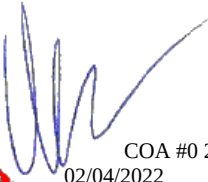


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COA #0 278  
02/04/2022



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: 22-6913 |
| Job Description: Lot 45 Jewel Lake    |                     |
| Address: LAKE CITY, FL                |                     |

| Job Engineering Criteria:                      |
|------------------------------------------------|
| Design Code: FBC 7th Ed. 2020 Res.             |
| IntelliVIEW Version: 21.01.01A                 |
| JRef #: 1XcS2150016                            |
| Wind Standard: ASCE 7-16 Wind Speed (mph): 130 |
| Design Loading (psf): 40.00                    |
| Building Type: Closed                          |

This package contains general notes pages, 25 truss drawing(s) and 5 detail(s).

| Item | Drawing Number    | Truss |
|------|-------------------|-------|
| 1    | 035.22.1709.33308 | A01   |
| 3    | 035.22.1709.32276 | A03   |
| 5    | 035.22.1709.34182 | B01   |
| 7    | 035.22.1709.34057 | B03   |
| 9    | 035.22.1709.33573 | B05   |
| 11   | 035.22.1709.33307 | B07   |
| 13   | 035.22.1709.32479 | C02   |
| 15   | 035.22.1709.32542 | D01   |
| 17   | 035.22.1709.32089 | G01   |
| 19   | 035.22.1709.34385 | HJ1   |
| 21   | 035.22.1709.34917 | J2    |
| 23   | 035.22.1709.33370 | J3    |
| 25   | 035.22.1709.33885 | P02   |
| 27   | A14030ENC160118   |       |
| 29   | GBLLETIN0118      |       |

| Item | Drawing Number    | Truss |
|------|-------------------|-------|
| 2    | 035.22.1709.33339 | A02   |
| 4    | 035.22.1709.32652 | A04   |
| 6    | 035.22.1709.34104 | B02   |
| 8    | 035.22.1709.33245 | B04   |
| 10   | 035.22.1709.33807 | B06   |
| 12   | 035.22.1709.32932 | C01   |
| 14   | 035.22.1709.32558 | C03   |
| 16   | 035.22.1709.32495 | D02   |
| 18   | 035.22.1709.34010 | G02   |
| 20   | 035.22.1709.34229 | J1    |
| 22   | 035.22.1709.33057 | J2A   |
| 24   | 035.22.1709.32557 | P01   |
| 26   | A14015ENC160118   |       |
| 28   | BRCLBSUB0119      |       |
| 30   | PB160160118       |       |

## **General Notes**

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

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

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

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

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

### **Temporary Lateral Restraint and Bracing:**

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

### **Permanent Lateral Restraint and Bracing:**

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

### **Connector Plate Information:**

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

### **Fire Retardant Treated Lumber:**

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

## **General Notes** (continued)

### **Key to Terms:**

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

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

**References:**

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

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
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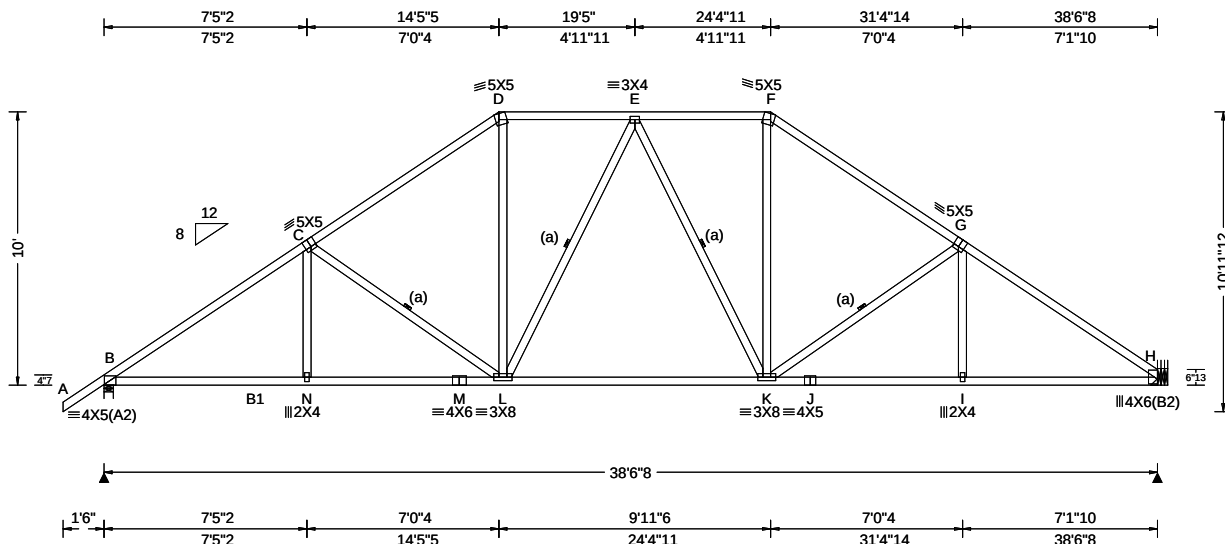
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For more information see these web sites: Alpine: [alpinetw.com](http://alpinetw.com); TPI: [tpiinst.org](http://tpiinst.org); SBCA: [sbcsindustry.com](http://sbcsindustry.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)



6750 Forum Drive  
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 Orlando FL, 32821



| Loading Criteria (psf) | Wind Criteria                     | Snow Criteria (Pg,Pf in PSF) | Defll/CSI Criteria              | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                             |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
|------------------------|-----------------------------------|------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|--------|-------------|-------|------------|-------|------------|------|------|-----|------|---|------|-------|-------|------|------|---|------|-------|------|------|----|
| TCLL: 20.00            | Wind Std: ASCE 7-16               | Pg: NA Ct: NA CAT: NA        | PP Deflection in loc L/defl L/# | <table><tr><th colspan="3">Gravity</th><th colspan="3">Non-Gravity</th></tr><tr><th>Loc</th><th>R+ / R-</th><th>/ Rh</th><th>/ Rw</th><th>/ U</th><th>/ RL</th></tr><tr><td>B</td><td>1839</td><td>/- /-</td><td>/1057</td><td>/292</td><td>/313</td></tr><tr><td>H</td><td>1725</td><td>/- /-</td><td>/957</td><td>/264</td><td>/-</td></tr></table> | Gravity |            |        | Non-Gravity |       |            | Loc   | R+ / R-    | / Rh | / Rw | / U | / RL | B | 1839 | /- /- | /1057 | /292 | /313 | H | 1725 | /- /- | /957 | /264 | /- |
| Gravity                |                                   |                              | Non-Gravity                     |                                                                                                                                                                                                                                                                                                                                                       |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| Loc                    | R+ / R-                           | / Rh                         | / Rw                            | / U                                                                                                                                                                                                                                                                                                                                                   | / RL    |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| B                      | 1839                              | /- /-                        | /1057                           | /292                                                                                                                                                                                                                                                                                                                                                  | /313    |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| H                      | 1725                              | /- /-                        | /957                            | /264                                                                                                                                                                                                                                                                                                                                                  | /-      |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| TCDL: 10.00            | Speed: 130 mph                    | Pf: NA Ce: NA                | VERT(LL): 0.125 E 999 360       | Wind reactions based on MWFRS                                                                                                                                                                                                                                                                                                                         |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| BCLL: 0.00             | Enclosure: Closed                 | Lu: NA Cs: NA                | VERT(CL): 0.245 E 999 240       | B Brg Width = 4.0 Min Req = 2.2                                                                                                                                                                                                                                                                                                                       |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| BCDL: 10.00            | Risk Category: II                 | Snow Duration: NA            | HORZ(LL): 0.061 I - -           | H Brg Width = - Min Req = -                                                                                                                                                                                                                                                                                                                           |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| Des Ld: 40.00          | EXP: C Kzt: NA                    |                              | HORZ(TL): 0.119 I - -           | Bearing B is a rigid surface.                                                                                                                                                                                                                                                                                                                         |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| NCBCLL: 10.00          | Mean Height: 15.00 ft             | Building Code:               | Creep Factor: 2.0               | Members not listed have forces less than 375#                                                                                                                                                                                                                                                                                                         |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| Soffit: 2.00           | TCDL: 5.0 psf                     | FBC 7th Ed. 2020 Res.        | Max TC CSI: 0.692               | Maximum Top Chord Forces Per Ply (lbs)                                                                                                                                                                                                                                                                                                                |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| Load Duration: 1.25    | BCDL: 5.0 psf                     | TPI Std: 2014                | Max BC CSI: 0.703               | <table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>B - C</td><td>434 - 2648</td><td>E - F</td><td>424 - 1698</td></tr></table>                                                                                                                                                                              | Chords  | Tens.Comp. | Chords | Tens. Comp. | B - C | 434 - 2648 | E - F | 424 - 1698 |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| Chords                 | Tens.Comp.                        | Chords                       | Tens. Comp.                     |                                                                                                                                                                                                                                                                                                                                                       |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| B - C                  | 434 - 2648                        | E - F                        | 424 - 1698                      |                                                                                                                                                                                                                                                                                                                                                       |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
| Spacing: 24.0 "        | MWFRS Parallel Dist: h/2 to h     | Rep Fac: Yes                 | Max Web CSI: 0.280              |                                                                                                                                                                                                                                                                                                                                                       |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
|                        | C&C Dist a: 3.85 ft               | FT/RT: 20(0)/10(0)           |                                 |                                                                                                                                                                                                                                                                                                                                                       |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
|                        | Loc. from endwall: not in 9.00 ft | Plate Type(s):               |                                 |                                                                                                                                                                                                                                                                                                                                                       |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
|                        | GCpi: 0.18                        |                              |                                 |                                                                                                                                                                                                                                                                                                                                                       |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |
|                        | Wind Duration: 1.60               | WAVE                         | VIEW Ver: 21.01.01A.0521.20     |                                                                                                                                                                                                                                                                                                                                                       |         |            |        |             |       |            |       |            |      |      |     |      |   |      |       |       |      |      |   |      |       |      |      |    |

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

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

**Hangers / Ties**  
Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.  
Recommended 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=38'3"8 uses the following support conditions: 38'3"8  
Bearing H (38'3"8, 9'1"2) HUS26  
Supporting Member: (3)2x8 SP 2400f-2.0E  
(14) 0.148"x3" nails into supporting member,  
(4) 0.148"x3" nails into supported member.

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

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

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



| Maximum Bot Chord Forces Per Ply (lbs) |       |       |        |       |       |
|----------------------------------------|-------|-------|--------|-------|-------|
| Chords                                 | Tens. | Comp. | Chords | Tens. | Comp. |
| B - N                                  | 2099  | -262  | K - J  | 2051  | -259  |
| N - M                                  | 2098  | -263  | J - I  | 2051  | -259  |
| M - L                                  | 2098  | -263  | I - H  | 2051  | -258  |
| L - K                                  | 1766  | -116  |        |       |       |

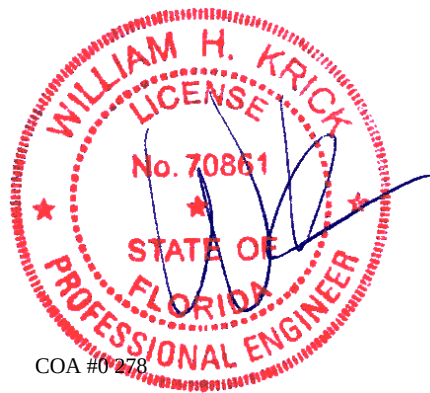
| Maximum Web Forces Per Ply (lbs) |       |       |       |       |       |
|----------------------------------|-------|-------|-------|-------|-------|
| Webs                             | Tens. | Comp. | Webs  | Tens. | Comp. |
| C - L                            | 211   | -500  | K - F | 728   | -80   |
| D - L                            | 736   | -80   | K - G | 206   | -447  |

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|                                            |                          |                                                              |                                                                                    |
|--------------------------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|
| SEQN: 629557 /<br>FROM: CDM<br>Page 2 of 2 | SPEC<br>Ply: 1<br>Qty: 3 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: A02 | Cust: R 215 JRef: 1XcS2150016 T28 /<br>DrwNo: 035.22.1709.33339<br>/ YK 02/04/2022 |
|--------------------------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|

#### Additional Notes

Refer to DWG PB160160118 for piggyback details.  
The overall height of this truss excluding overhang is 10-0-0.



COA #0278

02/04/2022

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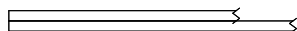
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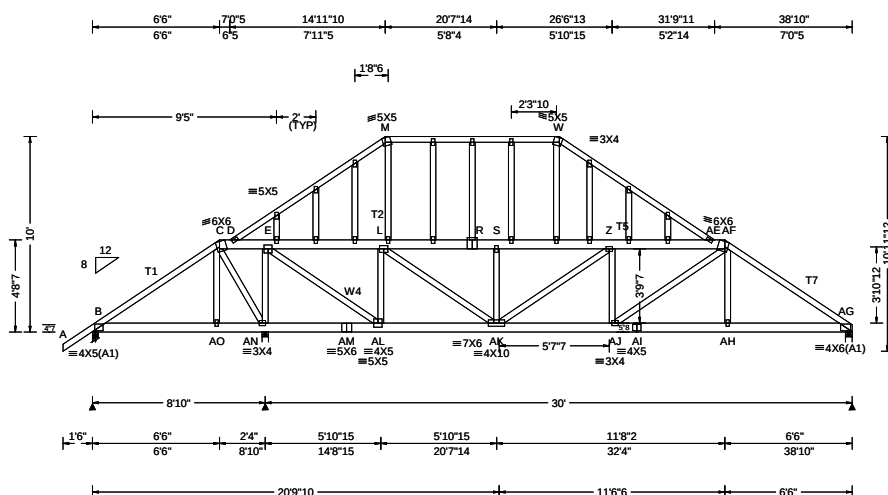
For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbcindustry.com](http://sbcindustry.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)

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|                             |                          |                                                              |                                                                                  |
|-----------------------------|--------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 629578 /<br>FROM: CDM | GABL<br>Ply: 2<br>Qty: 1 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: A03 | Cust: R 215 JRef:1XcS2150016 T4 /<br>DrwNo: 035.22.1709.32276<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------|



2 Complete Trusses Required



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                                 | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                           | Defl/CSI Criteria                                                                                                                                                                                                                                                 | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 0.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.88 ft<br>Loc. from endwall: not in 5.00 ft<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.085 AC 999 360<br>VERT(CL): 0.194 AC 999 240<br>HORZ(LL): 0.018 M - -<br>HORZ(TL): 0.040 M - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.222<br>Max BC CSI: 0.178<br>Max Web CSI: 0.631<br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>Non-Gravity<br>B 119 -171 - / - / - /14 - / -<br>AN 6312 - / - / - /1209 - / -<br>AG 3452 - / - / - /647 - / -<br>Wind reactions based on MWFRS<br>B Brg Width = 3.5 Min Req = 1.5<br>AN Brg Width = 4.0 Min Req = 2.2<br>AG Brg Width = 4.0 Min Req = 1.5<br>Bearings B, AN, & AG are a rigid surface.<br>Members not listed have forces less than 375#<br>Maximum Top Chord Forces Per Ply (lbs)<br>Chords Tens.Comp. Chords Tens. Comp. |

#### Lumber

Top chord: 2x4 SP #2; T1,T7 2x4 SP M-31; T2, T5 2x6 SP 2400f-2.0E;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W4 2x4 SP #2;

#### Nailnote

Nail Schedule:0.128"x3", min. nails  
Top Chord: 1 Row @11.75" o.c.  
Bot Chord: 1 Row @12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 64 plf at -1.50 to 64 plf at 6.50  
TC: From 32 plf at 6.50 to 32 plf at 32.33  
TC: From 64 plf at 32.33 to 64 plf at 38.83  
BC: From 5 plf at -1.50 to 5 plf at 0.00  
BC: From 20 plf at 0.00 to 20 plf at 6.53  
BC: From 10 plf at 6.53 to 10 plf at 32.30  
BC: From 20 plf at 32.30 to 20 plf at 38.83  
TC: 234 lb Conc. Load at 6.53,32.30  
TC: 178 lb Conc. Load at 8.56,10.56,12.56,14.56  
16.56,18.56,20.27,22.27,24.27,26.27,28.27,30.27  
BC: 416 lb Conc. Load at 6.53,32.30  
BC: 121 lb Conc. Load at 8.56,10.56,12.56,14.56  
16.56,18.56,20.27,22.27,24.27,26.27,28.27,30.27

#### Plating Notes

All plates are 2X4 except as noted.

#### Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Wind

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

#### Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.  
The overall height of this truss excluding overhang is 10-0-0.



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

| Chords | Tens.Comp. | Chords | Tens. Comp. |
|--------|------------|--------|-------------|
| AO-AN  | 61 -376    | AK-AJ  | 2677 -509   |
| AN-AM  | 136 -762   | AJ-AI  | 2330 -449   |
| AM-AL  | 136 -762   | AI-AH  | 2330 -449   |
| AL-AK  | 969 -183   | AH-AG  | 2339 -448   |

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

| Webs  | Tens.Comp. | Webs  | Tens. Comp. |
|-------|------------|-------|-------------|
| C -AN | 226 -1134  | L -AK | 1514 -280   |
| AN -E | 411 -1897  | AK -Z | 125 -608    |
| E -AL | 2078 -376  | AJ-AF | 434 -70     |
| AL -L | 273 -1070  |       |             |

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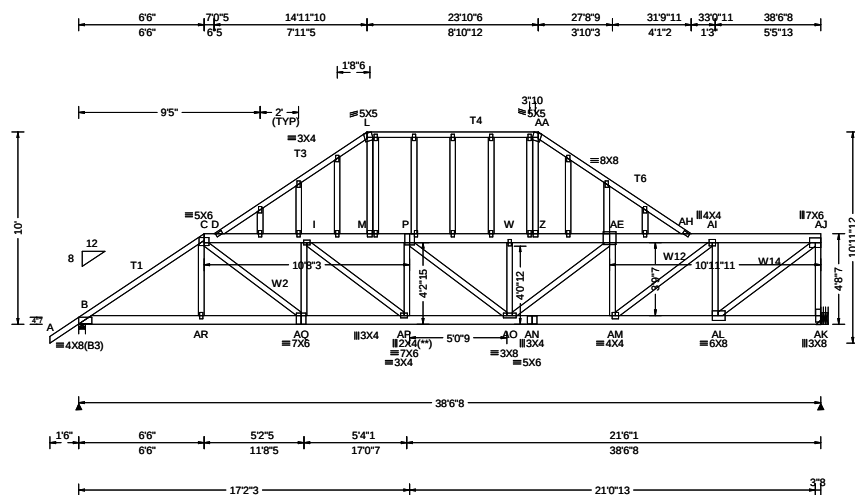
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## 2 Complete Trusses Required



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                                 | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                           | Defl/CSI Criteria                                                                                                                                                                                                                                              | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 0.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.85 ft<br>Loc. from endwall: not in 5.00 ft<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.166 S 999 360<br>VERT(CL): 0.373 S 999 240<br>HORZ(LL): 0.051 E - -<br>HORZ(TL): 0.114 E - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.313<br>Max BC CSI: 0.257<br>Max Web CSI: 0.816<br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>Non-Gravity<br>B 4787 /- /- /- /943 /-<br>AK 5023 /- /- /- /968 /-<br>Wind reactions based on MWFRS<br>B Brg Width = 4.0 Min Req = 2.0<br>AK Brg Width = - Min Req = -<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375#<br>Maximum Top Chord Forces Per Ply (lbs)<br>Chords Tens.Comp. Chords Tens. Comp. |

**Lumber**  
Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP M-31; T3, T4, T6 2x4 SP #2;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W2, W12 2x4 SP #2;  
W14 2x4 SP M-31;

**Nailnote**  
Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @11.00" o.c.  
Bot Chord: 1 Row @12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

**Special Loads**  
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 64 plf at -1.50 to 64 plf at 6.50  
TC: From 32 plf at 6.50 to 32 plf at 38.54  
BC: From 5 plf at -1.50 to 5 plf at 0.00  
BC: From 20 plf at 0.00 to 20 plf at 6.53  
BC: From 10 plf at 6.53 to 10 plf at 38.54  
TC: 234 lb Conc. Load at 6.53  
TC: 178 lb Conc. Load at 8.56, 10.56, 12.56, 14.56  
16.56, 18.56, 20.56, 22.56, 24.56, 26.56, 28.56, 30.56  
32.56, 34.56, 36.56  
BC: 416 lb Conc. Load at 6.53  
BC: 121 lb Conc. Load at 8.56, 10.56, 12.56, 14.56  
16.56, 18.56, 20.56, 22.56, 24.56, 26.56, 28.56, 30.56  
32.56, 34.56, 36.56

**Plating Notes**  
All plates are 2X4 except as noted.  
(\*\*) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.  
**Loading**  
Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

| Chords | Tens.Comp. | Chords | Tens. Comp. |
|--------|------------|--------|-------------|
| B - AR | 3256 - 633 | AO-AN  | 4080 - 785  |
| AR-AQ  | 3248 - 634 | AN-AM  | 4080 - 785  |
| AQ-AP  | 4141 - 799 | AM-AL  | 3072 - 600  |
| AP-AO  | 4364 - 832 |        |             |

| Maximum Web Forces Per Ply (lbs) |            |       |       |             |        |
|----------------------------------|------------|-------|-------|-------------|--------|
| Webs                             | Tens.Comp. |       | Webs  | Tens. Comp. |        |
| C -AQ                            | 1124       | - 202 | AM-AI | 1259        | - 226  |
| AQ - I                           | 157        | - 509 | AI-AL | 491         | - 2135 |
| L - M                            | 532        | - 91  | AL-AJ | 3738        | - 724  |
| Z -AA                            | 547        | - 99  | AJ-AK | 492         | - 2453 |
| AE-AM                            | 179        | - 632 |       |             |        |



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|                                            |                          |                                                              |                                                                                    |
|--------------------------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|
| SEQN: 629579 /<br>FROM: CDM<br>Page 2 of 2 | GABL<br>Ply: 2<br>Qty: 1 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: A04 | Cust: R 215 JRef: 1XcS2150016 T25 /<br>DrwNo: 035.22.1709.32652<br>/ YK 02/04/2022 |
|--------------------------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|

#### 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=38'3"8 uses the following support conditions: 38'3"8

Bearing AK (38'3"8, 9'1"2) HGUS28-2

Supporting Member: (3)2x8 SP 2400f-2.0E

(36) 0.148"x3" nails into supporting

member,

(12) 0.148"x3" nails into supported

member.

#### Wind

Wind loads and reactions based on MWFRS.

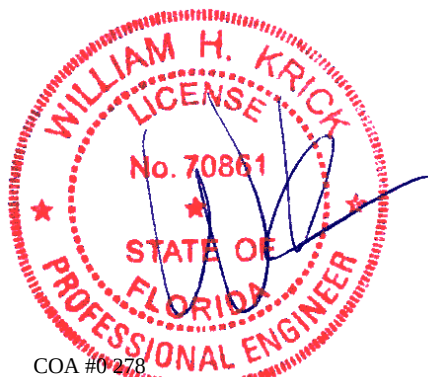
Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Additional Notes

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

The overall height of this truss excluding overhang is 10-0-0.



COA #0278

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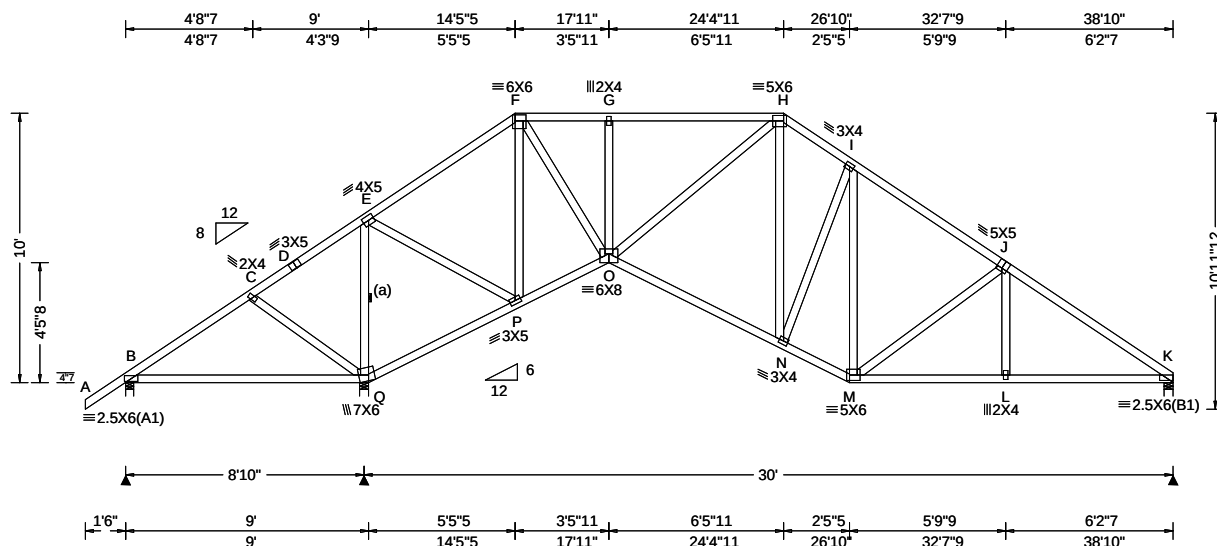
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| Leading Criteria (psf) | Wind Criteria                     | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria               | ▲ Maximum Reactions (lbs)                     |
|------------------------|-----------------------------------|------------------------------|---------------------------------|-----------------------------------------------|
| TCLL: 20.00            | Wind Std: ASCE 7-16               | Pg: NA Ct: NA CAT: NA        | PP Deflection in loc L/defl L/# | Gravity Non-Gravity                           |
| TCDL: 10.00            | Speed: 130 mph                    | Pf: NA Ce: NA                | VERT(LL): 0.055 N 999 360       | Loc R+ / R- / Rh / Rw / U / RL                |
| BCLL: 0.00             | Enclosure: Closed                 | Lu: NA Cs: NA                | VERT(CL): 0.118 N 999 240       | B 243 /-180 /- /50 /15 /316                   |
| BCDL: 10.00            | Risk Category: II                 | Snow Duration: NA            | HORZ(LL): 0.039 L - -           | Q 2232 /- /- /1343 /87 /-                     |
| Des Ld: 40.00          | EXP: C Kzt: NA                    |                              | HORZ(TL): 0.082 L - -           | K 1144 /- /- /759 /42 /-                      |
| NCBCLL: 10.00          | Mean Height: 15.00 ft             | Building Code:               | Creep Factor: 2.0               | Wind reactions based on MWFRS                 |
| Soffit: 2.00           | TCDL: 5.0 psf                     | FBC 7th Ed. 2020 Res.        | Max TC CSI: 0.499               | B Brg Width = 3.5 Min Req = 1.5               |
| Load Duration: 1.25    | BCDL: 5.0 psf                     | TPI Std: 2014                | Max BC CSI: 0.548               | Q Brg Width = 4.0 Min Req = 2.6               |
| Spacing: 24.0 "        | MWFRS Parallel Dist: h to 2h      | Rep Fac: Yes                 | Max Web CSI: 0.946              | K Brg Width = 4.0 Min Req = 1.5               |
|                        | C&C Dist a: 3.88 ft               | FT/RT:20(0)/10(0)            |                                 | Bearings B, Q, & K are a rigid surface.       |
|                        | Loc. from endwall: not in 9.00 ft | Plate Type(s):               |                                 | Members not listed have forces less than 375# |
|                        | GCpi: 0.18                        |                              |                                 | Maximum Top Chord Forces Per Ply (lbs)        |
|                        | Wind Duration: 1.60               | WAVE                         | VIEW Ver: 21.01.01A.0521.20     | Chords Tens.Comp. Chords Tens. Comp.          |

## Lumber

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

## Bracing

(a) Continuous lateral restraint equally spaced on member

## Purlins

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

### Wind

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

Wind loading based on both gable and hip roof types.

### Additional Notes

Negative reaction(s) of -180# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-0-0.

COA #0278

02/04/2022

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▲ Maximum Reactions (lbs)

| Loc | Gravity |       |     | Non-Gravity |     |      |
|-----|---------|-------|-----|-------------|-----|------|
|     | R+      | /R-   | /Rh | /Rw         | /U  | /RL  |
| B   | 243     | /-180 | /-  | /50         | /15 | /316 |
| Q   | 2232    | /-    | /-  | /1343       | /87 | /-   |
| K   | 1144    | /-    | /-  | /759        | /42 | /-   |

### Wind reactions based on MWFRS

|   |                 |               |
|---|-----------------|---------------|
| B | Brg Width = 3.5 | Min Req = 1.5 |
|---|-----------------|---------------|

|   |                 |               |
|---|-----------------|---------------|
| Q | Brg Width = 4.0 | Min Req = 2.6 |
|---|-----------------|---------------|

|   |                 |               |
|---|-----------------|---------------|
| K | Brg Width = 4.0 | Min Req = 1.5 |
|---|-----------------|---------------|

Bearings B, O, & K are a rigid surface.

