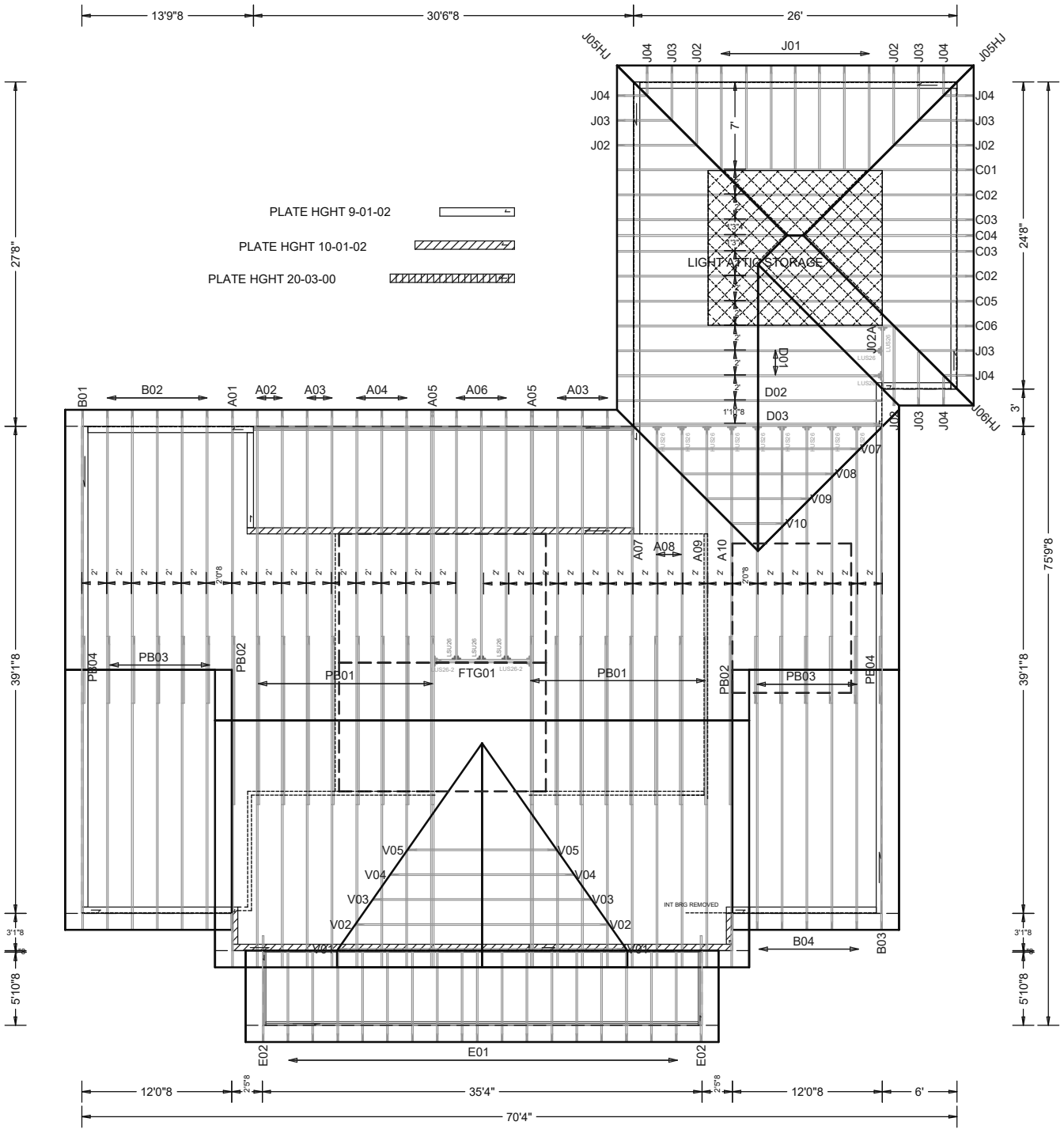
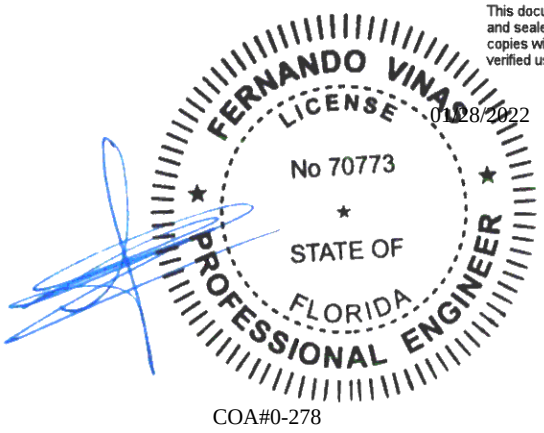



Job Name: Sellers Residence (LIVE D
Customer: TRADEMARK CONSTRUCTION
Designer: Bill Eklund
ADDRESS:
SALESMAN: DB
: <Not Found>

JOB #: 22-6857

JOB NO:
22-6857

PAGE NO:
1 OF 1




01/28/2022

COA#0-278

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

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


| Site Information: | Page 1: |
|---|---|
| *Customer:* W. B. Howland Company, Inc. | *Job Number:* 22-6857 |
| *Job Description:* Sellers Residence (LIVE DORMER) | |
| *Address:* LAKE CITY | |

| Job Engineering Criteria: | |
|---|---|
| *Design Code:* FBC 2017 RES | *IntelliVIEW Version:* 20.02.01A through 21.01.01A<br>*JRef #:* 1XcL2150006 |
| *Wind Standard:* ASCE 7-10 *Wind Speed (mph):* 130<br>*Building Type:* Closed | *Design Loading (psf):* 40.00 |

This package contains general notes pages, 46 truss drawing(s) and 6 detail(s).

| Item | Drawing Number | Truss |
|---|---|---|
| 1 | 028.22.1004.51625 | A01 |
| 3 | 028.22.1004.53092 | A03 |
| 5 | 028.22.1004.53186 | A05 |
| 7 | 028.22.1004.53233 | A07 |
| 9 | 028.22.1004.52983 | A09 |
| 11 | 028.22.1004.51426 | B01 |
| 13 | 028.22.1004.52124 | B03 |
| 15 | 028.22.1004.52436 | C01 |
| 17 | 028.22.1004.51859 | C03 |
| 19 | 028.22.1004.52092 | C05 |
| 21 | 028.22.1004.51093 | D01 |
| 23 | 028.22.1004.52968 | D03 |
| 25 | 028.22.1004.51797 | E02 |
| 27 | 028.22.1004.51765 | J01 |
| 29 | 028.22.1004.51923 | J02A |
| 31 | 028.22.1004.51425 | J04 |
| 33 | 028.22.1004.52500 | J06HJ |
| 35 | 028.22.1004.51671 | PB02 |
| 37 | 028.22.1004.51983 | PB04 |
| 39 | 028.22.1004.53139 | V02 |
| 41 | 028.22.1004.53045 | V04 |
| 43 | 028.22.1004.51047 | V07 |
| 45 | 028.22.1004.51422 | V09 |
| 47 | A14015ENC101014 | |
| 49 | BRCLBSUB0119 | |
| 51 | PB160101014 | |

| Item | Drawing Number | Truss |
|---|---|---|
| 2 | 028.22.1004.53264 | A02 |
| 4 | 028.22.1004.53061 | A04 |
| 6 | 028.22.1004.53295 | A06 |
| 8 | 028.22.1004.51421 | A08 |
| 10 | 028.22.1004.51921 | A10 |
| 12 | 028.22.1004.51828 | B02 |
| 14 | 028.22.1004.51952 | B04 |
| 16 | 028.22.1004.51718 | C02 |
| 18 | 028.22.1004.52014 | C04 |
| 20 | 028.22.1004.52501 | C06 |
| 22 | 028.22.1004.51890 | D02 |
| 24 | 028.22.1004.51594 | E01 |
| 26 | 028.22.1004.53235 | FTG01 |
| 28 | 028.22.1004.51686 | J02 |
| 30 | 028.22.1004.51424 | J03 |
| 32 | 028.22.1004.52468 | J05HJ |
| 34 | 028.22.1004.51423 | PB01 |
| 36 | 028.22.1004.51639 | PB03 |
| 38 | 028.22.1004.53077 | V01 |
| 40 | 028.22.1004.53202 | V03 |
| 42 | 028.22.1004.53014 | V05 |
| 44 | 028.22.1004.51733 | V08 |
| 46 | 028.22.1004.52046 | V10 |
| 48 | A14030ENC101014 | |
| 50 | GBLLETIN0118 | |
| 52 | VAL160101014 | |

## 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.

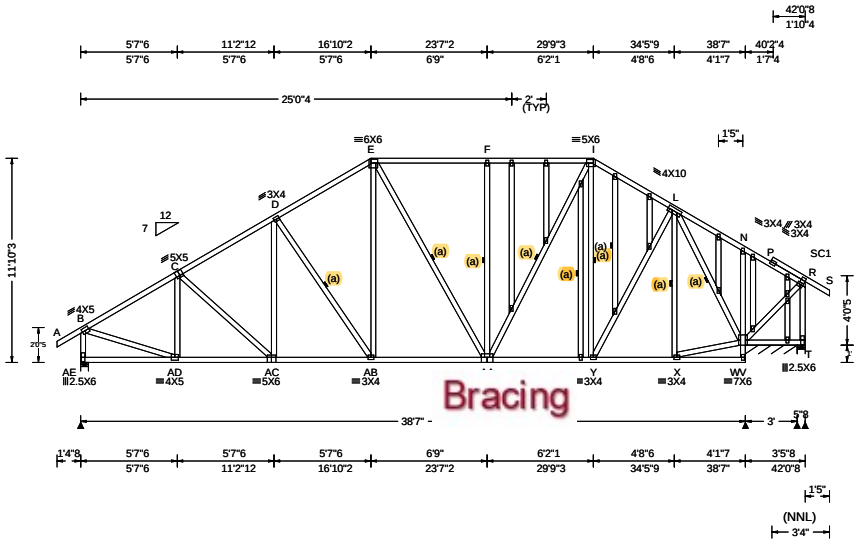
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze 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. sbcacomponents.com.

| | | | |
|---|---|---|---|
| SEQN: 344121 / GABL<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** A01 | Cust: R 215 JRef:1XcL2150006 T4<br>DrwNo: 028.22.1004.51625<br>KD / FV 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 17.60 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.20 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.074 | H | 999 | 240 |
| VERT(CL): 0.152 | H | 999 | 180 |
| HORZ(LL): 0.027 | X | - | - |
| HORZ(TL): 0.056 | X | - | - |

Creep Factor: 2.0
Max TC CSI: 0.493
Max BC CSI: 0.510
Max Web CSI: 0.602

VIEW Ver: 20.02.01A.1209.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| AE | 1669 | /- | /- | /1077 | /211 | /336 |
| V* | 697 | /- | /- | /420 | /40 | /- |
| T | 33 | /-164 | /- | /67 | /111 | /- |

Wind reactions based on MWFRS
AE Brg Width = 5.5 Min Req = 2.0
V Brg Width = 36.0 Min Req = -
T Brg Width = 5.5 Min Req = 1.5
Bearings AE, V, & T 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 | 239 | - 1853 | E - F | 302 | - 1235 |
| C - D | 273 | - 1854 | F - I | 302 | - 1235 |
| D - E | 265 | - 1583 | I - L | 143 | - 1088 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| AE-AD | 240 | - 391 | AB-AA | 1293 | - 225 |
| AD-AC | 1545 | - 441 | AA- Y | 882 | - 61 |
| AC-AB | 1519 | - 341 | Y - X | 557 | 0 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B -AE | 259 | - 1621 | AA- I | 782 | - 215 |
| B -AD | 1581 | - 125 | Y - L | 698 | - 133 |
| D -AB | 209 | - 408 | I - Y | 106 | - 389 |
| E -AB | 511 | - 154 | L - V | 114 | - 1585 |
| F -AA | 93 | - 421 | X - V | 587 | 0 |

**Lumber**
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 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 TC @ 24" oc.

**Wind**
Wind loads based on MWFRS with additional C&C member design.
End verticals not exposed to wind pressure.

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

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

The overall height of this truss excluding overhang is 11-10-3.

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****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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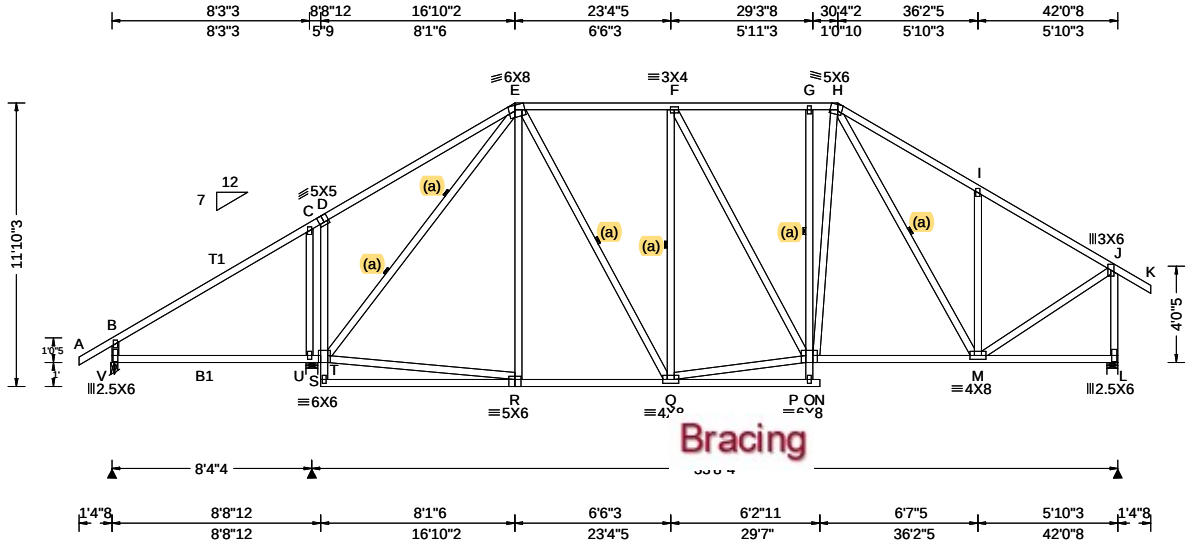
6750 Forum Drive
Suite 305
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 353636 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** A02 | Cust: R 215 JRef:1XcL2150006 T28 /<br>DrwNo: 028.22.1004.53264<br>AK / FV 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.63 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.20 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.078 | F | 999 | 240 |
| VERT(CL): 0.160 | F | 999 | 180 |
| HORZ(LL): 0.033 | L | - | - |
| HORZ(TL): 0.066 | L | - | - |

Creep Factor: 2.0
Max TC CSI: 0.761
Max BC CSI: 0.795
Max Web CSI: 0.904

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| V | 452 | /- | /- | /313 | /50 | /286 |
| U | 2059 | /- | /- | /1002 | /65 | /- |
| L | 1652 | /- | /- | /872 | /55 | /- |

Wind reactions based on MWFRS
V Brg Wid = 3.0 Min Req = 1.5
U Brg Wid = 6.0 Min Req = 1.7
L Brg Wid = 5.5 Min Req = 1.9
Bearings V, U, & L are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| C - D | 323 | - 431 | G - H | 444 | - 1231 |
| E - F | 447 | - 1163 | H - I | 484 | - 1403 |
| F - G | 443 | - 1229 | I - J | 357 | - 1387 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| R - Q | 904 | - 153 | O - M | 1176 | - 190 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - V | 224 | - 376 | Q - O | 1204 | - 203 |
| C - U | 298 | - 942 | O - H | 503 | - 141 |
| S - E | 91 | - 1369 | M - I | 202 | - 405 |
| S - R | 841 | - 144 | M - J | 1328 | - 249 |
| E - Q | 526 | - 99 | J - L | 427 | - 1623 |
| Q - F | 146 | - 499 | | | |

**Lumber**
Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;
Webs: 2x4 SP #3;

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

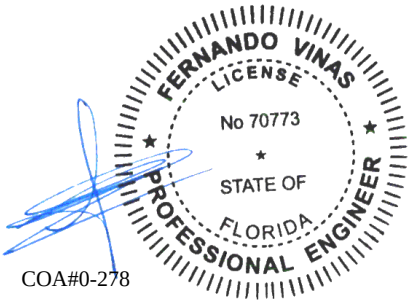
**Plating Notes**
All plates are 2X4 except as noted.

**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.
End verticals not exposed to wind pressure.

**Additional Notes**
The overall height of this truss excluding overhang is 10-10-3.

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01/28/2022

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

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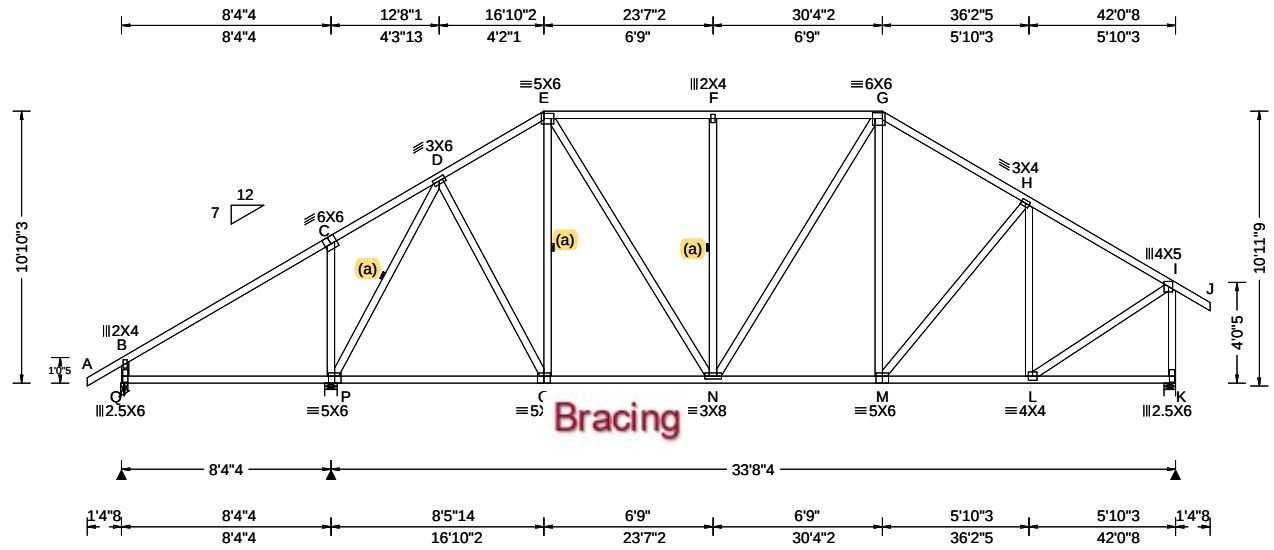
| | | | |
|---|---|---|---|
| SEQN: 353634 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 5 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** A03 | Cust: R 215 JRef:1XcL2150006 T34 /<br>DrwNo: 028.22.1004.53092<br>AK / FV 01/28/2022 |




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.63 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.20 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.066 | F | 999 | 240 |
| VERT(CL): 0.117 | F | 999 | 180 |
| HORZ(LL): 0.028 | K | - | - |
| HORZ(TL): 0.050 | K | - | - |

Creep Factor: 2.0
Max TC CSI: 0.827
Max BC CSI: 0.762
Max Web CSI: 0.700

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| Q | 483 | /- | /- | /352 | /59 | /286 |
| P | 2183 | /- | /- | /961 | /53 | /- |
| K | 1735 | /- | /- | /870 | /57 | /- |

Wind reactions based on MWFRS
Q Brg Wid = 3.0 Min Req = 1.5
P Brg Wid = 6.0 Min Req = 2.6
K Brg Wid = 5.5 Min Req = 2.0
Bearings Q, P, & K are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| D - E | 443 | -1290 | G - H | 460 | -1559 |
| E - F | 475 | -1386 | H - I | 359 | -1432 |
| F - G | 475 | -1386 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| P - O | 765 | -175 | N - M | 1263 | -190 |
| O - N | 1069 | -171 | M - L | 1181 | -216 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - Q | 241 | -407 | F - N | 179 | -455 |
| C - P | 225 | -493 | H - L | 157 | -556 |
| P - D | 147 | -1568 | L - I | 1378 | -248 |
| D - O | 653 | -39 | I - K | 432 | -1692 |
| E - N | 594 | -110 | | | |

