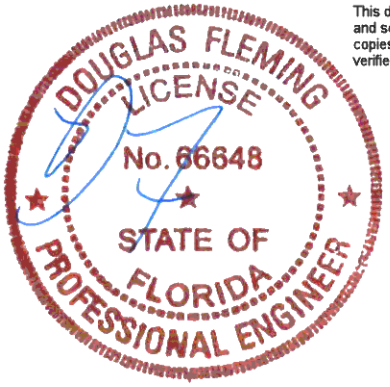



This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.

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

COA #0 278
04/13/2021


| Site Information: | Page 1: |
|---|---|
| *Customer:* W. B. Howland Company, Inc. | *Job Number:* 21-5244 |
| *Job Description:* Albritton Res | |
| *Address:* FL | |

| Job Engineering Criteria: | |
|---|---|
| *Design Code:* FBC 7th Ed. 2020 Res | *IntelliVIEW Version:* 20.01.01A<br>*JRef #:* 1X4J2150006 |
| *Wind Standard:* ASCE 7-16 *Wind Speed (mph):* 130<br>*Building Type:* Closed | *Design Loading (psf):* 40.00 |

This package contains general notes pages, 28 truss drawing(s) and 5 detail(s).

| Item | Drawing Number | Truss | Item | Drawing Number | Truss |
|---|---|---|---|---|---|
| 1 | 103.21.1355.51930 | A01 | 2 | 103.21.1355.54710 | A02 |
| 3 | 103.21.1355.58427 | A03 | 4 | 103.21.1356.01243 | A04 |
| 5 | 103.21.1356.03720 | A05 | 6 | 103.21.1356.13870 | B01 |
| 7 | 103.21.1356.17397 | B02 | 8 | 103.21.1356.20543 | B03 |
| 9 | 103.21.1356.56613 | C01 | 10 | 103.21.1357.01647 | C02 |
| 11 | 103.21.1357.04263 | C03 | 12 | 103.21.1402.24937 | C04 |
| 13 | 103.21.1402.27493 | C05 | 14 | 103.21.1403.01593 | C06 |
| 15 | 103.21.1403.04210 | D01 | 16 | 103.21.1403.06920 | D02 |
| 17 | 103.21.1403.08500 | HJ01 | 18 | 103.21.1403.10147 | J01 |
| 19 | 103.21.1403.13877 | J02 | 20 | 103.21.1403.15397 | J03 |
| 21 | 103.21.1403.16913 | J04 | 22 | 103.21.1403.19657 | J05 |
| 23 | 103.21.1403.42153 | J06 | 24 | 103.21.1403.48243 | J07 |
| 25 | 103.21.1404.04693 | PB01 | 26 | 103.21.1404.06480 | PB02 |
| 27 | 103.21.1404.08983 | PB03 | 28 | 103.21.1404.15760 | PB04 |
| 29 | A14015ENC160118 | | 30 | BRCLBSUB0119 | |
| 31 | GBLLETIN0118 | | 32 | PB160160118 | |
| 33 | A14030ENC160118 | | | | |

## General Notes

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

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

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

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

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

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

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

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

## **General Notes** (continued)

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

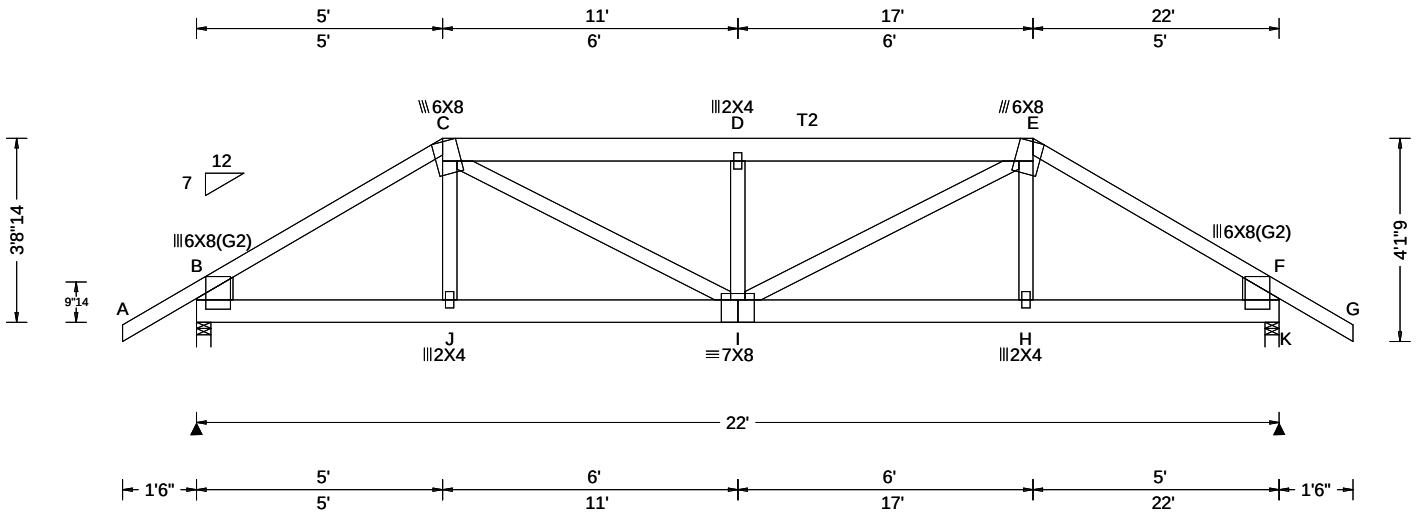
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze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

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

**References:**


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

| | | | | | |
|---|---|---|---|---|---|
| SEQN: 619460 HIPS<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** A01 | | Cust: R 215 JRef:1X4J2150006 T6<br>DrwNo: 103.21.1355.51930<br>JB / DF 04/13/2021 | |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.076 | D | 999 | 240 |
| VERT(CL): 0.153 | D | 999 | 180 |
| HORZ(LL): 0.015 | H | - | - |
| HORZ(TL): 0.030 | H | - | - |

Creep Factor: 2.0
Max TC CSI: 0.543
Max BC CSI: 0.207
Max Web CSI: 0.415

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| B | 1792 | /- | /- | /- | /458 | /- |
| K | 1792 | /- | /- | /- | /458 | /- |

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

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 711 | - 2723 | D - E | 858 | - 3224 |
| C - D | 858 | - 3224 | E - F | 711 | - 2723 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - J | 2256 | - 581 | I - H | 2267 | - 579 |
| J - I | 2267 | - 579 | H - F | 2256 | - 581 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| C - I | 1090 | - 318 | D - I | 368 | - 687 |
| I - E | 1090 | - 318 | | | |

**Lumber**

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

**Special Loads**

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

| | | | | | |
|---|---|---|---|---|---|
| TC: From | 63 plf at | -1.50 to | 63 plf at | 5.00 | |
| TC: From | 32 plf at | 5.00 to | 32 plf at | 17.00 | |
| TC: From | 63 plf at | 17.00 to | 63 plf at | 23.50 | |
| BC: From | 5 plf at | -1.50 to | 5 plf at | 0.00 | |
| BC: From | 20 plf at | 0.00 to | 20 plf at | 5.03 | |
| BC: From | 10 plf at | 5.03 to | 10 plf at | 16.97 | |
| BC: From | 20 plf at | 16.97 to | 20 plf at | 22.00 | |
| BC: From | 5 plf at | 22.00 to | 5 plf at | 23.50 | |

TC: 168 lb Conc. Load at 5.03,16.97
TC: 138 lb Conc. Load at 7.06, 9.06,11.00,12.94 14.94
BC: 275 lb Conc. Load at 5.03,16.97
BC: 95 lb Conc. Load at 7.06, 9.06,11.00,12.94 14.94

**Purlins**

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

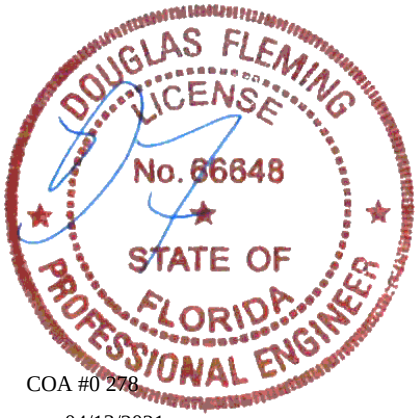
**Wind**

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 3-8-14.




COA #0 278

04/13/2021

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

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

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

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

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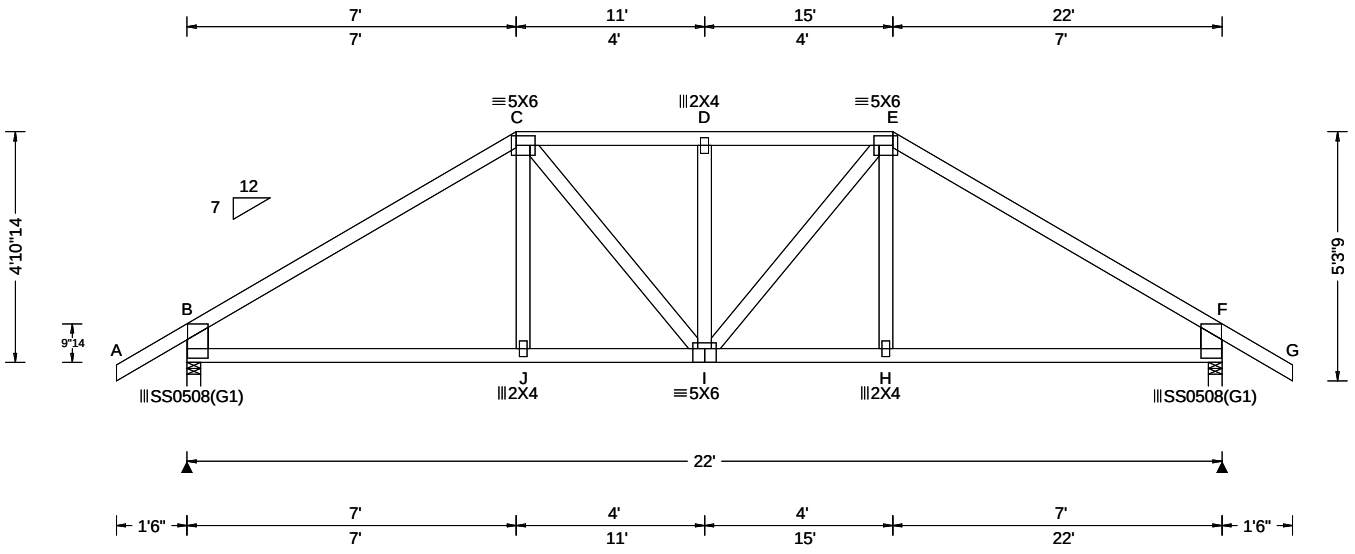
Suite 305
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 619463 HIPS<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** A02 | Cust: R 215 JRef:1X4J2150006 T2<br>DrwNo: 103.21.1355.54710<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.057 | D | 999 | 240 |
| VERT(CL): 0.115 | D | 999 | 180 |
| HORZ(LL): 0.026 | H | - | - |
| HORZ(TL): 0.054 | H | - | - |

Creep Factor: 2.0
Max TC CSI: 0.913
Max BC CSI: 0.742
Max Web CSI: 0.142

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| B | 1016 | /- | /- | /602 | /182 | /149 |
| F | 1016 | /- | /- | /602 | /182 | /- |

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

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 548 | - 1244 | D - E | 634 | - 1091 |
| C - D | 634 | - 1091 | E - F | 548 | - 1244 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - J | 963 | - 342 | I - H | 966 | - 346 |
| J - I | 966 | - 339 | H - F | 963 | - 348 |

**Lumber**

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

**Purlins**

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

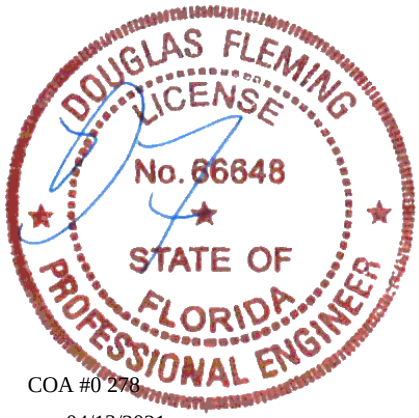
**Wind**

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

Wind loading based on both gable and hip roof types.

**Additional Notes**

The overall height of this truss excluding overhang is 4-10-14.




COA #0 278

04/13/2021

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

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

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

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

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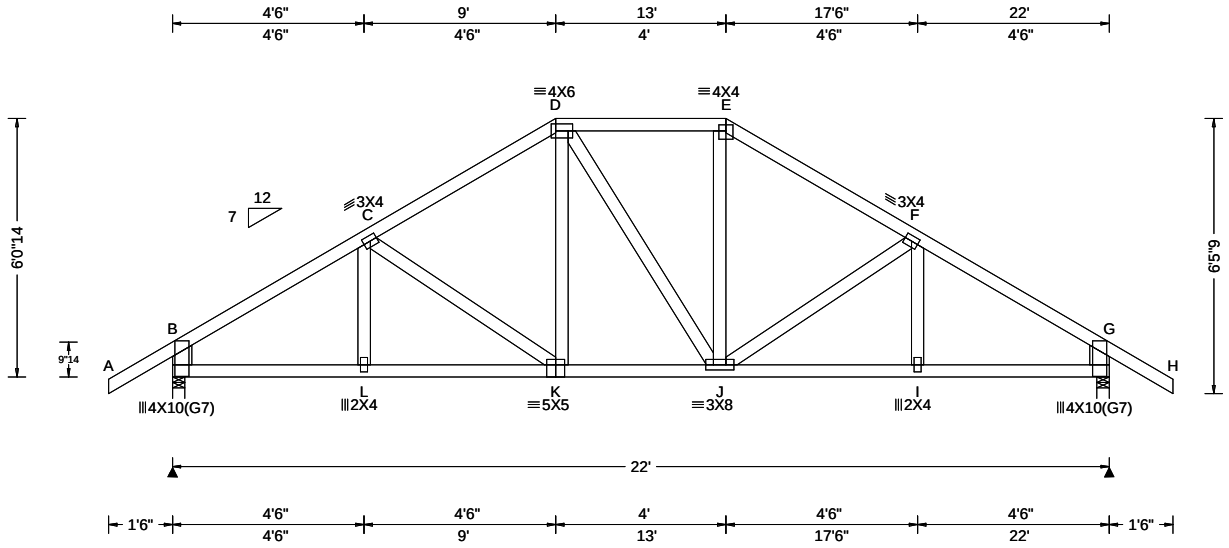
Suite 305
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 619466 HIPS<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** A03 | Cust: R 215 JRef:1X4J2150006 T3<br>DrwNo: 103.21.1355.58427<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.063 | K | 999 | 240 |
| VERT(CL): 0.128 | K | 999 | 180 |
| HORZ(LL): 0.032 | I | - | - |
| HORZ(TL): 0.066 | I | - | - |

Creep Factor: 2.0
Max TC CSI: 0.809
Max BC CSI: 0.894
Max Web CSI: 0.118

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| B | 1016 | /- | /- | /607 | /178 | /179 |
| G | 1016 | /- | /- | /607 | /178 | /- |

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

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 385 | - 1275 | E - F | 417 | - 1049 |
| C - D | 418 | - 1052 | F - G | 385 | - 1276 |
| D - E | 398 | - 855 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - L | 1011 | - 230 | J - I | 1011 | - 237 |
| L - K | 1011 | - 232 | I - G | 1011 | - 236 |
| K - J | 853 | - 176 | | | |

**Lumber**

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

**Purlins**

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

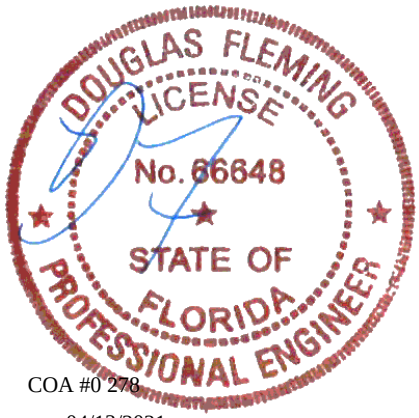
**Wind**

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

Wind loading based on both gable and hip roof types.

**Additional Notes**

The overall height of this truss excluding overhang is 6-0-14.




