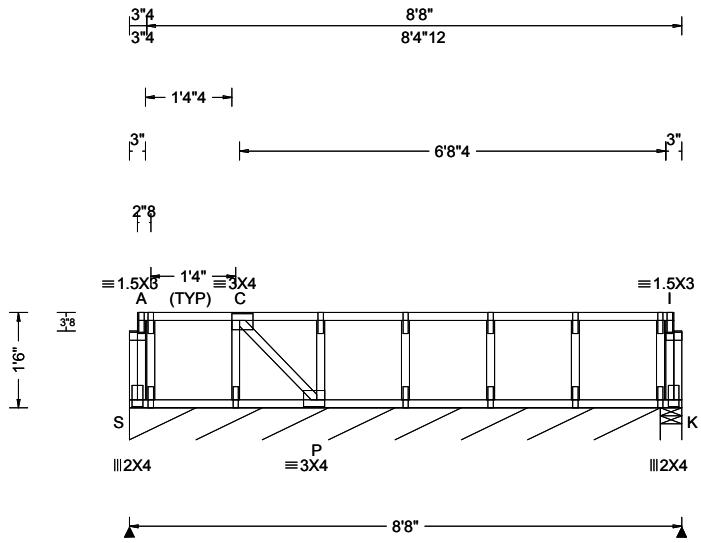
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 585908 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F13 | Cust: R 215 JRef: 1WU32150001 T4 /<br>DrwNo: 093.20.0748.47804<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: 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 | H | 999 | 480 |
| VERT(CL): 0.001 | H | 999 | 360 |
| HORZ(LL): 0.000 | P | - | - |
| HORZ(TL): 0.000 | P | - | - |

Creep Factor: 2.0
Max TC CSI: 0.098
Max BC CSI: 0.043
Max Web CSI: 0.035

VIEW Ver: 18.02.01B.0321.08

**▲Maximum Reactions (lbs), or *=PLF**

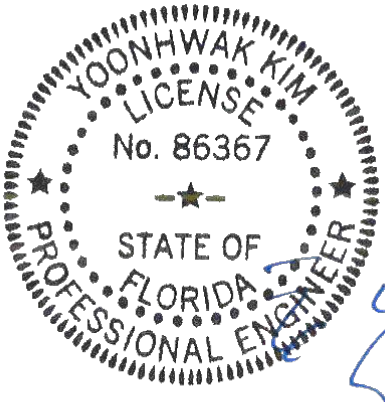
| | | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | | / Rw | / U | / RL |
| S* | 103 | /- | /- | | /- | /- | /- |
| K | 74 | /- | /- | | /- | /- | /- |

S Brg Width = 100 Min Req = -
K Brg Width = 4.0 Min Req = 1.5
Bearings S & L are a rigid surface.
Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**Plating Notes**
All plates are 1X4 except as noted.

**Additional Notes**
Refer to General Notes for additional information
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

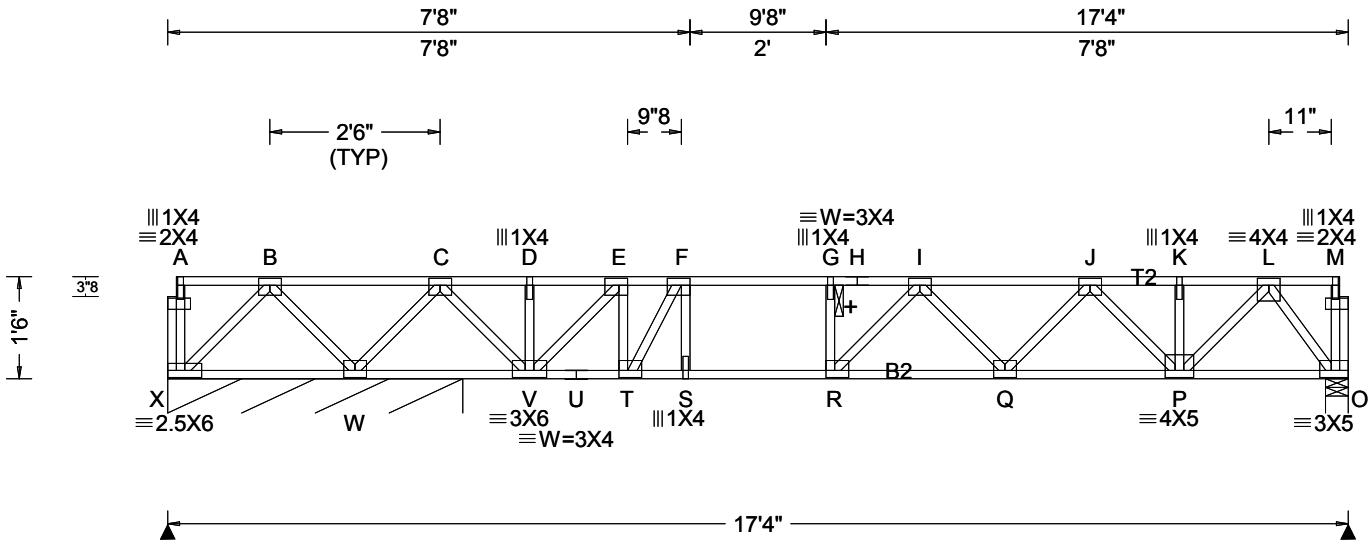
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 580774 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F14 | Cust: R 215 JRef:1WU32150001 T6 /<br>DrwNo: 093.20.0748.47507<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)

| | |
|---|---|
| TCLL: | 40.00 |
| TCDL: | 10.00 |
| BCLL: | 0.00 |
| BCDL: | 5.00 |
| Des Ld: | 55.00 |
| NCBCLL: | 10.00 |
| Soffit: | 0.00 |

Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.161 | G | 953 | 480 |
| VERT(CL): 0.222 | G | 691 | 360 |
| HORZ(LL): 0.016 | O | - | - |
| HORZ(TL): 0.023 | O | - | - |

Creep Factor: 2.0
Max TC CSI: 0.402
Max BC CSI: 0.549
Max Web CSI: 0.378

VIEW Ver: 18.02.01B.0321.08

**▲ Maximum Reactions (lbs), or *=PLF**

| | Gravity | | Non-Gravity | | |
|---|---|---|---|---|---|
| Loc | R+ / R- | / Rh | / Rw | / U | / RL |
| X* | 257 /- | /- | /- | /- | /- |
| O | 767 /- | /- | /- | /- | /- |