**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.
End verticals not exposed to wind pressure.

**Additional Notes**
The overall height of this truss excluding overhang is 10-10-3.

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01/28/2022

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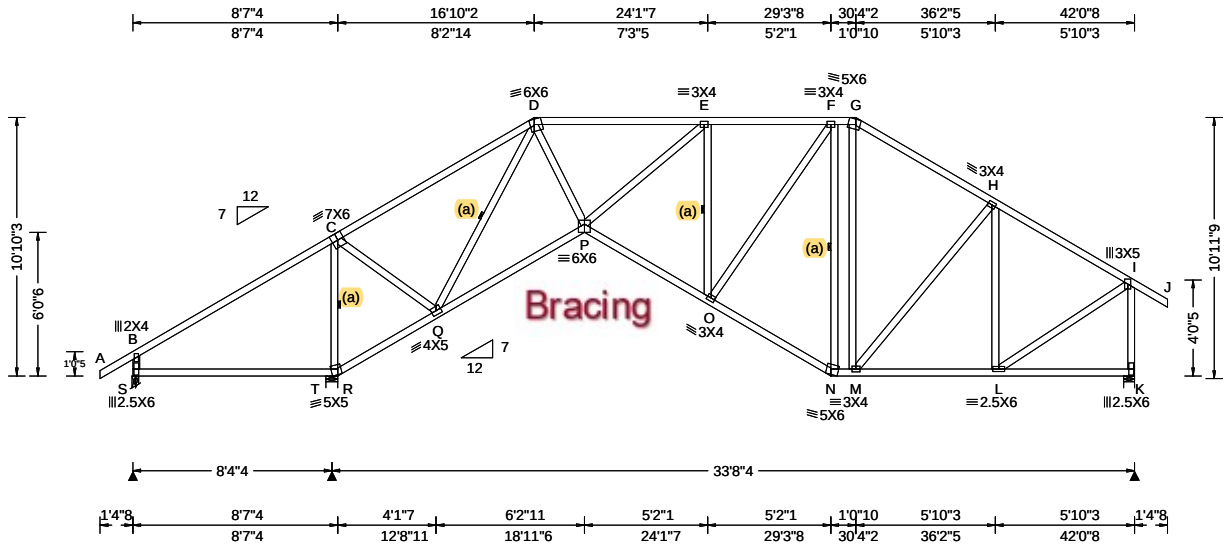
6750 Forum Drive
Suite 305
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 353610 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 3 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** A04 | Cust: R 215 JRef:1XcL2150006 T31<br>DrwNo: 028.22.1004.53061<br>AK / FV 01/28/2022 |




**Loading Criteria** (psf)

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

**Wind Criteria**

Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.20 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.118 | E | 999 | 240 |
| VERT(CL): 0.247 | E | 999 | 180 |
| HORZ(LL): 0.114 | K | - | - |
| HORZ(TL): 0.239 | K | - | - |

Creep Factor: 2.0
Max TC CSI: 0.985
Max BC CSI: 0.533
Max Web CSI: 0.699

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| S | 381 | /- | /- | /304 | /115 | /285 |
| T | 1881 | /- | /- | /1070 | /230 | /- |
| K | 1486 | /- | /- | /883 | /265 | /- |

Wind reactions based on MWFRS
S Brg Wid = 3.0 Min Req = 1.5
T Brg Wid = 6.0 Min Req = 2.2
K Brg Wid = 5.5 Min Req = 1.8
Bearings S, T, & K are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| C - D | 434 | -1066 | F - G | 420 | -1032 |
| D - E | 597 | -2160 | G - H | 442 | -1286 |
| E - F | 524 | -1557 | H - I | 341 | -1191 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| Q - P | 1770 | -285 | N - M | 1028 | -174 |
| P - O | 1862 | -310 | M - L | 970 | -201 |
| O - N | 1233 | -206 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| C - R | 381 | -1691 | O - F | 943 | -187 |
| C - Q | 1027 | -99 | F - N | 148 | -703 |
| Q - D | 186 | -1575 | H - L | 153 | -508 |
| D - P | 1555 | -214 | L - I | 1128 | -231 |
| P - E | 772 | -155 | I - K | 413 | -1434 |
| E - O | 229 | -956 | | | |

**Lumber**

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

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

**Purlins**

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

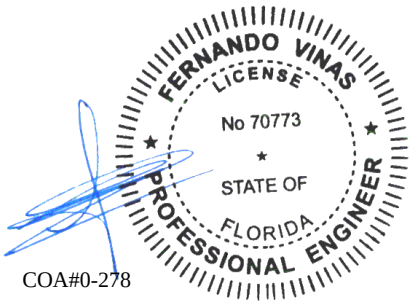
**Wind**

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

End verticals not exposed to wind pressure.

**Additional Notes**

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




COA#0-278

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

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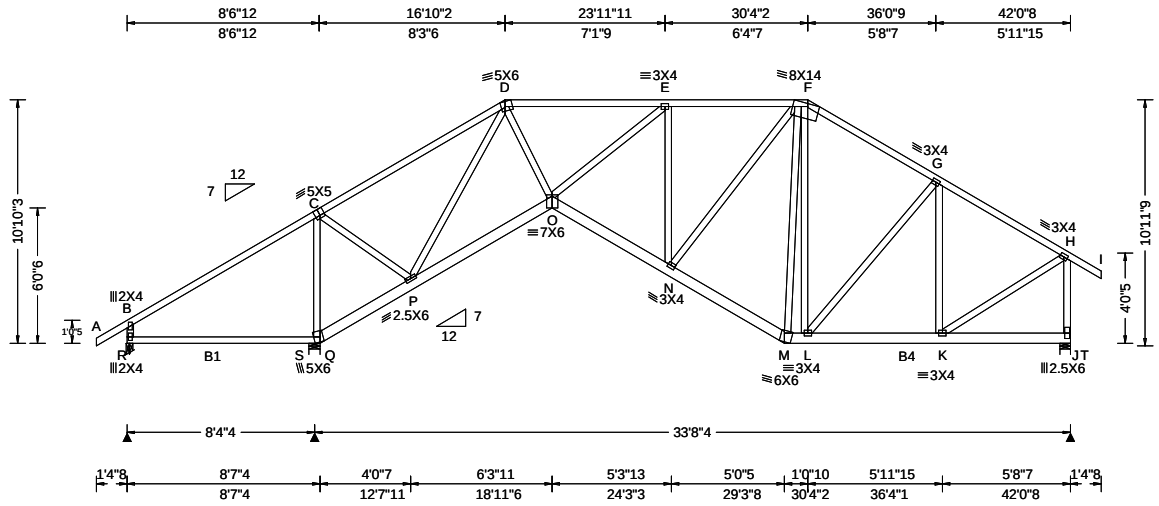
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 418001 / COMN<br>FROM: CDM | Ply: 2<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** A05 | Cust: R 215 JRef:1XcL2150006 T37 /<br>DrwNo: 028.22.1004.53186<br>AK / FV 01/28/2022 |

**2 Complete Trusses Required**




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.63 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.20 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 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.079 | O | 999 | 240 |
| VERT(CL): 0.155 | O | 999 | 180 |
| HORZ(LL): 0.078 | J | - | - |
| HORZ(TL): 0.154 | J | - | - |

Creep Factor: 2.0
Max TC CSI: 0.575
Max BC CSI: 0.446
Max Web CSI: 0.911

VIEW Ver: 21.01.01A.0521.20

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| R | 435 | /- | /- | /- | /74 | /- |
| S | 2576 | /- | /- | /- | /430 | /- |
| T | 1793 | /- | /- | /- | /312 | /- |

Wind reactions based on MWFRS
R Brg Wid = 3.0 Min Req = 1.5
S Brg Wid = 6.0 Min Req = 1.5
T Brg Wid = 5.5 Min Req = 1.5
Bearings R, S, & T are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| C - D | 138 | - 751 | F - G | 146 | - 814 |
| D - E | 303 | - 1720 | G - H | 129 | - 752 |
| E - F | 187 | - 1086 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| P - O | 1528 | - 280 | M - L | 662 | - 110 |
| O - N | 1290 | - 228 | L - K | 622 | - 101 |
| N - M | 747 | - 127 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| C - Q | 250 | - 1110 | E - N | 181 | - 755 |
| C - P | 781 | - 130 | N - F | 705 | - 130 |
| P - D | 253 | - 1253 | K - H | 722 | - 115 |
| D - O | 1334 | - 213 | H - J | 167 | - 875 |
| O - E | 819 | - 148 | | | |

**Lumber**

Top chord: 2x4 SP #2;
Bot chord: 2x6 SP #2; B1 2x4 SP #2;
B4 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

**Nailnote**

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

**Special Loads**

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

| | | | | |
|---|---|---|---|---|
| TC: From | 63 plf at | -1.38 to | 63 plf at | 43.42 |
| BC: From | 5 plf at | -1.38 to | 5 plf at | 0.00 |
| BC: From | 20 plf at | 0.00 to | 20 plf at | 8.60 |
| BC: From | 23 plf at | 8.60 to | 23 plf at | 29.29 |
| BC: From | 20 plf at | 29.29 to | 20 plf at | 42.04 |
| BC: From | 5 plf at | 42.04 to | 5 plf at | 43.42 |
| PLB: From | 40 plf at | 5.32 to | 40 plf at | 8.31 |
| PLB: From | 40 plf at | 33.50 to | 40 plf at | 36.05 |

BC: 775 lb Conc. Load at 18.82

**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.

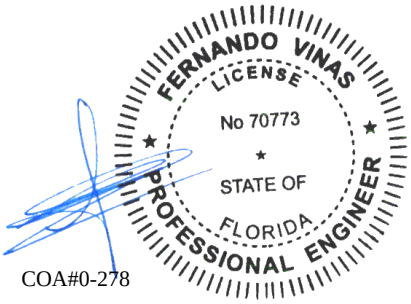
**Wind**

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

**Additional Notes**

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




COA#0-278

01/28/2022

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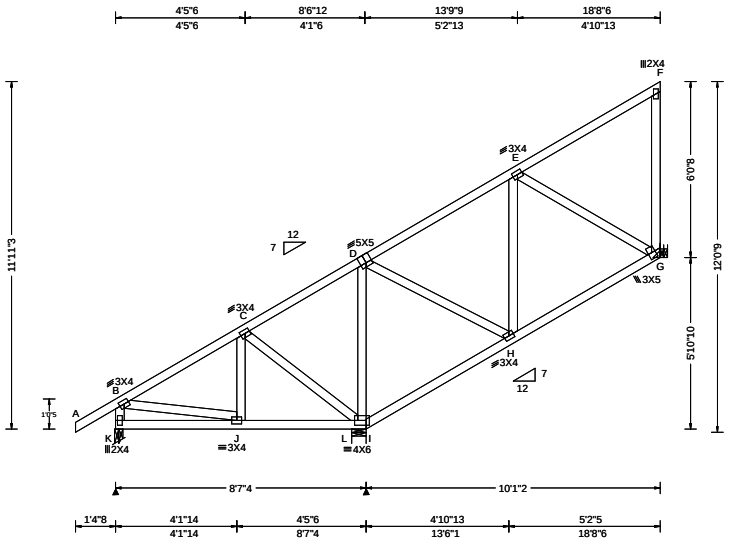
| | | | |
|---|---|---|---|
| SEQN: 417997 / MONO<br>FROM: CDM | Ply: 1<br>Qty: 3 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** A06 | Cust: R 215 JRef:1XcL2150006 T38<br>DrwNo: 028.22.1004.53295<br>AK / FV 01/28/2022 |




| Loading Criteria (psf) | | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria |
|---|---|---|---|---|
| TCLL: 20.00 | | Wind Std: ASCE 7-10 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# |
| TCDL: 10.00 | | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.004 E 999 240 |
| BCLL: 0.00 | | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.008 E 999 180 |
| BCDL: 10.00 | | Risk Category: II | Snow Duration: NA | HORZ(LL): -0.003 E - - |
| Des Ld: 40.00 | | EXP: C Kzt: NA | | HORZ(TL): 0.004 H - - |
| NCBCLL: 10.00 | | Mean Height: 16.17 ft | Building Code: | Creep Factor: 2.0 |
| Soffit: 2.00 | | TCDL: 5.0 psf | FBC 2017 RES | Max TC CSI: 0.439 |
| Load Duration: 1.25 | | BCDL: 5.0 psf | TPI Std: 2014 | Max BC CSI: 0.312 |
| Spacing: 24.0 " | | MWFRS Parallel Dist: h to 2h | Rep Fac: Yes | Max Web CSI: 0.364 |
| | | C&C Dist a: 3.00 ft | FT/RT:20(0)/10(0) | |
| | | Loc. from endwall: not in 9.00 ft | Plate Type(s): | |
| | | GCpi: 0.18 | WAVE | VIEW Ver: 21.01.01A.0521.20 |
| | | Wind Duration: 1.60 | | |

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| K | 396 | /- | /- | /244 | /- | /266 |
| L | 902 | /- | /- | /634 | /32 | /- |
| G | 406 | /- | /- | /289 | /93 | /- |

Wind reactions based on MWFRS
K Brg Wid = 3.0 Min Req = 1.5
L Brg Wid = 6.0 Min Req = 1.5
G Brg Wid = -
Bearings K & L are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. |
|---|---|---|
| K - J | 142 | -424 |

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

| Webs | Tens. | Comp. |
|---|---|---|
| D - I | 152 | -570 |

**Lumber**

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

**Hangers / Ties**

(J) Hanger Support Required, by others

**Wind**

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

End verticals not exposed to wind pressure.

**Additional Notes**

Shim all supports to solid bearing.

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

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COA#0-278

01/28/2022

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

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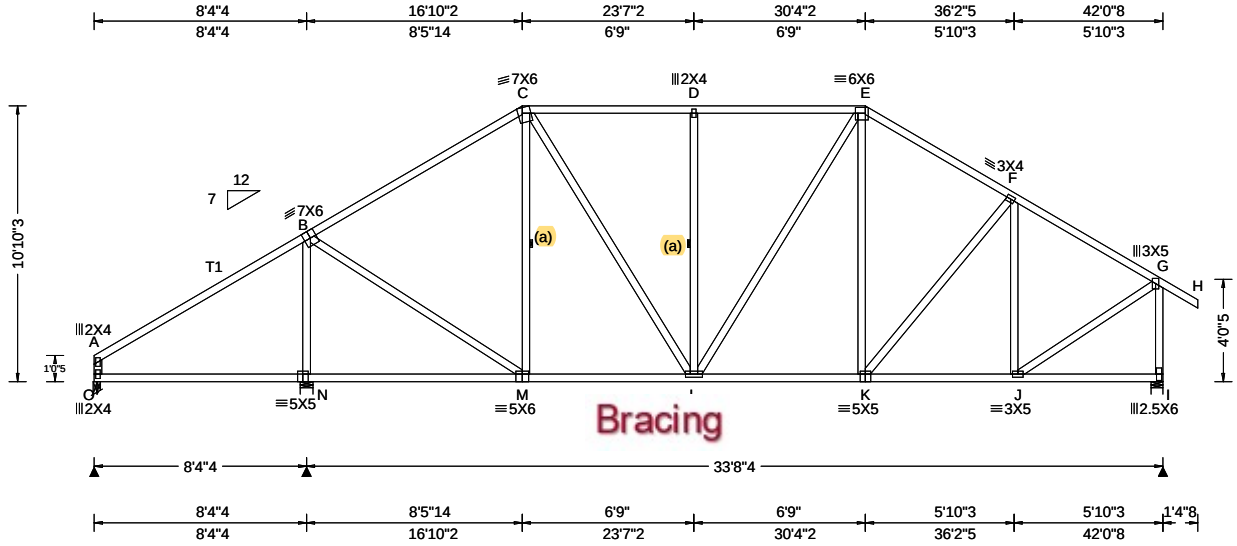
| | | | |
|---|---|---|---|
| SEQN: 353631 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** A07 | Cust: R 215 JRef:1XcL2150006 T8 /<br>DrwNo: 028.22.1004.53233<br>AK / FV 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 18.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.20 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.050 | D | 999 | 240 |
| VERT(CL): 0.101 | D | 999 | 180 |
| HORZ(LL): 0.017 | I | - | - |
| HORZ(TL): 0.034 | I | - | - |

Creep Factor: 2.0
Max TC CSI: 0.920
Max BC CSI: 0.612
Max Web CSI: 0.968

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| O | 382 | /- | /- | /244 | /40 | /367 |
| N | 1741 | /- | /- | /1006 | /- | /- |
| I | 1497 | /- | /- | /884 | /31 | /- |

Wind reactions based on MWFRS
O Brg Wid = 3.0 Min Req = 1.5
N Brg Wid = 6.0 Min Req = 2.1
I Brg Wid = 5.5 Min Req = 1.8
Bearings O, N, & I are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 289 | -1162 | E - F | 313 | -1292 |
| C - D | 359 | -1136 | F - G | 242 | -1204 |
| D - E | 359 | -1136 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| O - N | 385 | -362 | L - K | 1034 | -65 |
| N - M | 395 | -361 | K - J | 982 | -125 |
| M - L | 877 | -163 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| N - B | 247 | -1549 | D - L | 12 | -431 |
| B - M | 967 | 0 | F - J | 97 | -498 |
| C - M | 31 | -390 | J - G | 1142 | -143 |
| C - L | 482 | -123 | G - I | 304 | -1448 |

**Lumber**

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

**Purlins**

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

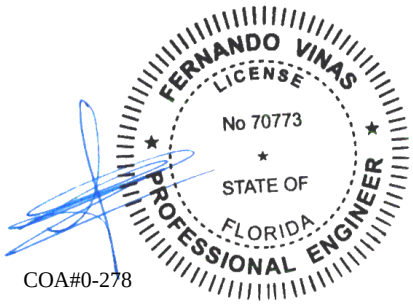
**Wind**

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

End verticals not exposed to wind pressure.