COA #0 278

04/13/2021

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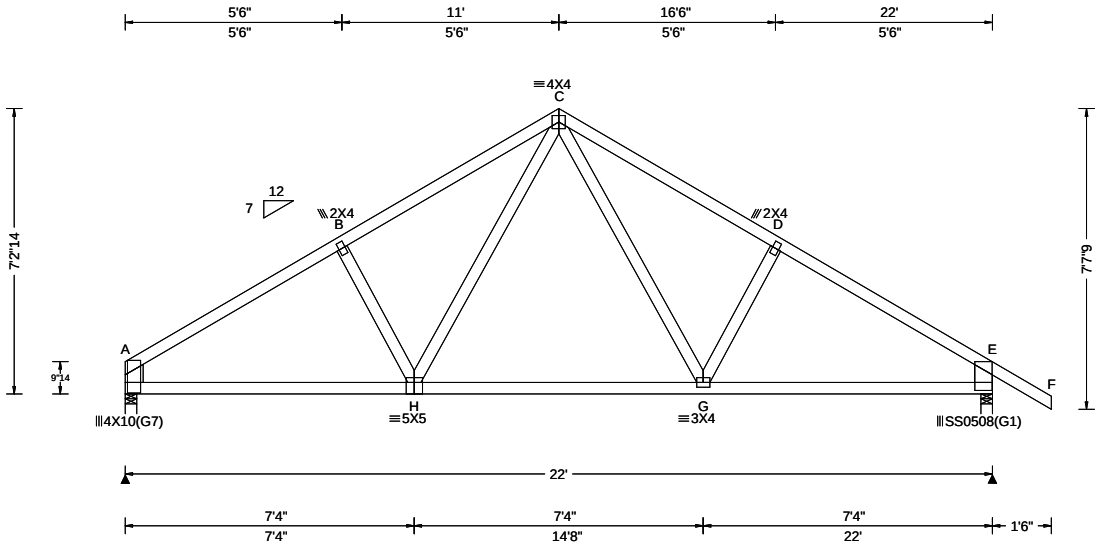
| | | | |
|---|---|---|---|
| SEQN: 619469 COMN<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** A04 | Cust: R 215 JRef:1X4J2150006 T4<br>DrwNo: 103.21.1356.01243<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): | 0.067 G | 999 | 240 |
| VERT(CL): | 0.138 G | 999 | 180 |
| HORZ(LL): | 0.034 G | - | - |
| HORZ(TL): | 0.070 G | - | - |

Creep Factor: 2.0
Max TC CSI: 0.875
Max BC CSI: 0.847
Max Web CSI: 0.152

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A | 911 | /- | /- | /521 | /149 | /193 |
| E | 1020 | /- | /- | /607 | /176 | /- |

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

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A - B | 270 | - 1307 | C - D | 308 | - 1136 |
| B - C | 312 | - 1147 | D - E | 267 | - 1296 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A - H | 1038 | - 131 | G - E | 1024 | - 127 |
| H - G | 733 | - 5 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| H - C | 399 | - 92 | C - G | 394 | - 86 |

**Lumber**

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

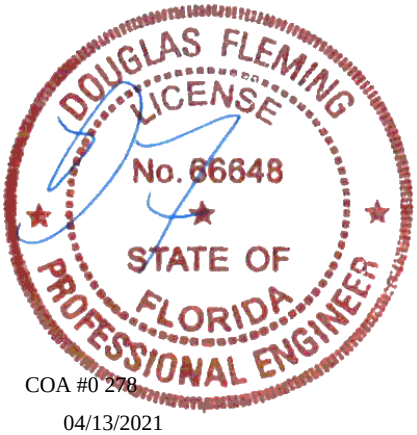
**Wind**

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 7-2-14.




COA #0 278

04/13/2021

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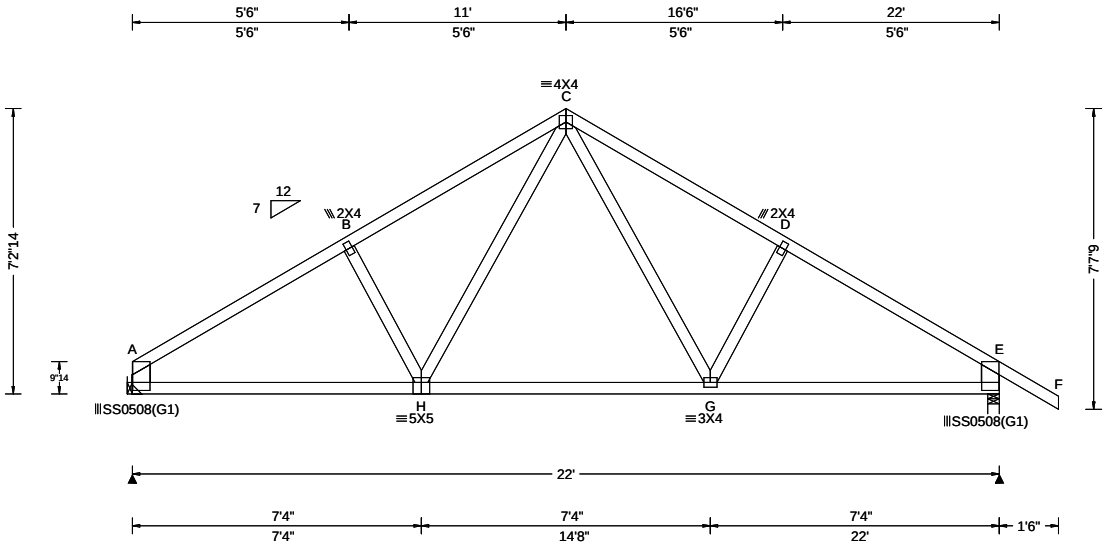
| | | | |
|---|---|---|---|
| SEQN: 619474 COMN<br>FROM: CDM | Ply: 1<br>Qty: 4 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** A05 | Cust: R 215 JRef:1X4J2150006 T25<br>DrwNo: 103.21.1356.03720<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.084 | G | 999 | 240 |
| VERT(CL): 0.162 | G | 999 | 180 |
| HORZ(LL): 0.043 | G | - | - |
| HORZ(TL): 0.082 | G | - | - |

Creep Factor: 2.0
Max TC CSI: 0.982
Max BC CSI: 0.892
Max Web CSI: 0.177

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A | 974 | /- | /- | /521 | /149 | /193 |
| E | 1082 | /- | /- | /607 | /176 | /- |

Wind reactions based on MWFRS
A Brg Width = - Min Req = -
E Brg Width = 3.5 Min Req = 1.5
Bearing E is a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A - B | 270 | - 1428 | C - D | 308 | - 1257 |
| B - C | 312 | - 1268 | D - E | 267 | - 1418 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A - H | 1139 | - 131 | G - E | 1125 | - 127 |
| H - G | 809 | - 5 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| H - C | 464 | - 92 | C - G | 446 | - 86 |

**Lumber**

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

**Hangers / Ties**

(J) Hanger Support Required, by others

**Loading**

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

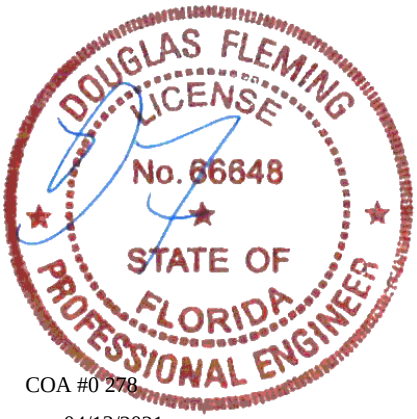
**Wind**

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 7-2-14.




COA #0 278

04/13/2021

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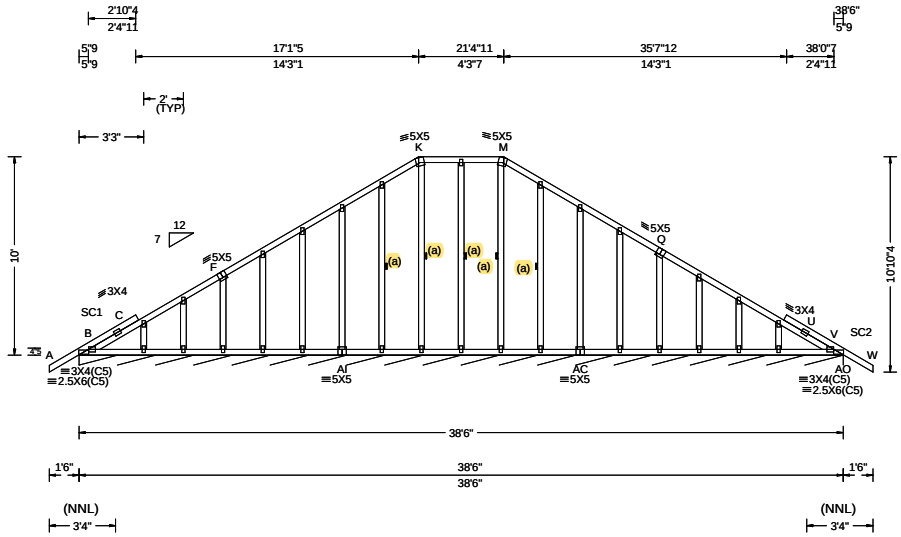
| | | | |
|---|---|---|---|
| SEQN: 619477 GABL<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** B01 | Cust: R 215 JRef:1X4J2150006 T11<br>DrwNo: 103.21.1356.13870<br>JB / DF 04/13/2021 |




| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria |
|---|---|---|---|
| TCLL: 20.00 | Wind Std: ASCE 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.001 L 999 240 |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.003 L 999 180 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): -0.000 U - - |
| Des Ld: 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.001 U - - |
| NCBCLL: 10.00 | Mean Height: 15.00 ft | Building Code: | Creep Factor: 2.0 |
| Soffit: 2.00 | TCDL: 5.0 psf | FBC 7th Ed. 2020 Res. | Max TC CSI: 0.227 |
| Load Duration: 1.25 | BCDL: 5.0 psf | TPI Std: 2014 | Max BC CSI: 0.059 |
| Spacing: 24.0 " | MWFRS Parallel Dist: 0 to h/2 | Rep Fac: Yes | Max Web CSI: 0.136 |
| | C&C Dist a: 3.85 ft | FT/RT:20(0)/10(0) | |
| | Loc. from endwall: Any | Plate Type(s): | |
| | GCpi: 0.18 | WAVE | VIEW Ver: 20.01.01A.0724.11 |
| | Wind Duration: 1.60 | | |

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| AO*88 | /- | /- | | /46 | /- | /1 |

Wind reactions based on MWFRS
AO Brg Width = 462 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

**Plating Notes**

All plates are 2X4 except as noted.

**Purlins**

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

**Wind**

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

Wind loading based on both gable and hip roof types.

Truss designed to support 8" maximum gable end overhang.

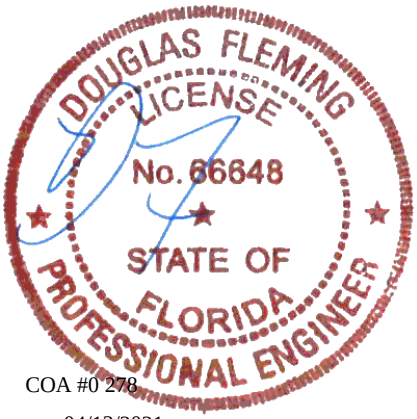
**Additional Notes**

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.

Refer to DWG PB160160118 for piggyback details.

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




COA #0 278

04/13/2021

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

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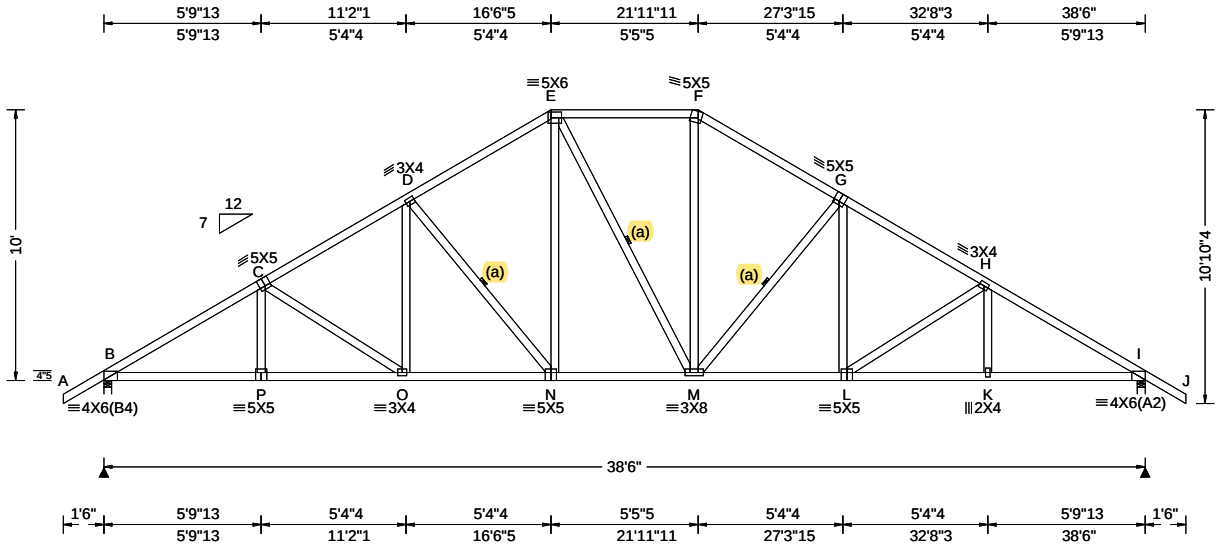
| | | | |
|---|---|---|---|
| SEQN: 619599 COMN<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** B02 | Cust: R 215 JRef:1X4J2150006 T38<br>DrwNo: 103.21.1356.17397<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.85 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.161 | N | 999 | 240 |
| VERT(CL): 0.306 | N | 999 | 180 |
| HORZ(LL): 0.075 | K | - | - |
| HORZ(TL): 0.142 | K | - | - |

Creep Factor: 2.0
Max TC CSI: 0.487
Max BC CSI: 0.751
Max Web CSI: 0.290

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| B | 1849 | /- | /- | /1026 | /294 | /306 |
| I | 1843 | /- | /- | /1026 | /294 | /- |

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 2.2
I Brg Width = 3.5 Min Req = 2.2
Bearings B & I are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 818 | - 2959 | F - G | 756 | - 2102 |
| C - D | 798 | - 2593 | G - H | 798 | - 2581 |
| D - E | 760 | - 2123 | H - I | 818 | - 2949 |
| E - F | 709 | - 1750 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - P | 2472 | - 564 | M - L | 2146 | - 416 |
| P - O | 2471 | - 566 | L - K | 2463 | - 577 |
| O - N | 2157 | - 414 | K - I | 2464 | - 575 |
| N - M | 1758 | - 246 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| O - D | 388 | - 55 | M - F | 680 | - 154 |
| D - N | 272 | - 640 | M - G | 271 | - 639 |
| E - N | 709 | - 159 | G - L | 391 | - 56 |

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

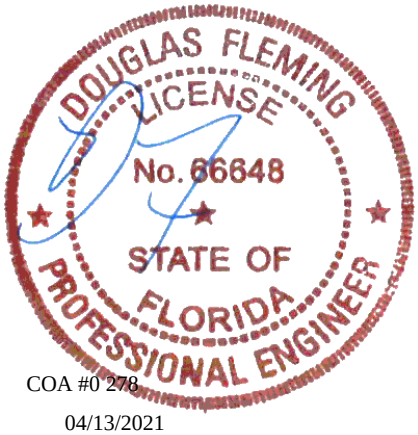
**Bracing**
(a) Continuous lateral restraint equally spaced on member.