X Brg Width = 52.0 Min Req = -
O Brg Width = 4.0 Min Req = 1.5
Bearings X & O 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 | 398 | -44 | G - H | 0 | -1781 |
| C - D | 0 | -911 | H - I | 0 | -1781 |
| D - E | 0 | -911 | I - J | 0 | -1723 |
| E - F | 0 | -1418 | J - K | 0 | -1054 |
| F - G | 0 | -1780 | K - L | 0 | -1054 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| W - V | 847 | 0 | S - R | 1780 | 0 |
| V - U | 1371 | 0 | R - Q | 1885 | 0 |
| U - T | 1371 | 0 | Q - P | 1494 | 0 |
| T - S | 1770 | 0 | P - O | 506 | 0 |

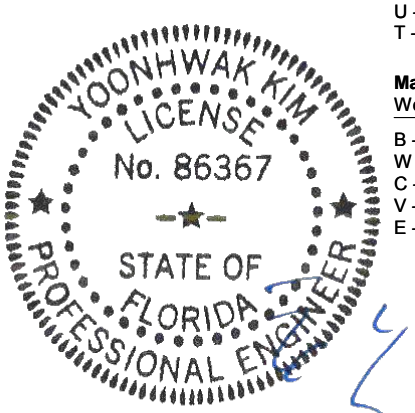
**Maximum Web Forces Per Ply (lbs)**

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - W | 0 | -446 | T - F | 0 | -765 |
| W - C | 0 | -990 | J - P | 0 | -637 |
| C - V | 708 | 0 | P - L | 794 | 0 |
| V - E | 0 | -666 | L - O | 0 | -872 |
| E - T | 528 | 0 | | | |

**Lumber**
Top chord: 4x2 SP M-31; T2 4x2 SP #2;
Bot chord: 4x2 SP #2; B2 4x2 SP M-31;
Webs: 4x2 SP #3;

**Plating Notes**
All plates are 3X4 except as noted.

**Additional Notes**
Refer to General Notes for additional information
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

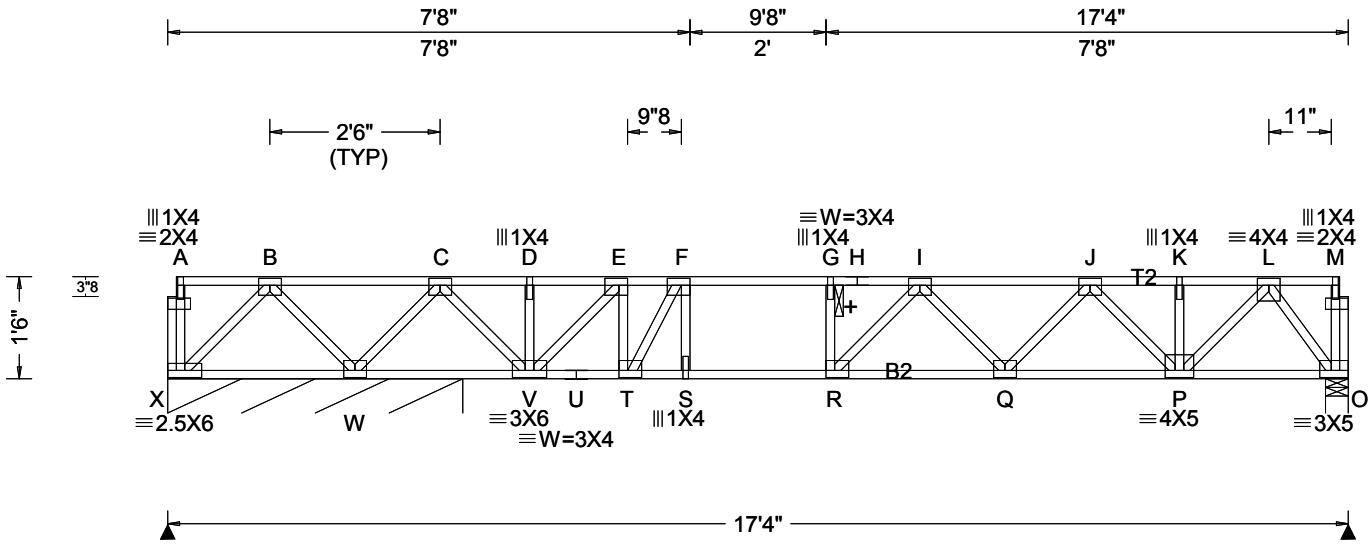
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 580762 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 4 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F15 | Cust: R 215 JRef: 1WU32150001 T9 /<br>DrwNo: 093.20.0748.47632<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)

| | |
|---|---|
| TCLL: | 40.00 |
| TCDL: | 10.00 |
| BCLL: | 0.00 |
| BCDL: | 5.00 |
| Des Ld: | 55.00 |
| NCBCLL: | 10.00 |
| Soffit: | 0.00 |

Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.161 | G | 953 | 480 |
| VERT(CL): 0.222 | G | 691 | 360 |
| HORZ(LL): 0.016 | O | - | - |
| HORZ(TL): 0.023 | O | - | - |

Creep Factor: 2.0
Max TC CSI: 0.402
Max BC CSI: 0.549
Max Web CSI: 0.378

VIEW Ver: 18.02.01B.0321.08

**▲ Maximum Reactions (lbs), or *=PLF**

| | Gravity | | Non-Gravity | | |
|---|---|---|---|---|---|
| Loc | R+ / R- | / Rh | / Rw | / U | / RL |
| X* | 257 /- | /- | /- | /- | /- |
| O | 767 /- | /- | /- | /- | /- |

X Brg Width = 52.0 Min Req = -
O Brg Width = 4.0 Min Req = 1.5
Bearings X & O 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 | 398 | -44 | G - H | 0 | -1781 |
| C - D | 0 | -911 | H - I | 0 | -1781 |
| D - E | 0 | -911 | I - J | 0 | -1723 |
| E - F | 0 | -1418 | J - K | 0 | -1054 |
| F - G | 0 | -1780 | K - L | 0 | -1054 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| W - V | 847 | 0 | S - R | 1780 | 0 |
| V - U | 1371 | 0 | R - Q | 1885 | 0 |
| U - T | 1371 | 0 | Q - P | 1494 | 0 |
| T - S | 1770 | 0 | P - O | 506 | 0 |