Members not listed have forces less than 375#

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

| Maximum Top Chord Forces Per Ply (lbs) |       |       |       |        |       |
|----------------------------------------|-------|-------|-------|--------|-------|
| Chords                                 |       | Tens. | Comp. | Chords |       |
| Tens.                                  | Comp. |       |       | Tens.  | Comp. |

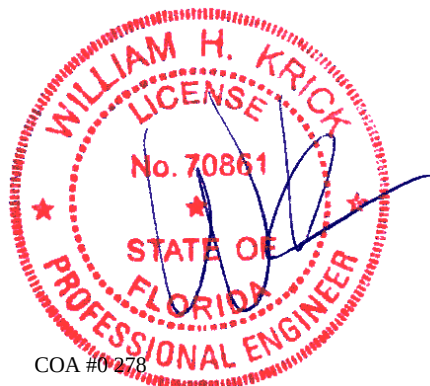
| Chorus | Peris.comp. | Chorus | Peris. Comp. |
|--------|-------------|--------|--------------|
| B - C  | 645 -69     | G - H  | 53 -1053     |
| C - D  | 733 -71     | H - I  | 146 -1146    |
| D - E  | 827 -60     | I - J  | 130 -1254    |
| E - F  | 72 -578     | J - K  | 91 -1695     |
| F - G  | 53 -1053    |        |              |

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

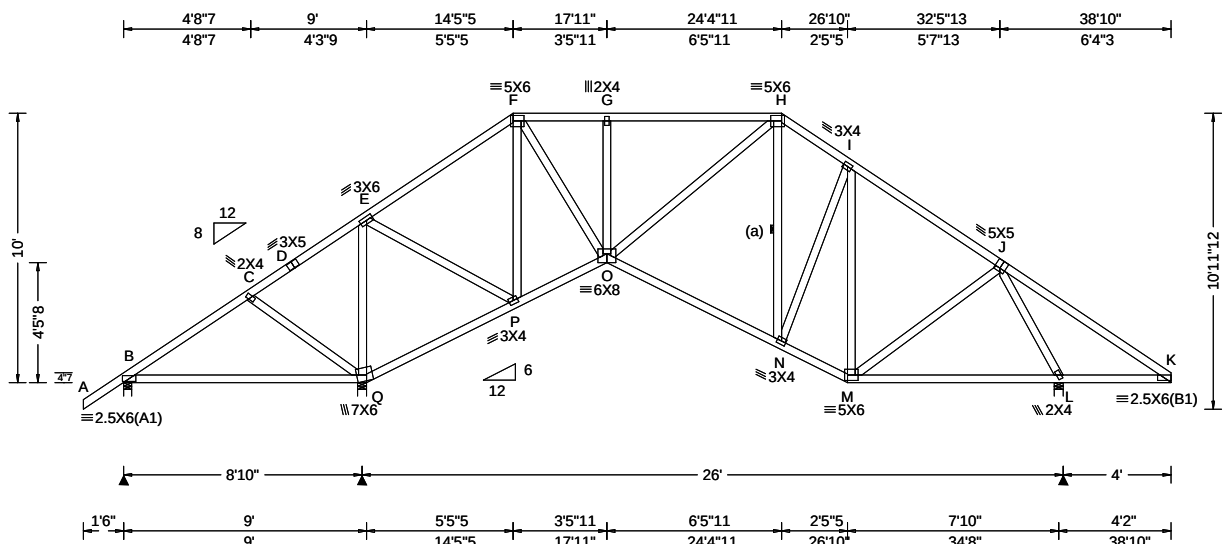
| Maximum Det. Chord Forces Per Ft. (kips) |       |       | Maximum Det. Chord Forces Per Ft. (kips) |       |       |
|------------------------------------------|-------|-------|------------------------------------------|-------|-------|
| Chords                                   | Tens. | Comp. | Chords                                   | Tens. | Comp. |
| B - Q                                    | 131   | -497  | N - M                                    | 1084  | 0     |
| Q - P                                    | 152   | -756  | M - L                                    | 1325  | -8    |
| P - O                                    | 453   | -61   | L - K                                    | 1327  | -7    |
| O - N                                    | 1062  | 0     |                                          |       |       |

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

| Webbs | Tens.Comp. | Webbs | Tens. Comp. |
|-------|------------|-------|-------------|
| E - Q | 110 - 1573 | F - O | 1200 0      |
| E - P | 1167 0     | M - J | 95 - 464    |
| F - P | 16 - 1008  |       |             |



|                             |                          |                                                              |                                                                                    |
|-----------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|
| SEQN: 629559 /<br>FROM: CDM | COMN<br>Ply: 1<br>Qty: 4 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: B02 | Cust: R 215 JRef: 1XcS2150016 T24 /<br>DrwNo: 035.22.1709.34104<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                                | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                                | Defl/CSI Criteria                                                                                                                                                                                                                                                  | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 2.0 psf<br>MWFRS Parallel Dist: h to 2h<br>C&C Dist a: 3.88 ft<br>Loc. from endwall: not in 9.00 ft<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.037 G 999 360<br>VERT(CL): 0.079 G 999 240<br>HORZ(LL): 0.029 L - -<br>HORZ(TL): 0.063 L - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.564<br>Max BC CSI: 0.538<br>Max Web CSI: 0.932<br><br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>Non-Gravity<br>B 331 /-14 /- /129 /80 /316<br>Q 1847 /- /- /1190 /- /-<br>L 1380 /- /- /1003 /- /-<br>Wind reactions based on MWFRS<br>B Brg Width = 3.5 Min Req = 1.5<br>Q Brg Width = 4.0 Min Req = 2.2<br>L Brg Width = 4.0 Min Req = 1.5<br>Bearings B, Q, & L are a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp. |

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

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

#### Wind

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

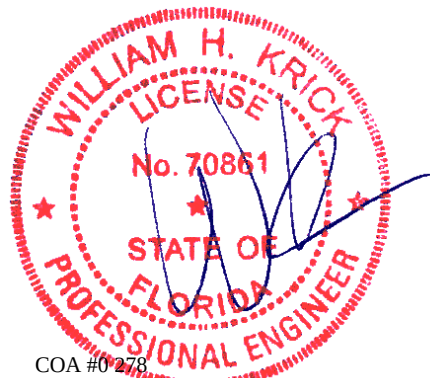
Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

#### Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-0-0.



COA #0278

02/04/2022

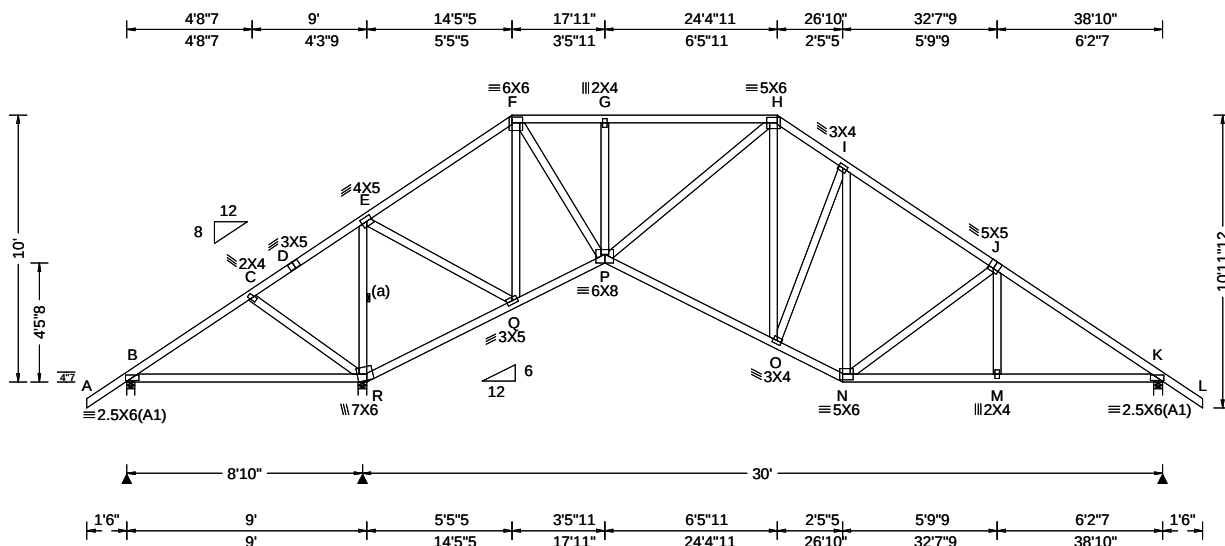
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|                             |                          |                                                              |                                                                                   |
|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|
| SEQN: 629560 /<br>FROM: CDM | COMN<br>Ply: 1<br>Qty: 2 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: B03 | Cust: R 215 JRef: 1XcS2150016 T3 /<br>DrwNo: 035.22.1709.34057<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                                | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                            | Defl/CSI Criteria                                                                                                                                                                                                                                               | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: h to 2h<br>C&C Dist a: 3.88 ft<br>Loc. from endwall: not in 9.00 ft<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.056 O 999 360<br>VERT(CL): 0.119 O 999 240<br>HORZ(LL): 0.038 M - -<br>HORZ(TL): 0.081 M - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.498<br>Max BC CSI: 0.548<br>Max Web CSI: 0.945<br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>Non-Gravity<br>B 241 /-183 /- /46 /24 /335<br>R 2233 /- /- /1355 /68 /-<br>K 1250 /- /- /855 /56 /-<br>Wind reactions based on MWFRS<br>B Brg Width = 3.5 Min Req = 1.5<br>R Brg Width = 4.0 Min Req = 2.6<br>K Brg Width = 4.0 Min Req = 1.5<br>Bearings B, R, & K are a rigid surface.<br>Members not listed have forces less than 375#<br>Maximum Top Chord Forces Per Ply (lbs)<br>Chords Tens.Comp. Chords Tens. Comp. |

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

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

#### Wind

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

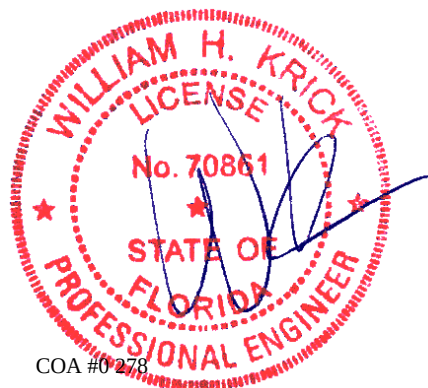
Wind loading based on both gable and hip roof types.

#### Additional Notes

Negative reaction(s) of -183# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10'-0".



COA #0278

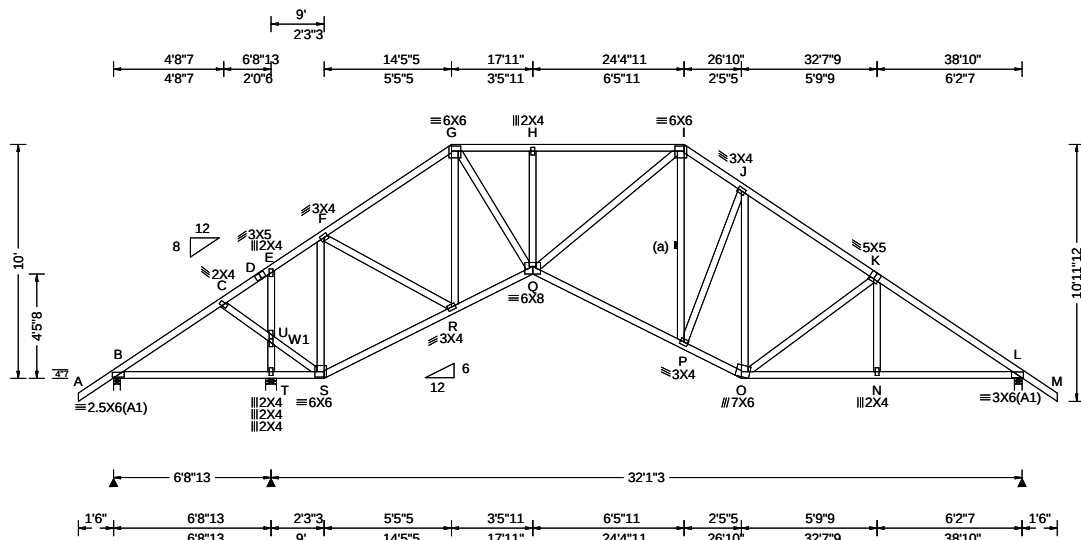
02/04/2022

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|                             |                          |                                                              |                                                                                   |
|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|
| SEQN: 629561 /<br>FROM: CDM | COMN<br>Ply: 1<br>Qty: 1 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: B04 | Cust: R 215 JRef:1XcS2150016 T31 /<br>DrwNo: 035.22.1709.33245<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|



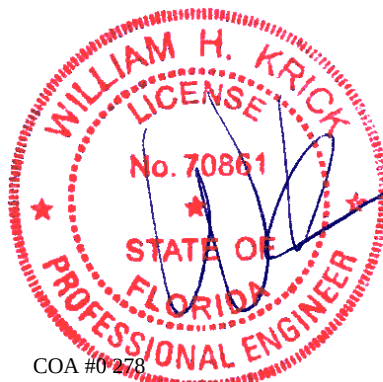
| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                                | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                            | Defl/CSI Criteria                                                                                                                                                                                                                                              | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: h to 2h<br>C&C Dist a: 3.88 ft<br>Loc. from endwall: not in 9.00 ft<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.144 H 999 360<br>VERT(CL): 0.294 H 999 240<br>HORZ(LL): 0.093 N - -<br>HORZ(TL): 0.196 N - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.743<br>Max BC CSI: 0.696<br>Max Web CSI: 0.845<br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>Non-Gravity<br>B 939 /- /- /561 /41 /335<br>T 987 /- /- /632 /- /-<br>L 1586 /- /- /1002 /49 /-<br>Wind reactions based on MWFRS<br>B Brg Width = 3.5 Min Req = 1.5<br>T Brg Width = 5.7 Min Req = 1.5<br>L Brg Width = 4.0 Min Req = 1.9<br>Bearings B, T, & L are a rigid surface.<br>Members not listed have forces less than 375#<br>Maximum Top Chord Forces Per Ply (lbs)<br>Chords Tens.Comp. Chords Tens. Comp. |

| Lumber                                                                           | Maximum Bot Chord Forces Per Ply (lbs)                                                                                                                                  |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Top chord: 2x4 SP #2;<br>Bot chord: 2x4 SP #2;<br>Webs: 2x4 SP #3; W1 2x4 SP #2; | Chords Tens.Comp. Chords Tens. Comp.                                                                                                                                    |
|                                                                                  | B - C 92 -1142 G - H 105 -2370<br>C - D 81 -1138 H - I 105 -2370<br>D - E 84 -1079 I - J 133 -1826<br>E - F 107 -1331 J - K 120 -1838<br>F - G 109 -1974 K - L 80 -2251 |

| Bracing                                                    | Maximum Web Forces Per Ply (lbs)                                                                                          |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| (a) Continuous lateral restraint equally spaced on member. | Chords Tens.Comp. Chords Tens. Comp.                                                                                      |
|                                                            | B - T 854 -193 Q - P 1688 0<br>T - S 854 -193 P - O 1627 0<br>S - R 1153 -143 O - N 1780 0<br>R - Q 1760 -46 N - L 1782 0 |

| Purlins                                                    | Maximum Web Forces Per Ply (lbs)                                                                                                       |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| In lieu of rigid ceiling use purlins to brace BC @ 24" oc. | Chords Tens.Comp. Chords Tens. Comp.                                                                                                   |
|                                                            | U - E 30 -500 G - Q 1452 0<br>T - U 41 -752 Q - I 1138 -75<br>F - S 36 -818 O - J 36 -398<br>F - R 676 0 O - K 95 -422<br>G - R 0 -488 |