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

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

**Wind**
Wind loads based on MWFRS with additional C&C member design.
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 #0 278

04/13/2021

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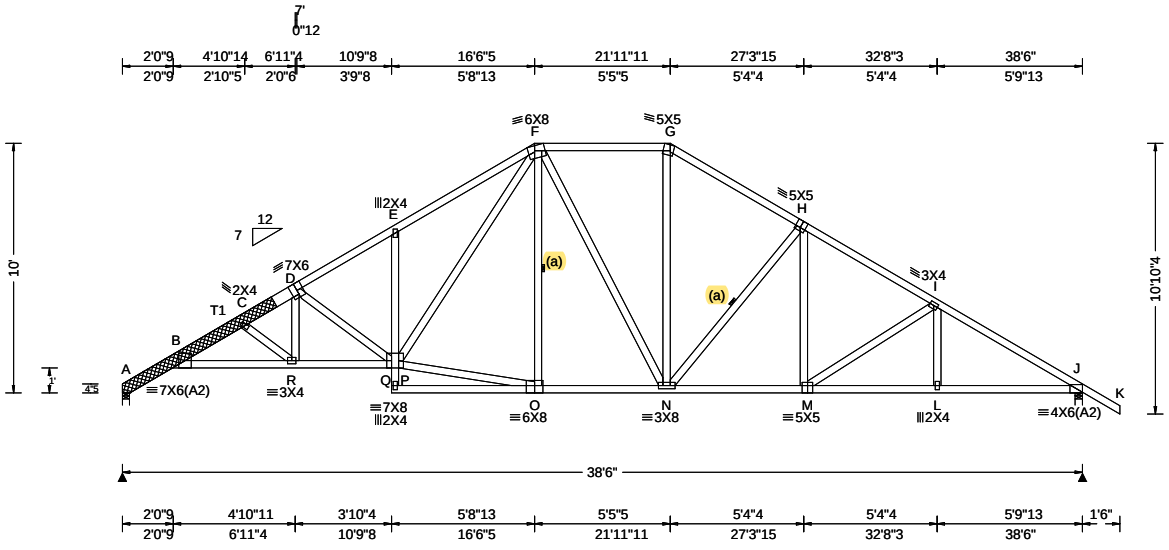
| | | | | | |
|---|---|---|---|---|---|
| SEQN: 619491 COMN<br>FROM: CDM | Ply: 1<br>Qty: 5 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** B03 | | Cust: R 215 JRef:1X4J2150006 T32<br>DrwNo: 103.21.1356.20543<br>JB / DF 04/13/2021 | |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.85 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.256 | E | 999 | 240 |
| VERT(CL): 0.493 | E | 926 | 180 |
| HORZ(LL): 0.161 | L | - | - |
| HORZ(TL): 0.309 | L | - | - |

Creep Factor: 2.0
Max TC CSI: 0.518
Max BC CSI: 0.901
Max Web CSI: 0.631

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A | 1652 | /- | /- | /908 | /188 | /289 |
| J | 1809 | /- | /- | /1027 | /194 | /- |

Wind reactions based on MWFRS
A Brg Width = 3.5 Min Req = 1.6
J Brg Width = 3.5 Min Req = 2.1
Bearings A & J are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A - B | 163 | - 823 | F - G | 285 | - 1692 |
| B - C | 416 | - 3926 | G - H | 286 | - 2035 |
| C - D | 375 | - 3538 | H - I | 305 | - 2516 |
| D - E | 326 | - 2953 | I - J | 310 | - 2885 |
| E - F | 463 | - 2959 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - R | 3787 | - 294 | N - M | 2089 | - 35 |
| R - P | 3050 | - 167 | M - L | 2408 | - 158 |
| O - N | 1686 | 0 | L - J | 2409 | - 157 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| C - R | 165 | - 943 | P - O | 1657 | 0 |
| R - D | 445 | - 34 | N - G | 656 | - 116 |
| D - P | 132 | - 687 | N - H | 216 | - 641 |
| P - F | 1446 | - 281 | H - M | 393 | - 28 |

**Lumber**

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

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

**Tray Scab(s)**

(2) 2x6x7-1-2 x SP 2400f-2.0E scabs at left end. Attach one scab to each outer face of chord with: 0.131"x3", min. nails @ 8" oc, Plus additional nail clusters at: BRG.: (4), heel: (7), 1st panel point: (3).

**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 structural panels use purlins to brace all flat TC @ 24" oc.

**Wind**

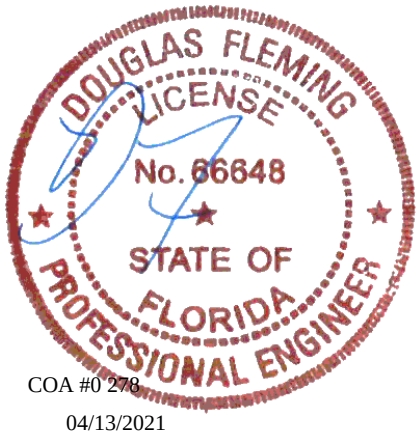
Wind loads based on MWFRS with additional C&C member design.

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 #0 278

04/13/2021

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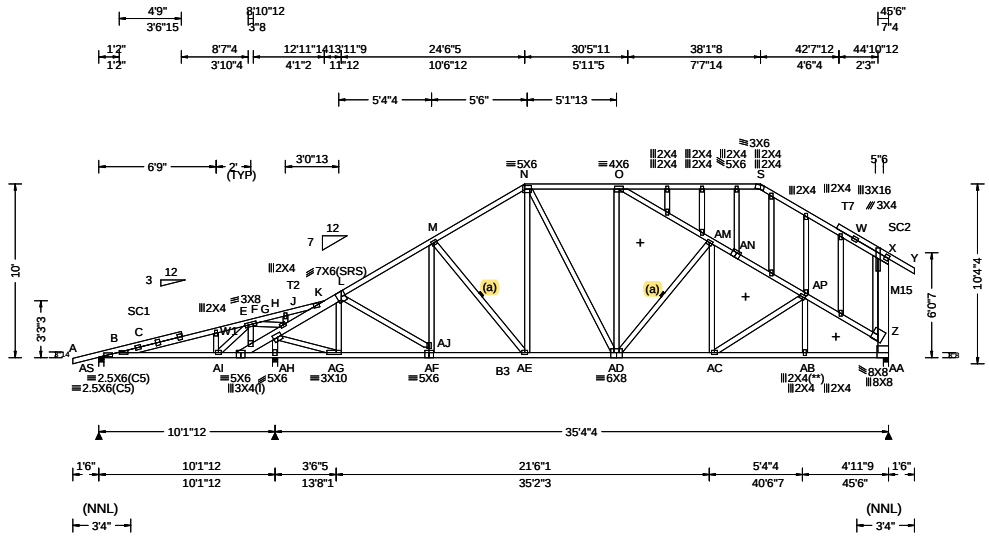
| | | | | | |
|---|---|---|---|---|---|
| SEQN: 619814 GABL | Ply: 1 | **Job Number:** 21-5244 | | Cust: R 215 JRef:1X4J2150006 T24 | |
| FROM: CDM | Qty: 1 | Albritton Res | | DrwNo: 103.21.1356.56613 | |
| Page 1 of 2 | | **Truss Label:** C01 | | JB / DF 04/13/2021 | |




**Loading Criteria** (psf)

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

**Wind Criteria**

Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.24 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.55 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

**Snow Criteria** (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.273 | S | 999 | 240 |
| VERT(CL): 0.561 | S | 756 | 180 |
| HORZ(LL): 0.223 | X | - | - |
| HORZ(TL): 0.462 | X | - | - |

Creep Factor: 2.0
Max TC CSI: 0.519
Max BC CSI: 0.789
Max Web CSI: 0.935

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| Loc | R+ | Gravity / R- | / Rh | Non-Gravity / Rw | / U | / RL |
|---|---|---|---|---|---|---|
| AS | 348 | /- | /- | /147 | /30 | /211 |
| AH | 2169 | /- | /- | /1253 | /- | /- |
| AA | 1517 | /- | /- | /791 | /- | /- |

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

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 676 | - 207 | K - L | 71 | - 1169 |
| C - F | 569 | - 87 | L - M | 65 | - 1623 |
| F - K | 954 | 0 | M - N | 67 | - 1461 |
| H - J | 0 | - 2057 | N - O | 29 | - 1241 |
| J - K | 0 | - 1902 | S - W | 394 | - 13 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B -AI | 25 | - 538 | AF-AE | 1303 | - 62 |
| AI- E | 0 | - 883 | AE-AD | 1186 | 0 |
| E -AH | 0 | - 1076 | AD-AC | 1704 | 0 |
| AH-AG | 0 | - 1025 | AC-AB | 1963 | 0 |
| AG-AF | 966 | - 161 | AB-AA | 1953 | 0 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| AI- F | 678 | 0 | O -AM | 0 | - 1880 |
| AH- H | 0 | - 2067 | AM-AC | 416 | 0 |
| H -AG | 1928 | 0 | AM-AN | 0 | - 2193 |
| L -AJ | 501 | 0 | AN-AP | 0 | - 2331 |
| AD-AM | 0 | - 743 | AP- Z | 0 | - 2524 |

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

| Gables | Tens. | Comp. | Gables | Tens. | Comp. |
|---|---|---|---|---|---|
| F - G | 0 | - 379 | AD- O | 566 | 0 |
| AG- L | 39 | - 545 | Z -AA | 55 | - 1276 |

**Lumber**

Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E;
T7 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B3 2x4 SP #2;
Webs: 2x4 SP #3; W1 2x4 SP M-31;
M15 2x8 SP 2400f-2.0E;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

**Plating Notes**

All plates are 3X4 except as noted.

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

**Loading**

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

**Purlins**

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

**Wind**

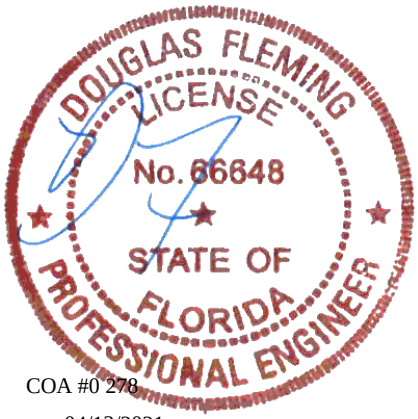
Wind loads based on MWFRS.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

+ MEMBER TO BE LATERALLY BRACED FOR HORIZONTAL WIND LOADS.

LATERALLY BRACE TOP CHORD BELOW FILLER AT 24" O.C, OR RIGID SHEATING, INCLUDING A LATERAL BRACE AT CHORD ENDS.

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04/13/2021

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**Additional Notes**

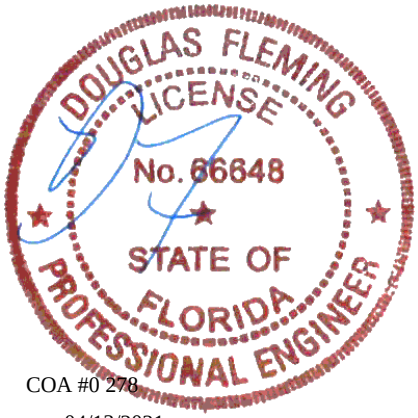
See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

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.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Refer to DWG PB160160118 for piggyback details.

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

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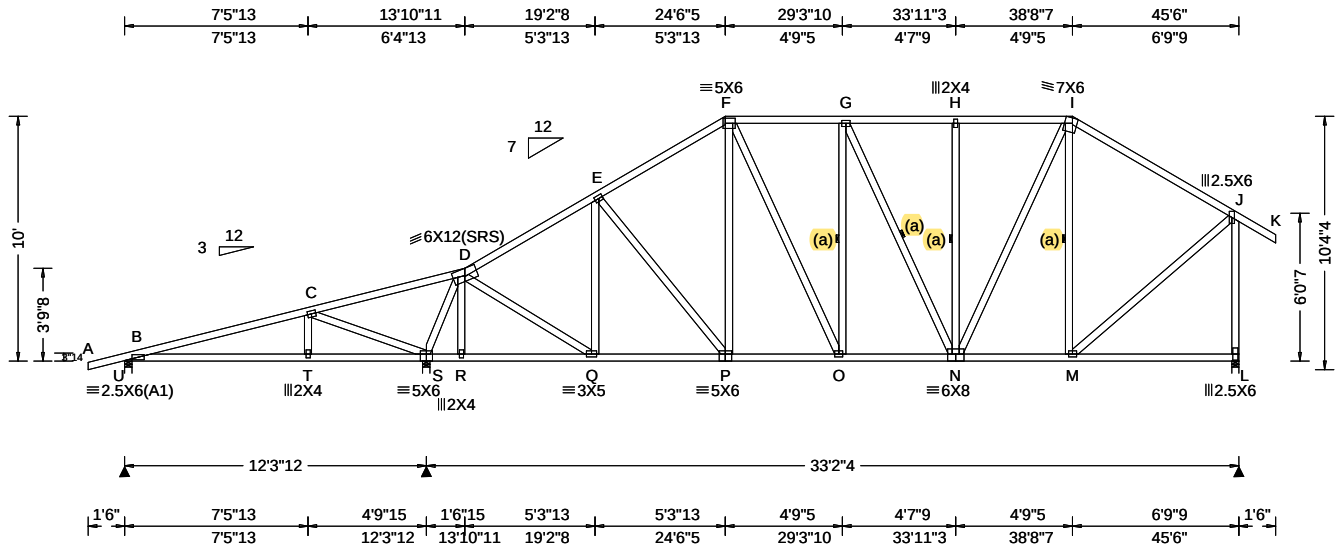
| | | | |
|---|---|---|---|
| SEQN: 619728 COMN<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** C02 | Cust: R 215 JRef:1X4J2150006 T1<br>DrwNo: 103.21.1357.01647<br>JB / DF 04/13/2021 |




| Loading Criteria (psf) | | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria |
|---|---|---|---|---|
| TCLL: | 20.00 | Wind Std: ASCE 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# |
| TCDL: | 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.045 G 999 240 |
| BCLL: | 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.093 G 999 180 |
| BCDL: | 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.016 M - - |
| Des Ld: | 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.032 M - - |
| NCBCLL: | 10.00 | Mean Height: 15.00 ft | Building Code: | Creep Factor: 2.0 |
| Soffit: | 2.00 | TCDL: 5.0 psf | FBC 7th Ed. 2020 Res. | Max TC CSI: 0.853 |
| Load Duration: | 1.25 | BCDL: 5.0 psf | TPI Std: 2014 | Max BC CSI: 0.544 |
| Spacing: | 24.0 " | MWFRS Parallel Dist: h to 2h | Rep Fac: Yes | Max Web CSI: 0.913 |
| | | C&C Dist a: 4.55 ft | FT/RT:20(0)/10(0) | |
| | | Loc. from endwall: not in 13.00 ft | Plate Type(s): | VIEW Ver: 20.01.01A.0724.11 |
| | | GCpi: 0.18 | WAVE | |
| | | Wind Duration: 1.60 | | |

**▲Maximum Reactions (lbs)**

| Loc | Gravity R+ | / R- | / Rh | Non-Gravity / Rw | / U | / RL |
|---|---|---|---|---|---|---|
| U | 457 | /- | /- | /193 | /78 | /275 |
| S | 2105 | /- | /- | /1216 | /148 | /- |
| L | 1411 | /- | /- | /795 | /121 | /- |

Wind reactions based on MWFRS
U Brg Width = 3.5 Min Req = 1.5
S Brg Width = 3.5 Min Req = 2.5
L Brg Width = 3.5 Min Req = 1.7
Bearings U, S, & L are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 98 | - 398 | F - G | 518 | - 1076 |
| C - D | 824 | - 314 | G - H | 494 | - 992 |
| D - E | 361 | - 1167 | H - I | 495 | - 992 |
| E - F | 496 | - 1224 | I - J | 389 | - 958 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| Q - P | 953 | - 302 | O - N | 1079 | - 347 |
| P - O | 979 | - 293 | N - M | 743 | - 199 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| C - S | 392 | - 1012 | N - I | 563 | - 238 |
| S - D | 521 | - 1831 | I - M | 237 | - 483 |
| D - Q | 1052 | - 272 | M - J | 971 | - 260 |
| Q - E | 209 | - 471 | J - L | 503 | - 1355 |

**Lumber**

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

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

**Plating Notes**

All plates are 3X4 except as noted.