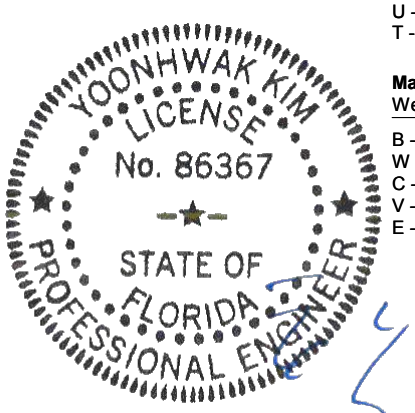
**Maximum Web Forces Per Ply (lbs)**

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - W | 0 | -446 | T - F | 0 | -765 |
| W - C | 0 | -990 | J - P | 0 | -637 |
| C - V | 708 | 0 | P - L | 794 | 0 |
| V - E | 0 | -666 | L - O | 0 | -872 |
| E - T | 528 | 0 | | | |

**Lumber**
Top chord: 4x2 SP M-31; T2 4x2 SP #2;
Bot chord: 4x2 SP #2; B2 4x2 SP M-31;
Webs: 4x2 SP #3;

**Plating Notes**
All plates are 3X4 except as noted.

**Additional Notes**
Refer to General Notes for additional information
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

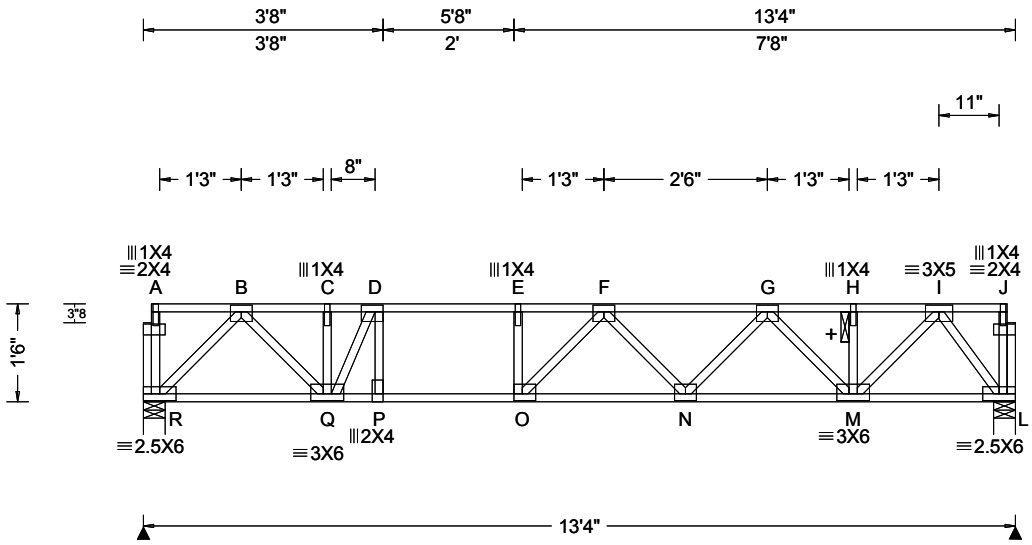
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 580759 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F16 | Cust: R 215 JRef: 1WU32150001 T13 /<br>DrwNo: 093.20.0748.47537<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.176 | E | 883 | 480 |
| VERT(CL): 0.253 | E | 614 | 360 |
| HORZ(LL): -0.022 | I | - | - |
| HORZ(TL): 0.034 | I | - | - |

Creep Factor: 2.0
Max TC CSI: 0.868
Max BC CSI: 0.570
Max Web CSI: 0.347

VIEW Ver: 18.02.01B.0321.08

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| R | 721 | /- | /- | /- | /- | /- |
| L | 721 | /- | /- | /- | /- | /- |

R Brg Width = 4.0 Min Req = 1.5
L Brg Width = 4.0 Min Req = 1.5
Bearings R & 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 | 0 | -1082 | F - G | 0 | -1567 |
| C - D | 0 | -1082 | G - H | 0 | -976 |
| D - E | 0 | -1503 | H - I | 0 | -976 |
| E - F | 0 | -1505 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| R - Q | 616 | 0 | O - N | 1674 | 0 |
| Q - P | 1489 | 0 | N - M | 1375 | 0 |
| P - O | 1503 | 0 | M - L | 472 | 0 |

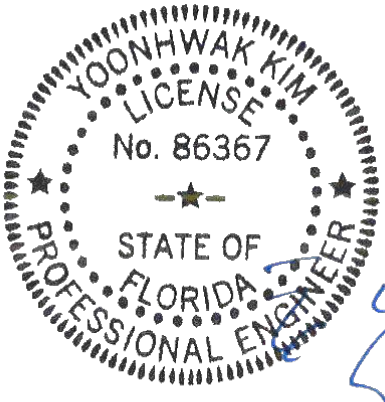
**Maximum Web Forces Per Ply (lbs)**

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| R - B | 0 | -893 | G - M | 0 | -578 |
| B - Q | 674 | 0 | M - I | 730 | 0 |
| Q - D | 0 | -937 | I - L | 0 | -815 |

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP M-31;
Webs: 4x2 SP #3;

**Plating Notes**
All plates are 3X4 except as noted.

**Additional Notes**
Refer to General Notes for additional information
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

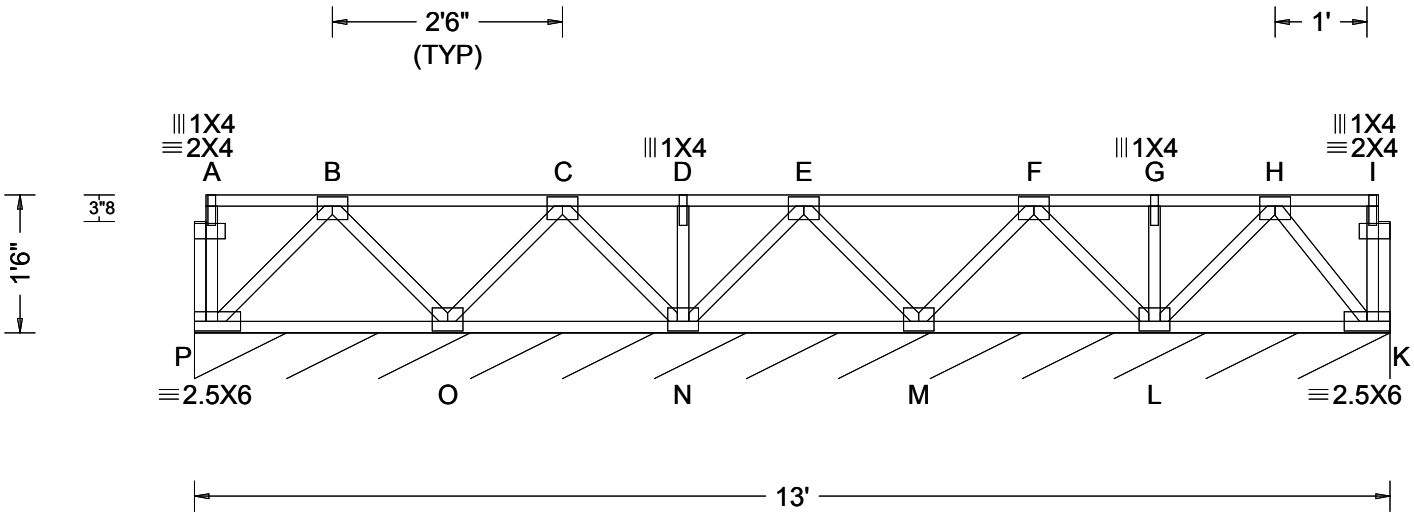
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 580757 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F17 | Cust: R 215 JRef: 1WU32150001 T15 /<br>DrwNo: 093.20.0748.47492<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.002 | B | 999 | 480 |
| VERT(CL): 0.003 | B | 999 | 360 |
| HORZ(LL): -0.001 | P | - | - |
| HORZ(TL): 0.001 | P | - | - |