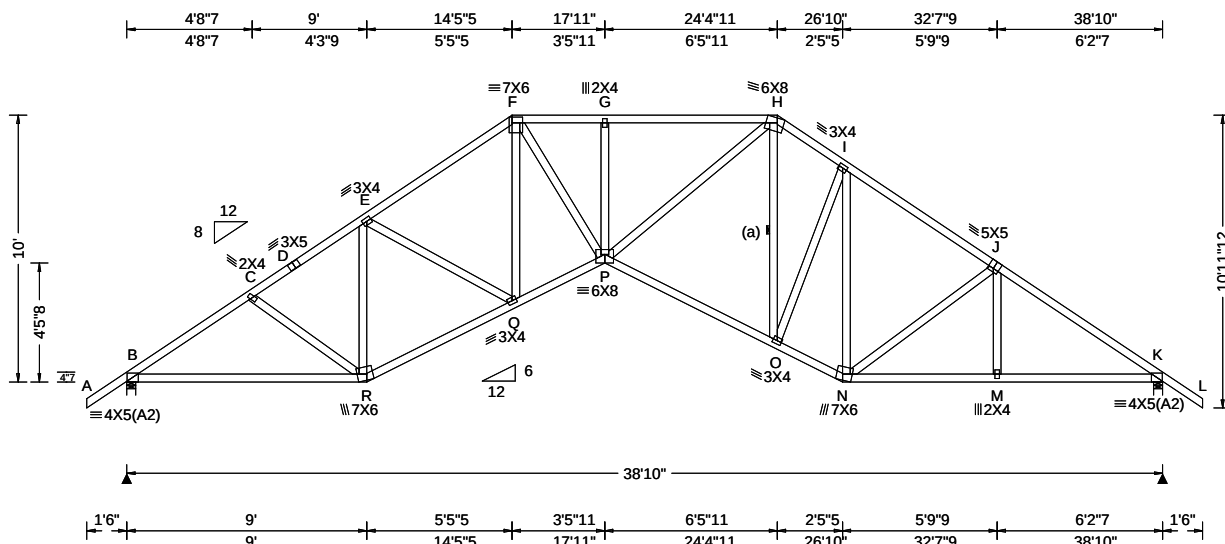
| Wind                                                                                                                 | Additional Notes                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Wind loads based on MWFRS with additional C&C member design.<br>Wind loading based on both gable and hip roof types. | Refer to DWG PB160160118 for piggyback details.<br>The overall height of this truss excluding overhang is 10-0-0. |



COA #0278  
02/04/2022

| **WARNING**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ALPINE                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
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|                             |                          |                                                              |                                                                                   |
|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|
| SEQN: 629562 /<br>FROM: CDM | COMN<br>Ply: 1<br>Qty: 1 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: B05 | Cust: R 215 JRef: 1XcS2150016 T7 /<br>DrwNo: 035.22.1709.33573<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                                 | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                            | Defl/CSI Criteria                                                                                                                                                                                                                                              | Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: h to 2h<br>C&C Dist a: 3.88 ft<br>Loc. from endwall: not in 9.00 ft<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.194 G 999 360<br>VERT(CL): 0.407 G 999 240<br>HORZ(LL): 0.124 M - -<br>HORZ(TL): 0.261 M - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.742<br>Max BC CSI: 0.803<br>Max Web CSI: 0.654<br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 1758 - / - / /1085 /36 /335<br>K 1754 - / - / /1081 /37 -<br>Wind reactions based on MWFRS<br>B Brg Width = 4.0 Min Req = 2.1<br>K Brg Width = 4.0 Min Req = 2.1<br>Bearings B & K are a rigid surface.<br>Members not listed have forces less than 375#<br>Maximum Top Chord Forces Per Ply (lbs)<br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 74 -2548 G - H 104 -3040<br>C - D 56 -2327 H - I 111 -2171<br>D - E 74 -2269 I - J 100 -2137<br>E - F 110 -2684 J - K 60 -2542<br>F - G 104 -3040 |

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

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

#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-0-0.



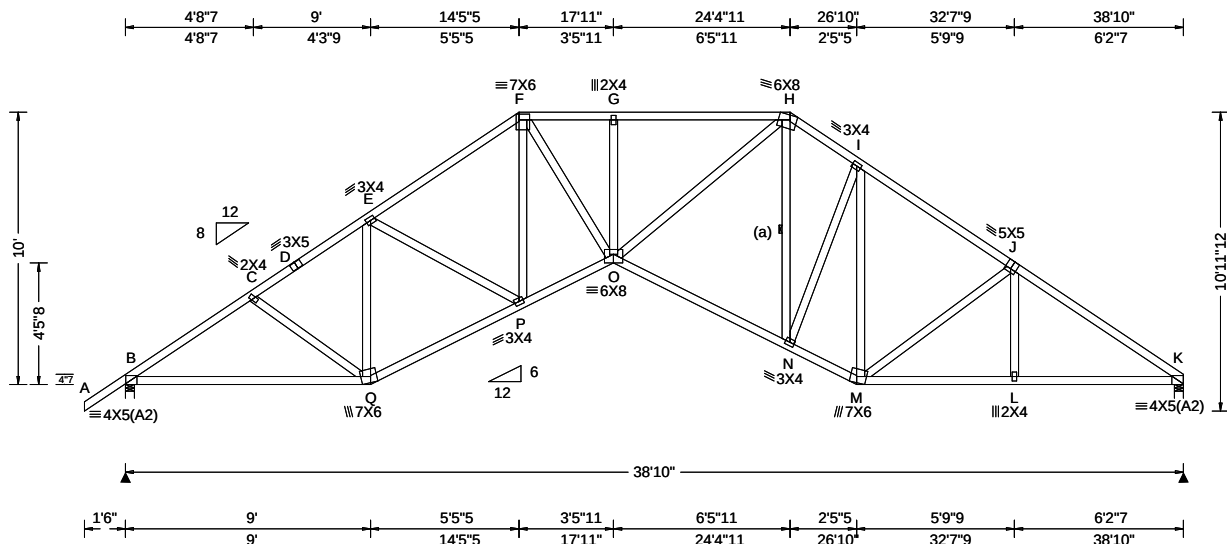
COA #0278

02/04/2022

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|-----------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|
| SEQN: 629563 /<br>FROM: CDM | COMN<br>Ply: 1<br>Qty: 3 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: B06 | Cust: R 215 JRef: 1XcS2150016 T33 /<br>DrwNo: 035.22.1709.33807<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                                 | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                            | Defl/CSI Criteria                                                                                                                                                                                                                                              | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: h to 2h<br>C&C Dist a: 3.88 ft<br>Loc. from endwall: not in 9.00 ft<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.192 G 999 360<br>VERT(CL): 0.407 G 999 240<br>HORZ(LL): 0.124 L - -<br>HORZ(TL): 0.261 L - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.743<br>Max BC CSI: 0.803<br>Max Web CSI: 0.648<br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 1760 - / - / /1085 /37 /316<br>K 1649 - / - / /989 /26 - /-<br>Wind reactions based on MWFRS<br>B Brg Width = 4.0 Min Req = 2.1<br>K Brg Width = 4.0 Min Req = 1.9<br>Bearings B & K are a rigid surface.<br>Members not listed have forces less than 375#<br>Maximum Top Chord Forces Per Ply (lbs)<br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 75 -2552 G - H 132 -3048<br>C - D 57 -2332 H - I 115 -2179<br>D - E 75 -2273 I - J 101 -2147<br>E - F 126 -2690 J - K 63 -2566<br>F - G 132 -3048 |

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

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

#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-0-0.



COA #0278

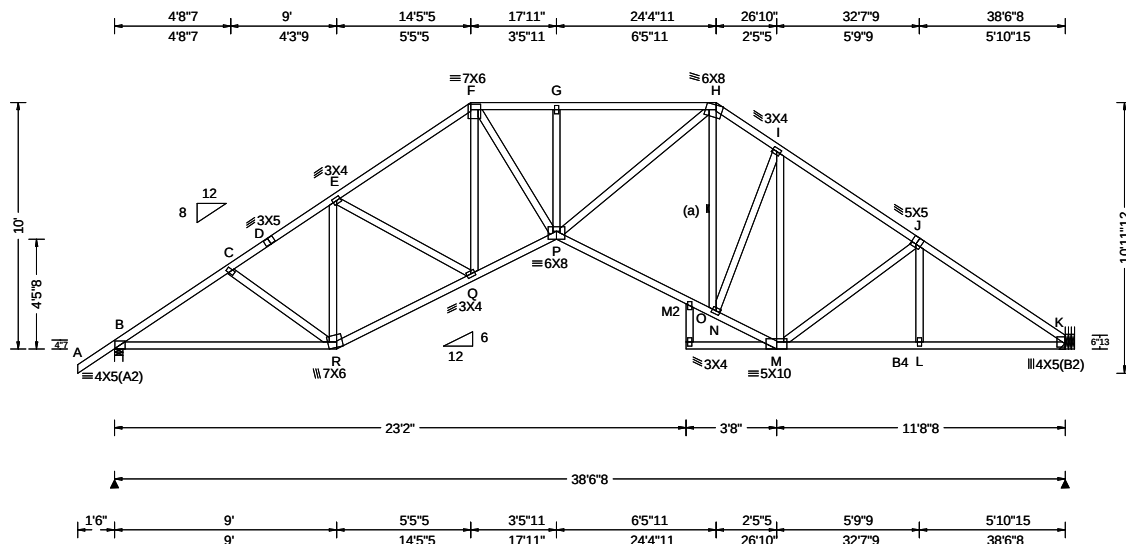
02/04/2022

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|                             |      |                  |                                                              |                                                                                  |
|-----------------------------|------|------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 629564 /<br>FROM: CDM | SPEC | Ply: 1<br>Qty: 1 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: B07 | Cust: R 215 JRef:1XcS2150016 T8 /<br>DrwNo: 035.22.1709.33307<br>/ YK 02/04/2022 |
|-----------------------------|------|------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                                | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                                | Defl/CSI Criteria                                                                                                                                                                                                                                                  | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: h to 2h<br>C&C Dist a: 3.85 ft<br>Loc. from endwall: not in 9.00 ft<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.193 G 999 360<br>VERT(CL): 0.408 G 999 240<br>HORZ(LL): 0.126 L - -<br>HORZ(TL): 0.266 L - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.740<br>Max BC CSI: 0.801<br>Max Web CSI: 0.663<br><br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 1751 /- /- /1077 /39 /313<br>K 1633 /- /- /971 /27 /-<br>Wind reactions based on MWFRS<br>B Brg Width = 4.0 Min Req = 2.1<br>K Brg Width = - Min Req = -<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 80 -2538 G - H 143 -3020<br>C - D 62 -2317 H - I 121 -2150<br>D - E 80 -2258 I - J 105 -2111<br>E - F 135 -2668 J - K 64 -2474<br>F - G 143 -3020 |

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2; B4 2x4 SP M-31;  
Webs: 2x4 SP #3; M2 2x4 SP #2;  
Filler: 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

Laterally brace BC at 24" oc in lieu of rigid ceiling.  
Laterally brace BC above filler at 24" oc.

#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

The overall height of this truss excluding overhang is 10-0-0.



COA #0 278

02/04/2022

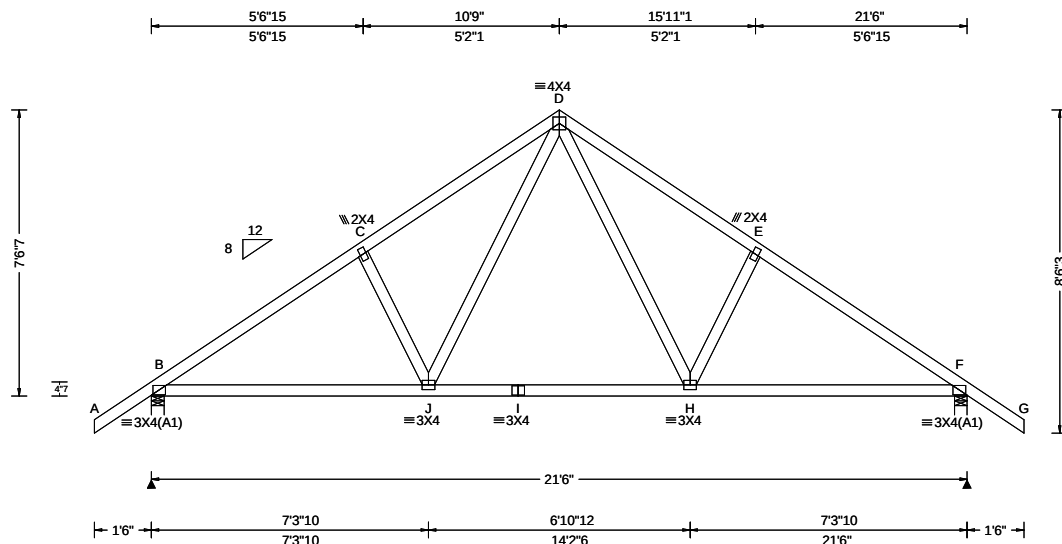
**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!**  
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|-----------------------------|---------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 629565 /<br>FROM: CDM | COMN<br>Ply: 1<br>Qty: 11 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: C01 | Cust: R 215 JRef:1XcS2150016 T1 /<br>DrwNo: 035.22.1709.32932<br>/ YK 02/04/2022 |
|-----------------------------|---------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                      | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                            | Defl/CSI Criteria                                                                                                                                                                                                                                              | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.039 J 999 360<br>VERT(CL): 0.076 J 999 240<br>HORZ(LL): 0.017 H - -<br>HORZ(TL): 0.033 H - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.302<br>Max BC CSI: 0.528<br>Max Web CSI: 0.195<br>VIEW Ver: 21.01.01A.0521.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 1068 - / - / - /622 /166 /251<br>F 1068 - / - / - /512 /166 -<br>Wind reactions based on MWFRS<br>B Brg Width = 4.0 Min Req = 1.5<br>F Brg Width = 4.0 Min Req = 1.5<br>Bearings B & F are a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 227 -1374 D - E 286 -1227<br>C - D 286 -1228 E - F 227 -1373 |

#### Lumber

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

#### Loading

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

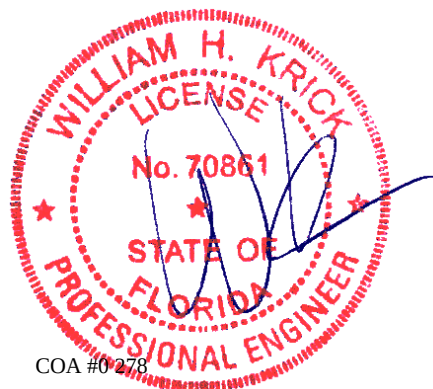
#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

The overall height of this truss excluding overhang is 7'-6-7".