**Purlins**

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

**Wind**

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

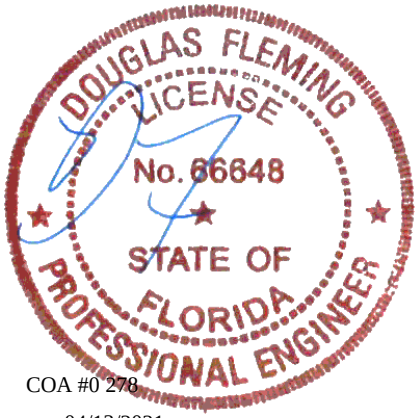
Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

**Additional Notes**

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

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




COA #0 278

04/13/2021

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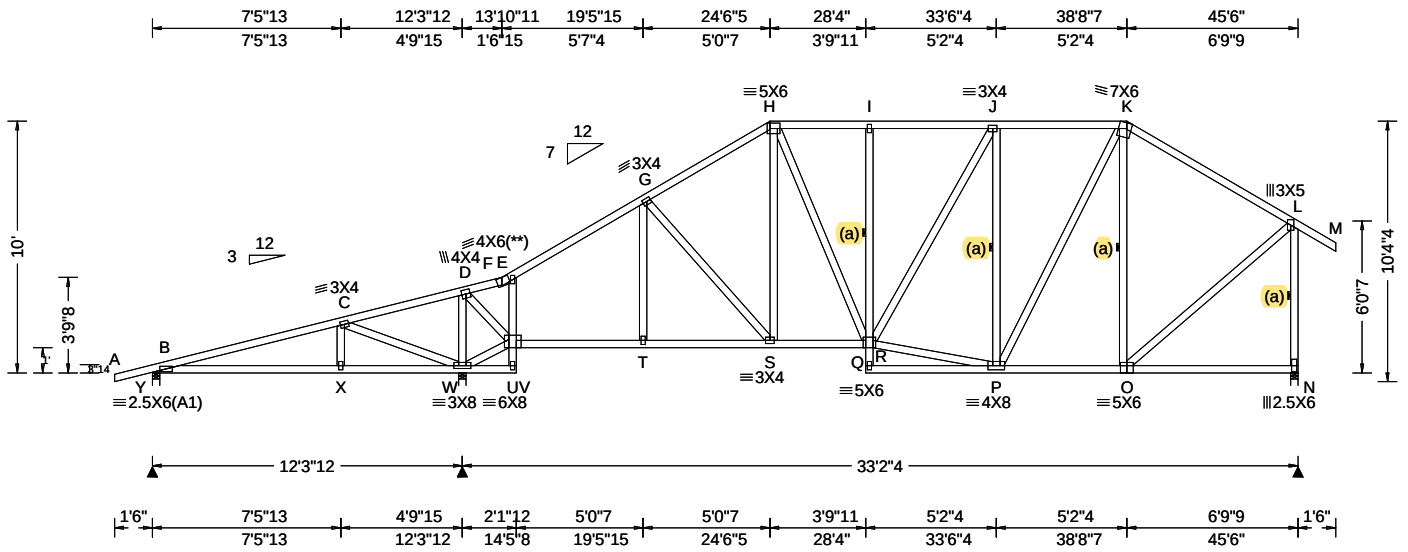
| | | | |
|---|---|---|---|
| SEQN: 619722 COMN<br>FROM: CDM | Ply: 1<br>Qty: 4 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** C03 | Cust: R 215 JRef:1X4J2150006 T19<br>DrwNo: 103.21.1357.04263<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.55 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.092 | I | 999 | 240 |
| VERT(CL): 0.173 | I | 999 | 180 |
| HORZ(LL): 0.038 | O | - | - |
| HORZ(TL): 0.074 | O | - | - |

Creep Factor: 2.0
Max TC CSI: 0.687
Max BC CSI: 0.583
Max Web CSI: 0.620

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| Y | 700 | /- | /- | /348 | /76 | /275 |
| W | 1746 | /- | /- | /1004 | /128 | /- |
| N | 1666 | /- | /- | /844 | /126 | /- |

Wind reactions based on MWFRS
Y Brg Width = 3.5 Min Req = 1.5
W Brg Width = 3.5 Min Req = 1.7
N Brg Width = 3.5 Min Req = 2.0
Bearings Y, W, & N are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 292 | - 1329 | G - H | 610 | - 1641 |
| C - D | 51 | - 447 | H - I | 622 | - 1447 |
| D - E | 414 | - 1599 | I - J | 621 | - 1445 |
| E - F | 395 | - 1512 | J - K | 537 | - 1192 |
| F - G | 560 | - 1884 | K - L | 415 | - 1116 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - X | 1249 | - 432 | T - S | 1545 | - 458 |
| X - W | 1240 | - 435 | S - Q | 1349 | - 388 |
| U - T | 1549 | - 458 | P - O | 879 | - 220 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| C - W | 332 | - 928 | Q - P | 1205 | - 352 |
| W - D | 505 | - 1590 | J - P | 369 | - 717 |
| W - U | 503 | - 161 | P - K | 662 | - 272 |
| D - U | 1589 | - 470 | K - O | 255 | - 490 |
| F - U | 273 | - 778 | O - L | 1149 | - 288 |
| Q - J | 490 | - 186 | L - N | 536 | - 1549 |

**Lumber**

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

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

**Plating Notes**

All plates are 2X4 except as noted.

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

**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 structural panels use purlins to brace all flat TC @ 24" oc.

**Wind**

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

Right end vertical not exposed to wind pressure.

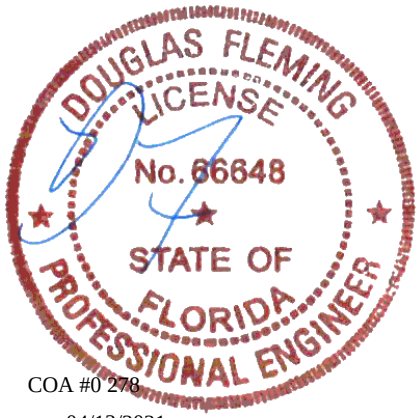
Wind loading based on both gable and hip roof types.

**Additional Notes**

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Refer to DWG PB160160118 for piggyback details.

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




COA #0 278

04/13/2021

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

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Suite 305
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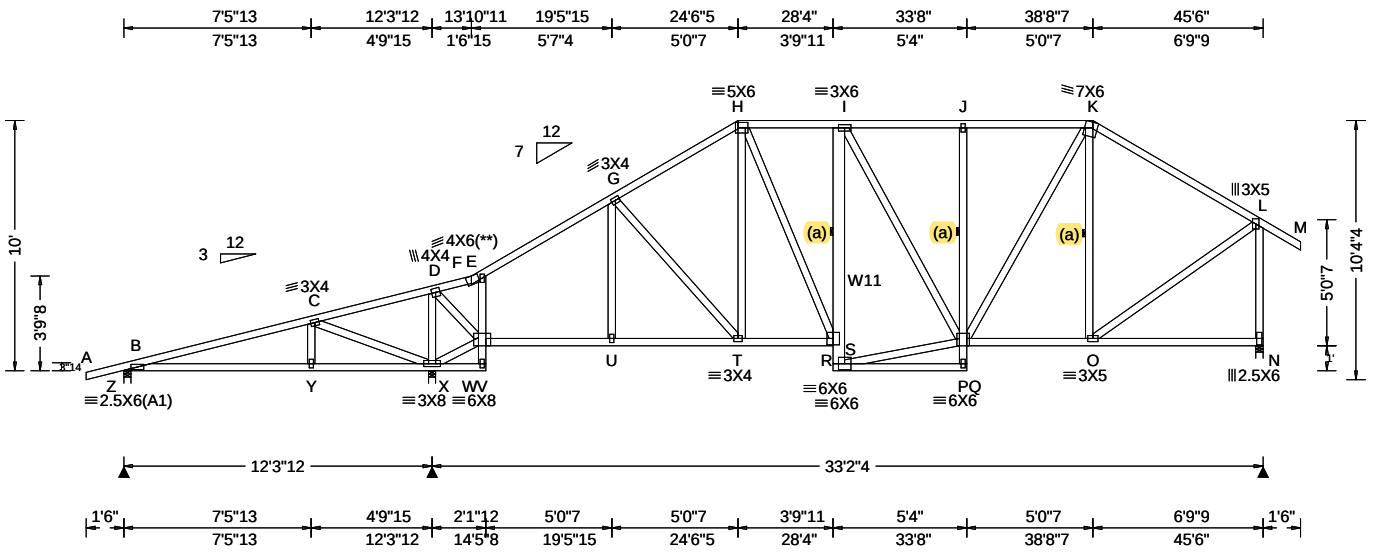
| | | | |
|---|---|---|---|
| SEQN: 619717 COMN<br>FROM: CDM | Ply: 1<br>Qty: 5 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** C04 | Cust: R 215 JRef:1X4J2150006 T23<br>DrwNo: 103.21.1402.24937<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.55 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.174 | I | 999 | 240 |
| VERT(CL): 0.338 | I | 999 | 180 |
| HORZ(LL): 0.126 | O | - | - |
| HORZ(TL): 0.247 | O | - | - |

Creep Factor: 2.0
Max TC CSI: 0.710
Max BC CSI: 0.609
Max Web CSI: 0.723

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| Z | 693 | /- | /- | /345 | /76 | /275 |
| X | 1750 | /- | /- | /1009 | /129 | /- |
| N | 1573 | /- | /- | /843 | /126 | /- |

Wind reactions based on MWFRS
Z Brg Width = 3.5 Min Req = 1.5
X Brg Width = 3.5 Min Req = 1.7
N Brg Width = 3.5 Min Req = 1.9
Bearings Z, X, & N are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 276 | -1301 | G - H | 593 | -1624 |
| C - D | 42 | -417 | H - I | 604 | -1421 |
| D - E | 395 | -1570 | I - J | 570 | -1325 |
| E - F | 376 | -1479 | J - K | 571 | -1327 |
| F - G | 540 | -1860 | K - L | 433 | -1210 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - Y | 1222 | -415 | U - T | 1521 | -440 |
| Y - X | 1214 | -417 | T - S | 1337 | -376 |
| V - U | 1524 | -441 | P - O | 962 | -238 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| C - X | 324 | -930 | R - P | 1316 | -394 |
| X - D | 490 | -1577 | P - K | 707 | -289 |
| X - V | 475 | -150 | K - O | 246 | -461 |
| D - V | 1595 | -461 | O - L | 1169 | -289 |
| F - V | 272 | -795 | L - N | 521 | -1524 |

**Lumber**
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W11 2x6 SP 2400f-2.0E;

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

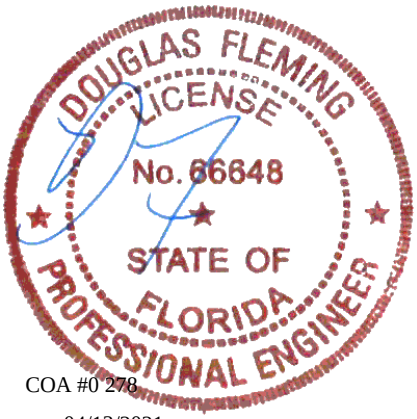
**Plating Notes**
All plates are 2X4 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

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

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

**Additional Notes**
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 10-0-0.




COA #0 278

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6750 Forum Drive
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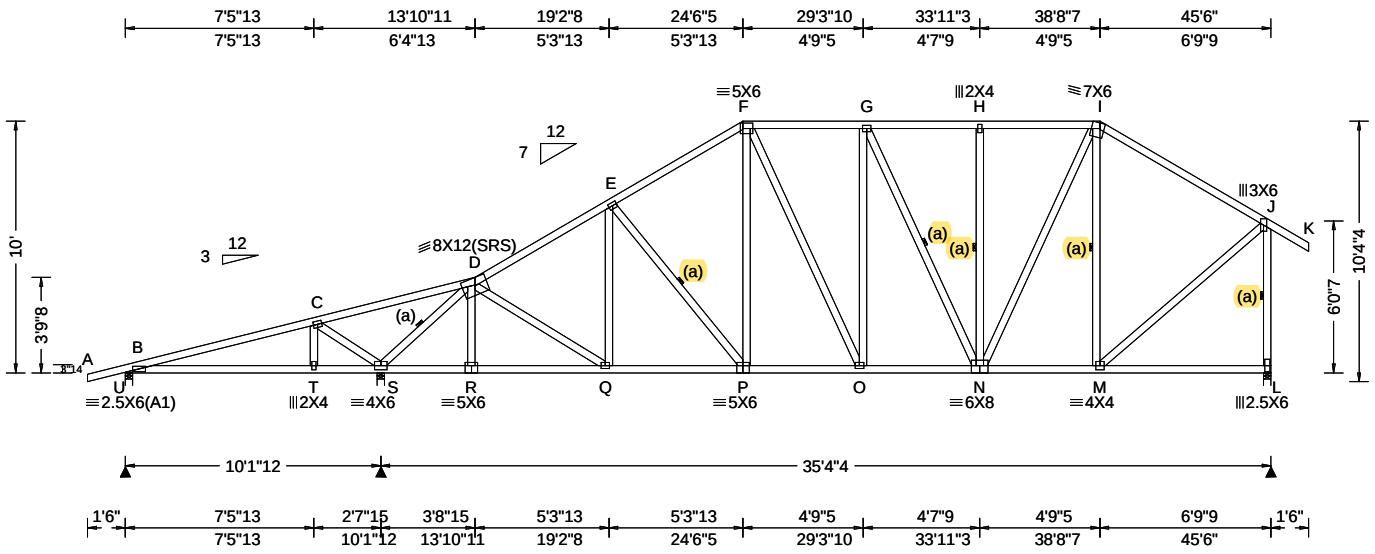
| | | | |
|---|---|---|---|
| SEQN: 619725 COMN<br>FROM: CDM | Ply: 1<br>Qty: 5 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** C05 | Cust: R 215 JRef:1X4J2150006 T15<br>DrwNo: 103.21.1402.27493<br>JB / DF 04/13/2021 |




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

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.55 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.082 | P | 999 | 240 |
| VERT(CL): 0.150 | P | 999 | 180 |
| HORZ(LL): 0.030 | M | - | - |
| HORZ(TL): 0.054 | M | - | - |

Creep Factor: 2.0
Max TC CSI: 0.934
Max BC CSI: 0.568
Max Web CSI: 0.610

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| Loc | Gravity R+ | / R- | / Rh | Non-Gravity / Rw | / U | / RL |
|---|---|---|---|---|---|---|
| U | 366 | /- | /- | /142 | /76 | /275 |
| S | 2315 | /- | /- | /1208 | /144 | /- |
| L | 1789 | /- | /- | /839 | /129 | /- |

Wind reactions based on MWFRS
U Brg Width = 3.5 Min Req = 1.5
S Brg Width = 3.5 Min Req = 2.4
L Brg Width = 3.5 Min Req = 2.1
Bearings U, S, & L are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 462 | - 230 | F - G | 570 | - 1482 |
| C - D | 953 | - 311 | G - H | 538 | - 1320 |
| D - E | 482 | - 1870 | H - I | 538 | - 1321 |
| E - F | 567 | - 1721 | I - J | 420 | - 1216 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - T | 102 | - 425 | Q - P | 1548 | - 404 |
| T - S | 98 | - 433 | P - O | 1409 | - 353 |
| S - R | 1124 | - 307 | O - N | 1480 | - 395 |
| R - Q | 1121 | - 309 | N - M | 965 | - 224 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| C - S | 322 | - 785 | N - I | 805 | - 277 |
| S - D | 664 | - 2650 | I - M | 257 | - 571 |
| D - Q | 560 | - 125 | M - J | 1261 | - 292 |
| G - N | 136 | - 381 | J - L | 542 | - 1672 |

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

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

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

**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 structural panels use purlins to brace all flat TC @ 24" oc.

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

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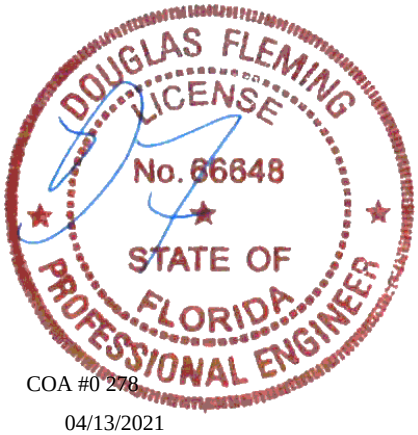
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 10-0-0.




COA #0 278

04/13/2021

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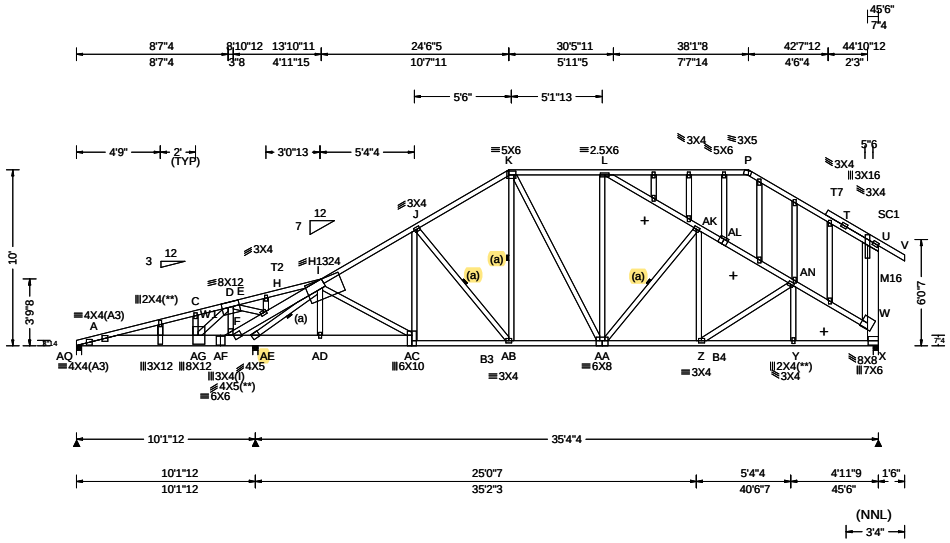
| | | | | | |
|---|---|---|---|---|---|
| SEQN: 619763 GABL | Ply: 1 | **Job Number:** 21-5244 | Cust: R 215 | JRef:1X4J2150006 | T18 |
| FROM: CDM | Qty: 1 | Albritton Res | DrwNo: 103.21.1403.01593 | | |
| Page 1 of 2 | | **Truss Label:** C06 | JB / DF | 04/13/2021 | |




| **Loading Criteria** (psf) | **Wind Criteria** | **Snow Criteria** (Pg,Pf in PSF) | **Defl/CSI Criteria** |
|---|---|---|---|
| TCLL: 20.00 | Wind Std: ASCE 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.236 P 999 240 |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.477 P 888 180 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.191 U - - |
| Des Ld: 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.388 U - - |
| NCBCLL: 10.00 | Mean Height: 16.24 ft | Building Code: | Creep Factor: 2.0 |
| Soffit: 2.00 | TCDL: 5.0 psf | FBC 7th Ed. 2020 Res. | Max TC CSI: 0.808 |
| Load Duration: 1.25 | BCDL: 5.0 psf | TPI Std: 2014 | Max BC CSI: 0.750 |
| Spacing: 24.0 " | MWFRS Parallel Dist: 0 to h/2 | Rep Fac: Varies by Ld Case | Max Web CSI: 0.737 |
| | C&C Dist a: 4.55 ft | FT/RT:20(0)/10(0) | |
| | Loc. from endwall: not in 13.00 ft | Plate Type(s): | VIEW Ver: 20.01.01A.0724.11 |
| | GCpi: 0.18 | WAVE, HS | |
| | Wind Duration: 1.60 | | |