Creep Factor: 2.0
Max TC CSI: 0.289
Max BC CSI: 0.112
Max Web CSI: 0.042

VIEW Ver: 18.02.01B.0321.08

**▲Maximum Reactions (lbs), or *=PLF**

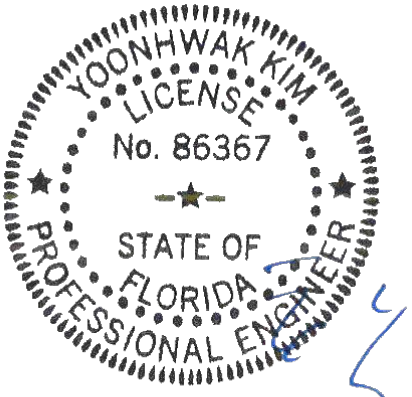
| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| P* | 108 | /- | /- | /- | /- | /- |

P Brg Width = 156 Min Req = -
Bearing P is a rigid surface.
Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**Plating Notes**
All plates are 3X4 except as noted.

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

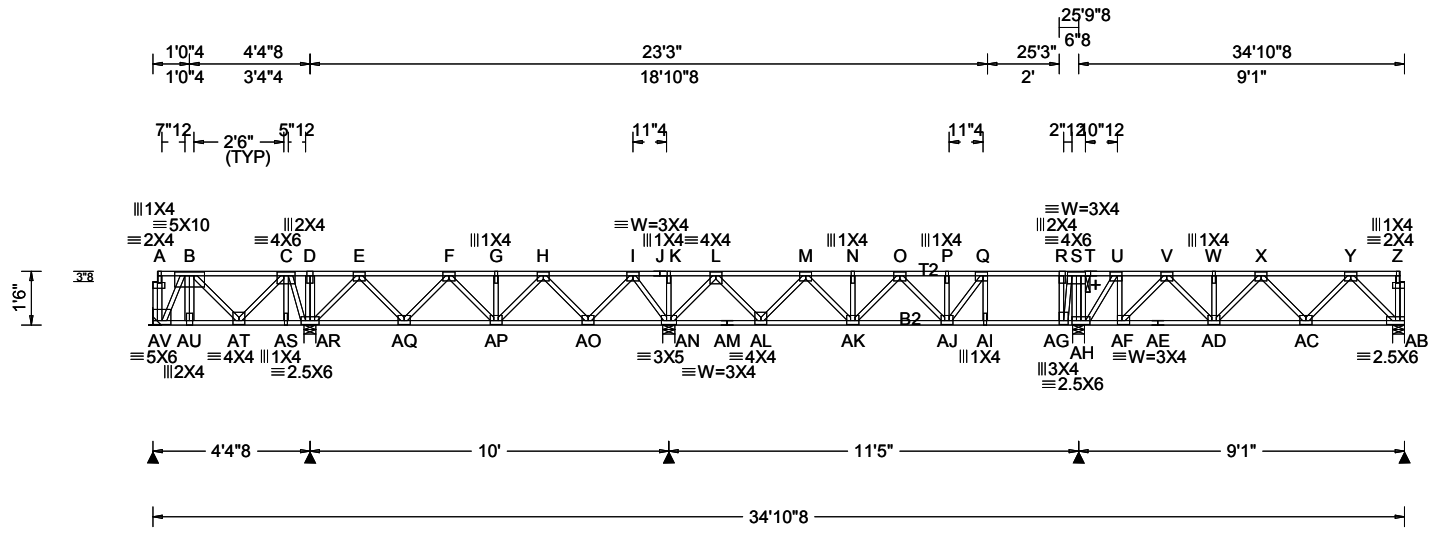
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 580751 / SY42<br>FROM: CDM<br>Page 1 of 2 | Ply: 1<br>Qty: 4 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F18 | Cust: R 215 JRef: 1WU32150001 T17 /<br>DrwNo: 093.20.0748.47460<br>/ YK 04/02/2020 |




| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria |
|---|---|---|---|
| TCLL: 40.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 5.00<br>Des Ld: 55.00<br>NCBCLL: 10.00<br>Soffit: 0.00<br>Load Duration: 1.00<br>Spacing: 24.0 " | Wind Std: NA<br>Speed: NA mph<br>Enclosure: NA<br>Category: NA<br>EXP: NA Kzt: NA<br>Mean Height: NA ft<br>TCDL: NA psf<br>BCDL: NA psf<br>MWFRS Parallel Dist: NA<br>C&C Dist a: NA ft<br>Loc. from endwall: NA<br>I: NA GCpi: NA<br>Wind Duration: NA | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>**Code / Misc Criteria**<br>Bldg Code: FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT:12(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.112 Q 999 480<br>VERT(CL): 0.190 Q 725 360<br>HORZ(LL): 0.010 M - -<br>HORZ(TL): 0.017 M - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.775<br>Max BC CSI: 0.771<br>Max Web CSI: 0.577<br><br>VIEW Ver: 18.02.01B.0321.08 |

**▲ Maximum Reactions (lbs)**

| | Gravity | | Non-Gravity | | |
|---|---|---|---|---|---|
| Loc | R+ / R- | / Rh | / Rw | / U | / RL |
| AV | 2228 /- | /- | /- | /- | /- |
| AR | 1384 /- | /- | /- | /- | /- |
| AN | 1597 /- | /- | /- | /- | /- |
| AG | 840 /- | /- | /- | /- | /- |
| AB | 536 /- | /- | /- | /- | /- |

AV Brg Width = - Min Req = -
AR Brg Width = 4.0 Min Req = 1.5
AN Brg Width = 4.0 Min Req = 1.5
AG Brg Width = 4.0 Min Req = 1.5
AB Brg Width = 4.0 Min Req = 1.5
Bearings AR, AN, AG, & AB are a rigid surface.

Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 0 | -799 | N - O | 91 | -703 |
| C - D | 425 | 0 | O - P | 0 | -1015 |
| D - E | 425 | 0 | P - Q | 0 | -1015 |
| F - G | 550 | -439 | Q - R | 48 | -810 |
| G - H | 550 | -439 | R - S | 51 | -788 |
| H - I | 979 | -34 | S - T | 105 | -528 |
| I - J | 1666 | 0 | T - U | 105 | -528 |
| J - K | 1666 | 0 | U - V | 0 | -581 |
| K - L | 1666 | 0 | V - W | 0 | -920 |
| L - M | 386 | 0 | W - X | 0 | -920 |
| M - N | 91 | -703 | X - Y | 0 | -695 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| AV-AU | 1287 | 0 | AJ-AI | 820 | -46 |
| AU-AT | 1287 | 0 | AI-AH | 810 | -48 |
| AQ-AP | 453 | -389 | AH-AG | 585 | -87 |
| AP-AO | 336 | -748 | AG-AF | 560 | 0 |
| AO-AN | 0 | -1226 | AF-AE | 816 | 0 |
| AN-AM | 0 | -919 | AE-AD | 816 | 0 |
| AM-AL | 0 | -919 | AD-AC | 906 | 0 |
| AK-AJ | 927 | -31 | AC-AB | 459 | 0 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| AV-B | 0 | -2483 | L -AL | 800 | 0 |
| B -AT | 0 | -839 | AL- M | 0 | -776 |
| AT- C | 927 | 0 | M -AK | 487 | 0 |

**Lumber**

Top chord: 4x2 SP #2; T2 4x2 SP M-31;
Bot chord: 4x2 SP #2; B2 4x2 SP M-31;
Webs: 4x2 SP #3;

**Special Loads**

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 100 plf at 0.12 to 100 plf at 34.75
BC: From 10 plf at 0.00 to 10 plf at 34.88
TC: 2541 lb Conc. Load at 1.02

**Plating Notes**

All plates are 3X4 except as noted.

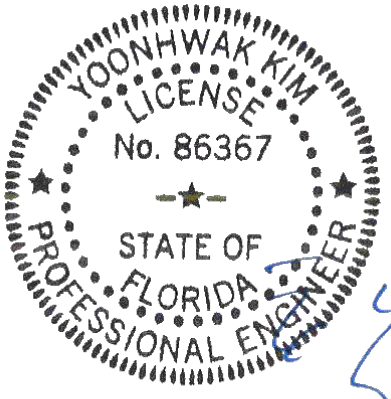
**Additional Notes**

Refer to General Notes for additional information

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

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

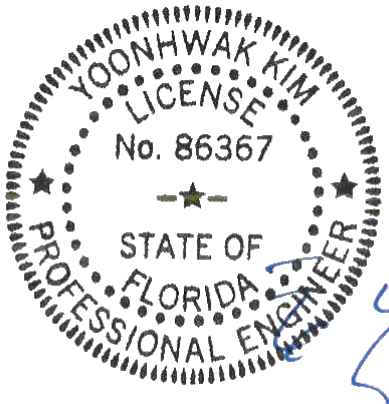
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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

| | | | | | |
|---|---|---|---|---|---|
| C -AR | 0 | -949 | R -AH | 0 | -469 |
| AR- E | 98 | -612 | AH- S | 815 | 0 |
| H -AO | 0 | -637 | S -AG | 0 | -652 |
| AO- I | 655 | 0 | AG- U | 39 | -522 |
| I -AN | 0 | -820 | AF- V | 0 | -427 |
| AN- L | 0 | -1087 | Y -AB | 0 | -665 |




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

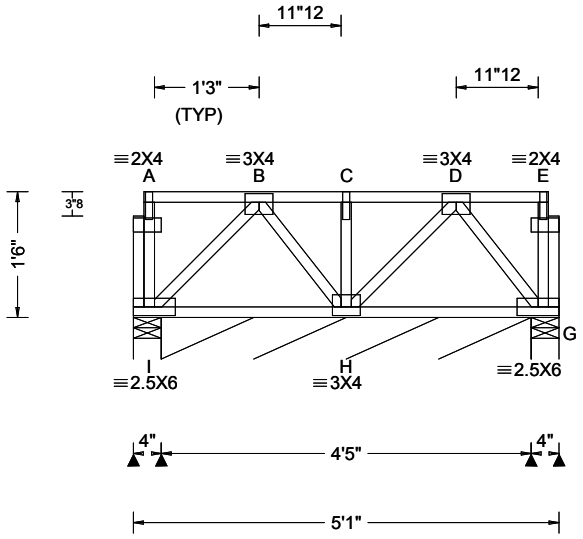
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 580731 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F19 | Cust: R 215 JRef: 1WU32150001 T8 /<br>DrwNo: 093.20.0748.47476<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.001 | D | 999 | 480 |
| VERT(CL): 0.002 | D | 999 | 360 |
| HORZ(LL): 0.000 | G | - | - |
| HORZ(TL): 0.000 | G | - | - |

Creep Factor: 2.0
Max TC CSI: 0.096
Max BC CSI: 0.110
Max Web CSI: 0.027

VIEW Ver: 18.02.01B.0321.08

**▲Maximum Reactions (lbs), or *=PLF**

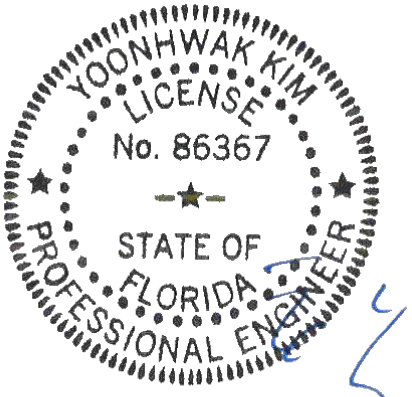
| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| I | 126 | /- | /- | /- | /- | /- |
| I* | 64 | /- | /- | /- | /- | /- |
| G | 126 | /- | /- | /- | /- | /- |

I Brg Width = 4.0 Min Req = 1.5
I Brg Width = 53.0 Min Req = -
G Brg Width = 4.0 Min Req = 1.5
Bearings I, I, & G are a rigid surface.
Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**Plating Notes**
All plates are 1X4 except as noted.