COA #0278

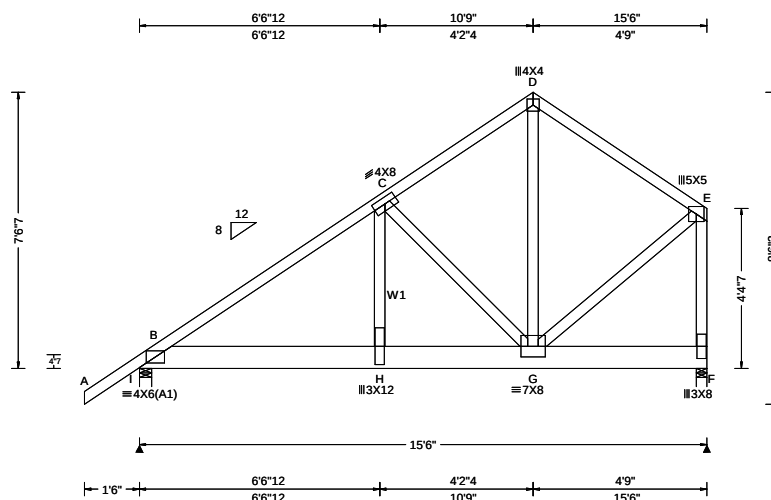
02/04/2022

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|-----------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|
| SEQN: 629580 /<br>FROM: CDM | COMN<br>Ply: 3<br>Qty: 1 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: C02 | Cust: R 215 JRef: 1XcS2150016 T11 /<br>DrwNo: 035.22.1709.32479<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|

3 Complete Trusses Required



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                                 | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                                 | Defl/CSI Criteria                                                                                                                                                                                                                                                   | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 0.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: not in 9.00 ft<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.055 H 999 360<br>VERT(CL): 0.110 H 999 240<br>HORZ(LL): -0.012 D - -<br>HORZ(TL): 0.024 D - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.345<br>Max BC CSI: 0.209<br>Max Web CSI: 0.652<br><br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>I 5428 -/- /- /- /975 -/<br>F 7719 -/- /- /- /1100 -/<br>Wind reactions based on MWFRS<br>I Brg Width = 4.0 Min Req = 1.5<br>F Brg Width = 3.5 Min Req = 2.1<br>Bearings I & F are a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 539 -3013 D - E 273 -1620<br>C - D 273 -1618 |

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x8 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W1 2x4 SP #2;

#### Nailnote

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

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 64 plf at -1.50 to 64 plf at 15.50  
BC: From 5 plf at -1.50 to 5 plf at 0.00  
BC: From 20 plf at 0.00 to 20 plf at 6.56  
BC: From 10 plf at 6.56 to 10 plf at 15.50  
BC: 5023 lb Conc. Load at 6.56  
BC: 1725 lb Conc. Load at 8.56, 10.56, 12.56  
BC: 1633 lb Conc. Load at 14.56

#### Wind

Wind loads and reactions based on MWFRS.  
Right end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.

#### Additional Notes

The overall height of this truss excluding overhang is 7'-6"-7".



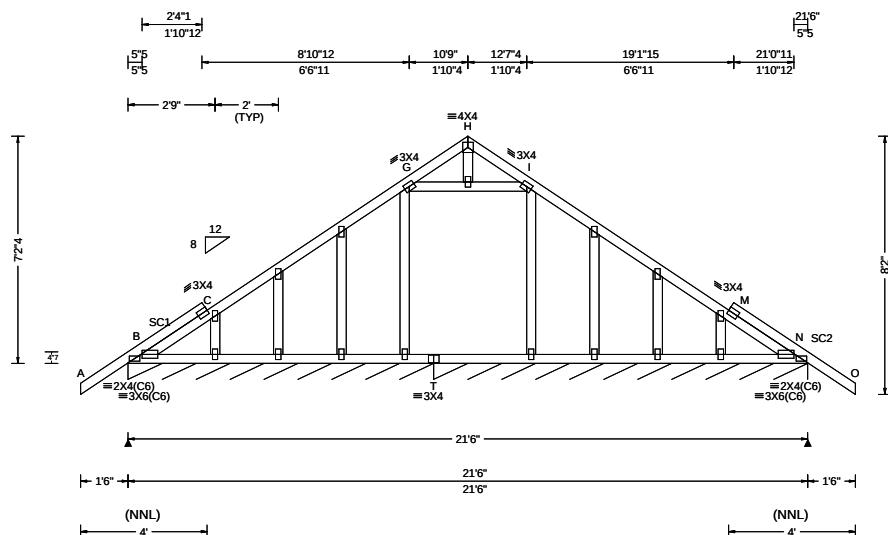
COA #0278

02/04/2022

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|-----------------------------|--------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 629566 /<br>FROM: CDM | GABL<br>Ply: 1<br>Qty: 1 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: C03 | Cust: R 215 JRef:1XcS2150016 T2 /<br>DrwNo: 035.22.1709.32558<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                                              | Defl/CSI Criteria                                                                                                                                                                                                                                                  | ▲ Maximum Reactions (lbs), or *=PLF                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Varies by Ld Case<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.002 H 999 360<br>VERT(CL): 0.005 H 999 240<br>HORZ(LL): 0.001 L - -<br>HORZ(TL): 0.002 L - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.268<br>Max BC CSI: 0.106<br>Max Web CSI: 0.117<br><br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>Non-Gravity<br>B* 129 /- /- /67 /- /11<br>T* 105 /- /- /54 /- /-<br>Wind reactions based on MWFRS<br>B Brg Width = 116 Min Req = -<br>T Brg Width = 142 Min Req = -<br>Bearings B & T are a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

#### Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Wind

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

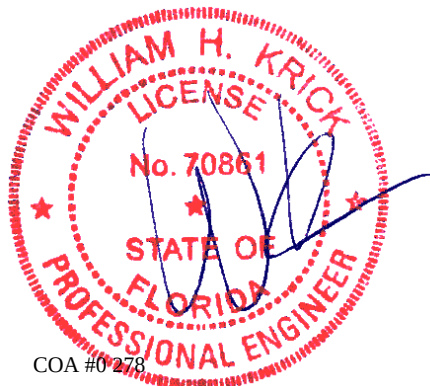
Wind loading based on both gable and hip roof types.

#### Additional Notes

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

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

The overall height of this truss excluding overhang is 7'-2-4.



COA #0278

02/04/2022

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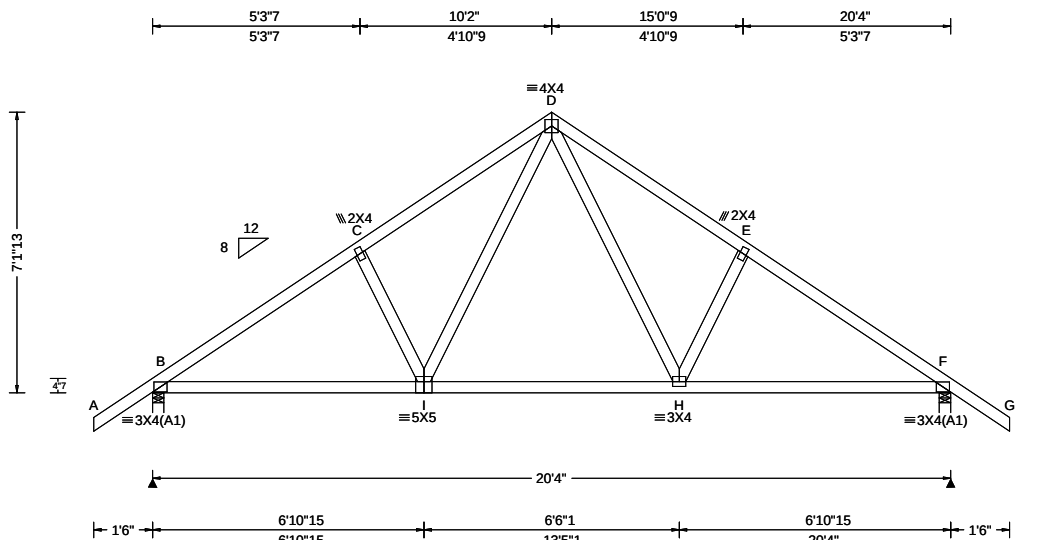
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|                             |                          |                                                              |                                                                                   |
|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|
| SEQN: 629567 /<br>FROM: CDM | COMN<br>Ply: 1<br>Qty: 2 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: D01 | Cust: R 215 JRef: 1XcS2150016 T6 /<br>DrwNo: 035.22.1709.32542<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                            | Defl/CSI Criteria                                                                                                                                                                                                                                               | Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.035 H 999 360<br>VERT(CL): 0.068 H 999 240<br>HORZ(LL): 0.015 H - -<br>HORZ(TL): 0.029 H - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.282<br>Max BC CSI: 0.477<br>Max Web CSI: 0.180<br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 1011 /- /- /594 /158 /240<br>F 1011 /- /- /594 /158 /-<br>Non-Gravity<br>Wind reactions based on MWFRS<br>B Brg Width = 3.5 Min Req = 1.5<br>F Brg Width = 3.5 Min Req = 1.5<br>Bearings B & F are a rigid surface.<br>Members not listed have forces less than 375#<br>Maximum Top Chord Forces Per Ply (lbs)<br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 213 -1282 D - E 269 -1145<br>C - D 269 -1144 E - F 213 -1283 |

#### Lumber

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

#### Loading

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

#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

The overall height of this truss excluding overhang is 7'-1-13".



COA #0278

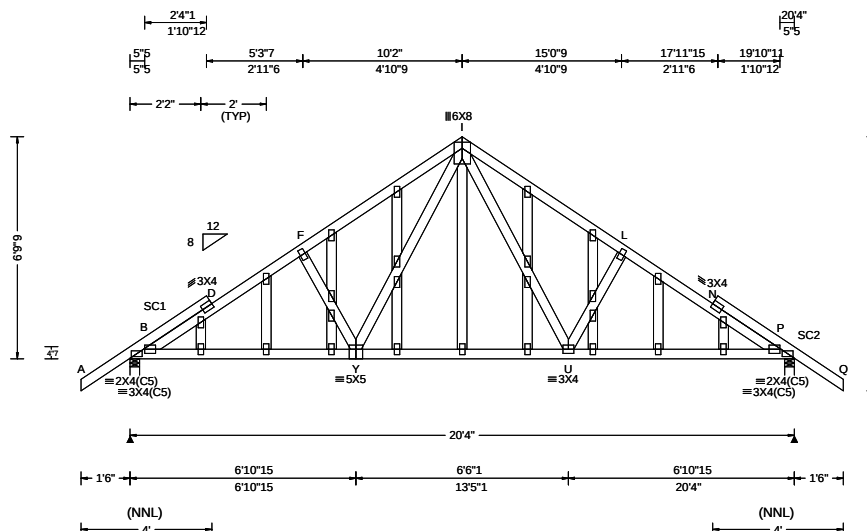
02/04/2022

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|-----------------------------|--------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 629568 /<br>FROM: CDM | GABL<br>Ply: 1<br>Qty: 1 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: D02 | Cust: R 215 JRef:1XcS2150016 T9 /<br>DrwNo: 035.22.1709.32495<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                                             | Defl/CSI Criteria                                                                                                                                                                                                                                                    | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Varies by Ld Case<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.047 AA 999 360<br>VERT(CL): 0.105 AA 999 240<br>HORZ(LL): 0.023 D - -<br>HORZ(TL): 0.053 D - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.441<br>Max BC CSI: 0.531<br>Max Web CSI: 0.333<br><br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 1176 /- /- /617 /- /107<br>P 1176 /- /- /617 /- /-<br>Wind reactions based on MWFRS<br>B Brg Width = 3.5 Min Req = 1.5<br>P Brg Width = 3.5 Min Req = 1.5<br>Bearings B & P are a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - D 0 -442 I - L 0 -1392<br>B - D 0 -1165 L - N 0 -1513<br>D - F 0 -1513 N - P 0 -442<br>F - I 0 -1391 N - P 0 -1165 |

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

#### Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

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

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

The overall height of this truss excluding overhang is 6'-9.9."



COA #0278

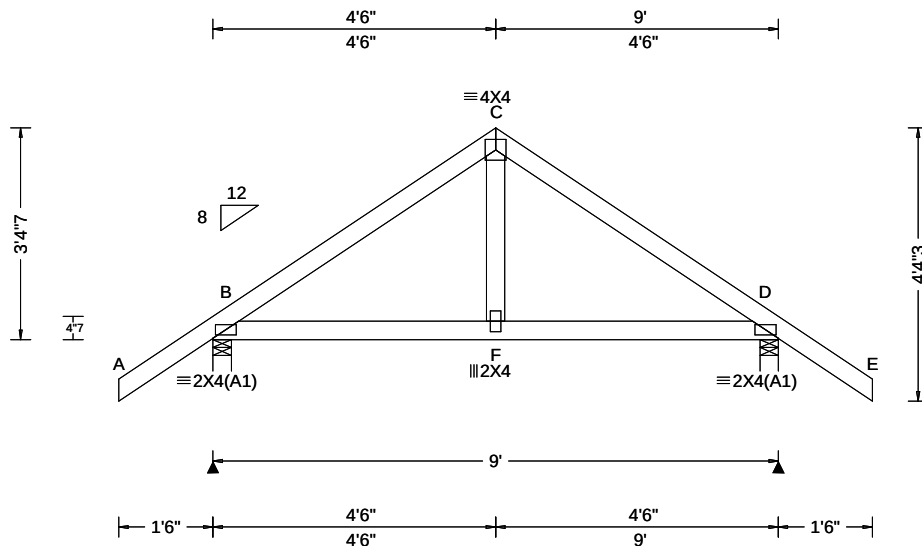
02/04/2022

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|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|
| SEQN: 629569 /<br>FROM: CDM | COMN<br>Ply: 1<br>Qty: 1 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: G01 | Cust: R 215 JRef:1XcS2150016 T10 /<br>DrwNo: 035.22.1709.32089<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                      | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                                | Defl/CSI Criteria                                                                                                                                                                                                                                                  | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.004 F 999 360<br>VERT(CL): 0.008 F 999 240<br>HORZ(LL): 0.002 F - -<br>HORZ(TL): 0.003 F - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.178<br>Max BC CSI: 0.182<br>Max Web CSI: 0.072<br><br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>Non-Gravity<br>B 481 /- /- /319 /82 /135<br>D 481 /- /- /230 /82 /-<br>Wind reactions based on MWFRS<br>B Brg Width = 3.5 Min Req = 1.5<br>D Brg Width = 3.5 Min Req = 1.5<br>Bearings B & D are a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 73 -395 C - D 73 -395 |

#### Lumber

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

#### Wind

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

#### Additional Notes

The overall height of this truss excluding overhang is 3-4-7.