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| AQ | 1987 | /-11 | /- | /- | /313 | /- |
| AE | 4518 | /- | /- | /- | /785 | /- |
| X | 1329 | /- | /- | /- | /249 | /- |

Wind reactions based on MWFRS
AQ Brg Width = 3.5 Min Req = 1.6
AE Brg Width = 3.5 Min Req = 3.4
X Brg Width = 3.5 Min Req = 1.5
Bearings AQ, AE, & X are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A - C | 772 | - 1358 | H - I | 1489 | - 282 |
| C - D | 772 | - 1336 | I - J | 131 | - 943 |
| D - I | 2633 | - 427 | J - K | 187 | - 994 |
| E - F | 478 | - 2506 | K - L | 159 | - 938 |
| E - H | 1213 | - 238 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A -AG | 1303 | - 739 | AC-AB | 803 | - 97 |
| AG-AF | 468 | - 2699 | AB-AA | 798 | - 131 |
| AF- F | 468 | - 2699 | AA- Z | 1390 | - 239 |
| F -AE | 645 | - 3679 | Z - Y | 1661 | - 284 |
| AE-AD | 195 | - 1327 | Y - X | 1653 | - 278 |
| AD-AC | 197 | - 1339 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| AG- D | 5046 | - 865 | L -AK | 280 | - 1481 |
| D - H | 459 | - 119 | AK- Z | 416 | 0 |
| AE- I | 627 | - 3529 | AK-AL | 293 | - 1788 |
| I -AC | 1881 | - 330 | AL-AN | 334 | - 1918 |
| J -AB | 434 | - 54 | AN- W | 354 | - 2132 |
| AA-AK | 126 | - 720 | | | |

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

| Gables | Tens. | Comp. | Gables | Tens. | Comp. |
|---|---|---|---|---|---|
| C -AG | 96 | - 394 | AC- J | 216 | - 838 |
| D - E | 584 | - 3114 | AA- L | 507 | 0 |
| I -AD | 144 | - 440 | W - X | 239 | - 1119 |

**Lumber**

Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E;
T7 2x4 SP M-31;
Bot chord: 2x8 SP 2400f-2.0E; B3 2x4 SP #2;
B4 2x4 SP M-31;
Webs: 2x4 SP #3; W1 2x4 SP M-31;
M16 2x8 SP 2400f-2.0E;
Stack Chord: SC1 2x4 SP #2;

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

**Special Loads**

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

| | | | | | |
|---|---|---|---|---|---|
| TC: From | 61 plf at | 0.00 to | 61 plf at | 13.89 | |
| TC: From | 63 plf at | 13.89 to | 63 plf at | 47.00 | |
| BC: From | 10 plf at | 0.00 to | 10 plf at | 8.17 | |
| BC: From | 20 plf at | 8.17 to | 20 plf at | 45.50 | |
| BC: From | 5 plf at | 45.50 to | 5 plf at | 47.00 | |

BC: 974 lb Conc. Load at 1.06, 3.06, 5.06, 7.06

**Plating Notes**

All plates are 2X4 except as noted.

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

**Loading**

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

+ MEMBER TO BE LATERALLY BRACED FOR HORIZONTAL WIND LOADS.

**Purlins**

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

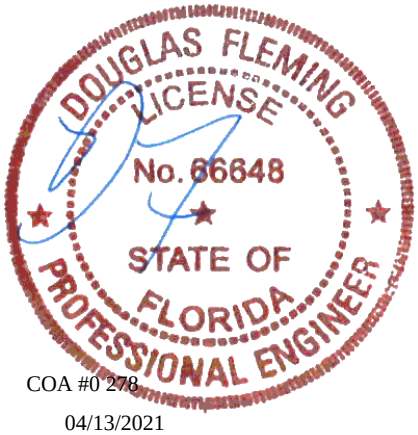
**Wind**

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.

LATERALLY BRACE TOP CHORD BELOW FILLER AT 24" O.C, OR RIGID SHEATING, INCLUDING A LATERAL BRACE AT CHORD ENDS.




COA #0 278

04/13/2021

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**Additional Notes**

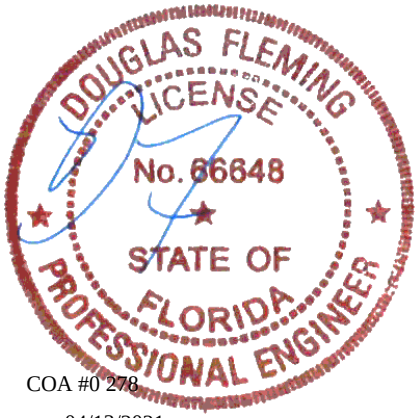
See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

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.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Refer to DWG PB160160118 for piggyback details.

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

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04/13/2021

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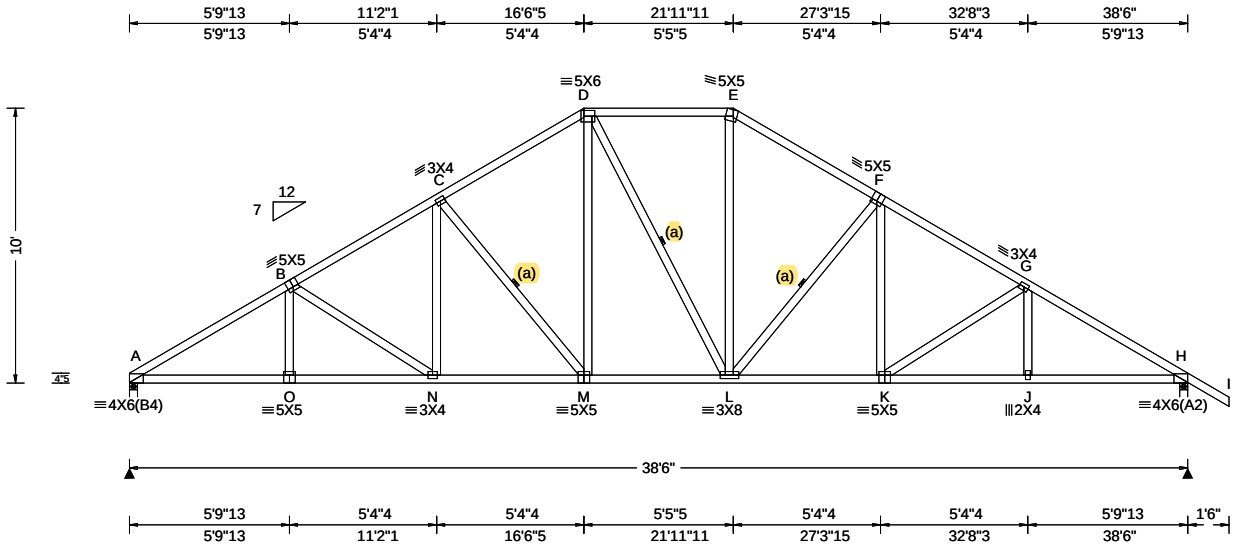
| | | | |
|---|---|---|---|
| SEQN: 619503 COMN<br>FROM: CDM | Ply: 1<br>Qty: 7 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** D01 | Cust: R 215 JRef:1X4J2150006 T12<br>DrwNo: 103.21.1403.04210<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.85 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.160 | M | 999 | 240 |
| VERT(CL): 0.305 | M | 999 | 180 |
| HORZ(LL): 0.075 | J | - | - |
| HORZ(TL): 0.142 | J | - | - |

Creep Factor: 2.0
Max TC CSI: 0.484
Max BC CSI: 0.752
Max Web CSI: 0.298

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A | 1745 | /- | /- | /939 | /267 | /289 |
| H | 1845 | /- | /- | /1026 | /294 | /- |

Wind reactions based on MWFRS
A Brg Width = 3.5 Min Req = 2.1
H Brg Width = 3.5 Min Req = 2.2
Bearings A & H are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A - B | 836 | - 2987 | E - F | 760 | - 2106 |
| B - C | 807 | - 2605 | F - G | 803 | - 2586 |
| C - D | 765 | - 2129 | G - H | 823 | - 2953 |
| D - E | 713 | - 1754 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A - O | 2501 | - 593 | L - K | 2150 | - 420 |
| O - N | 2500 | - 594 | K - J | 2467 | - 580 |
| N - M | 2166 | - 423 | J - H | 2468 | - 579 |
| M - L | 1763 | - 251 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - N | 204 | - 387 | L - E | 683 | - 156 |
| N - C | 398 | - 61 | L - F | 271 | - 639 |
| C - M | 275 | - 645 | F - K | 391 | - 56 |
| D - M | 714 | - 162 | | | |

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

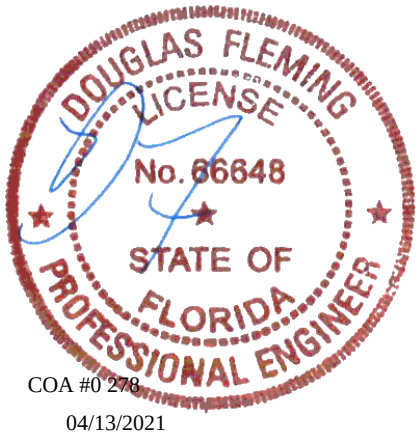
**Bracing**
(a) Continuous lateral restraint equally spaced on member.

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

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

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

04/13/2021

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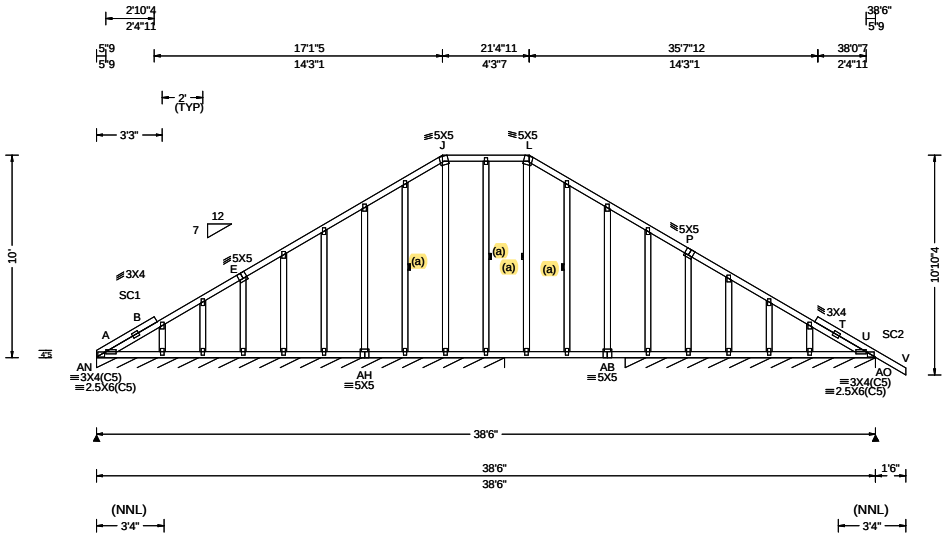
| | | | |
|---|---|---|---|
| SEQN: 619500 GABL<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** D02 | Cust: R 215 JRef:1X4J2150006 T17<br>DrwNo: 103.21.1403.06920<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.85 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.041 | AC | 999 | 240 |
| VERT(CL): 0.085 | AC | 969 | 180 |
| HORZ(LL): -0.016 | M | - | - |
| HORZ(TL): 0.033 | M | - | - |

Creep Factor: 2.0
Max TC CSI: 0.249
Max BC CSI: 0.512
Max Web CSI: 0.199

VIEW Ver: 20.01.01A.0724.11

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

| Loc | Gravity R+ | Gravity / R- | Non-Gravity / Rh | Non-Gravity / Rw | Non-Gravity / U | Non-Gravity / RL |
|---|---|---|---|---|---|---|
| AN*90 | /- | /- | | /46 | /- | /1 |
| AO*121 | /- | /- | | /66 | /- | /- |

Wind reactions based on MWFRS
AN Brg Width = 242 Min Req = -
AO Brg Width = 148 Min Req = -
Bearings AN & AB are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. |
|---|---|---|
| AB- U | 406 | -604 |

**Lumber**

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

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

**Plating Notes**

All plates are 2X4 except as noted.

**Loading**

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

**Purlins**

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

**Wind**

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

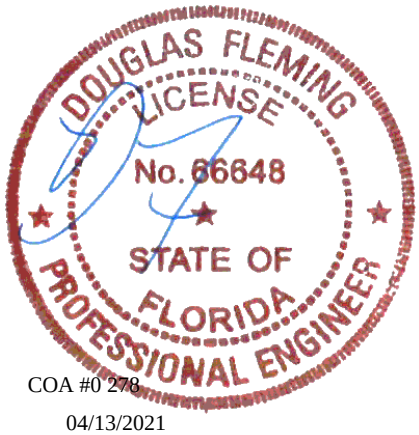
Wind loading based on both gable and hip roof types.

**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 10-0-0.




COA #0 278

04/13/2021

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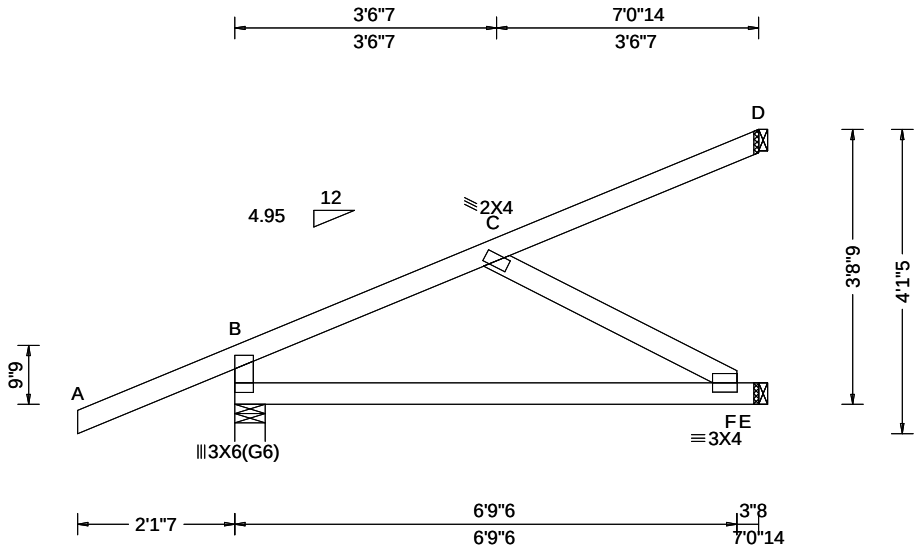
| | | | |
|---|---|---|---|
| SEQN: 619456 HIP_<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** HJ01 | Cust: R 215 JRef:1X4J2150006 T10<br>DrwNo: 103.21.1403.08500<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.010 | F | 999 | 240 |
| VERT(CL): 0.027 | F | 999 | 180 |
| HORZ(LL): 0.005 | D | - | - |
| HORZ(TL): 0.016 | C | - | - |

Creep Factor: 2.0
Max TC CSI: 0.207
Max BC CSI: 0.497
Max Web CSI: 0.192

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| B | 281 | /- | /- | /- | /111 | /- |
| E | 180 | /- | /- | /- | /46 | /- |
| D | 30 | /- | /- | /- | /13 | /- |

Wind reactions based on MWFRS
B Brg Width = 4.9 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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 | 7.07 |
| BC: From | 0 plf at | -2.12 to | 4 plf at | 0.00 |
| BC: From | 2 plf at | 0.00 to | 2 plf at | 7.07 |

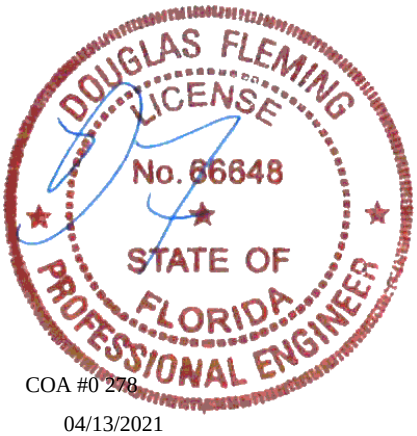
TC: -27 lb Conc. Load at 1.48
TC: 144 lb Conc. Load at 4.31
BC: 27 lb Conc. Load at 1.48
BC: 111 lb Conc. Load at 4.31

**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 3-8-9.




COA #0 278

04/13/2021

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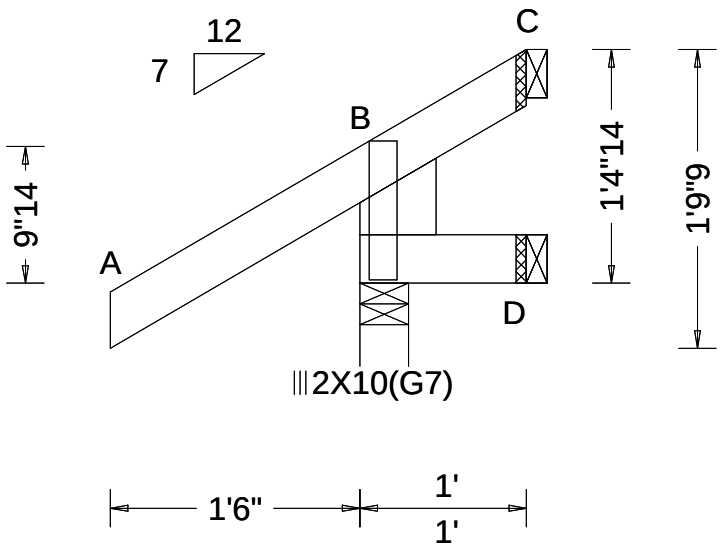
| | | | |
|---|---|---|---|
| SEQN: 619450 JACK<br>FROM: CDM | Ply: 1<br>Qty: 4 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** J01 | Cust: R 215 JRef:1X4J2150006 T8<br>DrwNo: 103.21.1403.10147<br>JB / DF 04/13/2021 |




| **Loading Criteria** (psf) | **Wind Criteria** | **Snow Criteria** (Pg,Pf in PSF) | **Defl/CSI Criteria** |
|---|---|---|---|
| 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: 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 C - -<br>HORZ(TL): 0.002 C - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.300<br>Max BC CSI: 0.035<br>Max Web CSI: 0.000<br><br>VIEW Ver: 20.01.01A.0724.11 |

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| B | 220 | /- | /- | /159 | /36 | /44 |
| D | 14 | /-4 | /- | /6 | /2 | /- |
| C | - | /-30 | /- | /23 | /33 | /- |

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Stub Wedge: 2x6 SP 2400f-2.0E;

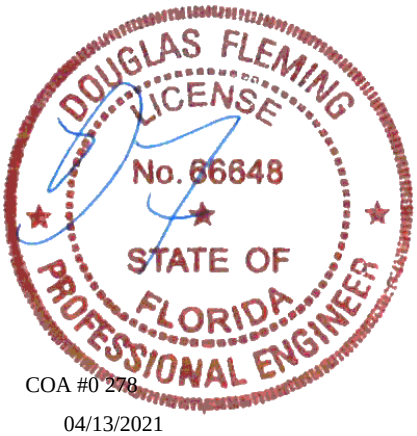
**Wind**

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 1-4-14.