**Additional Notes**
Refer to General Notes for additional information
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

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

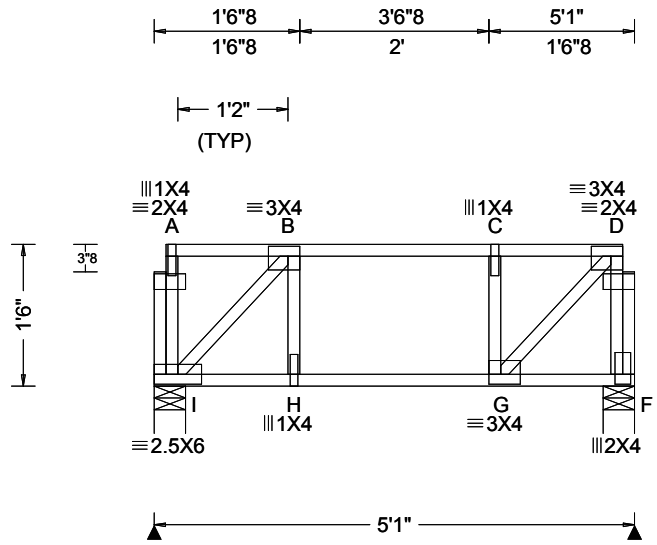
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 580729 / SY42<br>FROM: CDM | Ply: 1<br>Qty: 3 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F20 | Cust: R 215 JRef: 1WU32150001 T5 /<br>DrwNo: 093.20.0748.47477<br>SSB / YK 04/02/2020 |




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.010 | C | 999 | 480 |
| VERT(CL): 0.015 | C | 999 | 360 |
| HORZ(LL): 0.005 | B | - | - |
| HORZ(TL): 0.008 | B | - | - |

Creep Factor: 2.0
Max TC CSI: 0.215
Max BC CSI: 0.126
Max Web CSI: 0.134

VIEW Ver: 18.02.01B.0321.08

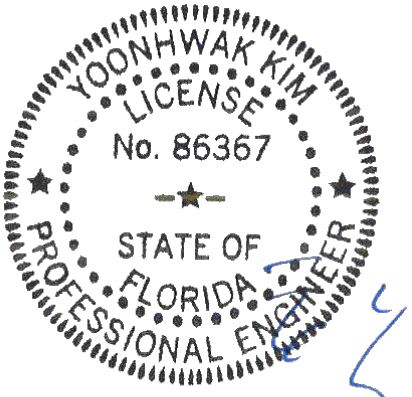
**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| I | 267 | /- | /- | /- | /- | /- |
| F | 267 | /- | /- | /- | /- | /- |

I Brg Width = 4.0 Min Req = 1.5
F Brg Width = 4.0 Min Req = 1.5
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

**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 1-6-0.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

****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.

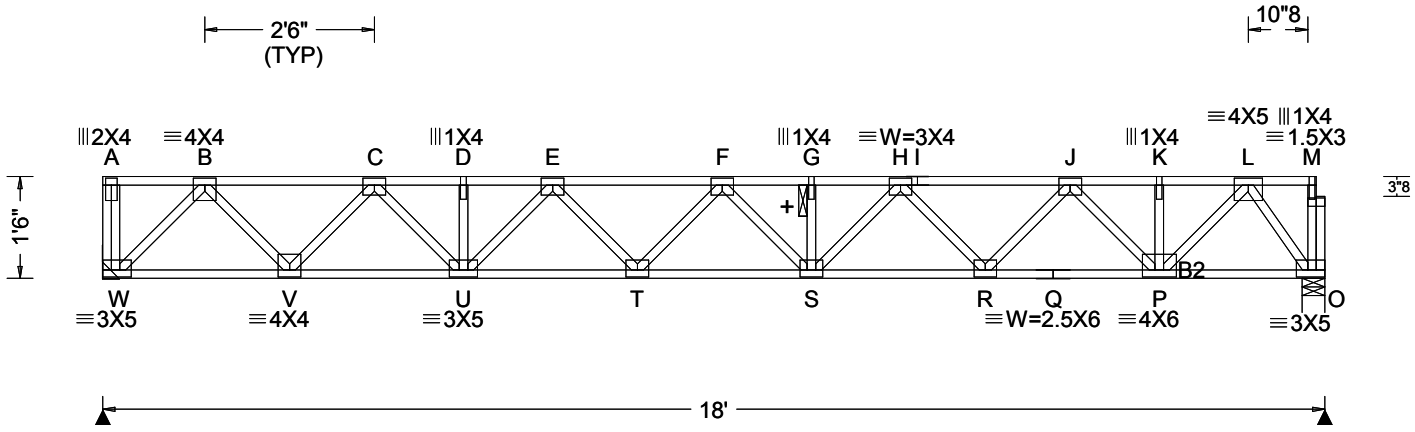
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, 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: 586271 / SY42<br>FROM: CDM | Ply: 2<br>Qty: 1 | **Job Number:** 20-3965FB<br>/Crosby /SPARKS CONST.<br>**Truss Label:** F21 | Cust: R 215 JRef: 1WU32150001 T2 /<br>DrwNo: 093.20.0748.47694<br>SSB / YK 04/02/2020 |

**2 Complete Trusses Required**




**Loading Criteria** (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

**Wind Criteria**
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

**Code / Misc Criteria**
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.214 | F | 986 | 480 |
| VERT(CL): 0.294 | F | 717 | 360 |
| HORZ(LL): 0.038 | B | - | - |
| HORZ(TL): 0.052 | B | - | - |

Creep Factor: 2.0
Max TC CSI: 0.778
Max BC CSI: 0.646
Max Web CSI: 0.526

VIEW Ver: 18.02.01B.0321.08

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| W | 2105 | /- | /- | /- | /- | /- |
| O | 1942 | /- | /- | /- | /- | /- |

W Brg Width = - Min Req = -
O Brg Width = 4.0 Min Req = 1.5
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 | 0 | -1480 | G - H | 0 | -3068 |
| C - D | 0 | -2538 | H - I | 0 | -2509 |
| D - E | 0 | -2538 | I - J | 0 | -2509 |
| E - F | 0 | -3034 | J - K | 0 | -1413 |
| F - G | 0 | -3068 | K - L | 0 | -1413 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| W - V | 845 | 0 | S - R | 2924 | 0 |
| V - U | 2103 | 0 | R - Q | 2083 | 0 |
| U - T | 2898 | 0 | Q - P | 2083 | 0 |
| T - S | 3159 | 0 | P - O | 651 | 0 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| W - B | 0 | -1258 | H - R | 0 | -616 |
| B - V | 944 | 0 | R - J | 633 | 0 |
| V - C | 0 | -926 | J - P | 0 | -971 |
| C - U | 630 | 0 | P - L | 1104 | 0 |
| U - E | 0 | -521 | L - O | 0 | -1155 |