COA #0278

02/04/2022

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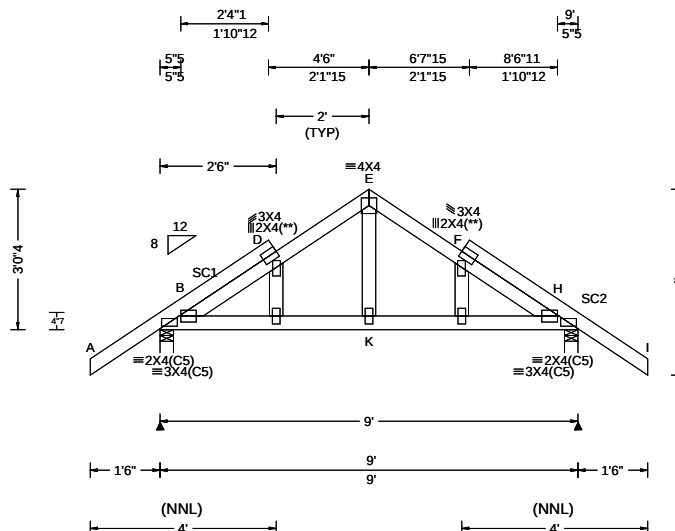
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|                             |                          |                                                              |                                                                                   |
|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|
| SEQN: 629570 /<br>FROM: CDM | GABL<br>Ply: 1<br>Qty: 1 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: G02 | Cust: R 215 JRef:1XcS2150016 T19 /<br>DrwNo: 035.22.1709.34010<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                      | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                                              | Defl/CSI Criteria                                                                                                                                                                                                                                                  | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Varies by Ld Case<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/def L/#<br>VERT(LL): 0.012 F 999 360<br>VERT(CL): 0.024 F 999 240<br>HORZ(LL): 0.006 D - -<br>HORZ(TL): 0.012 D - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.299<br>Max BC CSI: 0.212<br>Max Web CSI: 0.069<br><br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>Non-Gravity<br>B 545 /- /- /351 /117 /107<br>H 545 /- /- /351 /117 /-<br>Wind reactions based on MWFRS<br>B Brg Width = 3.5 Min Req = 1.5<br>H Brg Width = 3.5 Min Req = 1.5<br>Bearings B & H are a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>D - E 0 -403 E - F 0 -403 |

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

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

#### Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

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

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

The overall height of this truss excluding overhang is 3-0-4.



COA #0278

02/04/2022

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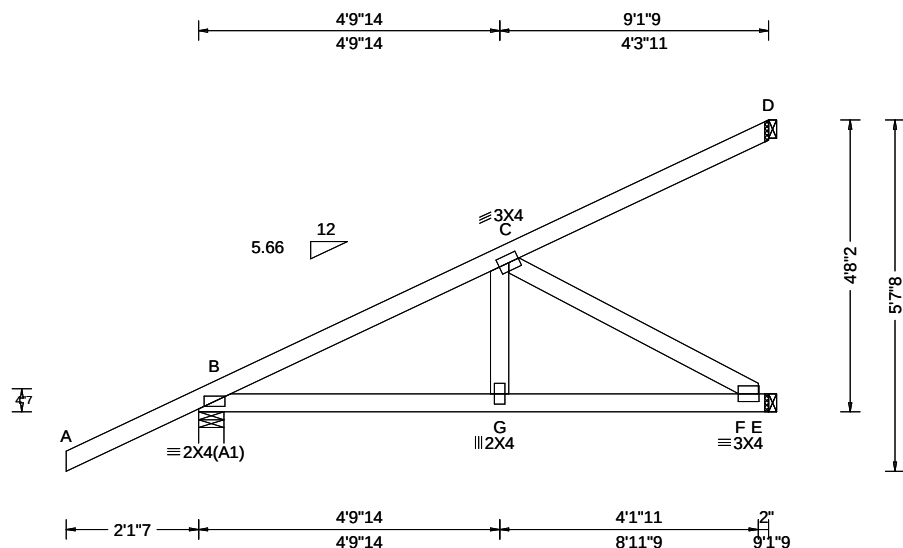
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|-----------------------------|------|------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|
| SEQN: 629577 /<br>FROM: CDM | HIP_ | Ply: 1<br>Qty: 3 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: HJ1 | Cust: R 215 JRef:1XcS2150016 T15 /<br>DrwNo: 035.22.1709.34385<br>/ YK 02/04/2022 |
|-----------------------------|------|------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                                          | Defl/CSI Criteria                                                                                                                                                                                                                                               | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Varies by Ld Case<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.010 G 999 360<br>VERT(CL): 0.022 G 999 240<br>HORZ(LL): 0.003 F - -<br>HORZ(TL): 0.007 F - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.414<br>Max BC CSI: 0.424<br>Max Web CSI: 0.245<br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>Non-Gravity<br>B 372 /- /- /- /68 /-<br>E 295 /- /- /- /57 /-<br>D 57 /- /- /- /29 /-<br>Wind reactions based on MWFRS<br>B Brg Width = 4.9 Min Req = 1.5<br>E Brg Width = 1.5 Min Req = -<br>D Brg Width = 1.5 Min Req = -<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. |

#### Lumber

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

#### Special Loads

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

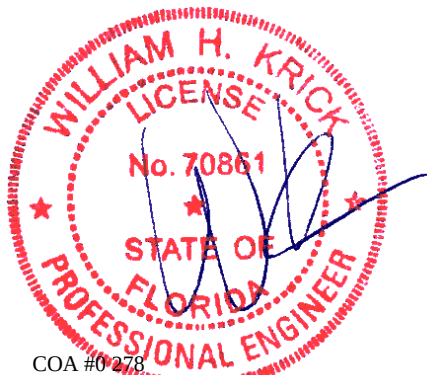
TC: From -0 plf at -2.12 to 62 plf at 0.00  
TC: From 2 plf at 0.00 to 2 plf at 9.13  
BC: From 0 plf at -2.12 to 4 plf at 0.00  
BC: From 20 plf at 0.00 to 20 plf at 3.50  
BC: From 2 plf at 3.50 to 2 plf at 9.13  
TC: 86 lb Conc. Load at 3.50  
TC: 229 lb Conc. Load at 6.33  
BC: 78 lb Conc. Load at 3.50  
BC: 160 lb Conc. Load at 6.33

#### Wind

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

#### Additional Notes

The overall height of this truss excluding overhang is 4-8-2.



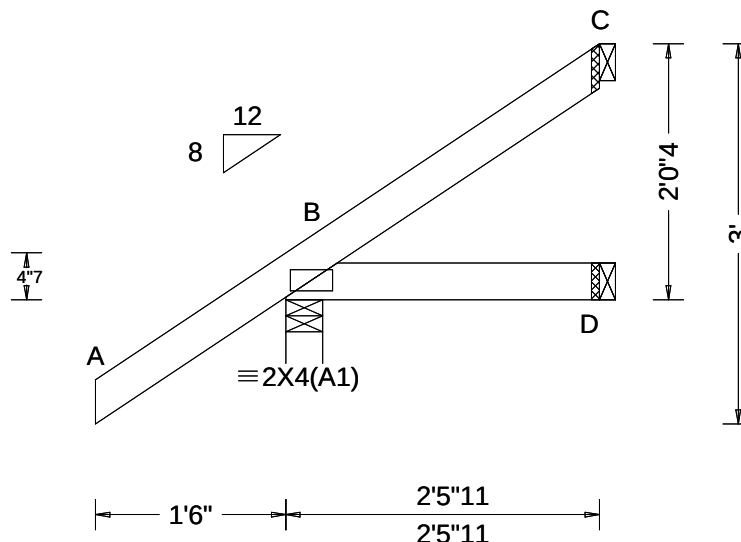
COA #0278

02/04/2022

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|                             |                          |                                                             |                                                                                    |
|-----------------------------|--------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------|
| SEQN: 629571 /<br>FROM: CDM | JACK<br>Ply: 1<br>Qty: 6 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: J1 | Cust: R 215 JRef: 1XcS2150016 T13 /<br>DrwNo: 035.22.1709.34229<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                      | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                                | Defl/CSI Criteria                                                                                                                                                                                                                          | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): NA<br>VERT(CL): NA<br>HORZ(LL): -0.001 D - -<br>HORZ(TL): 0.001 D - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.167<br>Max BC CSI: 0.039<br>Max Web CSI: 0.000<br><br>VIEW Ver: 21.01.01A.0521.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 253 /- /- /193 /32 /85<br>D 39 /- /- /27 /- /-<br>C 43 /- /- /33 /32 /-<br>Wind reactions based on MWFRS<br>B Brg Width = 3.5 Min Req = 1.5<br>D Brg Width = 1.5 Min Req = -<br>C Brg Width = 1.5 Min Req = -<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

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

#### Wind

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

#### Additional Notes

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



COA #0278

02/04/2022

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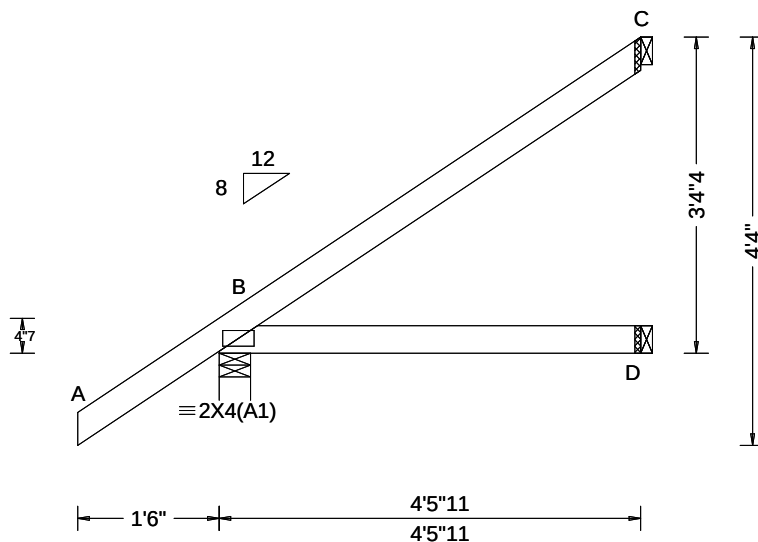
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|                             |                          |                                                             |                                                                                    |
|-----------------------------|--------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------|
| SEQN: 629572 /<br>FROM: CDM | JACK<br>Ply: 1<br>Qty: 5 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: J2 | Cust: R 215 JRef: 1XcS2150016 T12 /<br>DrwNo: 035.22.1709.34917<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                      | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                            | Defl/CSI Criteria                                                                                                                                                                                                                     | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): NA<br>VERT(CL): NA<br>HORZ(LL): 0.002 D - -<br>HORZ(TL): 0.005 D - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.244<br>Max BC CSI: 0.185<br>Max Web CSI: 0.000<br>VIEW Ver: 21.01.01A.0521.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 319 /- /- /228 /24 /132<br>D 80 /- /- /47 /- /-<br>C 115 /- /- /82 /70 /-<br>Wind reactions based on MWFRS<br>B Brg Width = 4.0 Min Req = 1.5<br>D Brg Width = 1.5 Min Req = -<br>C Brg Width = 1.5 Min Req = -<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

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

#### Wind

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

#### Additional Notes

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



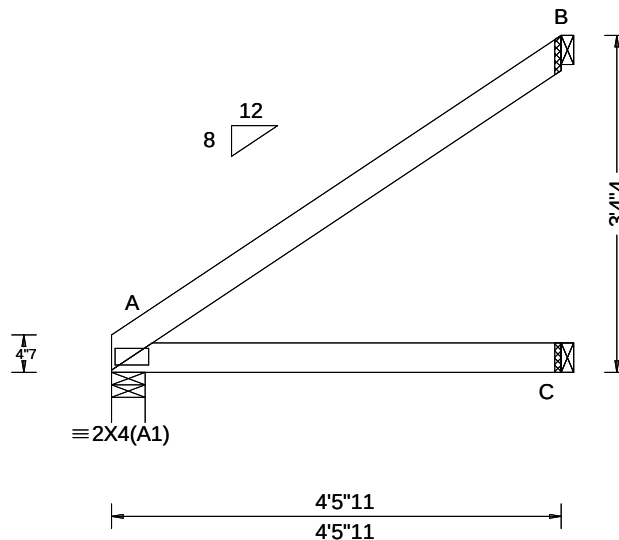
COA #0278

02/04/2022

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|-----------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|
| SEQN: 629573 /<br>FROM: CDM | JACK<br>Ply: 1<br>Qty: 1 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: J2A | Cust: R 215 JRef: 1XcS2150016 T16 /<br>DrwNo: 035.22.1709.33057<br>/ YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                      | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                            | Defl/CSI Criteria                                                                                                                                                                                                                     | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): NA<br>VERT(CL): NA<br>HORZ(LL): 0.004 C - -<br>HORZ(TL): 0.009 C - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.298<br>Max BC CSI: 0.203<br>Max Web CSI: 0.000<br>VIEW Ver: 21.01.01A.0521.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>A 194 /- /- /120 /- /104<br>C 84 /- /- /51 /- /-<br>B 127 /- /- /93 /74 /-<br>Wind reactions based on MWFRS<br>A Brg Width = 4.0 Min Req = 1.5<br>C Brg Width = 1.5 Min Req = -<br>B Brg Width = 1.5 Min Req = -<br>Bearing A is a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

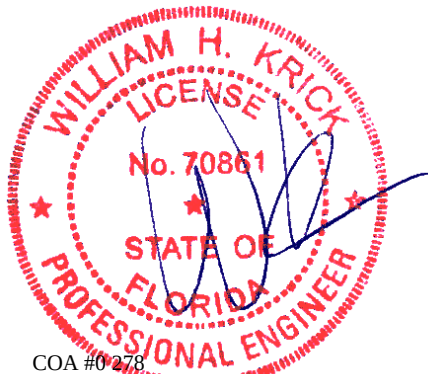
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