**Additional Notes**

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




COA#0-278

01/28/2022

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

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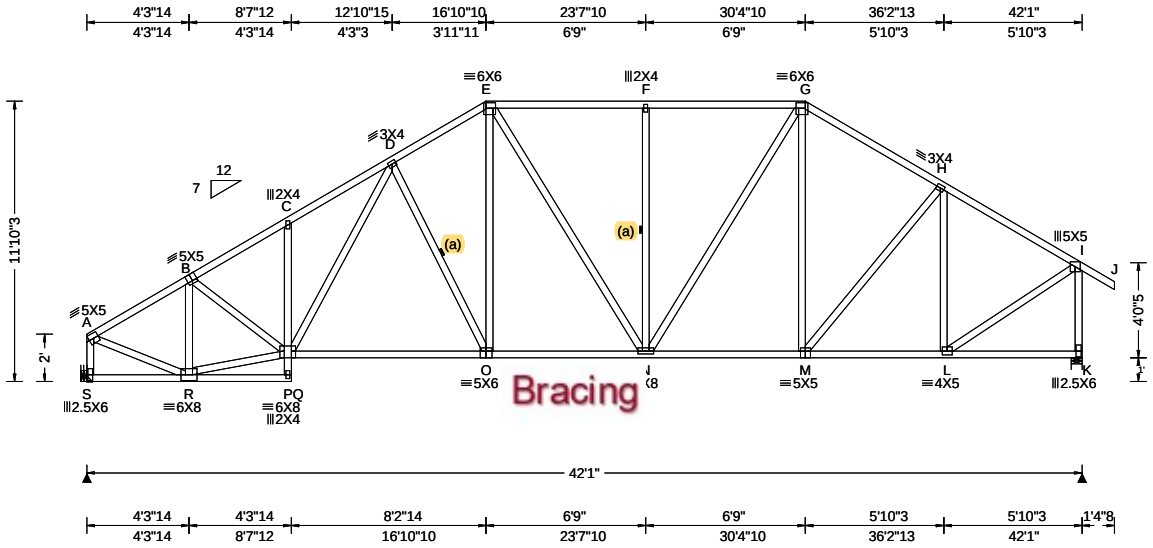
| | | | |
|---|---|---|---|
| SEQN: 344127 / COMN<br>FROM: CDM<br>Page 1 of 2 | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** A08 | Cust: R 215 JRef:1XcL2150006 T9 /<br>DrwNo: 028.22.1004.51421<br>KD / WHK 01/28/2022 |




| Loading Criteria (psf) | | Wind Criteria | | Snow Criteria (Pg,Pf in PSF) | | Defl/CSI Criteria | | | | ▲Maximum Reactions (lbs) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL: | 20.00 | Wind Std: | ASCE 7-10 | Pg: NA | Ct: NA CAT: NA | PP Deflection in | loc | L/defl | L/# | | Gravity | | | Non-Gravity | |
| TCDL: | 10.00 | Speed: | 130 mph | Pf: NA | Ce: NA | VERT(LL): | 0.139 O | 999 | 240 | Loc | R+ / R- | / Rh | | / Rw / U | / RL |
| BCLL: | 0.00 | Enclosure: | Closed | Lu: NA | Cs: NA | VERT(CL): | 0.256 O | 999 | 180 | S | 1921 /- | /- | | /1043 /287 | /368 |
| BCDL: | 10.00 | Risk Category: | II | Snow Duration: NA | | HORZ(LL): | 0.068 K | - | - | K | 2121 /- | /- | | /1050 /315 | /- |
| Des Ld: | 40.00 | EXP: C | Kzt: NA | | | HORZ(TL): | 0.125 K | - | - | Wind reactions based on MWFRS | | | | | |
| NCBCLL: | 10.00 | Mean Height: | 17.99 ft | Building Code: | | Creep Factor: | 2.0 | | | S | Brg Width = - | | | Min Req = - | |
| Soffit: | 2.00 | TCDL: | 5.0 psf | FBC 2017 RES | | Max TC CSI: | 0.633 | | | K | Brg Width = 5.5 | | | Min Req = 2.5 | |
| Load Duration: | 1.25 | BCDL: | 5.0 psf | TPI Std: 2014 | | Max BC CSI: | 0.876 | | | Bearing K is a rigid surface. | | | | | |
| Spacing: | 24.0 " | MWFRS Parallel Dist: | h/2 to h | Rep Fac: Yes | | Max Web CSI: | 0.761 | | | Members not listed have forces less than 375# | | | | | |
| | | C&C Dist a: | 4.21 ft | FT/RT:20(0)/10(0) | | | | | | | | | | | |
| | | Loc. from endwall: | not in 13.00 ft | Plate Type(s): | | | | | | | | | | | |
| | | GCpi: | 0.18 | WAVE | | | | | | | | | | | |
| | | Wind Duration: | 1.60 | | | VIEW Ver: 20.02.01A.1209.11 | | | | | | | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A - B | 340 | - 2163 | E - F | 522 | - 2070 |
| B - C | 489 | - 2886 | F - G | 522 | - 2070 |
| C - D | 572 | - 2894 | G - H | 394 | - 2056 |
| D - E | 461 | - 2353 | H - I | 298 | - 1795 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| P - O | 2199 | - 300 | N - M | 1693 | - 147 |
| O - N | 1982 | - 201 | M - L | 1501 | - 178 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| A - S | 291 | - 1881 | E - O | 682 | - 169 |
| A - R | 1930 | - 263 | F - N | 98 | - 452 |
| R - B | 203 | - 1105 | N - G | 698 | - 137 |
| R - P | 1871 | - 382 | H - L | 131 | - 760 |
| B - P | 754 | - 60 | L - I | 1752 | - 204 |
| P - D | 507 | - 217 | I - K | 347 | - 2078 |
| D - O | 223 | - 486 | | | |

**Lumber**

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

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

**Hangers / Ties**

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

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

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

Bearing at location x=0' uses the following support conditions: 0'
Bearing S (0', 9'1"2) HUS26
Supporting Member: (2)2x6 SP 2400f-2.0E
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

**Loading**

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

**Purlins**

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

**Wind**

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

End verticals not exposed to wind pressure.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

COA#0-278

01/28/2022

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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.

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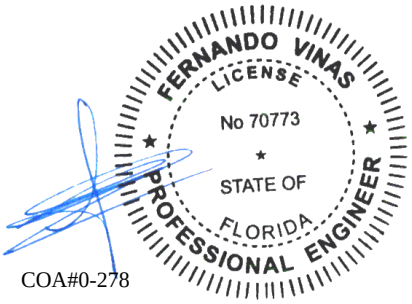
**Additional Notes**

The overall height of this truss excluding overhang is 11-10-3.




COA#0-278

01/28/2022

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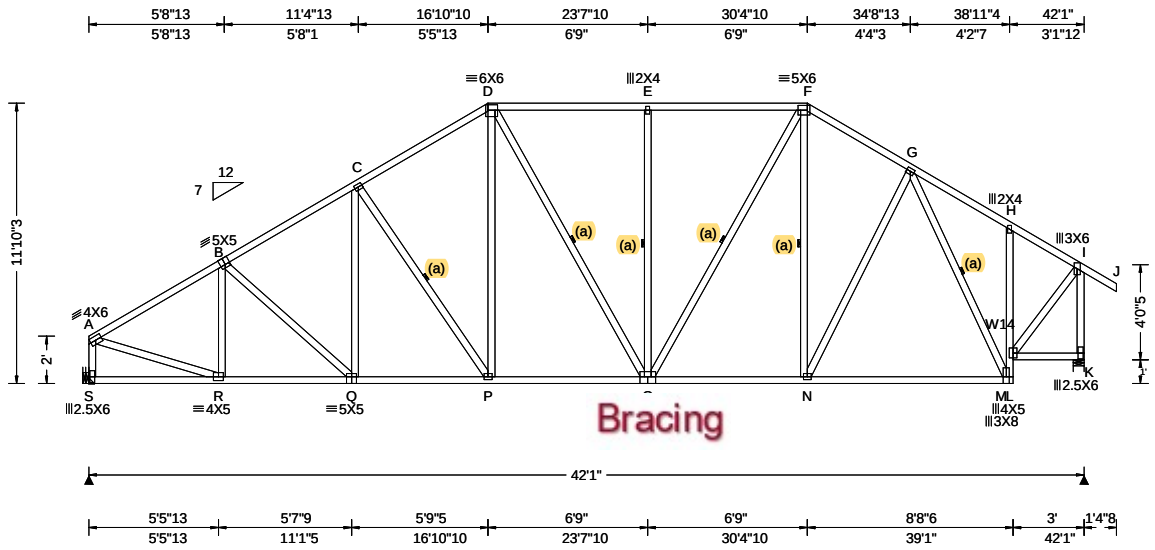
| | | | |
|---|---|---|---|
| SEQN: 406368 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** A09 | Cust: R 215 JRef:1XcL2150006 T12 /<br>DrwNo: 028.22.1004.52983<br>/ YK 01/28/2022 |




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.02 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.21 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.127 | E | 999 | 240 |
| VERT(CL): 0.262 | E | 999 | 180 |
| HORZ(LL): 0.161 | K | - | - |
| HORZ(TL): 0.333 | K | - | - |

Creep Factor: 2.0
Max TC CSI: 0.590
Max BC CSI: 0.669
Max Web CSI: 0.909

VIEW Ver: 21.01.01A.0521.20

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| S | 1748 | /- | /- | /1037 | /304 | /273 |
| K | 1844 | /- | /- | /1034 | /338 | /- |

Wind reactions based on MWFRS
S Brg Wid = - Min Req = -
K Brg Wid = 5.5
Bearing K 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 | 495 | - 2099 | E - F | 562 | - 1595 |
| B - C | 578 | - 2141 | F - G | 525 | - 1568 |
| C - D | 585 | - 1883 | G - H | 369 | - 992 |
| D - E | 562 | - 1595 | H - I | 329 | - 1144 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| R - Q | 1764 | - 432 | O - N | 1297 | - 235 |
| Q - P | 1766 | - 382 | N - M | 1175 | - 246 |
| P - O | 1551 | - 296 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| A - S | 407 | - 1700 | O - F | 590 | - 156 |
| A - R | 1798 | - 364 | G - M | 186 | - 898 |
| R - B | 129 | - 410 | M - L | 939 | - 167 |
| C - P | 165 | - 387 | L - I | 1383 | - 296 |
| D - P | 499 | - 115 | I - K | 488 | - 1780 |
| E - O | 179 | - 453 | | | |

**Lumber**
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W14 2x4 SP M-31;

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

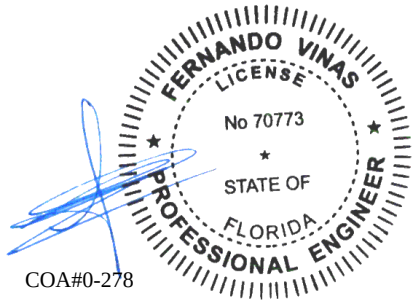
**Plating Notes**
All plates are 3X4 except as noted.

**Hangers / Ties**
(J) Hanger Support Required, by others

**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.
End verticals not exposed to wind pressure.

**Additional Notes**
The overall height of this truss excluding overhang is 11-10-3.




COA#0-278

01/28/2022

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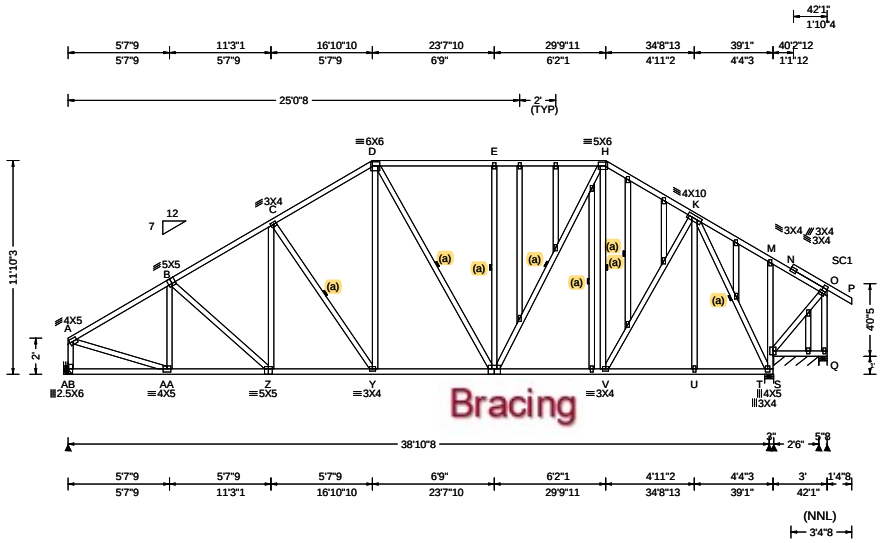
| | | | |
|---|---|---|---|
| SEQN: 344129 / GABL<br>FROM: CDM<br>Page 1 of 2 | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** A10 | Cust: R 215 JRef:1XcL2150006 T6 /<br>DrwNo: 028.22.1004.51921<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 17.99 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.21 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.078 | G | 999 | 240 |
| VERT(CL): 0.160 | G | 999 | 180 |
| HORZ(LL): 0.031 | T | - | - |
| HORZ(TL): 0.064 | T | - | - |

Creep Factor: 2.0
Max TC CSI: 0.529
Max BC CSI: 0.519
Max Web CSI: 0.698

VIEW Ver: 20.02.01A.1209.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| AB | 1607 | /- | /- | /1015 | /195 | /322 |
| T | 1796 | /- | /- | /1077 | /67 | /- |
| S* | 47 | /- | /- | /35 | /- | /- |
| Q | 172 | /- | /- | /131 | /57 | /- |

Wind reactions based on MWFRS
AB Brg Width = - Min Req = -
T Brg Width = 6.0 Min Req = 2.1
S Brg Width = 30.0 Min Req = -
Q Brg Width = 5.5 Min Req = 1.5
Bearings T, S, & Q are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A - B | 247 | -1915 | D - E | 317 | -1302 |
| B - C | 285 | -1918 | E - H | 317 | -1302 |
| C - D | 278 | -1643 | H - K | 163 | -1187 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| AA- Z | 1603 | -462 | X - V | 965 | -78 |
| Z - Y | 1573 | -355 | V - U | 658 | -21 |
| Y - X | 1344 | -237 | U - T | 657 | -21 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| A -AB | 202 | -1558 | E - X | 94 | -420 |
| A -AA | 1632 | -156 | X - H | 746 | -209 |
| C - Y | 211 | -410 | V - K | 628 | -117 |
| D - Y | 512 | -156 | K - T | 74 | -1649 |

**Lumber**
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 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 TC @ 24" oc.

**Wind**
Wind loads based on MWFRS with additional C&C member design.
End verticals not exposed to wind pressure.

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

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

The overall height of this truss excluding overhang is 11-10-3.

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COA#0-278
01/28/2022

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**Hangers / Ties**

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

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

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

Bearing at location x=0' uses the following support conditions: 0'
Bearing AB (0', 9'1"2) HUS26
Supporting Member: (2)2x6 SP 2400f-2.0E
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

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COA#0-278

01/28/2022

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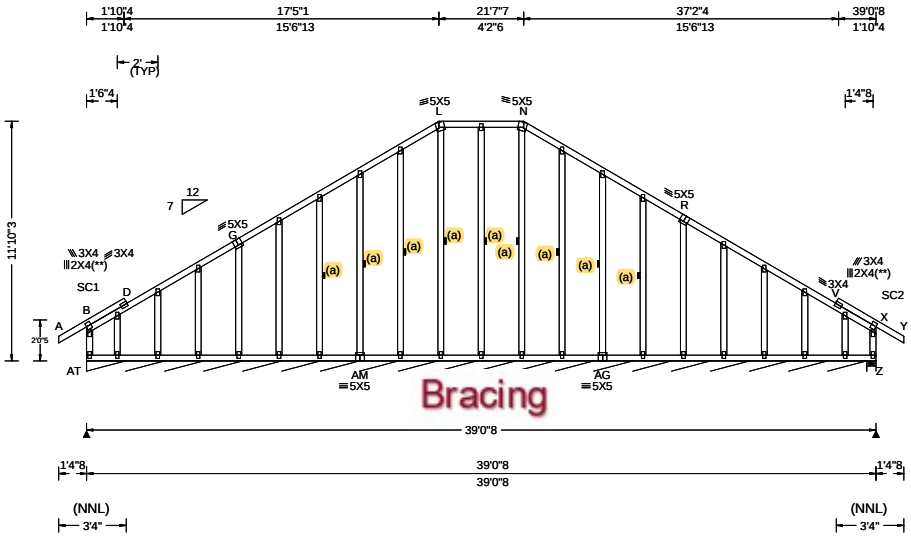
| | | | |
|---|---|---|---|
| SEQN: 344130 / GABL<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** B01 | Cust: R 215 JRef:1XcL2150006 T5 /<br>DrwNo: 028.22.1004.51426<br>KD / WHK 01/28/2022 |




| 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 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 16.41 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.90 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 2017 RES<br>TPI Std: 2014<br>Rep Fac: Yes<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.002 D 999 240<br>VERT(CL): 0.003 M 999 180<br>HORZ(LL): -0.055 M - -<br>HORZ(TL): 0.081 M - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.151<br>Max BC CSI: 0.059<br>Max Web CSI: 0.120<br><br>VIEW Ver: 20.02.01A.1209.11 |

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| AT* | 84 | /- | /- | /50 | /- | /3 |
| Z | 191 | /- | /- | /99 | /60 | /- |

Wind reactions based on MWFRS
AT Brg Width = 463 Min Req = -
Z Brg Width = 5.5 Min Req = 1.5
Bearings AT & Z 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;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

Fasten rated sheathing to one face of this frame.

**Plating Notes**

All plates are 2X4 except as noted.

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

**Purlins**

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

**Wind**

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

End verticals not exposed to wind pressure.

**Additional Notes**

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

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

The overall height of this truss excluding overhang is 11-10-3.

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COA#0-278

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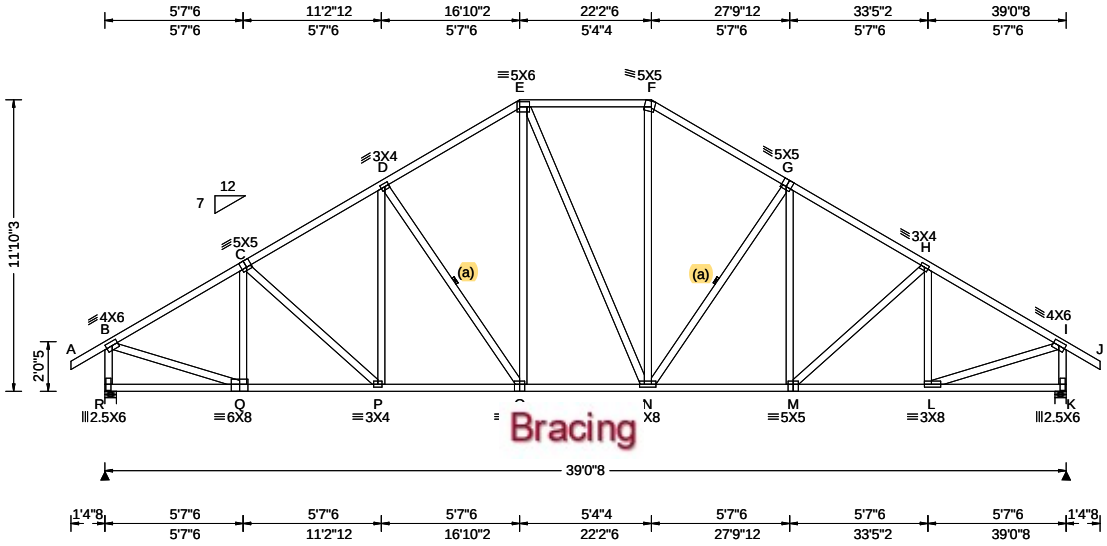
| | | | |
|---|---|---|---|
| SEQN: 344131 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 5 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** B02 | Cust: R 215 JRef:1XcL2150006 T33 /<br>DrwNo: 028.22.1004.51828<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.41 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.90 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.122 | O | 999 | 240 |
| VERT(CL): 0.217 | O | 999 | 180 |
| HORZ(LL): 0.049 | K | - | - |
| HORZ(TL): 0.088 | K | - | - |

Creep Factor: 2.0
Max TC CSI: 0.449
Max BC CSI: 0.682
Max Web CSI: 0.749

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | | / Rw | / U | / RL |
| R | 2001 | /- | /- | | /1017 | /295 | /345 |
| K | 2002 | /- | /- | | /1017 | /295 | /- |

Wind reactions based on MWFRS
R Brg Width = 5.5 Min Req = 2.4
K Brg Width = 5.5 Min Req = 2.4
Bearings R & K are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 554 | - 2280 | F - G | 620 | - 2063 |
| C - D | 629 | - 2381 | G - H | 630 | - 2381 |
| D - E | 623 | - 2069 | H - I | 555 | - 2281 |
| E - F | 582 | - 1712 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| Q - P | 1918 | - 380 | N - M | 1972 | - 309 |
| P - O | 1973 | - 310 | M - L | 1920 | - 381 |
| O - N | 1708 | - 178 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - R | 526 | - 1951 | N - F | 653 | - 179 |
| B - Q | 1965 | - 384 | N - G | 237 | - 475 |
| Q - C | 135 | - 478 | H - L | 137 | - 477 |
| D - O | 239 | - 479 | L - I | 1967 | - 385 |
| E - O | 652 | - 182 | I - K | 526 | - 1952 |

**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.
End verticals not exposed to wind pressure.

**Additional Notes**
The overall height of this truss excluding overhang is 11-10-3.

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COA#0-278

01/28/2022

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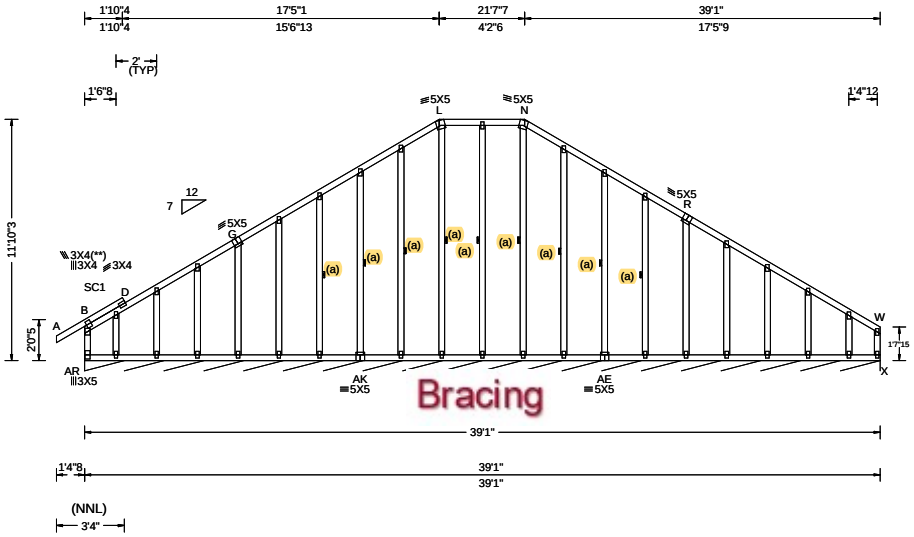
| | | | |
|---|---|---|---|
| SEQN: 344314 / GABL<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** B03 | Cust: R 215 JRef:1XcL2150006 T14 /<br>DrwNo: 028.22.1004.52124<br>KD / WHK 01/28/2022 |




| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria |
|---|---|---|---|
| TCLL: 20.00 | Wind Std: ASCE 7-10 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): -0.005 D 999 240 |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): -0.008 D 999 180 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.138 Q - - |
| Des Ld: 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.193 Q - - |
| NCBCLL: 10.00 | Mean Height: 15.63 ft | Building Code: | Creep Factor: 2.0 |
| Soffit: 2.00 | TCDL: 5.0 psf | FBC 2017 RES | Max TC CSI: 0.158 |
| Load Duration: 1.25 | BCDL: 5.0 psf | TPI Std: 2014 | Max BC CSI: 0.151 |
| Spacing: 24.0 " | MWFRS Parallel Dist: 0 to h/2 | Rep Fac: Yes | Max Web CSI: 0.365 |
| | C&C Dist a: 3.91 ft | FT/RT:20(0)/10(0) | |
| | Loc. from endwall: Any | Plate Type(s): | |
| | GCpi: 0.18 | WAVE | VIEW Ver: 20.02.01A.1209.11 |
| | Wind Duration: 1.60 | | |

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| X* | 86 | /- | /- | /52 | /3 | /6 |

Wind reactions based on MWFRS
X Brg Width = 469 Min Req = -
Bearing AR 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;

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

Fasten rated sheathing to one face of this frame.