**Lumber**
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP M-31; B2 4x2 SP #2;
Webs: 4x2 SP #3;

**Special Loads**
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 100 plf at 0.00 to 100 plf at 17.88
BC: From 10 plf at 0.00 to 10 plf at 18.00
TC: 211 lb Conc. Load at 0.31, 1.81, 3.81, 5.81
TC: 206 lb Conc. Load at 7.81, 9.81,11.81,12.52 14.52,16.52

**Plating Notes**
All plates are 3X4 except as noted.

**Additional Notes**
See DWG CNSY42PL0118 for connection details of 2 ply trusses.

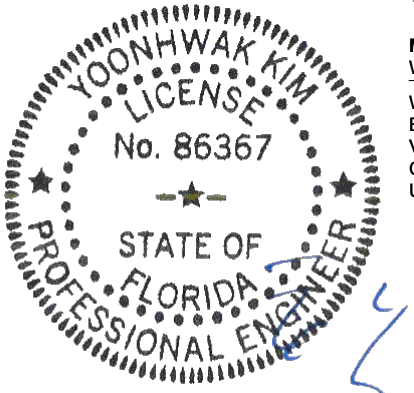
Refer to General Notes for additional information

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

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1-6-0.

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.




FL REG# 278, Yoonhwak Kim, FL PE #86367
04/02/2020

****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.

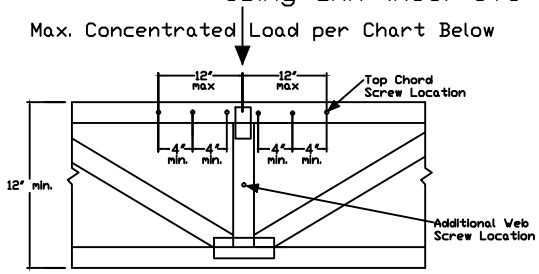
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, 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

# System 42 Ply to Ply Connection Detail

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

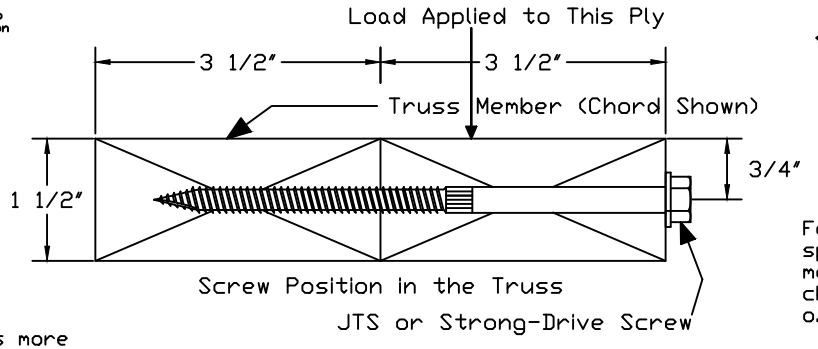


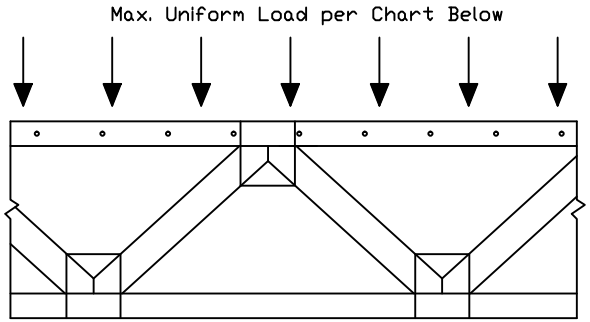

Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

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

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing for individual truss design.




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

Screws need only apply to the extents of that load.

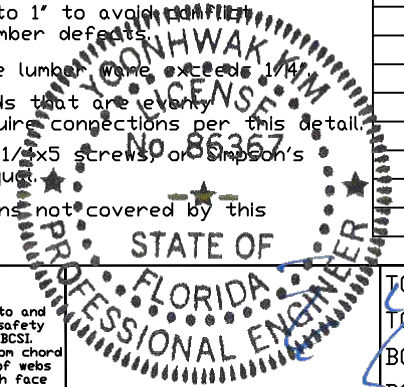
For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

| # of Screws | Maximum Concentrated Load (lbs) (1.00 DF) | | |
|---|---|---|---|
| | SP | DFL | SPF |
| 1 | 474 | 442 | 400 |
| 2 | 984 | 884 | 800 |
| 3 | 1422 | 1326 | 1200 |
| 4 | 1896 | 1768 | 1600 |
| 5 | 2370 | 2210 | 2000 |
| 6 | 2844 | 2652 | 2400 |
| 7 | 3318 | 3094 | 2800 |
| 8 | 3792 | 3536 | 3200 |
| 9 | 4266 | 3978 | 3600 |
| 10 | 4740 | 4420 | 4000 |
| 11 | 5214 | 4862 | 4400 |
| 12 | 5688 | 5304 | 4800 |

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

| Top Chord Screw o.c. Spacing (inch) | Maximum Uniform Load (plf) Along Top Chord (1.00 DF) | | |
|---|---|---|---|
| | SP | DFL | SPF |
| 4 | 1422 | 1326 | 1200 |
| 6 | 948 | 884 | 800 |
| 8 | 711 | 663 | 600 |
| 10 | 568 | 530 | 480 |
| 12 | 474 | 442 | 400 |
| 14 | 406 | 378 | 342 |
| 16 | 355 | 331 | 300 |
| 18 | 316 | 294 | 266 |
| 20 | 284 | 265 | 240 |
| 22 | 258 | 241 | 218 |
| 24 | 237 | 221 | 200 |





ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

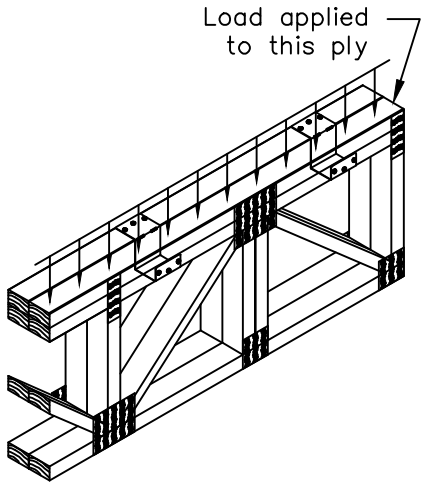



| | | |
|---|---|---|
| TC LL | PSF | REF SY42 Connection |
| TC DL | PSF | DATE 01/19/2018 |
| BC DL | PSF | DRWG CNSY42PL0118 |
| BC LL | PSF | |
| TOT. LD. | PSF | |
| DUR. FAC. | 1.00 | |
| SPACING | | |

# SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

## FOR DOWNWARD LOADS ONLY

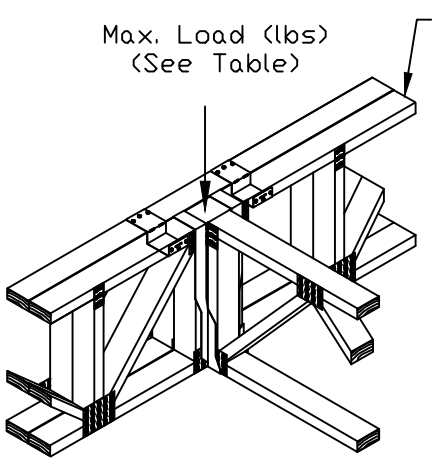
### Uniform Load Application




| Max. T.C. Uniform Load (plf) | | | Clip Spacing Along Top Chord |
|---|---|---|---|
| SP | DF | SPF/HF | |
| 935 | 810 | 585 | 12" o.c. |
| 625 | 540 | 390 | 18" o.c. |
| 470 | 405 | 295 | 24" o.c. |
| 375 | 325 | 235 | 30" o.c. |

Maximum LSC spacing is 30" o.c.

### Concentrated Load Application



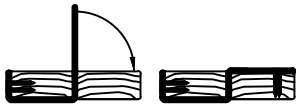

| Max Load (lbs) | | |
|---|---|---|
| SP | DF | SPF/HF |
| 1870 | 1620 | 1170 |

Note:
Install LSC adjacent, equidistant and not more than 6" on each side of concentrated load.

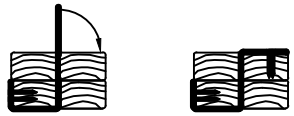
### Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



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

Refer to Alpine sealed drawing for individual truss design.

YOONHWA KIM
LICENSE
No. 86367
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

ALPINE™
AN ITW COMPANY

13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

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

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

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

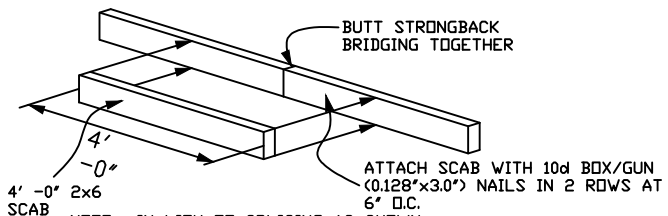
**A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

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

DUR. FAC. ALL

REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

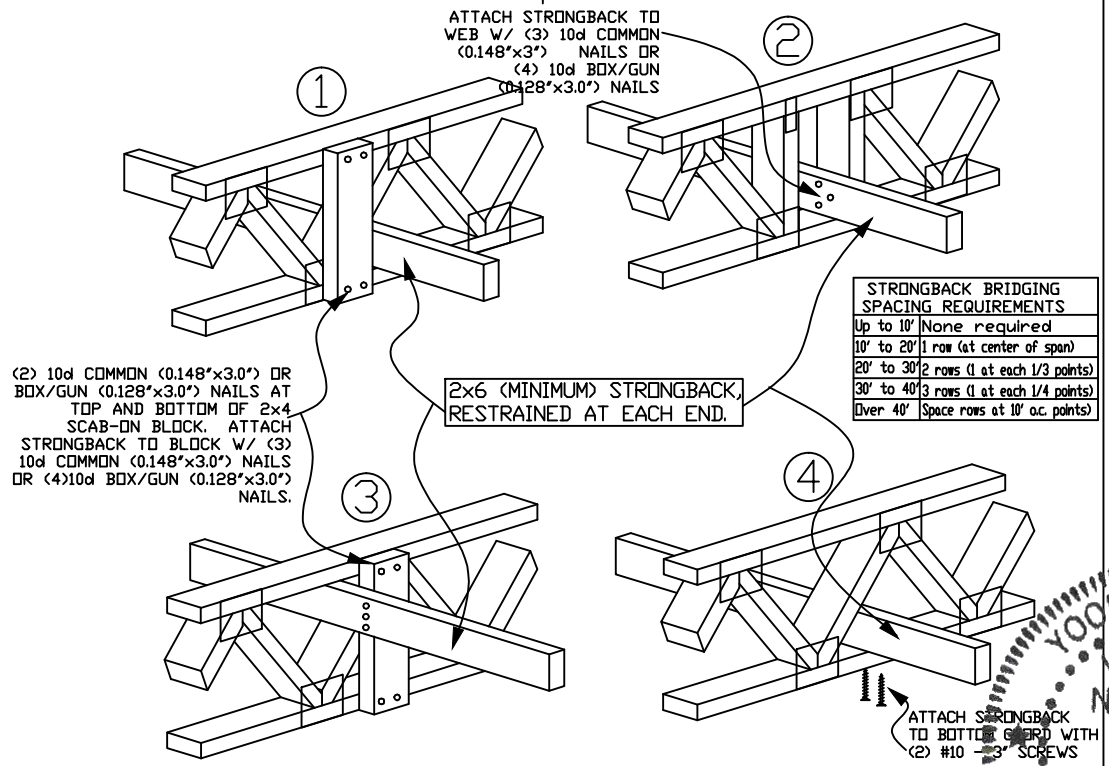
# STRONGBACK BRIDGING RECOMMENDATIONS




NOTE: IN LIEU OF SPLICING AS SHOWN, LAP STRONGBACK BRIDGING MEMBERS FOR AT LEAST ONE TRUSS SPACING

STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods




| STRONGBACK BRIDGING SPACING REQUIREMENTS | |
|---|---|
| Up to 10' | None required |
| 10' to 20' | 1 row (at center of span) |
| 20' to 30' | 2 rows (1 at each 1/3 points) |
| 30' to 40' | 3 rows (1 at each 1/4 points) |
| Over 40' | Space rows at 10' o.c. points) |

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

ALPINE AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

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

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

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

**A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

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

| | | |
|---|---|---|
| TC LL | PSF | REF STRONGBACK |
| TC DL | PSF | DATE 10/01/14 |
| BC DL | PSF | DRWG STRBRIBR1014 |
| BC LL | PSF | |
| TOT. LD. | PSF | |
| DUR. FAC. | 1.00 | |
| SPACING | | |

04/02/2020
FL REG# 278, Yoonhwak Kim, FL PE #86367