COA #0 278

04/13/2021

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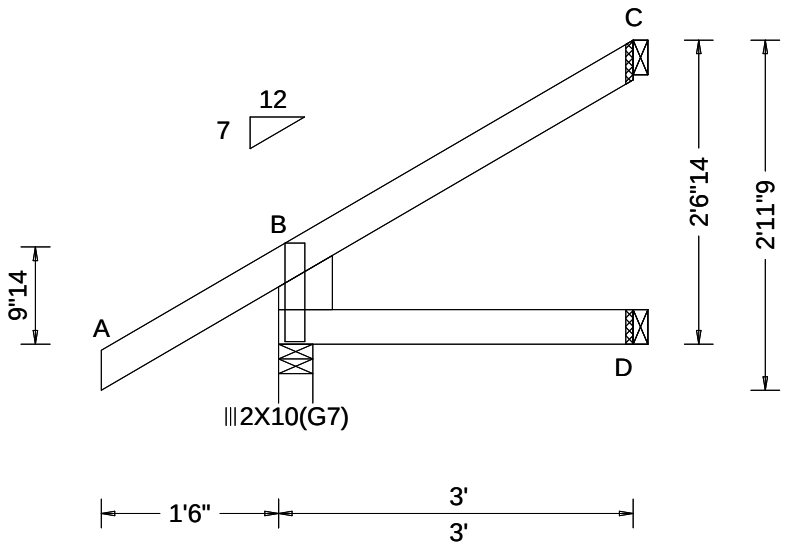
| | | | |
|---|---|---|---|
| SEQN: 619452 JACK<br>FROM: CDM | Ply: 1<br>Qty: 4 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** J02 | Cust: R 215 JRef:1X4J2150006 T7<br>DrwNo: 103.21.1403.13877<br>JB / DF 04/13/2021 |




| **Loading Criteria** (psf) | **Wind Criteria** | **Snow Criteria** (Pg,Pf in PSF) | **Defl/CSI Criteria** |
|---|---|---|---|
| TCLL: 20.00 | Wind Std: ASCE 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): NA |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): NA |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): -0.003 C - - |
| Des Ld: 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.003 C - - |
| NCBCLL: 10.00 | Mean Height: 15.00 ft | Building Code: | Creep Factor: 2.0 |
| Soffit: 2.00 | TCDL: 5.0 psf | FBC 7th Ed. 2020 Res. | Max TC CSI: 0.300 |
| Load Duration: 1.25 | BCDL: 5.0 psf | TPI Std: 2014 | Max BC CSI: 0.118 |
| Spacing: 24.0 " | MWFRS Parallel Dist: 0 to h/2 | Rep Fac: Yes | Max Web CSI: 0.000 |
| | C&C Dist a: 3.00 ft | FT/RT:20(0)/10(0) | |
| | Loc. from endwall: Any | Plate Type(s): | |
| | GCpi: 0.18 | WAVE | VIEW Ver: 20.01.01A.0724.11 |
| | Wind Duration: 1.60 | | |

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| B | 252 | /- | /- | /174 | /20 | /86 |
| D | 55 | /- | /- | /30 | /- | /- |
| C | 72 | /- | /- | /47 | /50 | /- |

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Stub Wedge: 2x6 SP 2400f-2.0E;

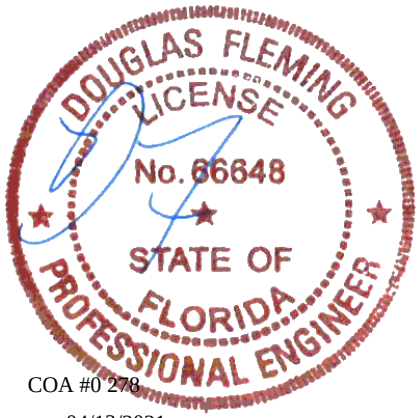
**Wind**

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 2-6-14.




COA #0 278

04/13/2021

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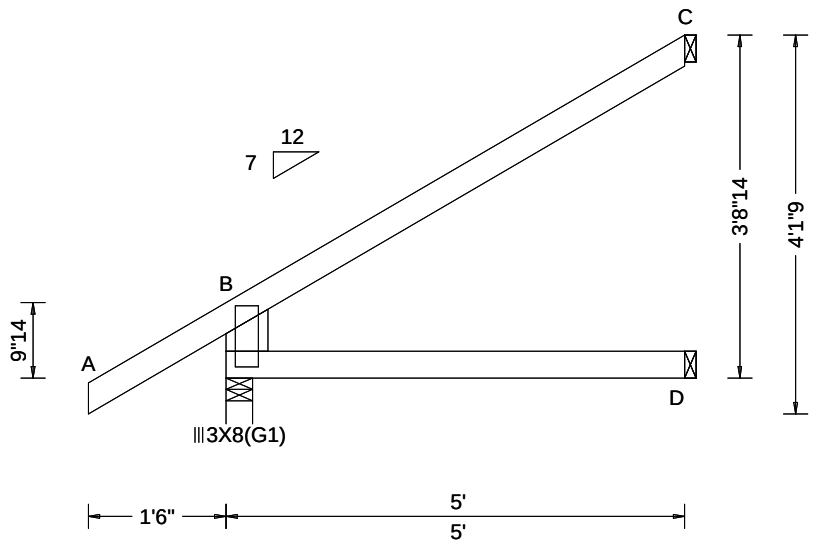
| | | | |
|---|---|---|---|
| SEQN: 619454 EJAC<br>FROM: CDM | Ply: 1<br>Qty: 7 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** J03 | Cust: R 215 JRef:1X4J2150006 T9<br>DrwNo: 103.21.1403.15397<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): | NA | | |
| VERT(CL): | NA | | |
| HORZ(LL): | 0.010 D | - | - |
| HORZ(TL): | 0.019 D | - | - |

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.294
Max Web CSI: 0.000

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| B | 325 | /- | /- | /219 | /20 | /127 |
| D | 95 | /- | /- | /54 | /- | /- |
| C | 138 | /- | /- | /91 | /82 | /- |

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Stub Wedge: 2x6 SP 2400f-2.0E;

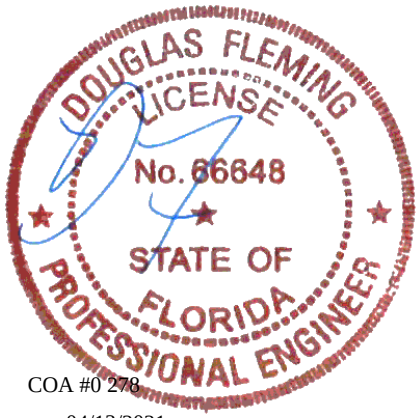
**Wind**

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 3-8-14.




COA #0 278

04/13/2021

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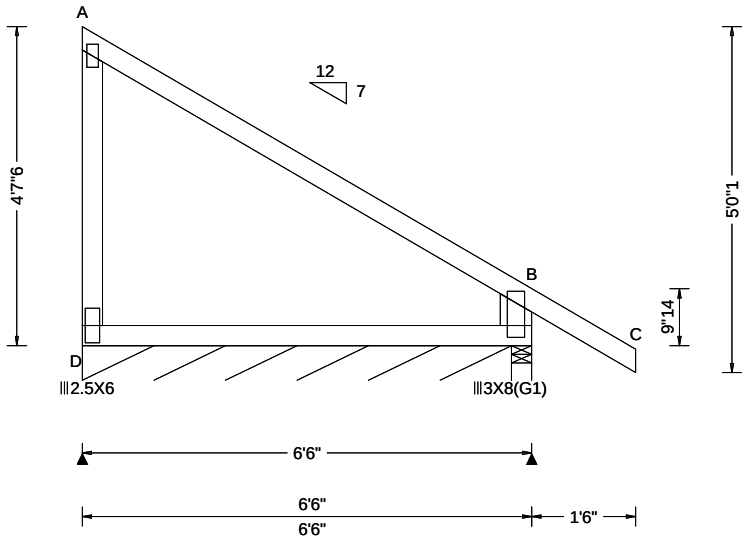
| | | | |
|---|---|---|---|
| SEQN: 619584 MONO<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** J04 | Cust: R 215 JRef:1X4J2150006 T16<br>DrwNo: 103.21.1403.16913<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.001 | A | 999 | 240 |
| VERT(CL): 0.001 | A | 999 | 180 |
| HORZ(LL): -0.025 | A | - | - |
| HORZ(TL): 0.050 | A | - | - |

Creep Factor: 2.0
Max TC CSI: 0.775
Max BC CSI: 0.523
Max Web CSI: 0.081

VIEW Ver: 20.01.01A.0724.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| D* | 42 | /- | /- | /32 | /15 | /26 |
| B | 384 | /- | /- | /224 | /32 | /- |

Wind reactions based on MWFRS
D Brg Width = 74.5 Min Req = -
B Brg Width = 3.5 Min Req = 1.5
Bearings D & B are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. |
|---|---|---|
| D - B | 393 | -61 |

**Lumber**

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

**Plating Notes**

All plates are 2X4 except as noted.

**Wind**

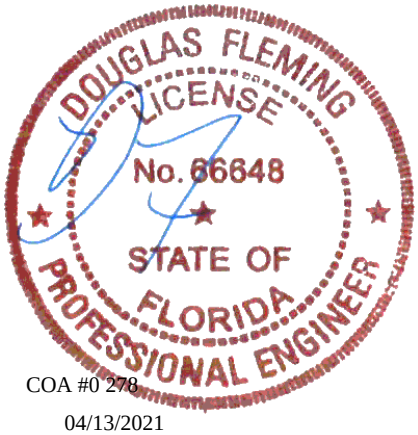
Wind loads based on MWFRS with additional C&C member design.

Left 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 4-7-6.




COA #0 278

04/13/2021

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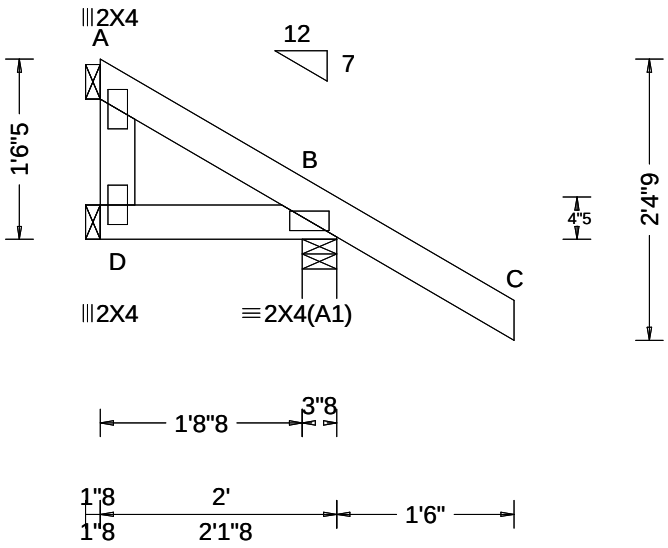
| | | | |
|---|---|---|---|
| SEQN: 619553 MONO<br>FROM: CDM | Ply: 1<br>Qty: 5 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** J05 | Cust: R 215 JRef:1X4J2150006 T14<br>DrwNo: 103.21.1403.19657<br>JB / DF 04/13/2021 |




| **Loading Criteria** (psf) | **Wind Criteria** | **Snow Criteria** (Pg,Pf in PSF) | **Defl/CSI Criteria** |
|---|---|---|---|
| TCLL: 20.00 | Wind Std: ASCE 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): -0.000 D 999 240 |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): -0.001 D 999 180 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.000 D - - |
| Des Ld: 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.001 D - - |
| NCBCLL: 10.00 | Mean Height: 15.00 ft | Building Code: | Creep Factor: 2.0 |
| Soffit: 2.00 | TCDL: 5.0 psf | FBC 7th Ed. 2020 Res. | Max TC CSI: 0.300 |
| Load Duration: 1.25 | BCDL: 5.0 psf | TPI Std: 2014 | Max BC CSI: 0.048 |
| Spacing: 24.0 " | MWFRS Parallel Dist: 0 to h/2 | Rep Fac: Yes | Max Web CSI: 0.006 |
| | C&C Dist a: 3.00 ft | FT/RT:20(0)/10(0) | |
| | Loc. from endwall: Any | Plate Type(s): | |
| | GCpi: 0.18 | WAVE | VIEW Ver: 20.01.01A.0724.11 |
| | Wind Duration: 1.60 | | |

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| D | 29 | /- | /- | /13 | /- | /71 |
| A | 22 | /- | /- | /18 | /16 | /- |
| B | 240 | /- | /- | /137 | /55 | /- |

Wind reactions based on MWFRS
D Brg Width = 1.5 Min Req = -
A Brg Width = 1.5 Min Req = -
B Brg Width = 3.5 Min Req = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Wind**

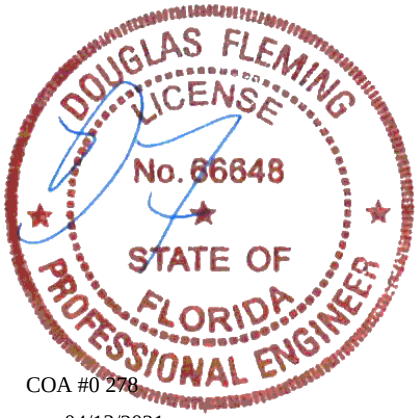
Wind loads based on MWFRS with additional C&C member design.

Left 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 1-6-5.