**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.

**Purlins**

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

**Wind**

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

End verticals not exposed to wind pressure.

**Additional Notes**

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

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

The overall height of this truss excluding overhang is 11-10-3.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

COA#0-278

01/28/2022

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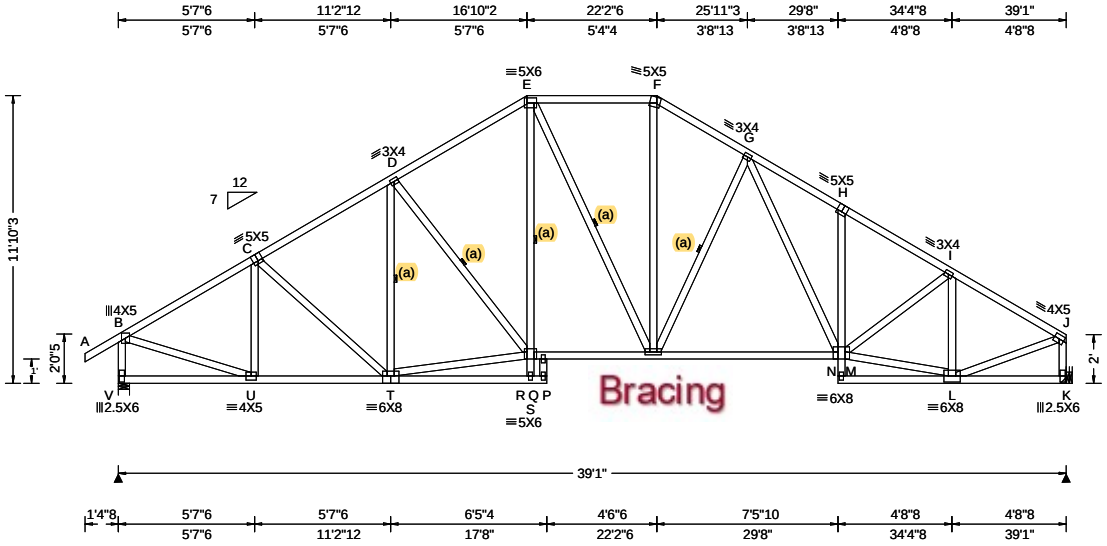
| | | | |
|---|---|---|---|
| SEQN: 344133 / COMN<br>FROM: CDM<br>Page 1 of 2 | Ply: 1<br>Qty: 5 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** B04 | Cust: R 215 JRef:1XcL2150006 T1 /<br>DrwNo: 028.22.1004.51952<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.41 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.91 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.101 | R | 999 | 240 |
| VERT(CL): 0.209 | R | 999 | 180 |
| HORZ(LL): 0.054 | K | - | - |
| HORZ(TL): 0.111 | K | - | - |

Creep Factor: 2.0
Max TC CSI: 0.394
Max BC CSI: 0.758
Max Web CSI: 0.624

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| V | 1720 | /- | /- | /1018 | /294 | /330 |
| K | 1623 | /- | /- | /939 | /270 | /- |

Wind reactions based on MWFRS
V Brg Width = 5.5 Min Req = 2.0
K Brg Width = - Min Req = -
Bearing V is a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 554 | - 1918 | F - G | 652 | - 1778 |
| C - D | 628 | - 1937 | G - H | 802 | - 2312 |
| D - E | 644 | - 1820 | H - I | 703 | - 2325 |
| E - F | 598 | - 1494 | I - J | 526 | - 1861 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| U - T | 1601 | - 409 | Q - O | 1501 | - 229 |
| R - Q | 1442 | - 224 | O - M | 1711 | - 337 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - V | 526 | - 1671 | G - M | 553 | - 237 |
| B - U | 1639 | - 383 | M - I | 468 | - 45 |
| U - C | 137 | - 375 | M - L | 1593 | - 403 |
| T - R | 1569 | - 339 | I - L | 258 | - 834 |
| E - R | 543 | - 198 | L - J | 1629 | - 414 |
| O - F | 578 | - 223 | J - K | 447 | - 1582 |
| O - G | 272 | - 521 | | | |

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

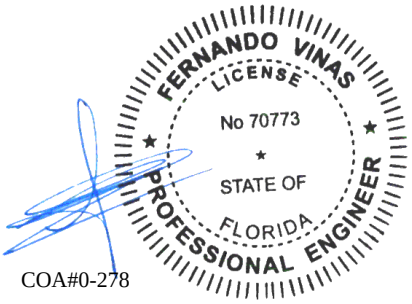
**Bracing**
(a) Continuous lateral restraint equally spaced on member.

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

**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.
End verticals not exposed to wind pressure.

**Additional Notes**
The overall height of this truss excluding overhang is 11-10-3.
Note: Laterally brace bottom chord above filler at 2'0" O.C.Max. including a lateral brace at chord ends.




COA#0-278

01/28/2022

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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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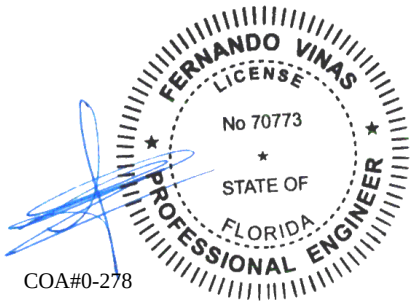
**Hangers / Ties**

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

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

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

Bearing at location x=38'10" uses the following support conditions: 38'10"
Bearing K (38'10", 9'1"2) HUS26
Supporting Member: (2)2x6 SP 2400f-2.0E
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.




COA#0-278

01/28/2022

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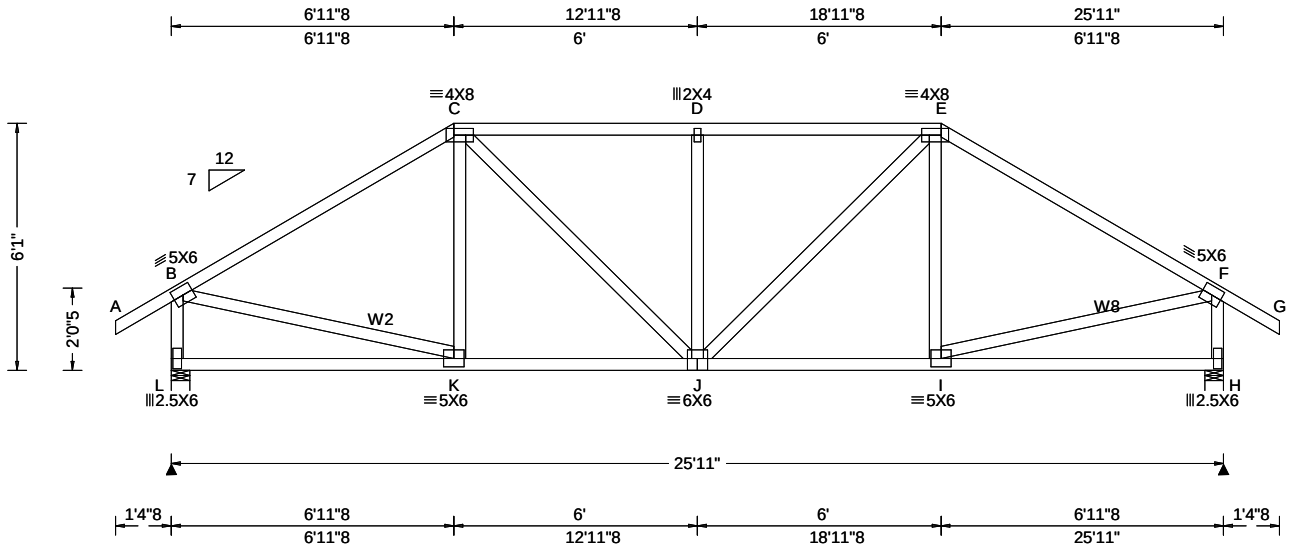
| | | | |
|---|---|---|---|
| SEQN: 398223 / HIPS<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** C01 | Cust: R 215 JRef:1XcL2150006 T21 /<br>DrwNo: 028.22.1004.52436<br>/ YK 01/28/2022 |




**Loading Criteria** (psf)

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

**Wind Criteria**

Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
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 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.078 | D | 999 | 240 |
| VERT(CL): 0.162 | D | 999 | 180 |
| HORZ(LL): 0.018 | C | - | - |
| HORZ(TL): 0.037 | C | - | - |

Creep Factor: 2.0
Max TC CSI: 0.407
Max BC CSI: 0.463
Max Web CSI: 0.522

VIEW Ver: 21.01.01A.0521.20

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| L | 2221 | /- | /- | /- | /379 | /- |
| H | 2221 | /- | /- | /- | /379 | /- |

Wind reactions based on MWFRS
L Brg Width = 5.5 Min Req = 1.8
H Brg Width = 5.5 Min Req = 1.8
Bearings L & 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. |
|---|---|---|---|---|---|
| B - C | 460 | - 2736 | D - E | 458 | - 2836 |
| C - D | 458 | - 2836 | E - F | 460 | - 2736 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| K - J | 2275 | - 365 | J - I | 2275 | - 365 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - L | 409 | - 2173 | J - E | 778 | - 129 |
| B - K | 2312 | - 371 | I - F | 2312 | - 371 |
| C - J | 778 | - 129 | F - H | 409 | - 2173 |
| D - J | 192 | - 503 | | | |

**Lumber**

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3; W2,W8 2x4 SP #2;

**Loading**

#1 hip supports 6-11-8 jacks W/2 panel TC and no end vert.

**Purlins**

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

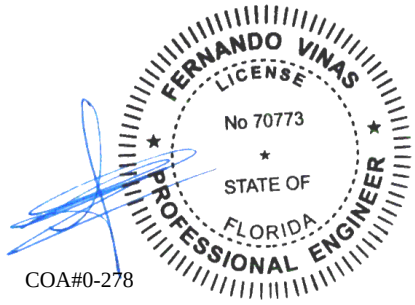
**Wind**

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

**Additional Notes**

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




COA#0-278

01/28/2022

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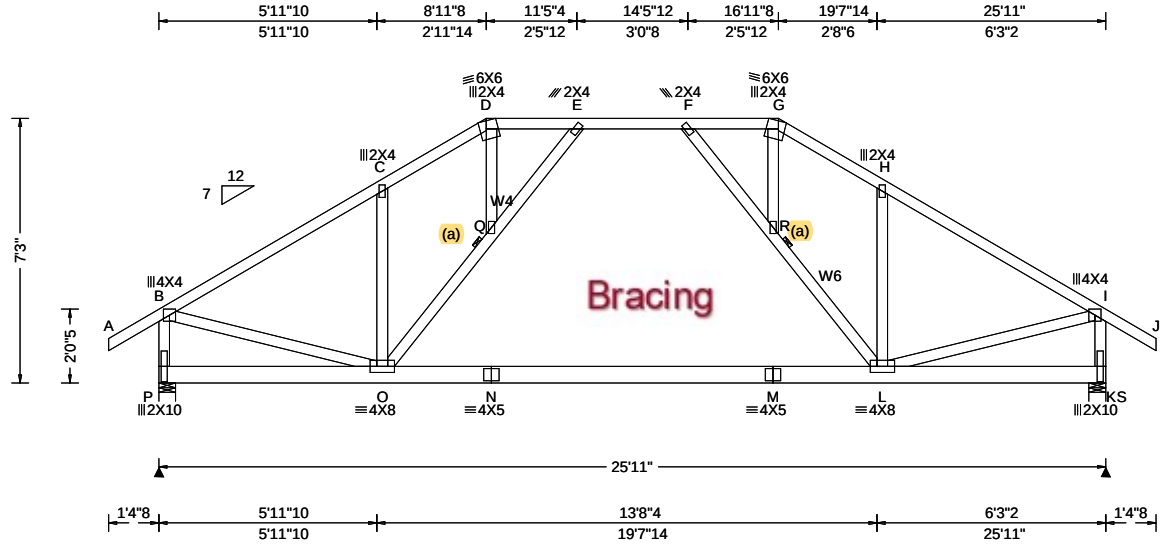
| | | | |
|---|---|---|---|
| SEQN: 344135 / HIPS<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** C02 | Cust: R 215 JRef:1XcL2150006 T26 /<br>DrwNo: 028.22.1004.51718<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.133 | F | 999 | 240 |
| VERT(CL): 0.293 | F | 999 | 180 |
| HORZ(LL): 0.091 | C | - | - |
| HORZ(TL): 0.167 | C | - | - |

Creep Factor: 2.0
Max TC CSI: 0.949
Max BC CSI: 0.377
Max Web CSI: 0.785

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| P | 1319 | /- | /- | /684 | /208 | /175 |
| S | 1319 | /- | /- | /684 | /208 | /- |

Wind reactions based on MWFRS
P Brg Width = 5.5 Min Req = 1.5
S Brg Width = 5.5 Min Req = 1.5
Bearings P & S 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 | 304 | -1527 | F - G | 361 | -1240 |
| C - D | 374 | -1396 | G - H | 374 | -1397 |
| D - E | 361 | -1239 | H - I | 304 | -1528 |
| E - F | 346 | -1106 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| O - N | 1106 | -154 | M - L | 1106 | -154 |
| N - M | 1106 | -154 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - P | 326 | -1341 | R - L | 411 | -100 |
| B - O | 1237 | -160 | L - I | 1238 | -160 |
| O - Q | 410 | -100 | I - K | 324 | -1342 |

**Lumber**
Top chord: 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W4,W6 2x4 SP #2;

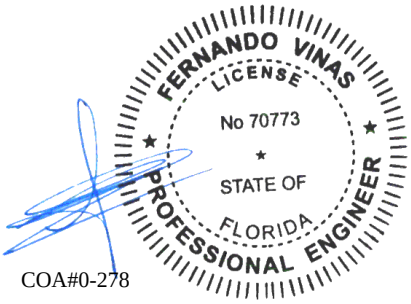
**Bracing**
(a) Continuous lateral restraint equally spaced on member.

**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.
End verticals not exposed to wind pressure.

**Additional Notes**
The overall height of this truss excluding overhang is 7-3-0.




COA#0-278

01/28/2022

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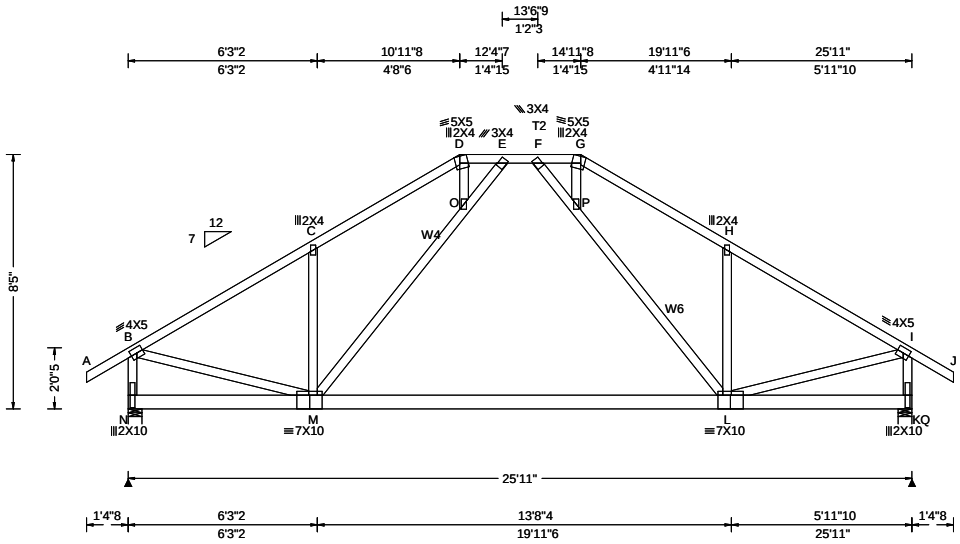
| | | | |
|---|---|---|---|
| SEQN: 344136 / HIPS<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** C03 | Cust: R 215 JRef:1XcL2150006 T29 /<br>DrwNo: 028.22.1004.51859<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 36.00 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 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.110 | H | 999 | 240 |
| VERT(CL): 0.181 | H | 999 | 180 |
| HORZ(LL): 0.064 | C | - | - |
| HORZ(TL): 0.107 | C | - | - |

Creep Factor: 2.0
Max TC CSI: 0.818
Max BC CSI: 0.649
Max Web CSI: 0.610

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| N | 1503 | /- | /- | /686 | /371 | /204 |
| Q | 1516 | /- | /- | /686 | /381 | /- |

Wind reactions based on MWFRS
N Brg Width = 5.5 Min Req = 1.5
Q Brg Width = 5.5 Min Req = 1.5
Bearings N & Q are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 497 | - 1889 | F - G | 417 | - 1583 |
| C - D | 488 | - 1849 | G - H | 505 | - 1868 |
| D - E | 402 | - 1565 | H - I | 514 | - 1910 |
| E - F | 321 | - 1116 | | | |

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

| Chords | Tens. | Comp. |
|---|---|---|
| M - L | 1116 | - 311 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - N | 436 | - 1595 | F - P | 777 | - 150 |
| B - M | 1583 | - 407 | P - L | 841 | - 169 |
| M - O | 812 | - 146 | L - I | 1601 | - 422 |
| O - E | 749 | - 129 | I - K | 448 | - 1610 |

**Lumber**

Top chord: 2x4 SP #2; T2 2x4 SP M-31;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W4,W6 2x4 SP #2;

**Special Loads**

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

| | | | | |
|---|---|---|---|---|
| TC: From | 63 plf at | -1.38 to | 63 plf at | 27.29 |
| BC: From | 5 plf at | -1.38 to | 5 plf at | 0.00 |
| BC: From | 20 plf at | 0.00 to | 20 plf at | 8.62 |
| BC: From | 60 plf at | 8.62 to | 60 plf at | 9.25 |
| BC: From | 100 plf at | 9.25 to | 100 plf at | 16.75 |
| BC: From | 60 plf at | 16.75 to | 60 plf at | 18.06 |
| BC: From | 20 plf at | 18.06 to | 20 plf at | 25.92 |
| BC: From | 5 plf at | 25.92 to | 5 plf at | 27.29 |

**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.

End verticals not exposed to wind pressure.

**Additional Notes**

WARNING: 20 psf additional bottom chord live load check has been modified

The overall height of this truss excluding overhang is 8-5-0.