#### Wind

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

#### Additional Notes

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



COA #0278

02/04/2022

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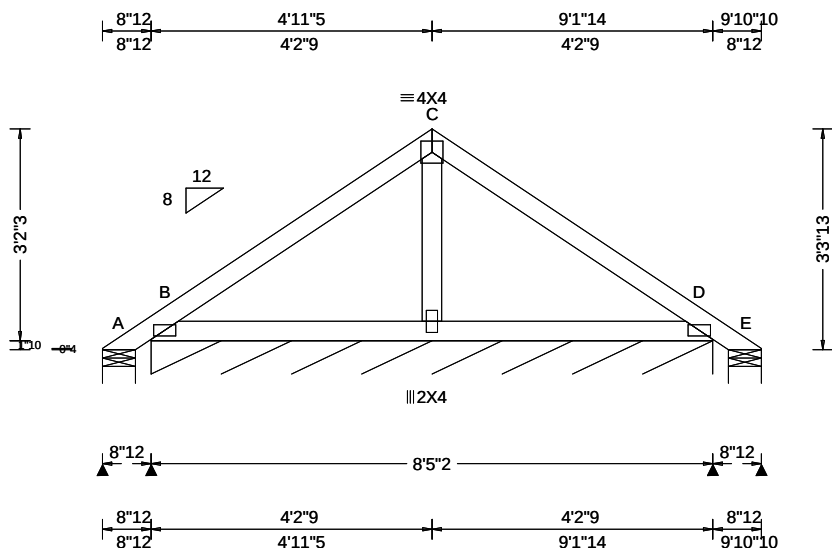
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|                             |                           |                                                              |                                                                                    |
|-----------------------------|---------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|
| SEQN: 629575 /<br>FROM: CDM | GABL<br>Ply: 1<br>Qty: 20 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: P01 | Cust: R 215 JRef: 1XcS2150016 T23 /<br>DrwNo: 035.22.1709.32557<br>/ YK 02/04/2022 |
|-----------------------------|---------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                                 | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                            | Defl/CSI Criteria                                                                                                                                                                                                                                                | ▲ Maximum Reactions (lbs), or *=PLF                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 20.76 ft<br>TCDL: 5.0 psf<br>BCDL: 2.0 psf<br>MWFRS Parallel Dist: h/2 to h<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: not in 9.00 ft<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.001 F 999 360<br>VERT(CL): 0.002 F 999 240<br>HORZ(LL): -0.001 F - -<br>HORZ(TL): 0.002 F - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.194<br>Max BC CSI: 0.088<br>Max Web CSI: 0.025<br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>Non-Gravity<br>A - /-99 /- /97 /142 /92<br>B* 100 /- /- /73 /15 /-<br>E - /-99 /- /47 /91 /-<br>B /-112<br>Wind reactions based on MWFRS<br>A Brg Width = 5.9 Min Req = 1.5<br>B Brg Width = 101 Min Req = -<br>E Brg Width = 5.9 Min Req = 1.5<br>Bearings A, B, & E are a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

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

#### Plating Notes

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

#### Loading

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

#### Purlins

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

#### Wind

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

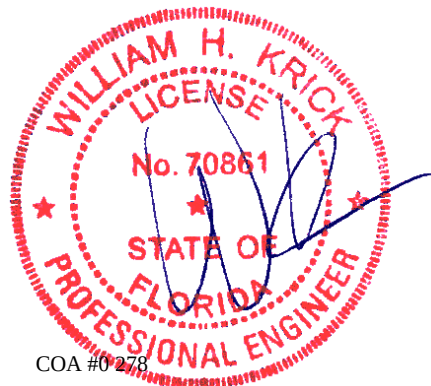
Wind loading based on both gable and hip roof types.

#### Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.

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



COA #0278

02/04/2022

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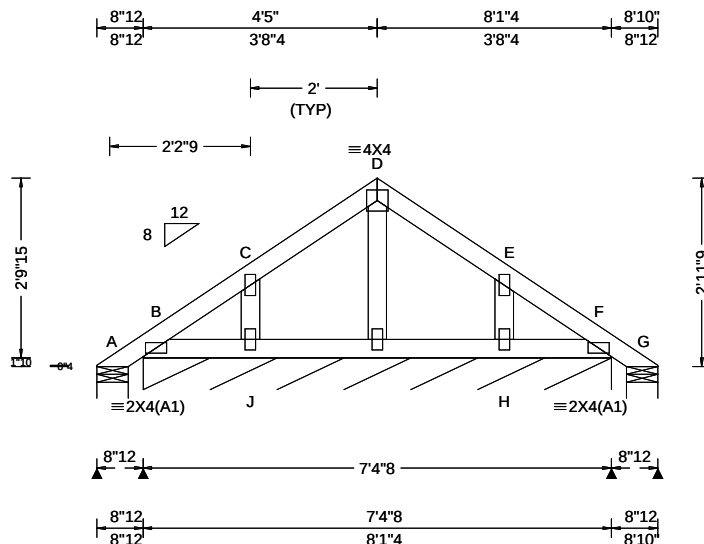
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|                             |                          |                                                              |                                                                                       |
|-----------------------------|--------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------|
| SEQN: 629576 /<br>FROM: CDM | GABL<br>Ply: 1<br>Qty: 2 | Job Number: 22-6913<br>Lot 45 Jewel Lake<br>Truss Label: P02 | Cust: R 215 JRef: 1XcS2150016 T73 /<br>DrwNo: 035.22.1709.33885<br>KD / YK 02/04/2022 |
|-----------------------------|--------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                              | Wind Criteria                                                                                                                                                                                                                                                                                 | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                            | Defl/CSI Criteria                                                                                                                                                                                                                                               | ▲ Maximum Reactions (lbs), or *=PLF                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 10.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 40.00<br>NCBCLL: 10.00<br>Soffit: 2.00<br>Load Duration: 1.25<br>Spacing: 24.0 " | Wind Std: ASCE 7-16<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 20.59 ft<br>TCDL: 5.0 psf<br>BCDL: 2.0 psf<br>MWFRS Parallel Dist: h/2 to h<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: not in 9.00 ft<br>GCp: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br>Building Code:<br>FBC 7th Ed. 2020 Res.<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.000 D 999 360<br>VERT(CL): 0.000 D 999 240<br>HORZ(LL): 0.000 E - -<br>HORZ(TL): 0.001 E - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.050<br>Max BC CSI: 0.020<br>Max Web CSI: 0.024<br>VIEW Ver: 21.01.01A.0521.20 | Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>Non-Gravity<br>A 17 /- /- /56 /42 /82<br>B* 73 /- /- /58 /7 /-<br>G 17 /- /- /15 /2 /-<br>Wind reactions based on MWFRS<br>A Brg Width = 5.9 Min Req = 1.5<br>B Brg Width = 88.5 Min Req = -<br>G Brg Width = 5.9 Min Req = 1.5<br>Bearings A, B, & G are a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

#### Loading

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

#### Purlins

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

#### Wind

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

#### Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.  
Refer to DWG PB160160118 for piggyback details.  
The overall height of this truss excluding overhang is 12-11-9.



COA #0278  
02/04/2022

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

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

For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbcindustry.com](http://sbcindustry.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)

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

# Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

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

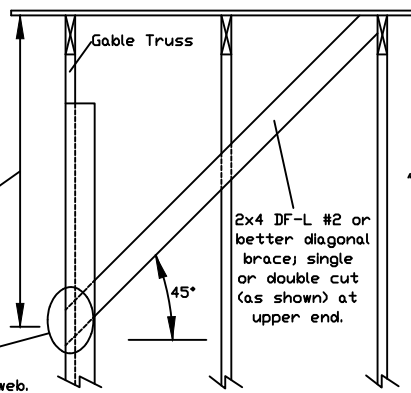
Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

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

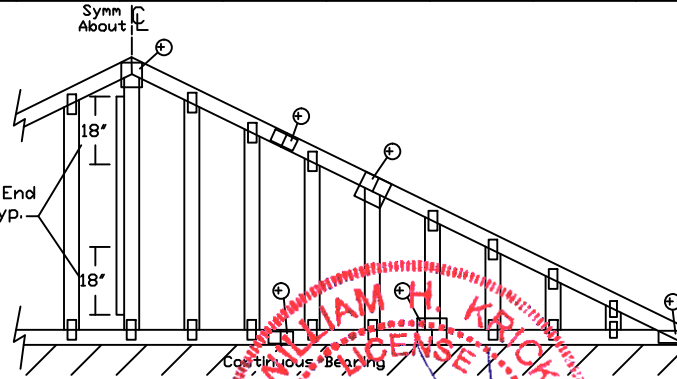
Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



'L' Brace End Zones, typ.



Refer to chart above for max gable vertical length.

## Bracing Group Species and Grades:

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

| Group B:          |  |                  |  |
|-------------------|--|------------------|--|
| Hem-Fir           |  |                  |  |
| #1 & Btr          |  |                  |  |
| #1                |  |                  |  |
| Douglas Fir-Larch |  | Southern Pine*** |  |
| #1                |  | #1               |  |
| #2                |  | #2               |  |

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

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

## Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

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

\* For (1) 'L' brace: space nails at 2' o.c.

in 18' end zones and 4' o.c. between zones.

\*\* For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.

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

## Gable Vertical Plate Sizes

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

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

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



514 Earth City Expressway  
Suite 242  
Earth City, MO 63045

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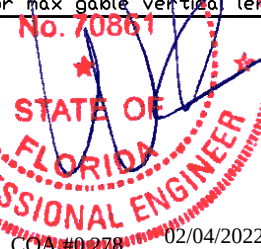
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For more information see this job's general notes page and these web sites:

ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinet.org](http://www.tpinet.org); SBCA: [www.sbcacomponents.com](http://www.sbcacomponents.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)



MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB14015

DATE 01/26/2018

DRWG A14015ENC160118

# Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

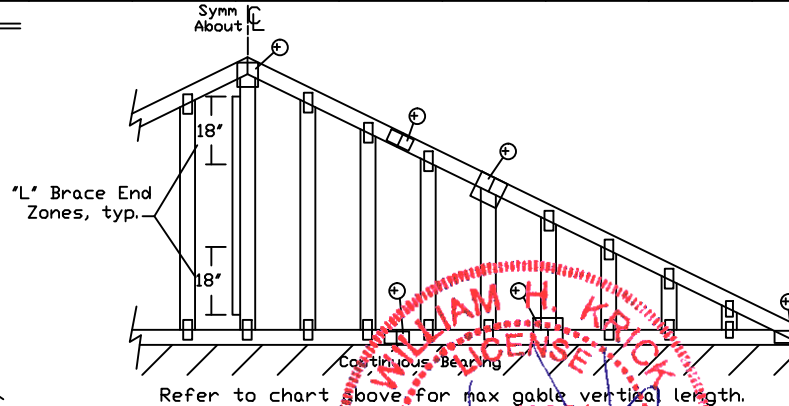
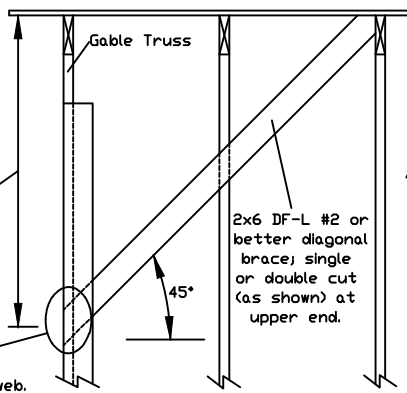
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