COA #0 278

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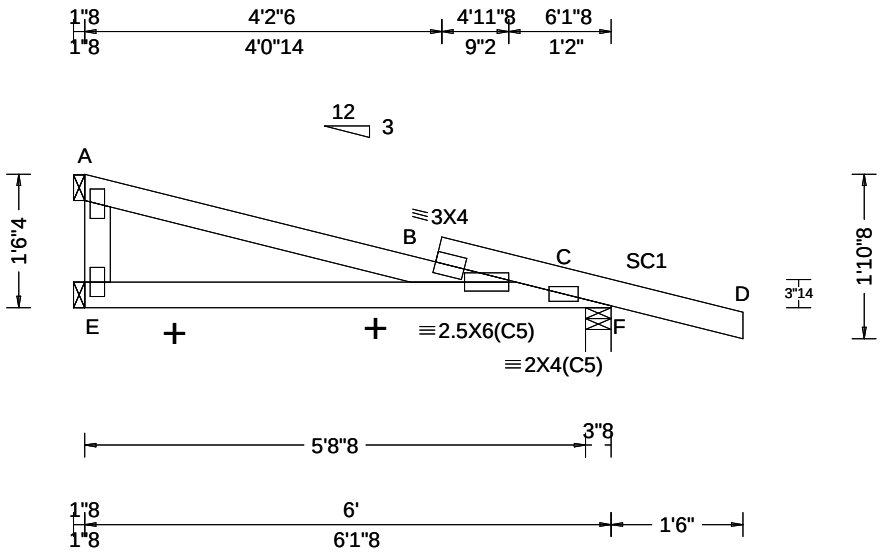
| | | | |
|---|---|---|---|
| SEQN: 619750 GABL<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** J06 | Cust: R 215 JRef:1X4J2150006 T5<br>DrwNo: 103.21.1403.42153<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.050 | B | 999 | 240 |
| VERT(CL): 0.097 | B | 721 | 180 |
| HORZ(LL): 0.007 | A | - | - |
| HORZ(TL): 0.014 | A | - | - |

Creep Factor: 2.0
Max TC CSI: 0.420
Max BC CSI: 0.319
Max Web CSI: 0.114

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| E | 107 | /- | /- | /59 | /- | /18 |
| A | 137 | /- | /- | /53 | /- | /- |
| F | 369 | /- | /- | /200 | /5 | /- |

Wind reactions based on MWFRS
E Brg Width = 1.5 Min Req = -
A Brg Width = 1.5 Min Req = -
F Brg Width = 3.5 Min Req = 1.5
Bearing F is a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. |
|---|---|---|
| B - C | 356 | -396 |

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

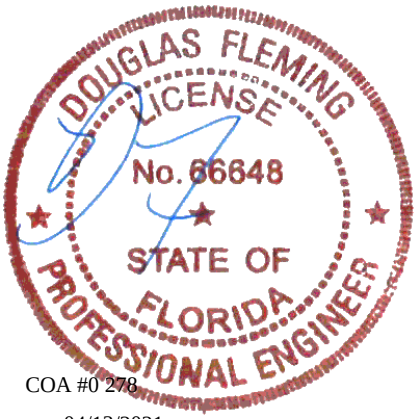
+ MEMBER TO BE LATERALLY BRACED FOR HORIZONTAL WIND LOADS.

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

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

**Wind**
Wind loads based on MWFRS with additional C&C member design.
Left 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.
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 1-6-4.




COA #0 278

04/13/2021

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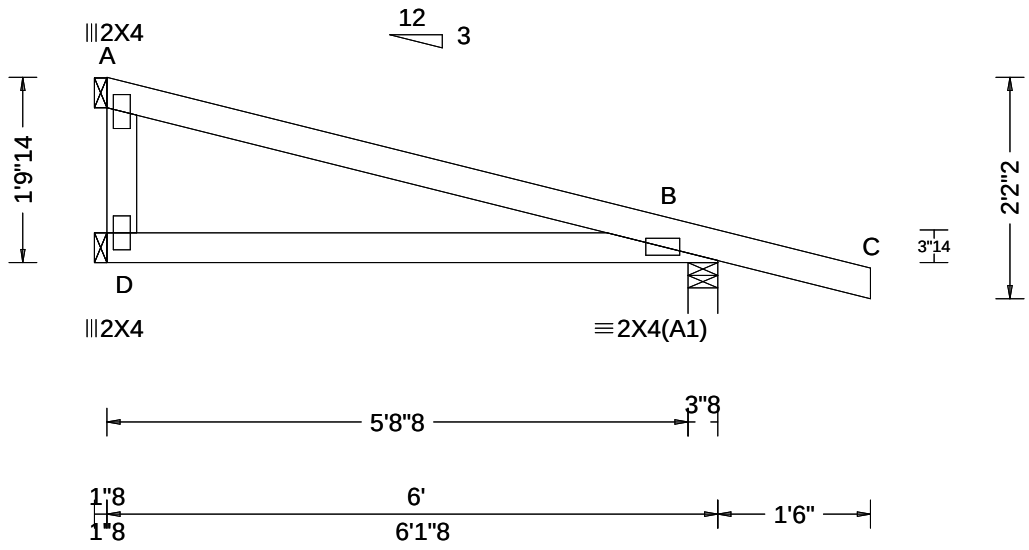
| | | | |
|---|---|---|---|
| SEQN: 619572 MONO<br>FROM: CDM | Ply: 1<br>Qty: 15 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** J07 | Cust: R 215 JRef:1X4J2150006 T21<br>DrwNo: 103.21.1403.48243<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.027 | D | 999 | 240 |
| VERT(CL): 0.052 | D | 999 | 180 |
| HORZ(LL): -0.008 | D | - | - |
| HORZ(TL): 0.016 | D | - | - |

Creep Factor: 2.0
Max TC CSI: 0.527
Max BC CSI: 0.320
Max Web CSI: 0.193

VIEW Ver: 20.01.01A.0724.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| D | 110 | /- | /- | /60 | /- | /64 |
| A | 148 | /- | /- | /58 | /61 | /- |
| B | 360 | /- | /- | /198 | /90 | /- |

Wind reactions based on MWFRS
D Brg Width = 1.5 Min Req = -
A Brg Width = 1.5 Min Req = -
B Brg Width = 3.5 Min Req = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Wind**

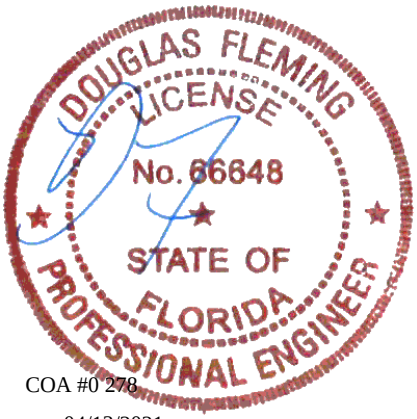
Wind loads based on MWFRS with additional C&C member design.

Left 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 1-9-14.




COA #0 278

04/13/2021

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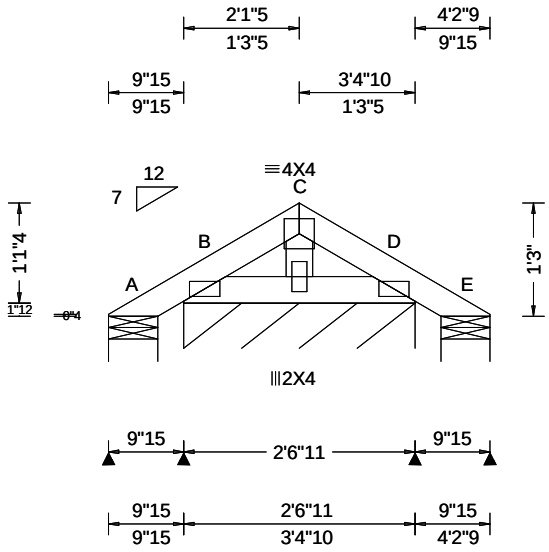
| | | | |
|---|---|---|---|
| SEQN: 619549 GABL<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** PB01 | Cust: R 215 JRef:1X4J2150006 T20<br>DrwNo: 103.21.1404.04693<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

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

Creep Factor: 2.0
Max TC CSI: 0.014
Max BC CSI: 0.009
Max Web CSI: 0.008

VIEW Ver: 20.01.01A.0724.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A | 19 | /- | /- | /24 | /10 | /29 |
| B* | 82 | /- | /- | /60 | /23 | /- |
| E | 19 | /- | /- | /18 | /8 | /- |

Wind reactions based on MWFRS
A Brg Width = 6.5 Min Req = 1.5
B Brg Width = 30.7 Min Req = -
E Brg Width = 6.5 Min Req = 1.5
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Wind**

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

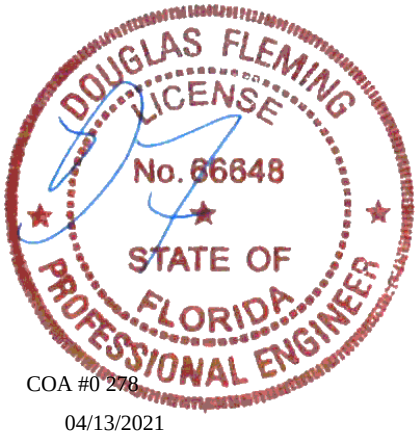
Wind loading based on both gable and hip roof types.

**Additional Notes**

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 11-3-0.

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04/13/2021

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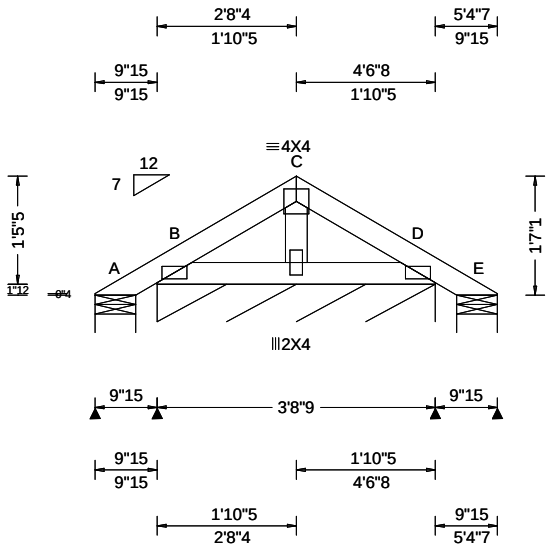
| | | | |
|---|---|---|---|
| SEQN: 619547 GABL<br>FROM: CDM | Ply: 1<br>Qty: 14 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** PB02 | Cust: R 215 JRef:1X4J2150006 T31<br>DrwNo: 103.21.1404.06480<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

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

Creep Factor: 2.0
Max TC CSI: 0.036
Max BC CSI: 0.018
Max Web CSI: 0.011

VIEW Ver: 20.01.01A.0724.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A | 12 | /- | /- | /27 | /17 | /38 |
| B* | 82 | /- | /- | /58 | /24 | /- |
| E | 12 | /- | /- | /11 | /3 | /- |

Wind reactions based on MWFRS
A Brg Width = 6.5 Min Req = 1.5
B Brg Width = 44.6 Min Req = -
E Brg Width = 6.5 Min Req = 1.5
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Wind**

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

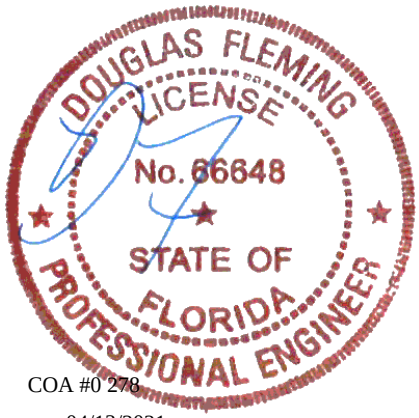
Wind loading based on both gable and hip roof types.

**Additional Notes**

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 11-7-1.

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04/13/2021

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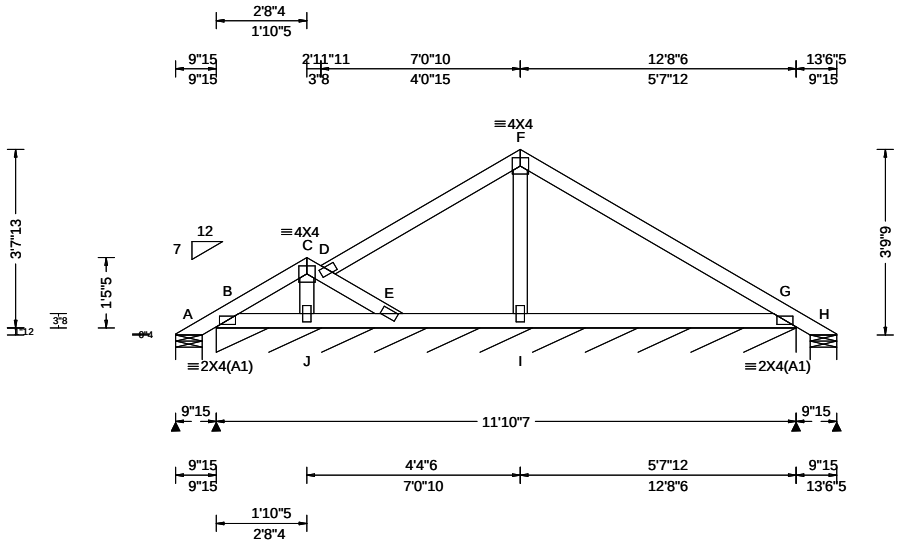
| | | | |
|---|---|---|---|
| SEQN: 619820 GABL<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** PB03 | Cust: R 215 JRef:1X4J2150006 T22<br>DrwNo: 103.21.1404.08983<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.24 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.73 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.003 | I | 999 | 240 |
| VERT(CL): 0.007 | I | 999 | 180 |
| HORZ(LL): -0.003 | I | - | - |
| HORZ(TL): 0.006 | I | - | - |

Creep Factor: 2.0
Max TC CSI: 0.364
Max BC CSI: 0.097
Max Web CSI: 0.069

VIEW Ver: 20.01.01A.0724.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A | 13 | /- | /- | /10 | /51 | /105 |
| B* | 90 | /- | /- | /57 | /31 | /- |
| H | - | /-202 | /- | /113 | /107 | /- |
| G | | /-207 | | | | |

Wind reactions based on MWFRS
A Brg Width = 6.5 Min Req = 1.5
B Brg Width = 142 Min Req = -
H Brg Width = 6.5 Min Req = 1.5
Bearings A, B, & H are a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Plating Notes**

All plates are 2X4 except as noted.

**Wind**

Wind loads based on MWFRS.

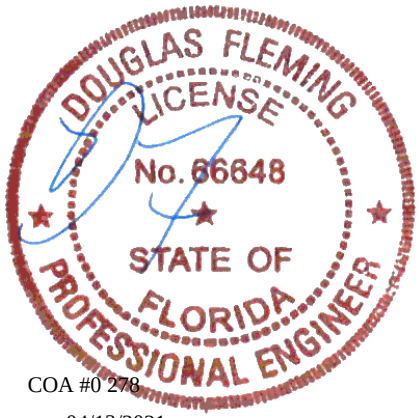
Wind loading based on both gable and hip roof types.

**Additional Notes**

Negative reaction(s) of -202# 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 13-9-9.

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04/13/2021

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6750 Forum Drive
Suite 305
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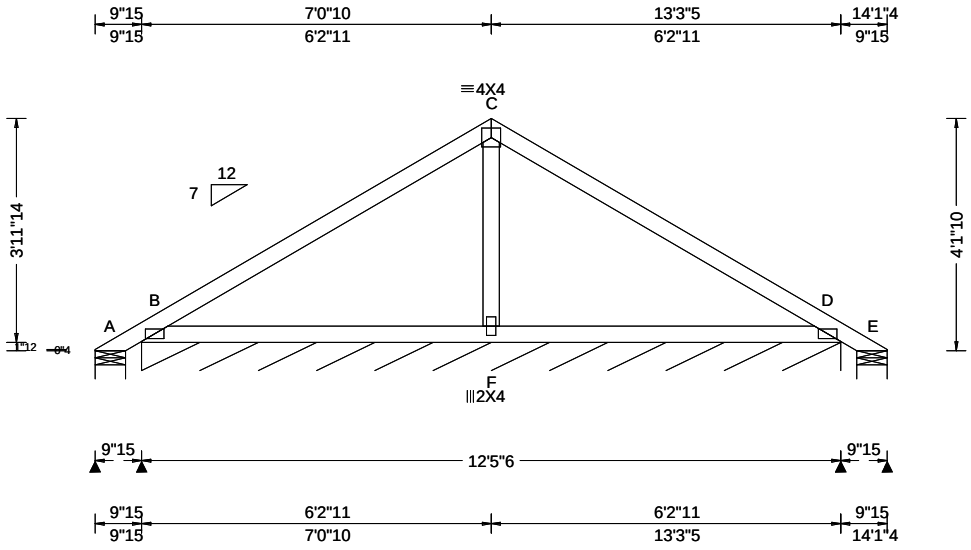
| | | | |
|---|---|---|---|
| SEQN: 619719 COMN<br>FROM: CDM | Ply: 1<br>Qty: 15 | **Job Number:** 21-5244<br>Albritton Res<br>**Truss Label:** PB04 | Cust: R 215 JRef:1X4J2150006 T30<br>DrwNo: 103.21.1404.15760<br>JB / DF 04/13/2021 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 21.17 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.002 | F | 999 | 240 |
| VERT(CL): 0.004 | F | 999 | 180 |
| HORZ(LL): -0.001 | F | - | - |
| HORZ(TL): 0.002 | F | - | - |

Creep Factor: 2.0
Max TC CSI: 0.087
Max BC CSI: 0.175
Max Web CSI: 0.006

VIEW Ver: 20.01.01A.0724.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A | 15 | /- | /- | /8 | /- | /- |
| B* | 11 | /- | /- | /9 | /- | /- |
| E | - | /-56 | /- | /- | /35 | /- |

Wind reactions based on MWFRS
A Brg Width = 6.5 Min Req = 1.5
B Brg Width = 149 Min Req = -
E Brg Width = 6.5 Min Req = 1.5
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Plating Notes**

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

**Wind**

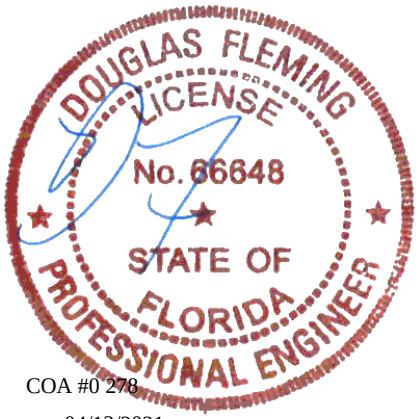
Wind loads based on MWFRS with additional C&C member design.