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COA#0-278

01/28/2022

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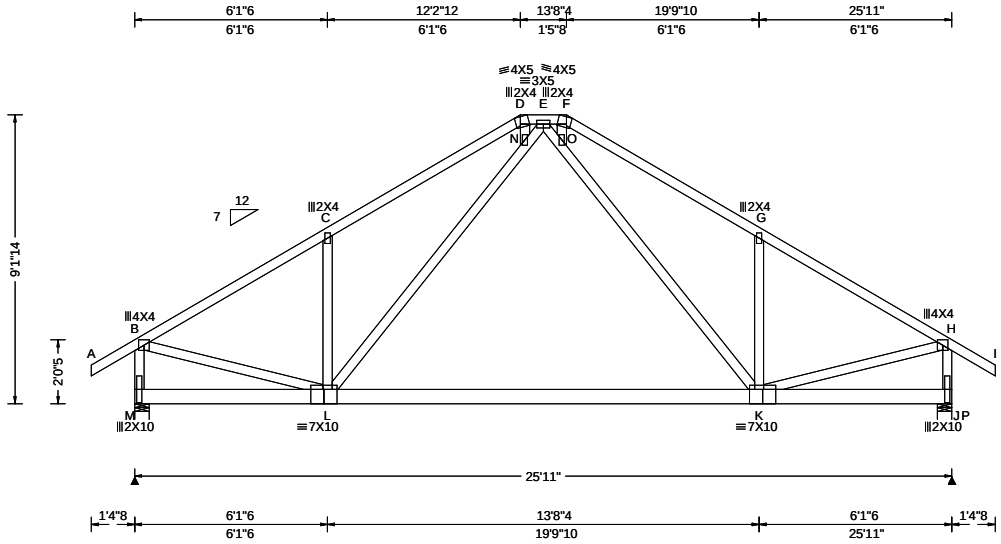
| | | | |
|---|---|---|---|
| SEQN: 344137 / HIPS<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** C04 | Cust: R 215 JRef:1XcL2150006 T30 /<br>DrwNo: 028.22.1004.52014<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 36.00 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 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.056 | C | 999 | 240 |
| VERT(CL): 0.099 | C | 999 | 180 |
| HORZ(LL): 0.025 | C | - | - |
| HORZ(TL): 0.046 | C | - | - |

Creep Factor: 2.0
Max TC CSI: 0.689
Max BC CSI: 0.401
Max Web CSI: 0.513

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| M | 1340 | /- | /- | /685 | /359 | /223 |
| P | 1340 | /- | /- | /685 | /359 | /- |

Wind reactions based on MWFRS
M Brg Width = 5.5 Min Req = 1.5
P Brg Width = 5.5 Min Req = 1.5
Bearings M & P 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 | 483 | -1609 | E - F | 405 | -1329 |
| C - D | 488 | -1619 | F - G | 488 | -1619 |
| D - E | 405 | -1329 | G - H | 483 | -1609 |

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

| Chords | Tens. | Comp. |
|---|---|---|
| L - K | 898 | -279 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - M | 422 | -1377 | E - O | 731 | -171 |
| B - L | 1345 | -399 | O - K | 739 | -177 |
| C - L | 204 | -419 | K - G | 204 | -419 |
| L - N | 739 | -177 | K - H | 1345 | -399 |
| N - E | 731 | -172 | H - J | 422 | -1377 |

**Lumber**

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

**Special Loads**

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

| | | | | |
|---|---|---|---|---|
| TC: From | 63 plf at | -1.38 to | 63 plf at | 27.29 |
| BC: From | 5 plf at | -1.38 to | 5 plf at | 0.00 |
| BC: From | 20 plf at | 0.00 to | 20 plf at | 8.71 |
| BC: From | 60 plf at | 8.71 to | 60 plf at | 17.19 |
| BC: From | 20 plf at | 17.19 to | 20 plf at | 25.92 |
| BC: From | 5 plf at | 25.92 to | 5 plf at | 27.29 |

**Purlins**

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

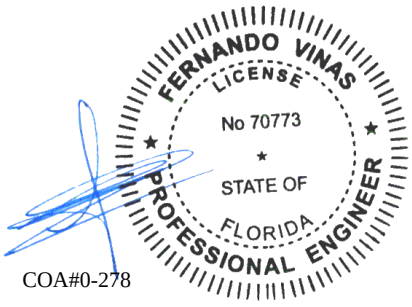
**Wind**

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

End verticals not exposed to wind pressure.

**Additional Notes**

The overall height of this truss excluding overhang is 9-1-14.




COA#0-278

01/28/2022

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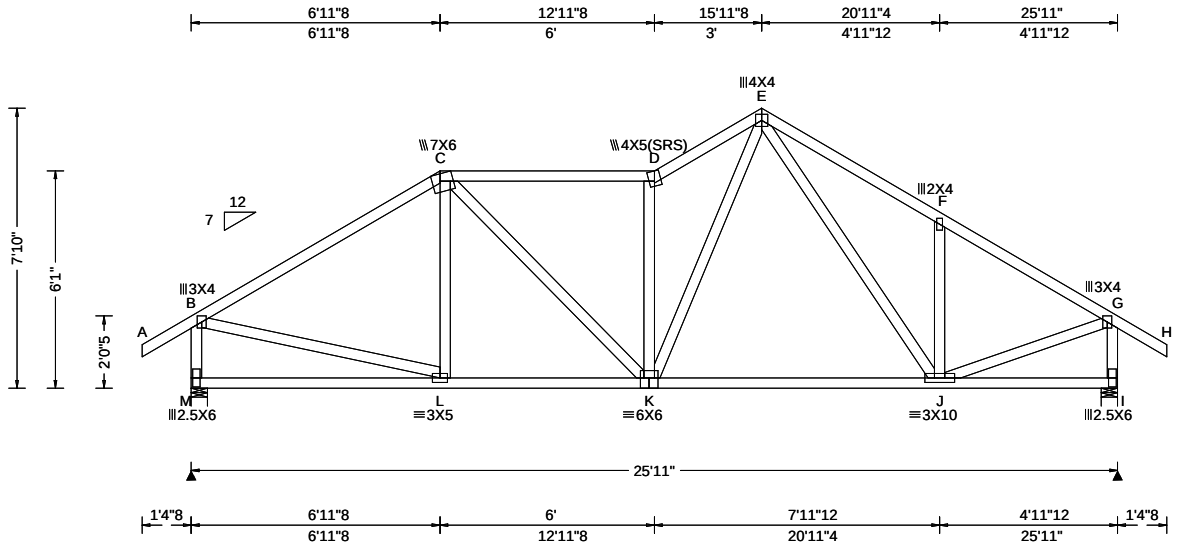
| | | | |
|---|---|---|---|
| SEQN: 344138 / SPEC<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** C05 | Cust: R 215 JRef:1XcL2150006 T2 /<br>DrwNo: 028.22.1004.52092<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.056 | D | 999 | 240 |
| VERT(CL): 0.115 | D | 999 | 180 |
| HORZ(LL): 0.015 | C | - | - |
| HORZ(TL): 0.031 | C | - | - |

Creep Factor: 2.0
Max TC CSI: 0.592
Max BC CSI: 0.559
Max Web CSI: 0.635

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| M | 1171 | /- | /- | /674 | /68 | /189 |
| I | 1171 | /- | /- | /679 | /44 | /- |

Wind reactions based on MWFRS
M Brg Width = 5.5 Min Req = 1.5
I Brg Width = 5.5 Min Req = 1.5
Bearings M & I are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 336 | -1253 | E - F | 413 | -1213 |
| C - D | 386 | -1218 | F - G | 307 | -1205 |
| D - E | 498 | -1480 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| L - K | 995 | -191 | K - J | 872 | -136 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - M | 343 | -1109 | K - E | 959 | -312 |
| B - L | 985 | -179 | J - G | 1025 | -196 |
| K - D | 351 | -968 | G - I | 330 | -1138 |

**Lumber**

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

**Purlins**

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

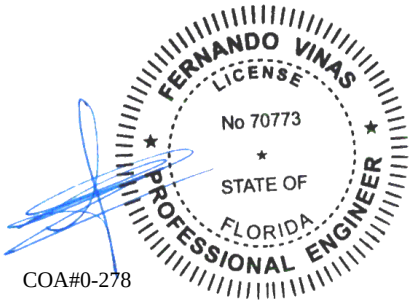
**Wind**

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

End verticals not exposed to wind pressure.

**Additional Notes**

The overall height of this truss excluding overhang is 7-10-0.




COA#0-278

01/28/2022

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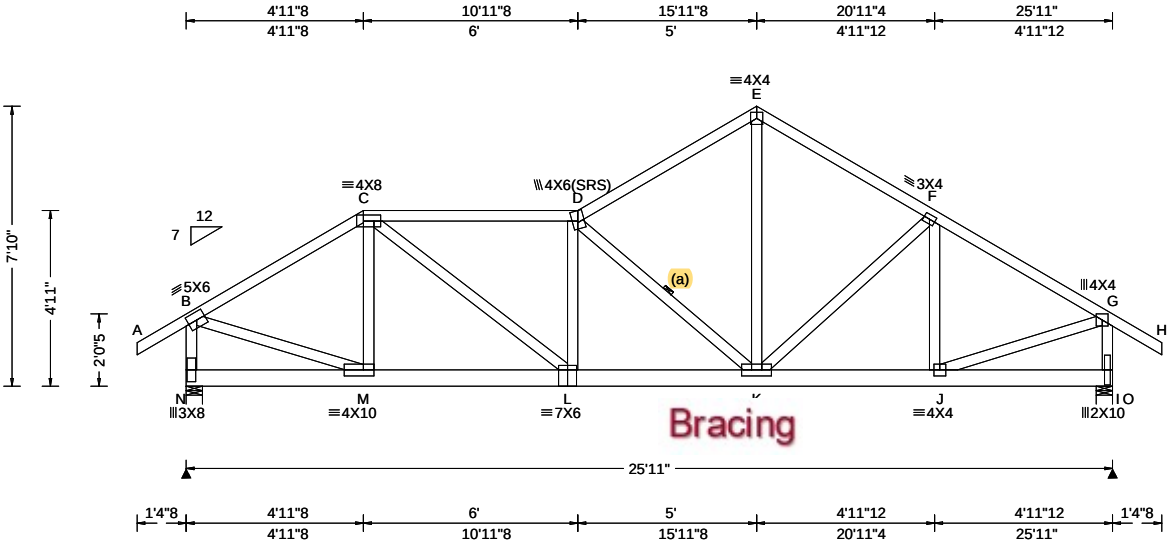
| | | | |
|---|---|---|---|
| SEQN: 398225 / SPEC<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** C06 | Cust: R 215 JRef:1XcL2150006 T19 /<br>DrwNo: 028.22.1004.52501<br>/ YK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 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 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.081 | D | 999 | 240 |
| VERT(CL): 0.164 | D | 999 | 180 |
| HORZ(LL): 0.022 | C | - | - |
| HORZ(TL): 0.045 | C | - | - |

Creep Factor: 2.0
Max TC CSI: 0.707
Max BC CSI: 0.364
Max Web CSI: 0.905

VIEW Ver: 21.01.01A.0521.20

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| N | 2295 | /- | /- | /- | /314 | /- |
| O | 1480 | /- | /- | /- | /256 | /- |

Wind reactions based on MWFRS
N Brg Width = 5.5 Min Req = 1.9
O Brg Width = 5.5 Min Req = 1.5
Bearings N & O are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 341 | - 2700 | E - F | 256 | - 1597 |
| C - D | 347 | - 2563 | F - G | 258 | - 1577 |
| D - E | 257 | - 1596 | | | |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| M - L | 2268 | - 270 | K - J | 1313 | - 204 |
| L - K | 2562 | - 354 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| B - N | 337 | - 2303 | E - K | 1221 | - 105 |
| B - M | 2376 | - 281 | J - G | 1356 | - 205 |
| C - L | 500 | - 98 | G - I | 274 | - 1431 |
| D - K | 217 | - 1690 | | | |

**Lumber**

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

**Bracing**

(a) Continuous lateral restraint equally spaced on member.

**Special Loads**

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

| | | | | |
|---|---|---|---|---|
| TC: From | 63 plf at | -1.38 to | 63 plf at | 27.29 |
| BC: From | 5 plf at | -1.38 to | 5 plf at | 0.00 |
| BC: From | 20 plf at | 0.00 to | 20 plf at | 4.99 |
| BC: From | 10 plf at | 4.99 to | 10 plf at | 5.94 |
| BC: From | 20 plf at | 5.94 to | 20 plf at | 25.92 |
| BC: From | 5 plf at | 25.92 to | 5 plf at | 27.29 |

TC: 358 lb Conc. Load at 4.99
BC: 179 lb Conc. Load at 4.99
BC: 905 lb Conc. Load at 5.94

**Purlins**

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

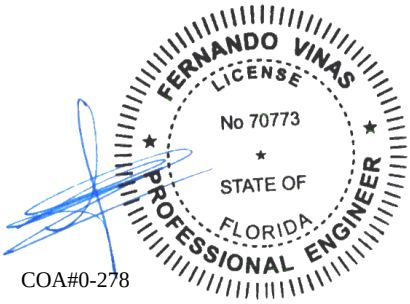
**Wind**

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

**Additional Notes**

The overall height of this truss excluding overhang is 7-10-0.




COA#0-278

01/28/2022

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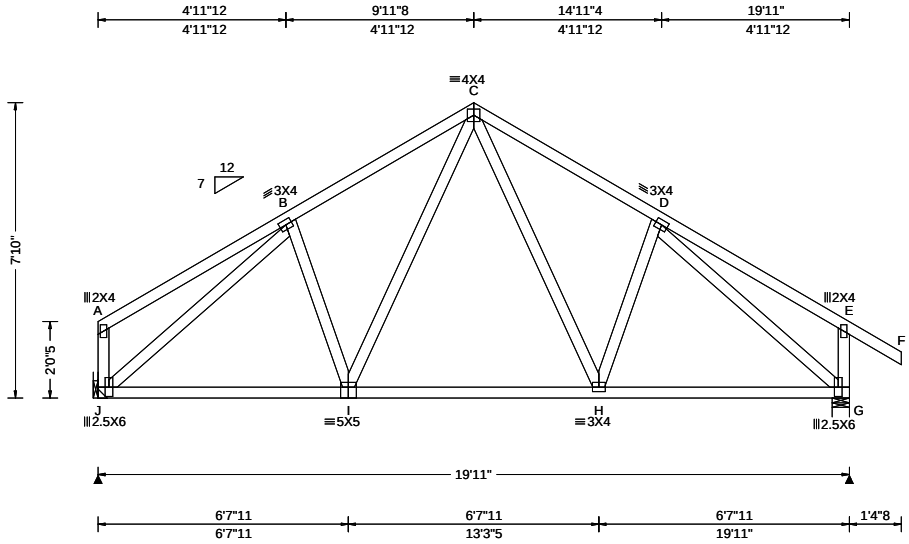
| | | | |
|---|---|---|---|
| SEQN: 344140 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** D01 | Cust: R 215 JRef:1XcL2150006 T16<br>DrwNo: 028.22.1004.51093<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.023 | I | 999 | 240 |
| VERT(CL): 0.044 | I | 999 | 180 |
| HORZ(LL): 0.013 | E | - | - |
| HORZ(TL): 0.025 | E | - | - |

Creep Factor: 2.0
Max TC CSI: 0.296
Max BC CSI: 0.469
Max Web CSI: 0.867

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| J | 888 | /- | /- | /462 | /10 | /174 |
| G | 988 | /- | /- | /540 | /15 | /- |

Wind reactions based on MWFRS
J Brg Width = - Min Req = -
G Brg Width = 5.5 Min Req = 1.5
Bearing G is a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| B - C | 283 | - 945 | C - D | 275 | - 940 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| J - I | 771 | - 104 | H - G | 762 | - 104 |
| I - H | 618 | - 30 | | | |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| J - B | 166 | - 1026 | D - G | 140 | - 1023 |

**Lumber**

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

**Hangers / Ties**

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

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

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

Bearing at location x=0' uses the following support conditions: 0'
Bearing J (0', 9'1"2) LUS26
Supporting Member: (1)2x6 SP 2400f-2.0E
(4) 0.148"x3" nails into supporting member,
(3) 0.148"x3" nails into supported member.

**Loading**

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

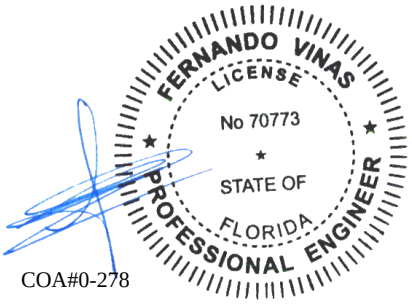
**Wind**

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

End verticals not exposed to wind pressure.

**Additional Notes**

The overall height of this truss excluding overhang is 7-10-0.




COA#0-278

01/28/2022

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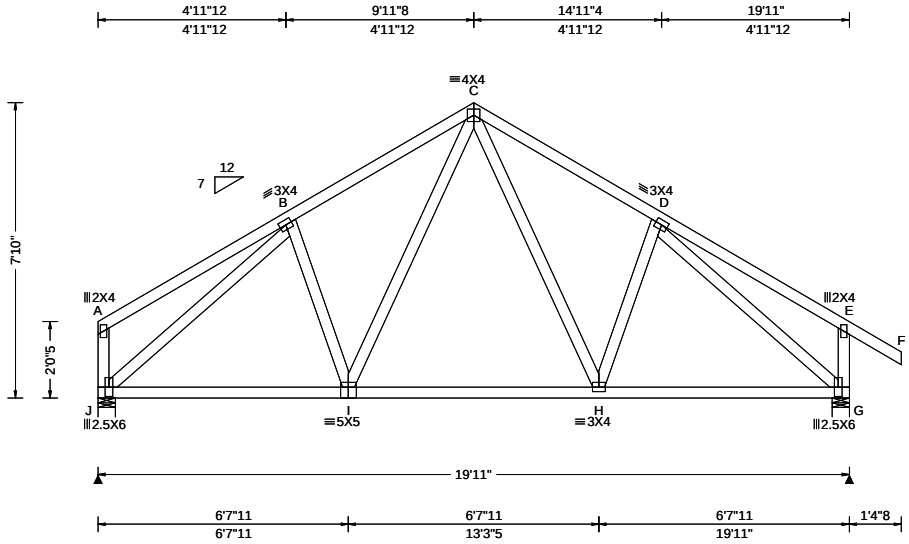
| | | | |
|---|---|---|---|
| SEQN: 344141 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** D02 | Cust: R 215 JRef:1XcL2150006 T13 /<br>DrwNo: 028.22.1004.51890<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.019 | I | 999 | 240 |
| VERT(CL): 0.039 | I | 999 | 180 |
| HORZ(LL): 0.011 | E | - | - |
| HORZ(TL): 0.023 | E | - | - |

Creep Factor: 2.0
Max TC CSI: 0.297
Max BC CSI: 0.456
Max Web CSI: 0.776

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| J | 825 | /- | /- | /462 | /10 | /174 |
| G | 924 | /- | /- | /540 | /15 | /- |

Wind reactions based on MWFRS
J Brg Width = 5.5 Min Req = 1.5
G Brg Width = 5.5 Min Req = 1.5
Bearings J & 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 | 283 | - 847 | C - D | 275 | - 841 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| J - I | 694 | - 104 | H - G | 685 | - 104 |
| I - H | 555 | - 30 | | | |

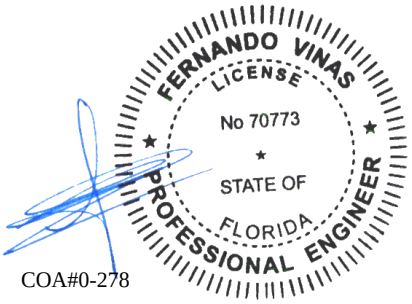
**Maximum Web Forces Per Ply (lbs)**

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| J - B | 166 | - 918 | D - G | 140 | - 914 |

**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.
End verticals not exposed to wind pressure.

**Additional Notes**
The overall height of this truss excluding overhang is 7-10-0.




COA#0-278

01/28/2022

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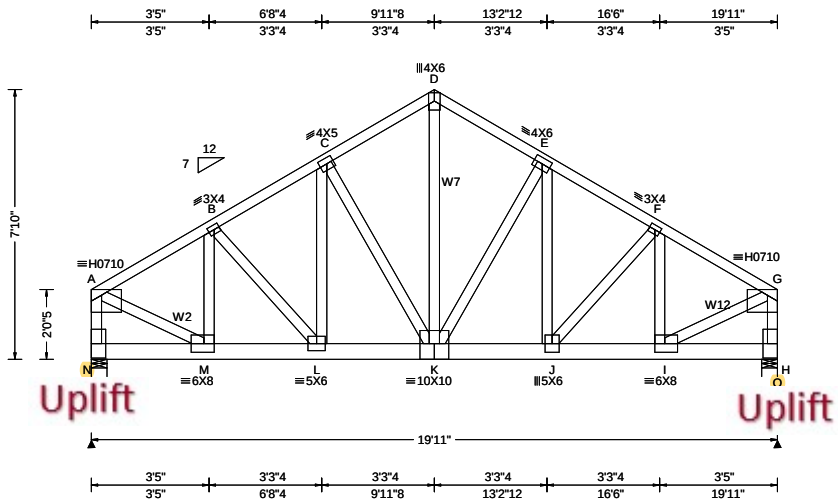
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 406376 / COMN<br>FROM: CDM | Ply: 2<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** D03 | Cust: R 215 JRef:1XcL2150006 T15 /<br>DrwNo: 028.22.1004.52968<br>/ YK 01/28/2022 |