| Max Gable Vertical Length | 2x4 Gable Vertical |          | Brace Grade | No Braces | (1) 1x4 'L' Brace * |         | (1) 2x4 'L' Brace * |         | (2) 2x4 'L' Brace ** |         | (1) 2x6 'L' Brace * |         | (2) 2x6 'L' Brace ** |         |
|---------------------------|--------------------|----------|-------------|-----------|---------------------|---------|---------------------|---------|----------------------|---------|---------------------|---------|----------------------|---------|
|                           | Spacing            | Species  |             |           | Group A             | Group B | Group A             | Group B | Group A              | Group B | Group A             | Group B | Group A              | Group B |
|                           |                    |          |             |           |                     |         |                     |         |                      |         |                     |         |                      |         |
| 24" O.C.                  | SPF                | #1 / #2  | #1          | 4' 1"     | 6' 11"              | 7' 2"   | 8' 2"               | 8' 6"   | 9' 9"                | 10' 2"  | 12' 10"             | 13' 4"  | 14' 0"               | 14' 0"  |
|                           |                    |          | #3          | 3' 10"    | 6' 2"               | 6' 7"   | 8' 1"               | 8' 5"   | 9' 8"                | 10' 0"  | 12' 8"              | 13' 2"  | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 3' 10"    | 6' 2"               | 6' 6"   | 8' 1"               | 8' 5"   | 9' 8"                | 10' 0"  | 12' 8"              | 13' 2"  | 14' 0"               | 14' 0"  |
|                           |                    | Standard | #1          | 4' 2"     | 5' 3"               | 5' 7"   | 7' 0"               | 7' 6"   | 9' 6"                | 10' 0"  | 11' 0"              | 11' 10" | 14' 0"               | 14' 0"  |
|                           |                    |          | #2          | 4' 1"     | 5' 7"               | 5' 11"  | 7' 5"               | 7' 11"  | 9' 8"                | 10' 1"  | 11' 7"              | 12' 5"  | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 4' 0"     | 5' 7"               | 5' 11"  | 7' 5"               | 7' 11"  | 9' 8"                | 10' 1"  | 11' 7"              | 12' 5"  | 14' 0"               | 14' 0"  |
|                           | SP                 | DFL      | #1          | 4' 2"     | 5' 3"               | 5' 7"   | 7' 0"               | 7' 6"   | 9' 6"                | 10' 0"  | 11' 0"              | 11' 10" | 14' 0"               | 14' 0"  |
|                           |                    |          | #2          | 4' 1"     | 5' 7"               | 5' 11"  | 7' 5"               | 7' 11"  | 9' 8"                | 10' 1"  | 11' 7"              | 12' 5"  | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 4' 0"     | 5' 7"               | 5' 11"  | 7' 5"               | 7' 11"  | 9' 8"                | 10' 1"  | 11' 7"              | 12' 5"  | 14' 0"               | 14' 0"  |
|                           |                    | Standard | #1          | 4' 2"     | 5' 3"               | 5' 7"   | 7' 0"               | 7' 6"   | 9' 6"                | 10' 0"  | 11' 0"              | 11' 10" | 14' 0"               | 14' 0"  |
|                           |                    |          | #2          | 4' 1"     | 5' 7"               | 5' 11"  | 7' 5"               | 7' 11"  | 9' 8"                | 10' 1"  | 11' 7"              | 12' 5"  | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 4' 0"     | 5' 7"               | 5' 11"  | 7' 5"               | 7' 11"  | 9' 8"                | 10' 1"  | 11' 7"              | 12' 5"  | 14' 0"               | 14' 0"  |
| 16" O.C.                  | SPF                | #1 / #2  | #1          | 4' 8"     | 7' 11"              | 8' 3"   | 9' 4"               | 9' 9"   | 11' 2"               | 11' 7"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | #3          | 4' 5"     | 7' 6"               | 8' 3"   | 9' 3"               | 9' 7"   | 11' 0"               | 11' 6"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 4' 5"     | 7' 6"               | 8' 0"   | 9' 3"               | 9' 7"   | 11' 0"               | 11' 6"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    | Standard | #1          | 4' 5"     | 6' 5"               | 6' 10"  | 8' 7"               | 9' 2"   | 11' 0"               | 11' 6"  | 13' 6"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | #2          | 4' 10"    | 8' 0"               | 8' 4"   | 9' 6"               | 9' 10"  | 11' 3"               | 11' 9"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 4' 8"     | 7' 11"              | 8' 3"   | 9' 4"               | 9' 9"   | 11' 2"               | 11' 7"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           | SP                 | DFL      | #1          | 4' 7"     | 6' 10"              | 7' 3"   | 9' 1"               | 9' 8"   | 11' 1"               | 11' 6"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | #2          | 4' 7"     | 6' 10"              | 7' 3"   | 9' 1"               | 9' 8"   | 11' 1"               | 11' 6"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 4' 7"     | 6' 10"              | 7' 3"   | 9' 1"               | 9' 8"   | 11' 1"               | 11' 6"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    | Standard | #1          | 4' 5"     | 6' 0"               | 6' 5"   | 8' 0"               | 8' 7"   | 10' 10"              | 11' 6"  | 12' 7"              | 13' 15" | 14' 0"               | 14' 0"  |
|                           |                    |          | #2          | 4' 5"     | 6' 0"               | 6' 5"   | 8' 0"               | 8' 7"   | 10' 10"              | 11' 6"  | 12' 7"              | 13' 15" | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 4' 5"     | 6' 0"               | 6' 5"   | 8' 0"               | 8' 7"   | 10' 10"              | 11' 6"  | 12' 7"              | 13' 15" | 14' 0"               | 14' 0"  |
| 12" O.C.                  | SPF                | #1 / #2  | #1          | 5' 2"     | 8' 9"               | 9' 1"   | 10' 4"              | 10' 9"  | 11' 2"               | 12' 9"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | #3          | 4' 10"    | 8' 7"               | 8' 11"  | 10' 2"              | 10' 7"  | 12' 2"               | 12' 8"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 4' 10"    | 8' 7"               | 8' 11"  | 10' 2"              | 10' 7"  | 12' 2"               | 12' 8"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    | Standard | #1          | 5' 4"     | 8' 10"              | 9' 2"   | 10' 5"              | 10' 10" | 12' 5"               | 12' 11" | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | #2          | 5' 2"     | 8' 9"               | 9' 1"   | 10' 4"              | 10' 9"  | 12' 3"               | 12' 9"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 5' 0"     | 7' 10"              | 8' 4"   | 10' 3"              | 10' 8"  | 12' 2"               | 12' 8"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           | SP                 | DFL      | #1          | 5' 4"     | 8' 10"              | 9' 2"   | 10' 5"              | 10' 10" | 12' 5"               | 12' 11" | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | #2          | 5' 2"     | 8' 9"               | 9' 1"   | 10' 4"              | 10' 9"  | 12' 3"               | 12' 9"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 5' 0"     | 7' 10"              | 8' 4"   | 10' 3"              | 10' 8"  | 12' 2"               | 12' 8"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    | Standard | #1          | 5' 4"     | 8' 10"              | 9' 2"   | 10' 5"              | 10' 10" | 12' 5"               | 12' 11" | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | #2          | 5' 2"     | 8' 9"               | 9' 1"   | 10' 4"              | 10' 9"  | 12' 3"               | 12' 9"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |
|                           |                    |          | Stud        | 5' 0"     | 7' 10"              | 8' 4"   | 10' 3"              | 10' 8"  | 12' 2"               | 12' 8"  | 14' 0"              | 14' 0"  | 14' 0"               | 14' 0"  |

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 525# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Refer to chart above for max gable vertical length.

## Bracing Group Species and Grades:

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

| Group B:          |    |                  |    |
|-------------------|----|------------------|----|
| Hem-Fir           |    |                  |    |
| #1 & Btr          | #1 |                  |    |
| Douglas Fir-Larch |    | Southern Pine*** |    |
| #1                | #2 | #1               | #2 |

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

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

## Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

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

\* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.  
 \*\* For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.

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

## Gable Vertical Plate Sizes

| Vertical Length                          | No Splice |
|------------------------------------------|-----------|
| Less than 4' 0"                          | 2X4       |
| Greater than 4' 0", but less than 11' 6" | 3X4       |
| Greater than 11' 6"                      | 4X4       |

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

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



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No. 70861  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 COA #0 278 02/04/2022

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB14030

DATE 01/26/2018

DRWG A14030ENC160118



# CLR Reinforcing Member Substitution

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

## Notes:

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

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

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

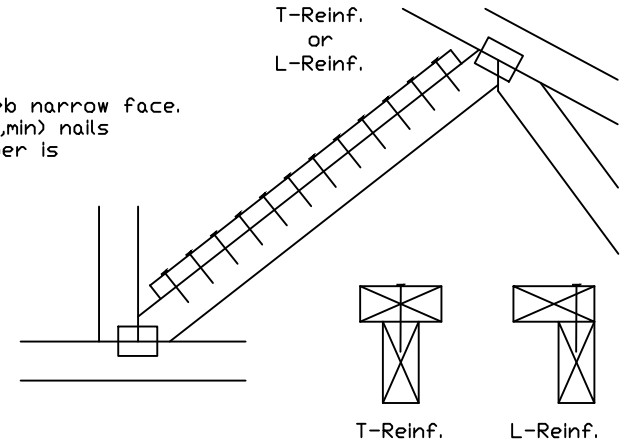
| Web Member Size | Specified CLR Restraint | Alternative Reinforcement T- or L- Reinf. | Scab Reinf. |
|-----------------|-------------------------|-------------------------------------------|-------------|
| 2x3 or 2x4      | 1 row                   | 2x4                                       | 1-2x4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

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

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

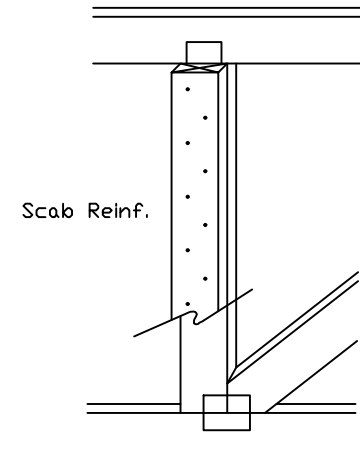
## T-Reinforcement or L-Reinforcement:

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



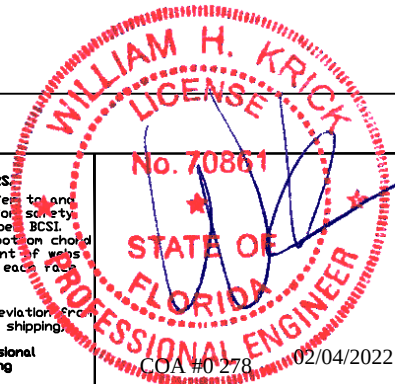
## Scab Reinforcement:

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



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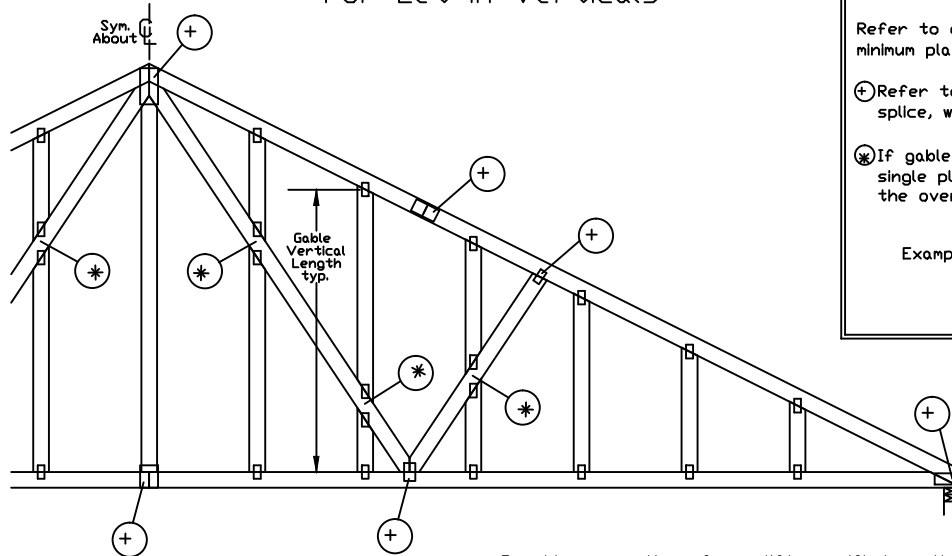
**WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING**  
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|           |     |                   |
|-----------|-----|-------------------|
| TC LL     | PSF | REF CLR Subst.    |
| TC DL     | PSF | DATE 01/02/19     |
| BC DL     | PSF | DRWG BRCLBSUB0119 |
| BC LL     | PSF |                   |
| TOT. LD.  | PSF |                   |
| DUR. FAC. |     |                   |
| SPACING   |     |                   |



# Gable Detail For Let-in Verticals

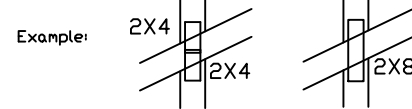


## Gable Truss Plate Sizes

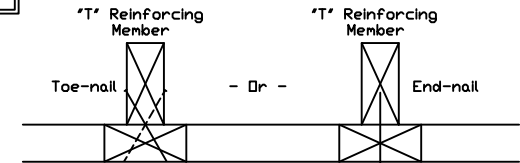
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

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

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



## 'T' Reinforcement Attachment Detail



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

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

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

## Web Length Increase w/ 'T' Brace

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

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

Gable Vertical = 24' o.c. SP #3

'T' Reinforcing Member Size = 2x4

'T' Brace Increase (From Above) = 30% = 1.30

(1) 2x4 'L' Brace Length = 8' 7"

Maximum 'T' Reinforced Gable Vertical Length  
1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

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

Toenailed Nails:

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

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

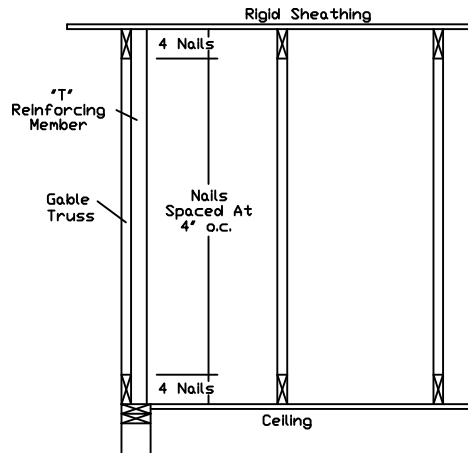
## ASCE 7-05 Gable Detail Drawings

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

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

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,  
A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,  
A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,  
A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,  
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,  
S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,  
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,  
S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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



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514 Earth City Expressway  
Suite 242  
Earth City, MO 63045

No. 70861

STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

COA #0278

02/04/2022

REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

# Piggyback Detail - ASCE 7-16: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

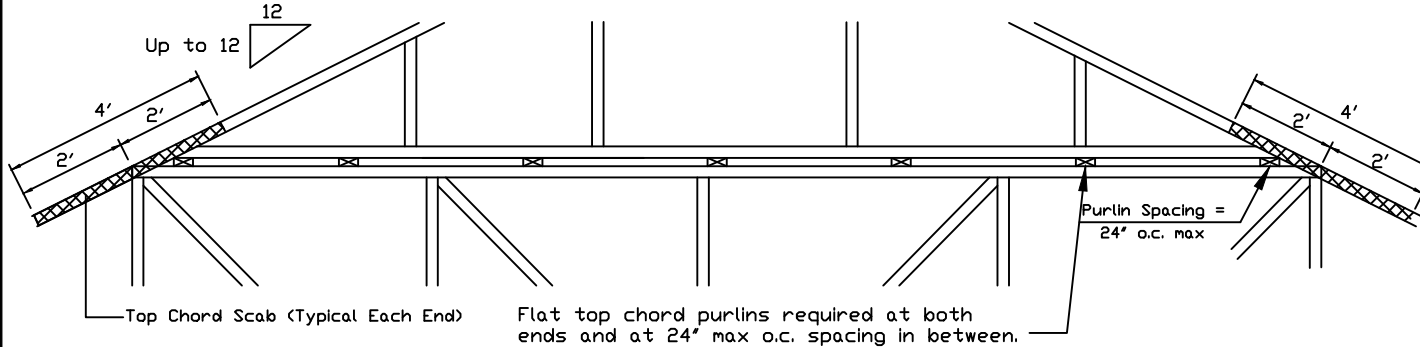
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.  
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

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

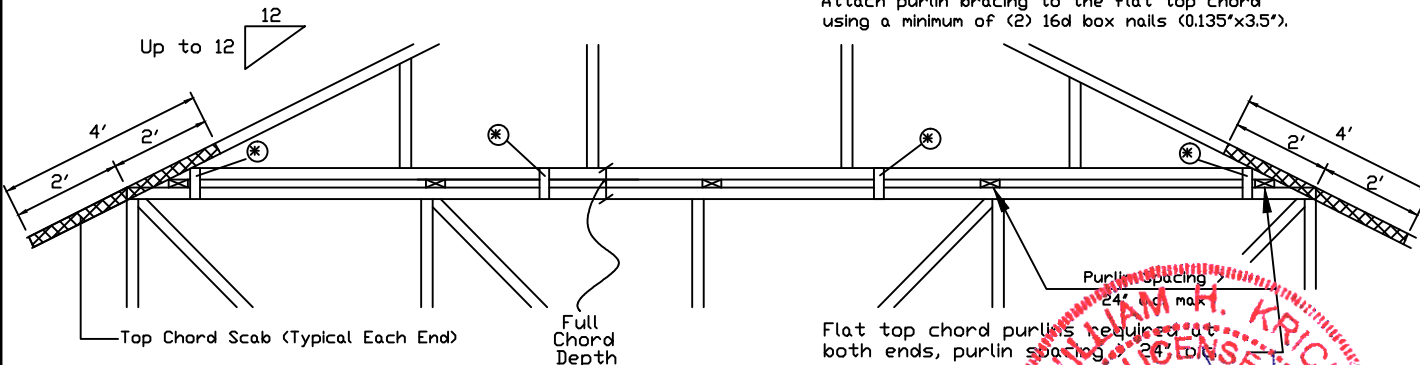


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

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

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

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



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

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

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

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

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

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

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

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

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No. 70861

STATE OF  
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PROFESSIONAL ENGINEER

COA #0278 02/04/2022

REF PIGGYBACK

DATE 01/02/2018

DRWG PB160160118

SPACING 24.0"