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 4-1-10.




COA #0 278

04/13/2021

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

### Bracing Group Species and Grades:

**Group A:**

| Spruce-Pine-Fir | |
|---|---|
| #1 / #2 | Standard |
| #3 | Stud |

| Hem-Fir | |
|---|---|
| #2 | Stud |
| #3 | Standard |

| Douglas Fir-Larch |
|---|
| #3 |
| Stud |
| Standard |

| Southern Pine*** |
|---|
| #3 |
| Stud |
| Standard |

**Group B:**

| Hem-Fir |
|---|
| #1 & Btr |
| #1 |

| Douglas Fir-Larch |
|---|
| #1 |
| #2 |

| Southern Pine*** |
|---|
| #1 |
| #2 |

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

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

### Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

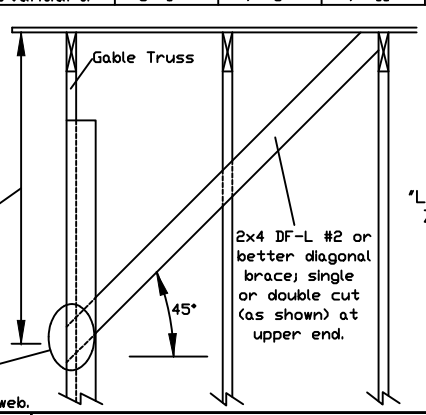
Attach "L" braces with 10d (0.128"x3.0" min) nails.

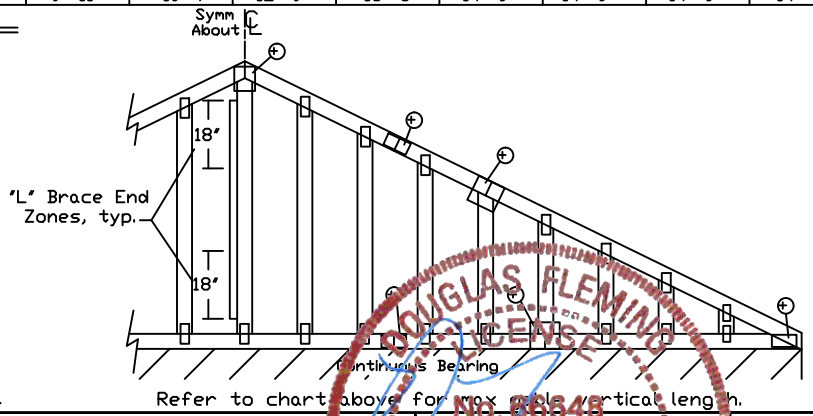
* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** 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.

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'.




Refer to chart above for max gable vertical length.

### Gable Vertical Plate Sizes

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

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

Refer to the Building Designer for conditions not addressed by this detail.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Suite 242
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FLORIDA LICENSE
No. 66548
STATE OF FLORIDA
PROFESSIONAL ENGINEER
04/13/2021
COA #0 278

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

| | |
|---|---|
| REF | ASCE7-16-GAB14015 |
| DATE | 01/26/2018 |
| DRWG | A14015ENC160118 |

# CLR Reinforcing Member Substitution

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

## Notes:

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

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

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

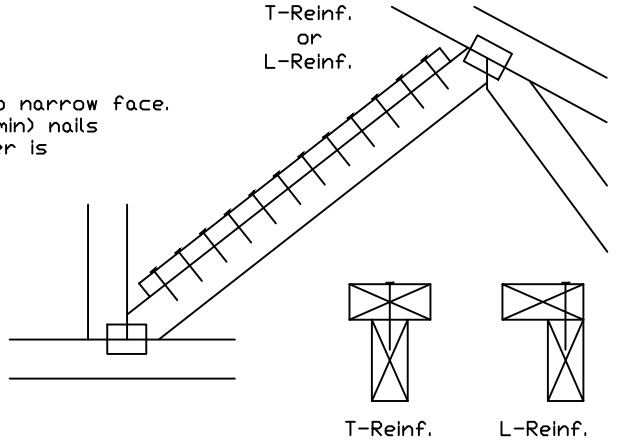
| Web Member Size | Specified CLR Restraint | Alternative Reinforecement T- or L- Reinf. | Scab Reinf. |
|---|---|---|---|
| 2x3 or 2x4 | 1 row | 2x4 | 1-2x4 |
| 2x3 or 2x4 | 2 rows | 2x6 | 2-2x4 |
| 2x6 | 1 row | 2x4 | 1-2x6 |
| 2x6 | 2 rows | 2x6 | 2-2x4(*) |
| 2x8 | 1 row | 2x6 | 1-2x8 |
| 2x8 | 2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

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

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

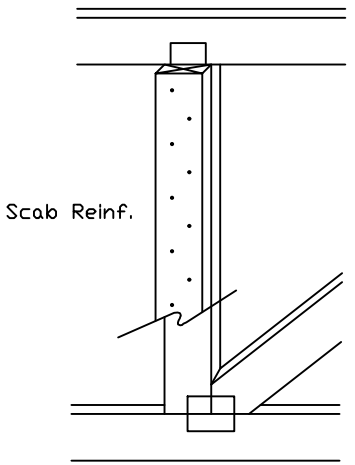
## T-Reinforcement or L-Reinforcement:

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




## Scab Reinforcement:

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

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04/13/2021

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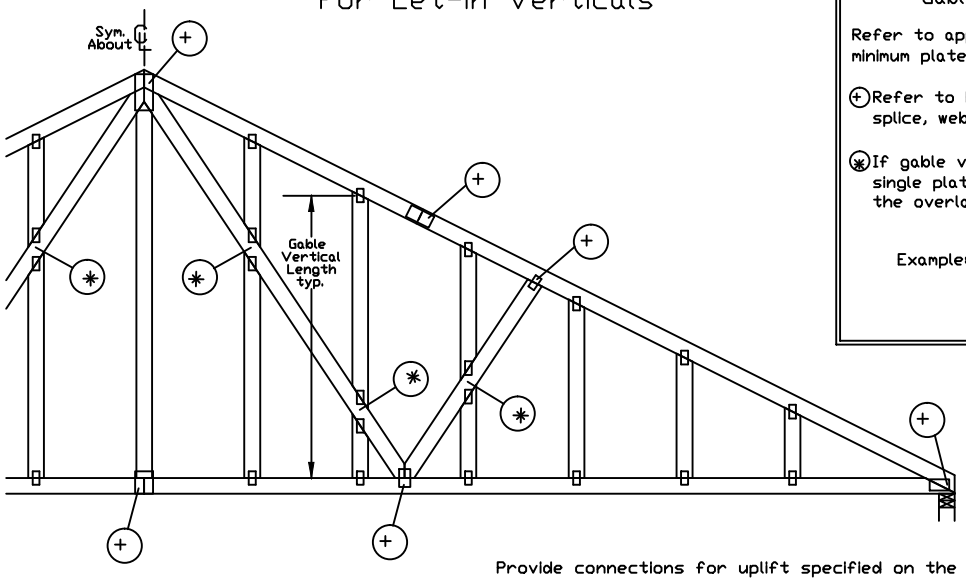
| | | |
|---|---|---|
| TC LL | | PSF |
| TC DL | | PSF |
| BC DL | | PSF |
| BC LL | | PSF |
| TOT. LD. | | PSF |
| DUR. FAC. | | |
| SPACING | | |

| | |
|---|---|
| REF | CLR Subst. |
| DATE | 01/02/19 |
| DRWG | BRCLBSUB0119 |

# Gable Detail
## For Let-in Verticals



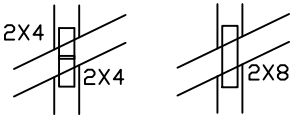

### Gable Truss Plate Sizes

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

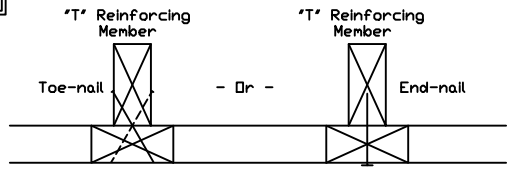
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

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

Example:




### "T" Reinforcement Attachment Detail




Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

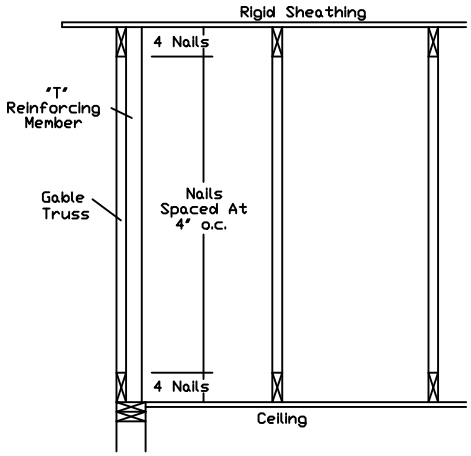
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

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

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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




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"


ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045


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

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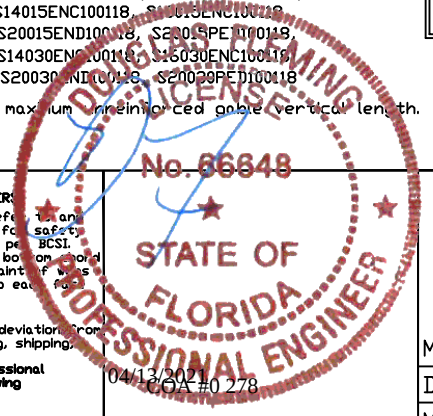
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org




04/13/2021
COA #0 278

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

| | |
|---|---|
| REF | LET-IN VERT |
| DATE | 01/02/2018 |
| DRWG | GBLLETIN0118 |

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

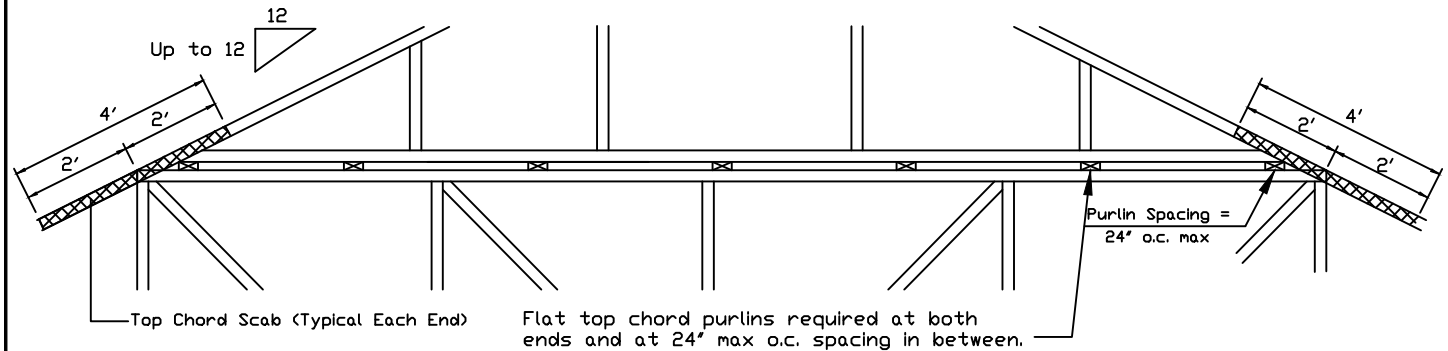
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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.

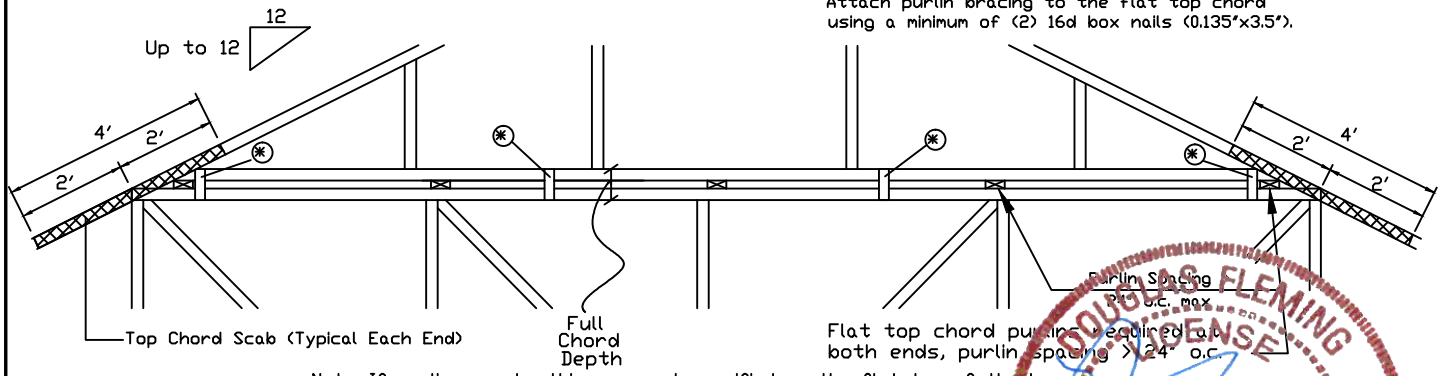
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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").




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

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

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

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

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

**28PB Wave Piggyback Plate**
One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.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DOUGLAS FLEMING
LICENSE
No. 66648
STATE OF FLORIDA
PROFESSIONAL ENGINEER
04/13/2021
COA #0 278

| | |
|---|---|
| REF | PIGGYBACK |
| DATE | 01/02/2018 |
| DRWG | PB160160118 |
| SPACING | 24.0" |

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

### Bracing Group Species and Grades:

**Group A:**

| Spruce-Pine-Fir | |
|---|---|
| #1 / #2 | Standard |
| #3 | Stud |

| Hem-Fir | |
|---|---|
| #2 | Stud |
| #3 | Standard |

| Douglas Fir-Larch |
|---|
| #3 |
| Stud |
| Standard |

| Southern Pine*** |
|---|
| #3 |
| Stud |
| Standard |

**Group B:**

| Hem-Fir |
|---|
| #1 & Btr |
| #1 |

| Douglas Fir-Larch |
|---|
| #1 |
| #2 |

| Southern Pine*** |
|---|
| #1 |
| #2 |

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

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

### Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

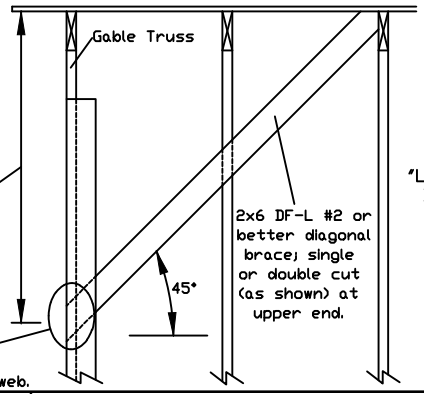
Attach "L" braces with 10d (0.128"x3.0" min) nails.

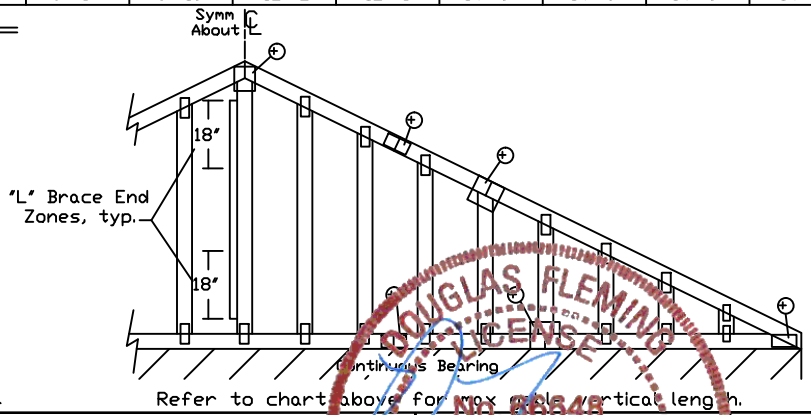
* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

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

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

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'.




Refer to chart above for max gable vertical 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.

DOUGLAS FLEMING LICENSE NO. 66548 STATE OF FLORIDA PROFESSIONAL ENGINEER

04/13/2021

COA #0 278

ALPINE AN ITW COMPANY

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Suite 242
Earth City, MO 63045

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MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

| | |
|---|---|
| REF | ASCE7-16-GAB14030 |
| DATE | 01/26/2018 |
| DRWG | A14030ENC160118 |