**2 Complete Trusses Required**




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 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 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
HS, WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.092 | J | 999 | 240 |
| VERT(CL): 0.183 | J | 999 | 180 |
| HORZ(LL): 0.034 | B | - | - |
| HORZ(TL): 0.067 | B | - | - |

Creep Factor: 2.0
Max TC CSI: 0.389
Max BC CSI: 0.357
Max Web CSI: 0.920

VIEW Ver: 21.01.01A.0521.20

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| N | 8089 | /- | /- | /- | /1395 | /- |
| O | 8680 | /- | /- | /- | /1436 | /- |

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 3.3
O Brg Wid = 5.5 Min Req = 3.6
Bearings N & O are a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| A - B | 699 | - 4054 | D - E | 605 | - 3569 |
| B - C | 726 | - 4234 | E - F | 724 | - 4322 |
| C - D | 605 | - 3569 | F - G | 712 | - 4275 |

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

| Chords | Tens. | Comp. | Chords | Tens. | Comp. |
|---|---|---|---|---|---|
| M - L | 3500 | - 600 | K - J | 3657 | - 609 |
| L - K | 3586 | - 610 | J - I | 3678 | - 610 |

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

| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| A - N | 662 | - 3805 | K - E | 187 | - 1173 |
| A - M | 3867 | - 661 | E - J | 1320 | - 186 |
| L - C | 1155 | - 190 | I - G | 4077 | - 673 |
| C - K | 190 | - 1032 | G - H | 673 | - 4011 |
| D - K | 3430 | - 553 | | | |

**Lumber**
Top chord: 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2,W7,W12 2x4 SP #2;

**Nailnote**
Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

**Special Loads**
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at 0.00 to 63 plf at 19.92
BC: From 10 plf at 0.00 to 10 plf at 19.92
BC: 1623 lb Conc. Load at 2.02, 4.02, 6.02, 8.02 10.02
BC: 1607 lb Conc. Load at 12.06
BC: 1748 lb Conc. Load at 14.06
BC: 1921 lb Conc. Load at 16.06,18.06

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

**Additional Notes**
The overall height of this truss excluding overhang is 7-10-0.

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COA#0-278

01/28/2022

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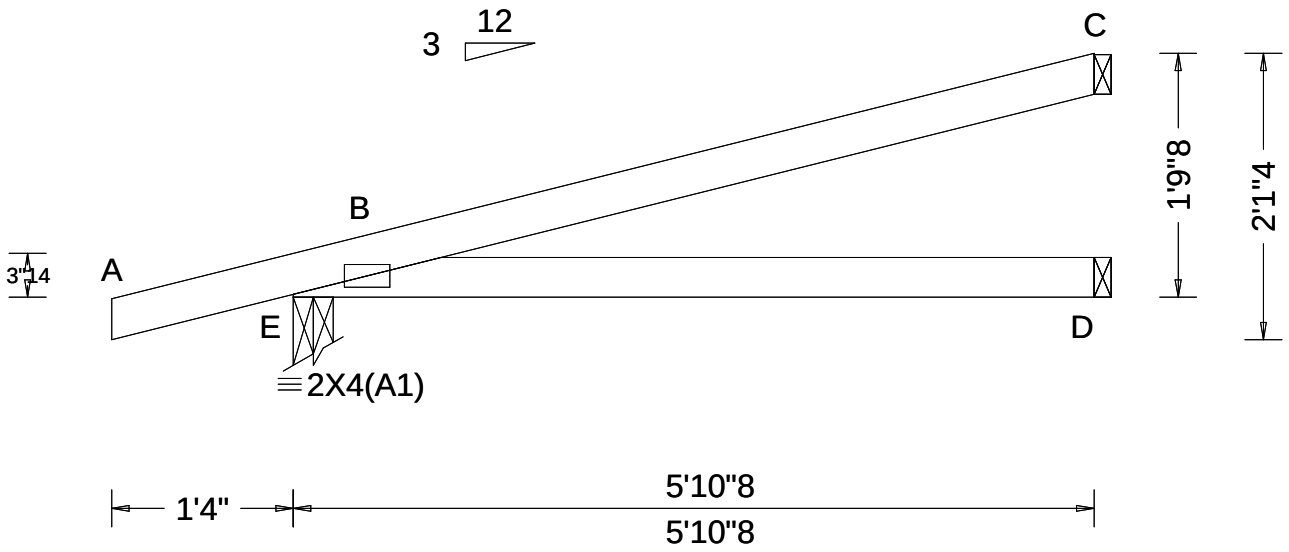
| | | | |
|---|---|---|---|
| SEQN: 344143 / MONO<br>FROM: CDM | Ply: 1<br>Qty: 17 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** E01 | Cust: R 215 JRef:1XcL2150006 T41 /<br>DrwNo: 028.22.1004.51594<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): | NA | | |
| VERT(CL): | NA | | |
| HORZ(LL): | 0.009 D | - | - |
| HORZ(TL): | 0.017 D | - | - |

Creep Factor: 2.0
Max TC CSI: 0.432
Max BC CSI: 0.318
Max Web CSI: 0.000

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| E | 341 | /- | /- | /187 | /83 | /51 |
| D | 104 | /- | /- | /70 | /- | /- |
| C | 148 | /- | /- | /45 | /45 | /- |

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

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

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

**Additional Notes**
The overall height of this truss excluding overhang is 1-9-8.

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COA#0-278

01/28/2022

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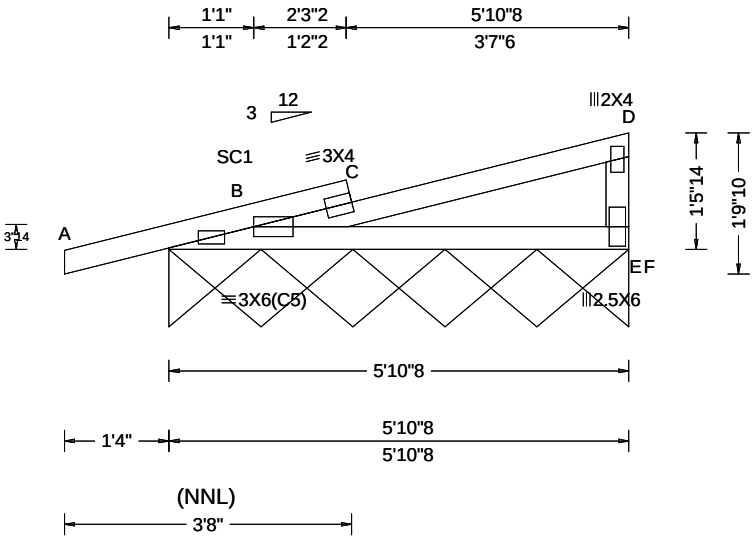
| | | | |
|---|---|---|---|
| SEQN: 344144 / GABL<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** E02 | Cust: R 215 JRef:1XcL2150006 T23 /<br>DrwNo: 028.22.1004.51797<br>KD / WHK 01/28/2022 |




| **Loading Criteria** (psf) | **Wind Criteria** | **Snow Criteria** (Pg,Pf in PSF) | **Defl/CSI Criteria** |
|---|---|---|---|
| TCLL: 20.00 | Wind Std: ASCE 7-10 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.049 C 999 240 |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.094 C 710 180 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): -0.007 D - - |
| Des Ld: 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.013 D - - |
| NCBCLL: 10.00 | Mean Height: 15.00 ft | Building Code: | Creep Factor: 2.0 |
| Soffit: 2.00 | TCDL: 5.0 psf | FBC 2017 RES | Max TC CSI: 0.355 |
| Load Duration: 1.25 | BCDL: 5.0 psf | TPI Std: 2014 | Max BC CSI: 0.313 |
| Spacing: 24.0 " | MWFRS Parallel Dist: 0 to h/2 | Rep Fac: Yes | Max Web CSI: 0.138 |
| | 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: 20.02.01A.1209.11 |
| | Wind Duration: 1.60 | | |

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| F* | 95 | /- | /- | /51 | /19 | /9 |

Wind reactions based on MWFRS
F Brg Width = 70.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. |
|---|---|---|
| B - C | 341 | -394 |

**Lumber**

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

**Plating Notes**

All plates are 2X4(C5) except as noted.

**Purlins**

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

**Wind**

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

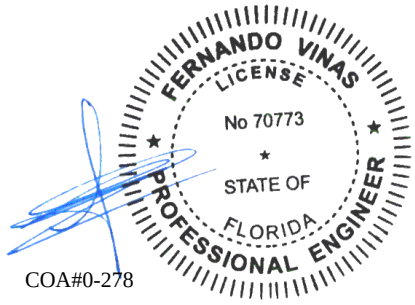
Right end vertical not exposed to wind pressure.

**Additional Notes**

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

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

The overall height of this truss excluding overhang is 1-5-14.




COA#0-278

01/28/2022

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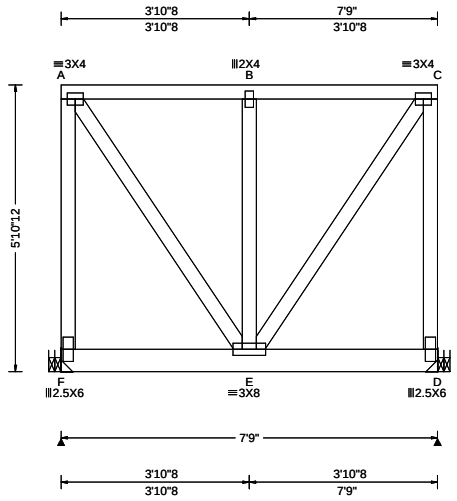
| | | | |
|---|---|---|---|
| SEQN: 417999 / FLAT<br>FROM: CDM<br>Page 1 of 2 | Ply: 2<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** FTG01 | Cust: R 215 JRef:1XcL2150006 T48<br>DrwNo: 028.22.1004.53235<br>AK / FV 01/28/2022 |

**2 Complete Trusses Required**




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 22.03 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

**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 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.005 | B | 999 | 240 |
| VERT(CL): 0.009 | B | 999 | 180 |
| HORZ(LL): 0.001 | A | - | - |
| HORZ(TL): 0.001 | A | - | - |

Creep Factor: 2.0
Max TC CSI: 0.058
Max BC CSI: 0.166
Max Web CSI: 0.128

VIEW Ver: 21.01.01A.0521.20

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| F | 775 | /- | /- | /- | /190 | /- |
| D | 755 | /- | /- | /- | /186 | /- |

Wind reactions based on MWFRS
F Brg Wid = -
D Brg Wid = -
Members not listed have forces less than 375#

**Lumber**

Top chord: 2x4 SP #2;
Bot chord: 2x6 SP #2;
Webs: 2x4 SP #3;

**Nailnote**

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

**Special Loads**

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 30 plf at 0.00 to 30 plf at 7.75
BC: From 10 plf at 0.00 to 10 plf at 7.75
BC: 406 lb Conc. Load at 1.81, 3.81, 5.81

**Purlins**

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

**Wind**

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

**Additional Notes**

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 5-10-12.

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COA#0-278

01/28/2022

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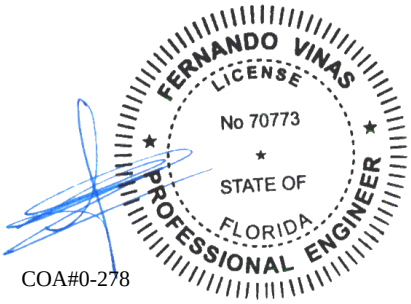
**Hangers / Ties**

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

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

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

Bearing at location x=0' uses the following support conditions: 0'
Bearing F (0', 16'1"8) LUS26-2
Supporting Member: (2)2x6 SP #2
(4) 0.148"x3" nails into supporting member,
(3) 0.148"x3" nails into supported member.
Bearing D (7'6", 16'1"8) LUS26-2
Supporting Member: (2)2x6 SP #2
(4) 0.148"x3" nails into supporting member,
(3) 0.148"x3" nails into supported member.




COA#0-278

01/28/2022

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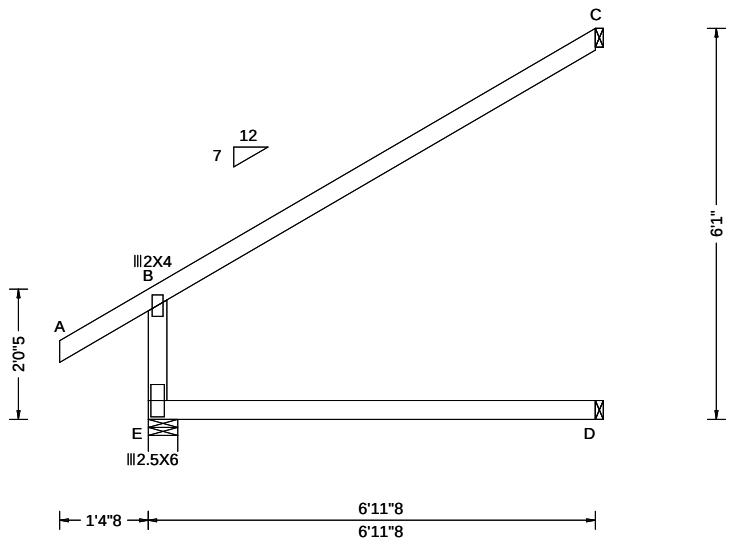
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 344147 / EJAC<br>FROM: CDM | Ply: 1<br>Qty: 7 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** J01 | Cust: R 215 JRef:1XcL2150006 T22 /<br>DrwNo: 028.22.1004.51765<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

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

Creep Factor: 2.0
Max TC CSI: 0.905
Max BC CSI: 0.600
Max Web CSI: 0.080

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| E | 423 | /- | /- | /304 | /120 | /- |
| D | 170 | /- | /- | /93 | /- | /- |
| C | 211 | /- | /- | /83 | /9 | /138 |

Wind reactions based on MWFRS
E Brg Width = 5.5 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Loading**

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

**Wind**

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

Left end vertical not exposed to wind pressure.

**Additional Notes**

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

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COA#0-278

01/28/2022

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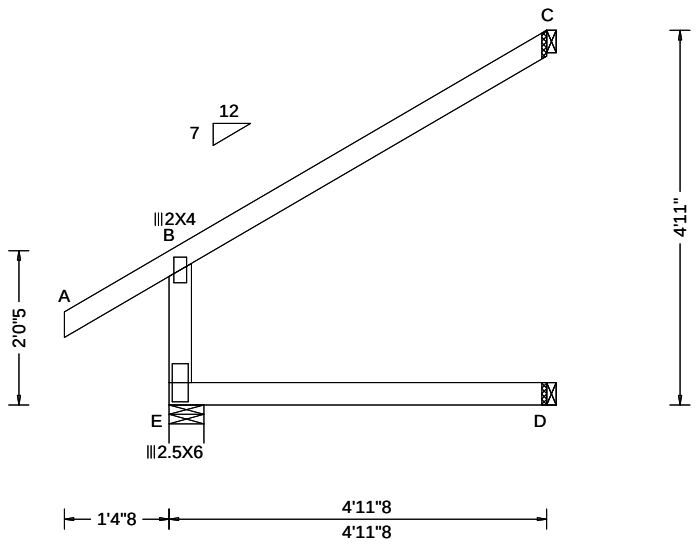
| | | | |
|---|---|---|---|
| SEQN: 344148 / JACK<br>FROM: CDM | Ply: 1<br>Qty: 5 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** J02 | Cust: R 215 JRef:1XcL2150006 T18 /<br>DrwNo: 028.22.1004.51686<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

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

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.293
Max Web CSI: 0.073

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| E | 312 | /- | /- | /248 | /98 | /- |
| D | 99 | /- | /- | /66 | /- | /- |
| C | 144 | /- | /- | /65 | /1 | /105 |

Wind reactions based on MWFRS
E Brg Width = 5.5 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Wind**

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

Left end vertical not exposed to wind pressure.

**Additional Notes**

The overall height of this truss excluding overhang is 4-11-0.

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COA#0-278

01/28/2022

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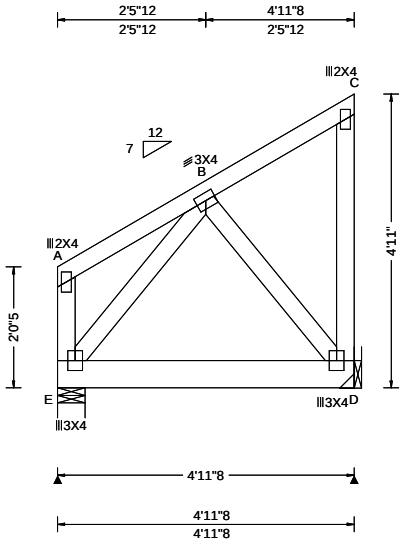
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 344149 / JACK<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** J02A | Cust: R 215 JRef:1XcL2150006 T42 /<br>DrwNo: 028.22.1004.51923<br>KD / WHK 01/28/2022 |




| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria |
|---|---|---|---|
| TCLL: 20.00 | Wind Std: ASCE 7-10 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.001 B 999 240 |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.001 B 999 180 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.000 B - - |
| Des Ld: 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.000 B - - |
| NCBCLL: 10.00 | Mean Height: 15.00 ft | Building Code: | Creep Factor: 2.0 |
| Soffit: 2.00 | TCDL: 5.0 psf | FBC 2017 RES | Max TC CSI: 0.111 |
| Load Duration: 1.25 | BCDL: 5.0 psf | TPI Std: 2014 | Max BC CSI: 0.671 |
| Spacing: 24.0 " | MWFRS Parallel Dist: 0 to h/2 | Rep Fac: Varies by Ld Case | Max Web CSI: 0.158 |
| | C&C Dist a: 3.00 ft | FT/RT:20(0)/10(0) | |
| | Loc. from endwall: not in 9.00 ft | Plate Type(s): | |
| | GCpi: 0.18 | WAVE | VIEW Ver: 20.02.01A.1209.11 |
| | Wind Duration: 1.60 | | |

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| E | 1233 | /- | /- | /- | /63 | /- |
| D | 905 | /- | /- | /- | /59 | /- |

Wind reactions based on MWFRS
E Brg Width = 5.5 Min Req = 1.5
D Brg Width = - Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Special Loads**

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at 0.00 to 63 plf at 4.96
BC: From 10 plf at 0.00 to 10 plf at 4.96
BC: 888 lb Conc. Load at 1.02, 3.02

**Hangers / Ties**

(J) Hanger Support Required, by others

**Wind**

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

**Additional Notes**

The overall height of this truss excluding overhang is 4-11-0.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

COA#0-278

01/28/2022

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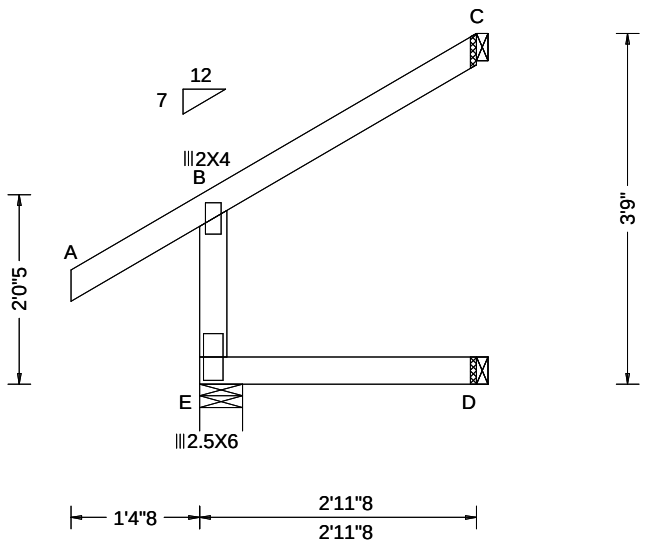
| | | | |
|---|---|---|---|
| SEQN: 344150 / JACK<br>FROM: CDM | Ply: 1<br>Qty: 6 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** J03 | Cust: R 215 JRef:1XcL2150006 T17 /<br>DrwNo: 028.22.1004.51424<br>KD / WHK 01/28/2022 |




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

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

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

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

**Defl/CSI Criteria**

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

Creep Factor: 2.0
Max TC CSI: 0.143
Max BC CSI: 0.096
Max Web CSI: 0.065

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| E | 238 | /- | /- | /198 | /77 | /- |
| D | 59 | /- | /- | /40 | /- | /- |
| C | 72 | /- | /- | /48 | /8 | /72 |

Wind reactions based on MWFRS
E Brg Width = 5.5 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

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

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

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

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COA#0-278
01/28/2022

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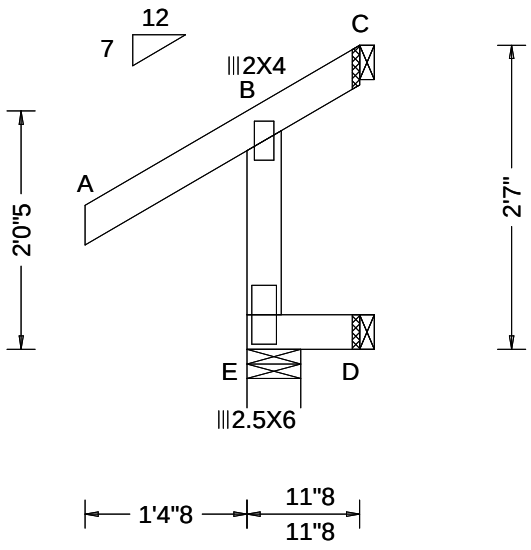
| | | | |
|---|---|---|---|
| SEQN: 344151 / JACK<br>FROM: CDM | Ply: 1<br>Qty: 6 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** J04 | Cust: R 215 JRef:1XcL2150006 T3 /<br>DrwNo: 028.22.1004.51425<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

**Defl/CSI Criteria**

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

Creep Factor: 2.0
Max TC CSI: 0.136
Max BC CSI: 0.009
Max Web CSI: 0.066

VIEW Ver: 20.02.01A.1209.11

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| E | 200 | /- | /- | /181 | /70 | /- |
| D | 19 | /- | /- | /13 | /- | /- |
| C | - | /-37 | /- | /46 | /64 | /38 |

Wind reactions based on MWFRS
E Brg Width = 5.5 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Wind**

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

Left end vertical not exposed to wind pressure.

**Additional Notes**

The overall height of this truss excluding overhang is 2-7-0.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

COA#0-278

01/28/2022

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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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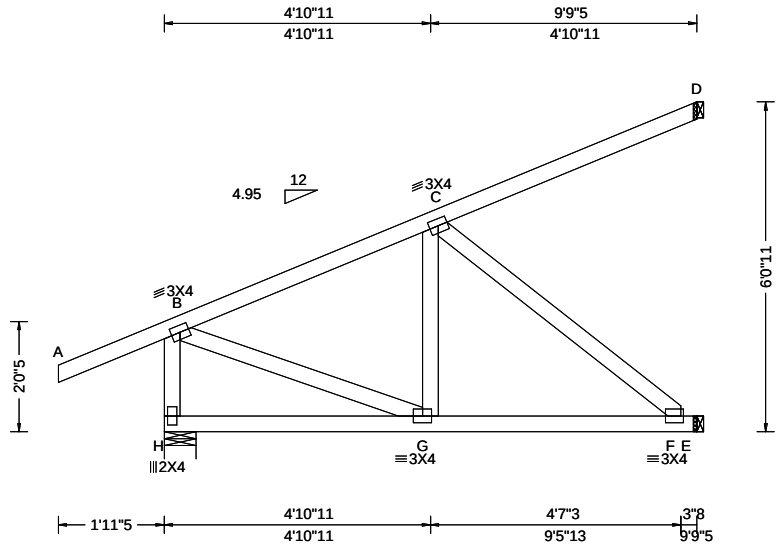
6750 Forum Drive
Suite 305
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 398219 / HIP_<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** J05HJ | Cust: R 215 JRef:1XcL2150006 T25 /<br>DrwNo: 028.22.1004.52468<br>/ YK 01/28/2022 |




**Loading Criteria** (psf)

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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
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 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.010 | F | 999 | 240 |
| VERT(CL): 0.021 | F | 999 | 180 |
| HORZ(LL): 0.005 | C | - | - |
| HORZ(TL): 0.009 | C | - | - |

Creep Factor: 2.0
Max TC CSI: 0.681
Max BC CSI: 0.457
Max Web CSI: 0.317

VIEW Ver: 21.01.01A.0521.20

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| H | 435 | /- | /- | /- | /86 | /- |
| E | 359 | /- | /- | /- | /4 | /- |
| D | 261 | /- | /- | /- | /97 | /- |

Wind reactions based on MWFRS
H Brg Width = 7.0 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. |
|---|---|---|
| B - C | 65 | -406 |

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

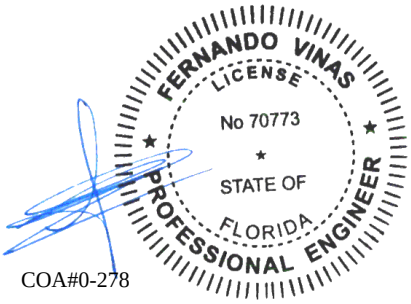
| Webs | Tens. | Comp. | Webs | Tens. | Comp. |
|---|---|---|---|---|---|
| H - B | 89 | -436 | C - F | 77 | -459 |

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

**Loading**
Hipjack supports 6-11-0 setback jacks with no webs.

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

**Additional Notes**
The overall height of this truss excluding overhang is 6-0-11.




COA#0-278

01/28/2022

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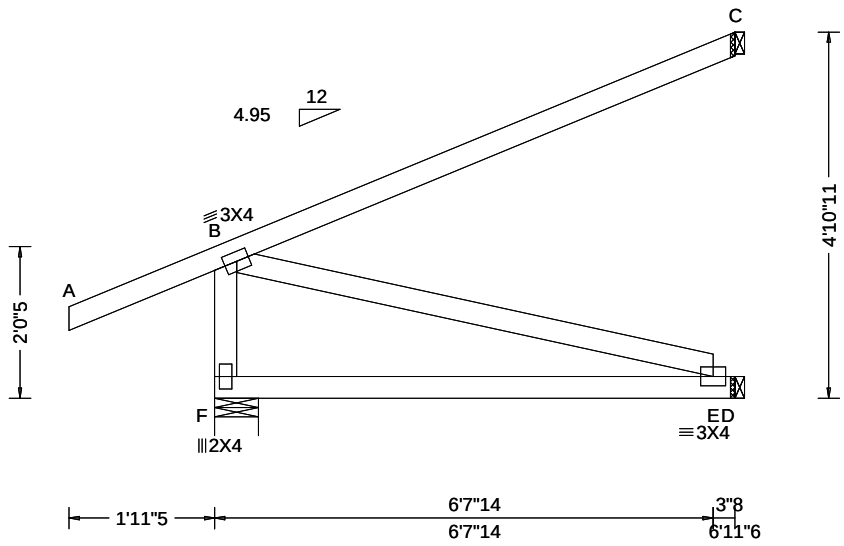
| | | | |
|---|---|---|---|
| SEQN: 398221 / HIP_<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** J06HJ | Cust: R 215 JRef:1XcL2150006 T20 /<br>DrwNo: 028.22.1004.52500<br>/ YK 01/28/2022 |




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
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 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.008 | E | 999 | 240 |
| VERT(CL): 0.016 | E | 999 | 180 |
| HORZ(LL): 0.002 | B | - | - |
| HORZ(TL): 0.005 | B | - | - |

Creep Factor: 2.0
Max TC CSI: 0.741
Max BC CSI: 0.278
Max Web CSI: 0.118

VIEW Ver: 21.01.01A.0521.20

**▲Maximum Reactions (lbs)**

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| F | 281 | /- | /- | /- | /61 | /- |
| D | 80 | /- | /- | /36 | /- | /- |
| C | 215 | /- | /- | /- | /82 | /- |

Wind reactions based on MWFRS
F Brg Width = 7.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

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

**Loading**
Hipjack supports 4-11-0 setback jacks with no webs.

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

**Additional Notes**
The overall height of this truss excluding overhang is 4-10-11.

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COA#0-278

01/28/2022

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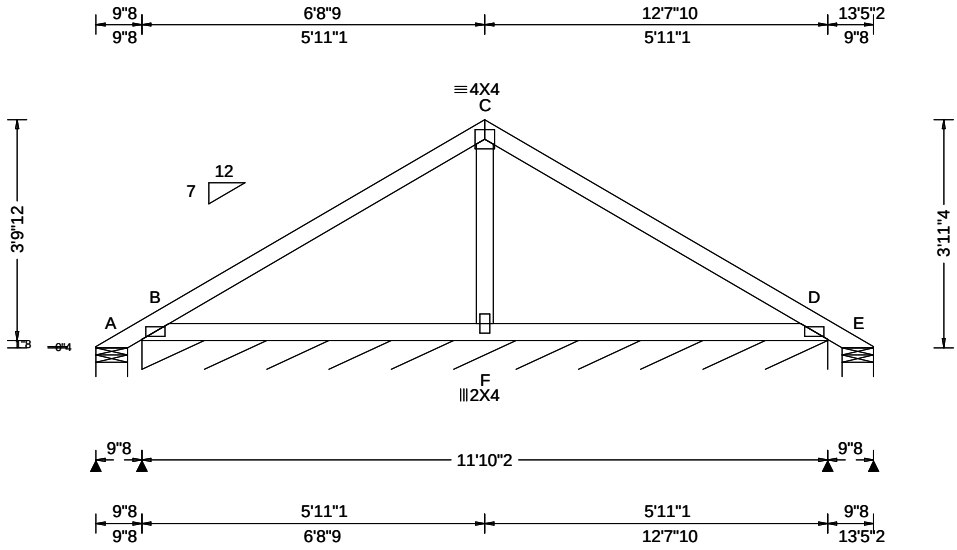
| | | | |
|---|---|---|---|
| SEQN: 353615 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 16 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** PB01 | Cust: R 215 JRef:1XcL2150006 T7 /<br>DrwNo: 028.22.1004.51423<br>KD / WHK 01/28/2022 |




| **Loading Criteria** (psf) | **Wind Criteria** | **Snow Criteria** (Pg,Pf in PSF) | **Defl/CSI Criteria** |
|---|---|---|---|
| TCLL: 20.00 | Wind Std: ASCE 7-10 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.006 F 999 240 |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.013 F 999 180 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): -0.004 F - - |
| Des Ld: 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.009 F - - |
| NCBCLL: 10.00 | Mean Height: 17.99 ft | Building Code: | Creep Factor: 2.0 |
| Soffit: 2.00 | TCDL: 5.0 psf | FBC 2017 RES | Max TC CSI: 0.424 |
| Load Duration: 1.25 | BCDL: 5.0 psf | TPI Std: 2014 | Max BC CSI: 0.362 |
| Spacing: 24.0 " | MWFRS Parallel Dist: h/2 to h | Rep Fac: Yes | Max Web CSI: 0.024 |
| | C&C Dist a: 3.00 ft | FT/RT:20(0)/10(0) | |
| | Loc. from endwall: not in 13.00 ft | Plate Type(s): | |
| | GCpi: 0.18 | WAVE | VIEW Ver: 20.02.01A.1209.11 |
| | Wind Duration: 1.60 | | |

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A | - | /-308 | /- | /99 | /208 | /104 |
| B* | 171 | /- | /- | /59 | /24 | /- |
| E | - | /-308 | /- | /88 | /157 | /- |

Wind reactions based on MWFRS
A Brg Width = 6.5 Min Req = 1.5
B Brg Width = 142 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**

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

**Purlins**

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

**Wind**

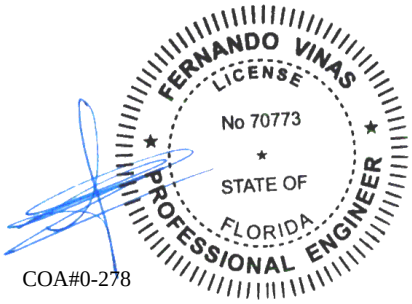
Wind loads based on MWFRS with additional C&C member design.

**Additional Notes**

Negative reaction(s) of -308# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 3-11-4.




COA#0-278

01/28/2022

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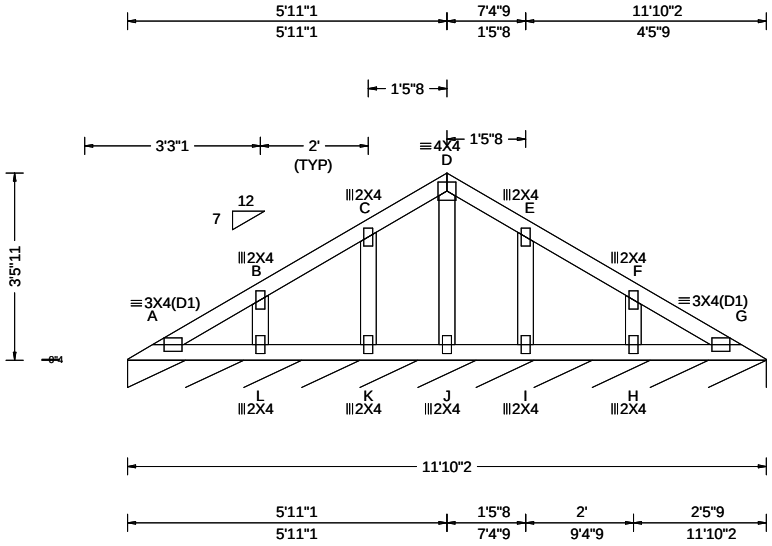
| | | | |
|---|---|---|---|
| SEQN: 344157 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** PB02 | Cust: R 215 JRef:1XcL2150006 T43 /<br>DrwNo: 028.22.1004.51671<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 17.99 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 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

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

Creep Factor: 2.0
Max TC CSI: 0.079
Max BC CSI: 0.059
Max Web CSI: 0.027

VIEW Ver: 20.02.01A.1209.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A* | 105 | /- | /- | /41 | /- | /- |

Wind reactions based on MWFRS
A Brg Width = 142 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Loading**

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

**Purlins**

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

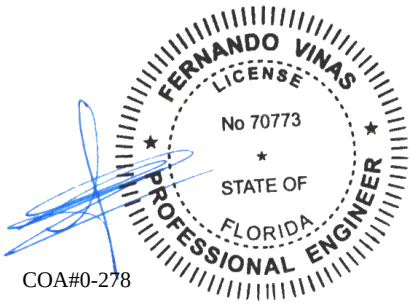
**Wind**

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

**Additional Notes**

Refer to DWG PB160101014 for piggyback details.

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




COA#0-278

01/28/2022

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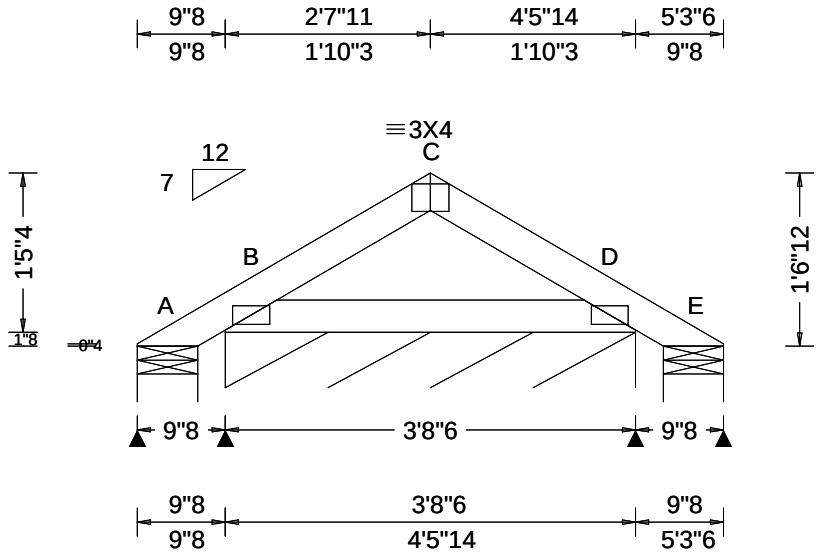
| | | | |
|---|---|---|---|
| SEQN: 344158 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 10 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** PB03 | Cust: R 215 JRef:1XcL2150006 T24 /<br>DrwNo: 028.22.1004.51639<br>KD / WHK 01/28/2022 |




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.41 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

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

Creep Factor: 2.0
Max TC CSI: 0.040
Max BC CSI: 0.123
Max Web CSI: 0.000

VIEW Ver: 20.02.01A.1209.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A | 9 | /- | /- | /20 | /17 | /38 |
| B* | 154 | /- | /- | /52 | /8 | /- |
| E | 9 | /- | /- | /3 | /3 | /- |

Wind reactions based on MWFRS
A Brg Width = 6.5 Min Req = 1.5
B Brg Width = 44.4 Min Req = -
E Brg Width = 6.5 Min Req = 1.5
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

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

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

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

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

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

**Additional Notes**
Refer to DWG PB160101014 for piggyback details.
The overall height of this truss excluding overhang is 1-6-12.

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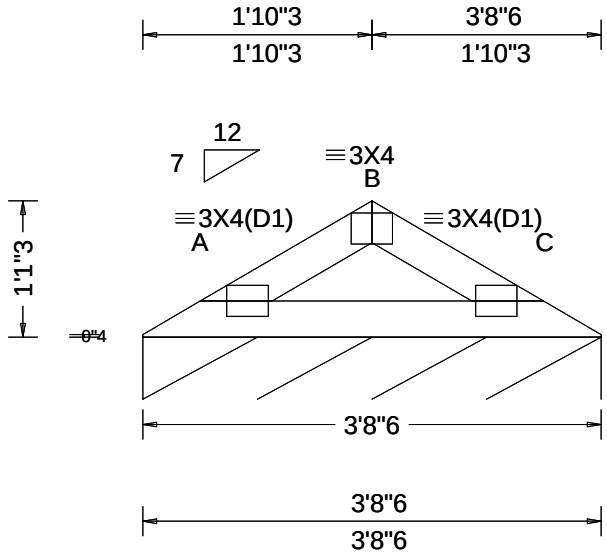
| | | | |
|---|---|---|---|
| SEQN: 344159 / COMN<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** PB04 | Cust: R 215 JRef:1XcL2150006 T10<br>DrwNo: 028.22.1004.51983<br>KD / WHK 01/28/2022 |




| **Loading Criteria** (psf) | **Wind Criteria** | **Snow Criteria** (Pg,Pf in PSF) | **Defl/CSI Criteria** |
|---|---|---|---|
| TCLL: 20.00 | Wind Std: ASCE 7-10 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.004 999 240 |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.009 999 180 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): -0.001 - - |
| Des Ld: 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.003 - - |
| NCBCLL: 10.00 | Mean Height: 16.41 ft | Building Code: | Creep Factor: 2.0 |
| Soffit: 2.00 | TCDL: 5.0 psf | FBC 2017 RES | Max TC CSI: 0.104 |
| Load Duration: 1.25 | BCDL: 5.0 psf | TPI Std: 2014 | Max BC CSI: 0.137 |
| 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: 20.02.01A.1209.11 |
| | Wind Duration: 1.60 | | |

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| A* | 107 | /- | /- | /37 | /- | /- |

Wind reactions based on MWFRS
A Brg Width = 44.4 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Loading**

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

**Purlins**

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

**Wind**

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

**Additional Notes**

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 1-2-11.

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COA#0-278

01/28/2022

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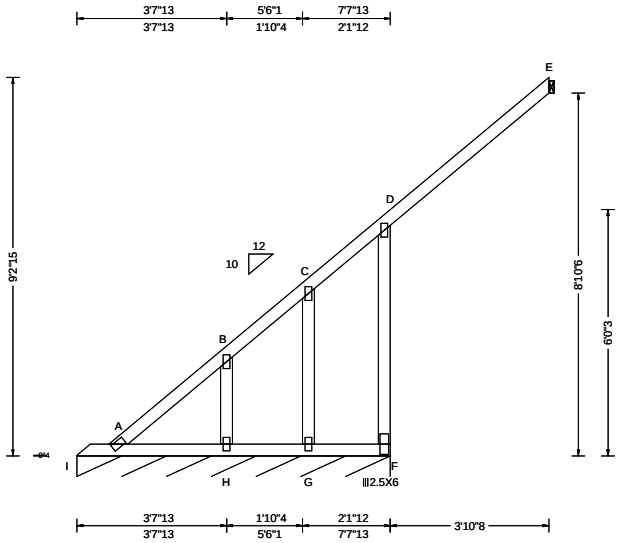
| | | | |
|---|---|---|---|
| SEQN: 353638 / VAL<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** V01 | Cust: R 215 JRef:1XcL2150006 T36 /<br>DrwNo: 028.22.1004.53077<br>AK / FV 01/28/2022 |




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 18.96 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.001 | D | 999 | 240 |
| VERT(CL): 0.003 | D | 999 | 180 |
| HORZ(LL): -0.007 | D | - | - |
| HORZ(TL): 0.008 | D | - | - |

Creep Factor: 2.0
Max TC CSI: 0.206
Max BC CSI: 0.068
Max Web CSI: 0.160

VIEW Ver: 20.02.01A.1209.11

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

| | | Gravity | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| F* | 103 | /- | /- | /69 | /16 | /39 |
| E | 106 | /- | /- | /71 | /70 | /- |

Wind reactions based on MWFRS
F Brg Wid = 91.8 Min Req = -
E Brg Wid = 1.5
Bearing I is a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. |
|---|---|---|
| A - B | 132 | -453 |

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

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

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

**Additional Notes**
See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 9-2-15.
See DWGS A16030ENC101014 & GBLLETIN0118 for more requirements.

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01/28/2022

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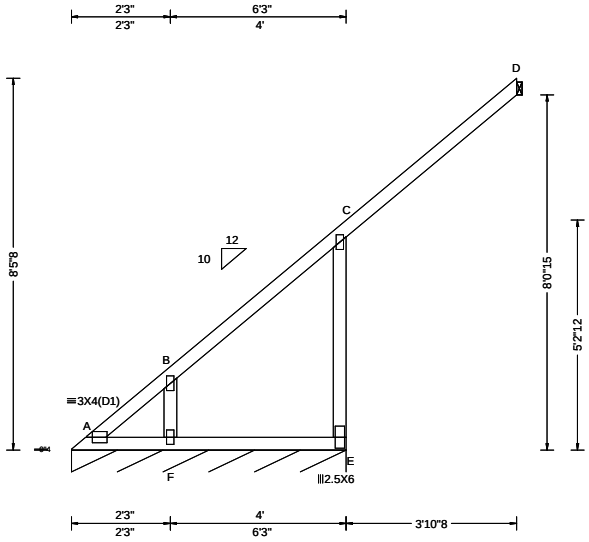
| | | | |
|---|---|---|---|
| SEQN: 353620 / VAL<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** V02 | Cust: R 215 JRef:1XcL2150006 T35 /<br>DrwNo: 028.22.1004.53139<br>AK / FV 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 19.74 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): | 0.001 C | 999 | 240 |
| VERT(CL): | 0.003 C | 999 | 180 |
| HORZ(LL): | -0.007 C | - | - |
| HORZ(TL): | 0.008 C | - | - |

Creep Factor: 2.0
Max TC CSI: 0.267
Max BC CSI: 0.133
Max Web CSI: 0.143

VIEW Ver: 20.02.01A.1209.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| E* | 111 | /- | /- | /74 | /19 | /45 |
| D | 99 | /- | /- | /66 | /68 | /- |

Wind reactions based on MWFRS
E Brg Wid = 75.0 Min Req = -
D Brg Wid = 1.5
Bearing A is a rigid surface.
Members not listed have forces less than 375#

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

| Chords | Tens. | Comp. |
|---|---|---|
| A - B | 119 | -422 |

**Lumber**

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

**Plating Notes**

All plates are 2X4 except as noted.

**Wind**

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

**Additional Notes**

See DWG VAL160101014 for valley details.

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

See DWGS A16030ENC101014 & GBLLETIN0118 for more requirements.

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No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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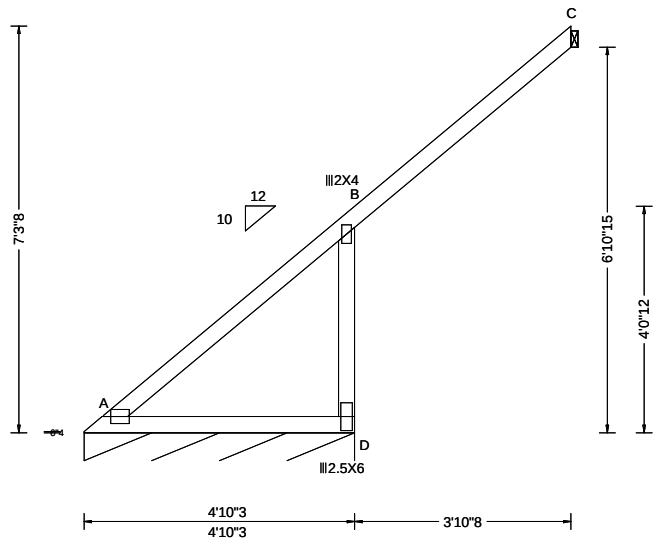
| | | | |
|---|---|---|---|
| SEQN: 353622 / VAL<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** V03 | Cust: R 215 JRef:1XcL2150006 T32 /<br>DrwNo: 028.22.1004.53202<br>AK / FV 01/28/2022 |




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 20.32 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.005 A - -
HORZ(TL): 0.009 A - -
Creep Factor: 2.0
Max TC CSI: 0.341
Max BC CSI: 0.209
Max Web CSI: 0.084

VIEW Ver: 20.02.01A.1209.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| D* | 119 | /- | /- | /78 | /21 | /50 |
| C | 92 | /- | /- | /62 | /70 | /- |

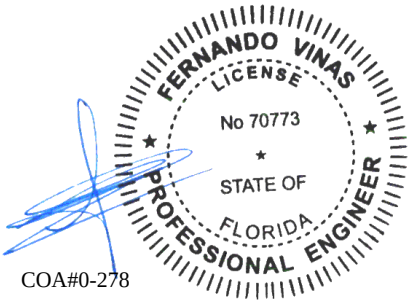
Wind reactions based on MWFRS
D Brg Wid = 58.2 Min Req = -
C Brg Wid = 1.5
Bearing A is a rigid surface.
Members not listed have forces less than 375#

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

**Plating Notes**
All plates are 3X4(D1) except as noted.

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

**Additional Notes**
See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 7-3-8.




COA#0-278

01/28/2022

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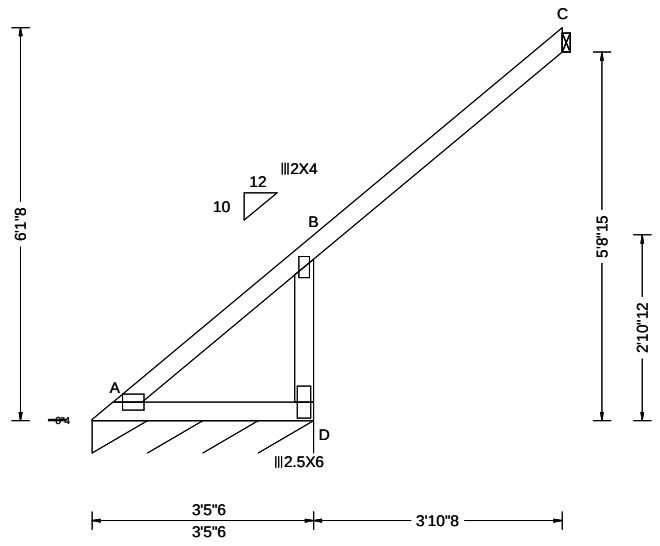
| | | | |
|---|---|---|---|
| SEQN: 353624 / VAL<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** V04 | Cust: R 215 JRef:1XcL2150006 T27 /<br>DrwNo: 028.22.1004.53045<br>AK / FV 01/28/2022 |




| **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 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C Kzt: NA<br>Mean Height: 20.91 ft<br>TCDL: 5.0 psf<br>BCDL: 5.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: not in 4.50 ft<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 2017 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): -0.003 B - -<br>HORZ(TL): 0.004 C - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.246<br>Max BC CSI: 0.096<br>Max Web CSI: 0.083<br><br>VIEW Ver: 20.02.01A.1209.11 |

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| D* | 130 | /- | /- | /81 | /21 | /60 |
| C | 101 | /- | /- | /68 | /76 | /- |

Wind reactions based on MWFRS
D Brg Wid = 41.4 Min Req = -
C Brg Wid = 1.5
Bearing A is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Plating Notes**

All plates are 3X4(D1) except as noted.

**Wind**

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

**Additional Notes**

See DWG VAL160101014 for valley details.

The overall height of this truss excluding overhang is 6-1-8.

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COA#0-278

01/28/2022

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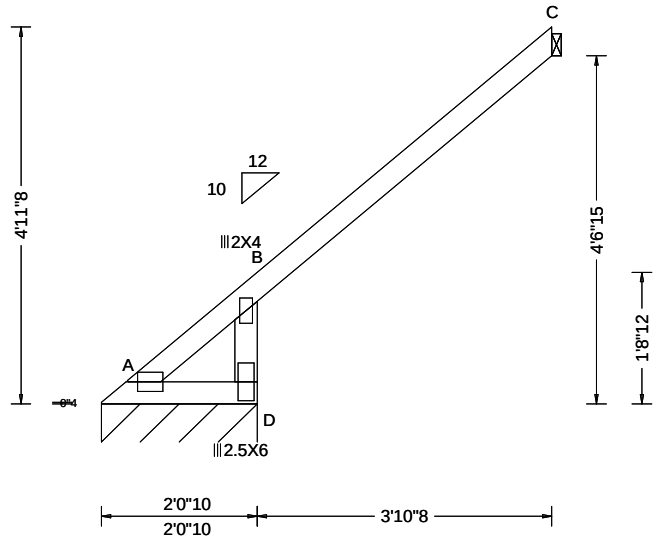
| | | | |
|---|---|---|---|
| SEQN: 353626 / VAL<br>FROM: CDM | Ply: 1<br>Qty: 2 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** V05 | Cust: R 215 JRef:1XcL2150006 T11 /<br>DrwNo: 028.22.1004.53014<br>AK / FV 01/28/2022 |




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

**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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): -0.002 C - -
HORZ(TL): 0.003 C - -
Creep Factor: 2.0
Max TC CSI: 0.220
Max BC CSI: 0.057
Max Web CSI: 0.084

VIEW Ver: 20.02.01A.1209.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| D* | 159 | /- | /- | /92 | /22 | /82 |
| C | 104 | /- | /- | /69 | /79 | /- |

Wind reactions based on MWFRS
D Brg Wid = 24.6 Min Req = -
C Brg Wid = 1.5
Bearing A is a rigid surface.
Members not listed have forces less than 375#

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

**Plating Notes**
All plates are 3X4(D1) except as noted.

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

**Additional Notes**
See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 4-11-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

COA#0-278

01/28/2022

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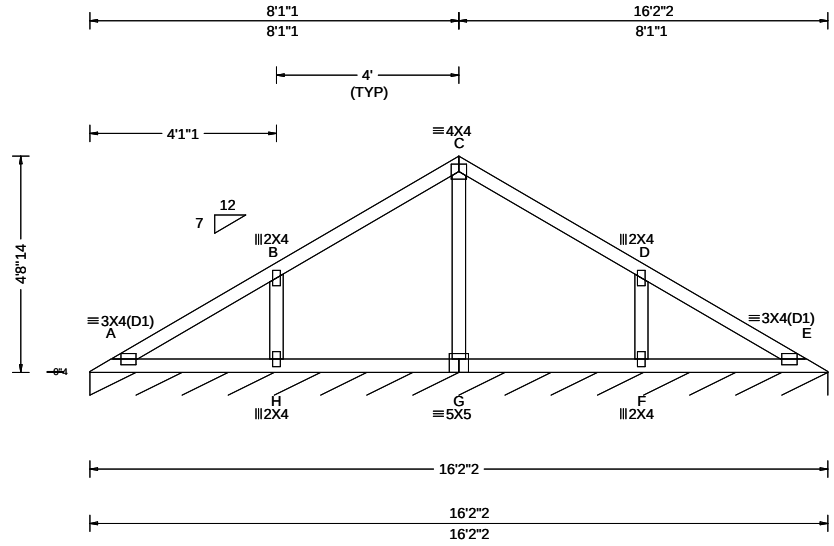
6750 Forum Drive
Suite 305
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 344166 / VAL<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** V07 | Cust: R 215 JRef:1XcL2150006 T44<br>DrwNo: 028.22.1004.51047<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): 0.005 | H | 999 | 240 |
| VERT(CL): 0.011 | H | 999 | 180 |
| HORZ(LL): 0.002 | H | - | - |
| HORZ(TL): 0.004 | H | - | - |

Creep Factor: 2.0
Max TC CSI: 0.301
Max BC CSI: 0.148
Max Web CSI: 0.102

VIEW Ver: 20.02.01A.1209.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| E* | 82 | /- | /- | /42 | /- | /7 |

Wind reactions based on MWFRS
E Brg Width = 194 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

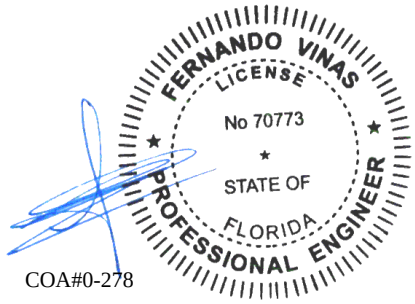
**Wind**

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

**Additional Notes**

See DWG VAL160101014 for valley details.

The overall height of this truss excluding overhang is 4-8-14.




COA#0-278

01/28/2022

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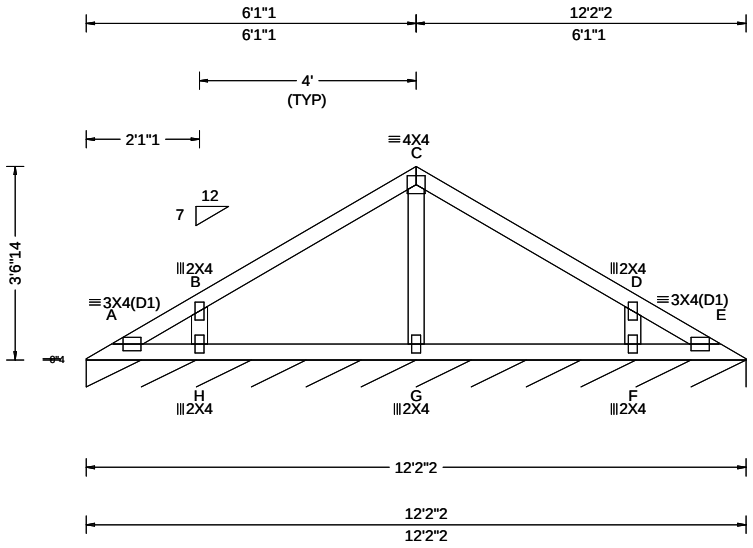
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 344167 / VAL<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** V08 | Cust: R 215 JRef:1XcL2150006 T45 /<br>DrwNo: 028.22.1004.51733<br>KD / WHK 01/28/2022 |




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.30 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

**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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

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

Creep Factor: 2.0
Max TC CSI: 0.204
Max BC CSI: 0.117
Max Web CSI: 0.048

VIEW Ver: 20.02.01A.1209.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| E* | 82 | /- | /- | /42 | /- | /7 |

Wind reactions based on MWFRS
E Brg Width = 146 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

**Wind**

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

**Additional Notes**

See DWG VAL160101014 for valley details.

The overall height of this truss excluding overhang is 3-6-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

COA#0-278

01/28/2022

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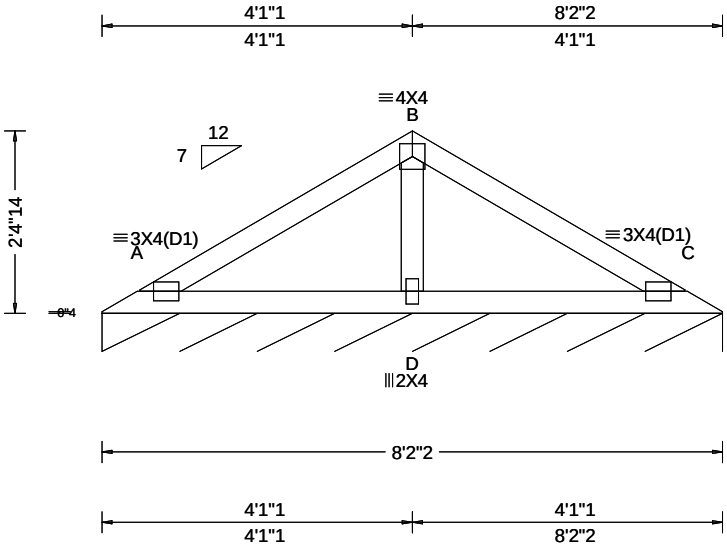
6750 Forum Drive
Suite 305
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 344168 / VAL<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** V09 | Cust: R 215 JRef:1XcL2150006 T46<br>DrwNo: 028.22.1004.51422<br>KD / WHK 01/28/2022 |




**Loading Criteria** (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.88 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

**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 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

**Defl/CSI Criteria**

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

Creep Factor: 2.0
Max TC CSI: 0.208
Max BC CSI: 0.180
Max Web CSI: 0.076

VIEW Ver: 20.02.01A.1209.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| C* | 81 | /- | /- | /41 | /- | /6 |

Wind reactions based on MWFRS
C Brg Width = 98.1 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

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

| Webs | Tens. | Comp. |
|---|---|---|
| B - D | 161 | -384 |

**Lumber**

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

**Wind**

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

**Additional Notes**

See DWG VAL160101014 for valley details.

The overall height of this truss excluding overhang is 2-4-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

COA#0-278

01/28/2022

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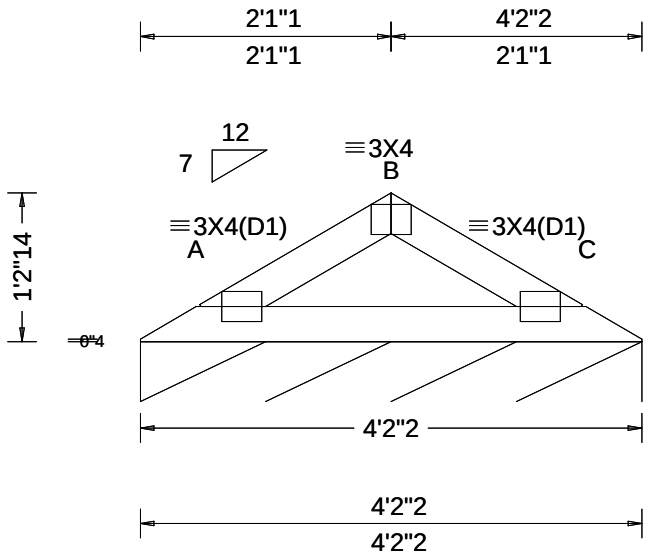
Orlando FL, 32821

| | | | |
|---|---|---|---|
| SEQN: 344169 / VAL<br>FROM: CDM | Ply: 1<br>Qty: 1 | **Job Number:** 22-6857<br>Sellers Residence (LIVE DORMER)<br>**Truss Label:** V10 | Cust: R 215 JRef:1XcL2150006 T47<br>DrwNo: 028.22.1004.52046<br>KD / WHK 01/28/2022 |




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

**Wind Criteria**
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.46 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

**Defl/CSI Criteria**

| PP Deflection in | loc | L/defl | L/# |
|---|---|---|---|
| VERT(LL): | 0.004 | 999 | 240 |
| VERT(CL): | 0.007 | 999 | 180 |
| HORZ(LL): | -0.002 | - | - |
| HORZ(TL): | 0.003 | - | - |

Creep Factor: 2.0
Max TC CSI: 0.081
Max BC CSI: 0.105
Max Web CSI: 0.000

VIEW Ver: 20.02.01A.1209.11

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

| | Gravity | | | Non-Gravity | | |
|---|---|---|---|---|---|---|
| Loc | R+ | / R- | / Rh | / Rw | / U | / RL |
| C* | 79 | /- | /- | /37 | /0 | /5 |

Wind reactions based on MWFRS
C Brg Width = 50.1 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

**Lumber**

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

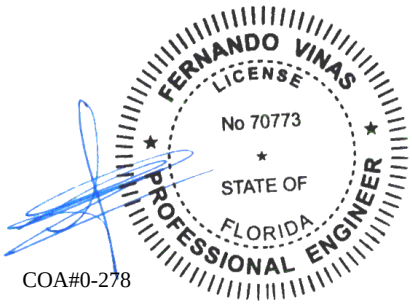
**Wind**

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

**Additional Notes**

See DWG VAL160101014 for valley details.

The overall height of this truss excluding overhang is 1-2-14.




COA#0-278

01/28/2022

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6750 Forum Drive
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Orlando FL, 32821

# Gable Stud Reinforcement Detail

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

Or: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

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

Bracing Group Species and Grades:

Group A:

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

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

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

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

Group B:

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

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

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

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

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

### Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

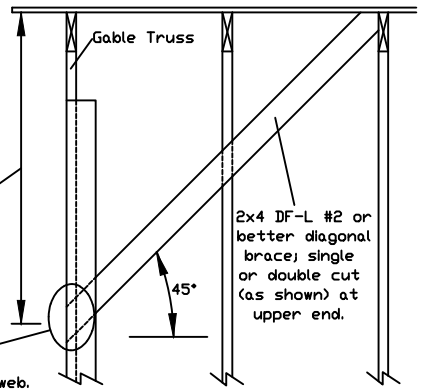
Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

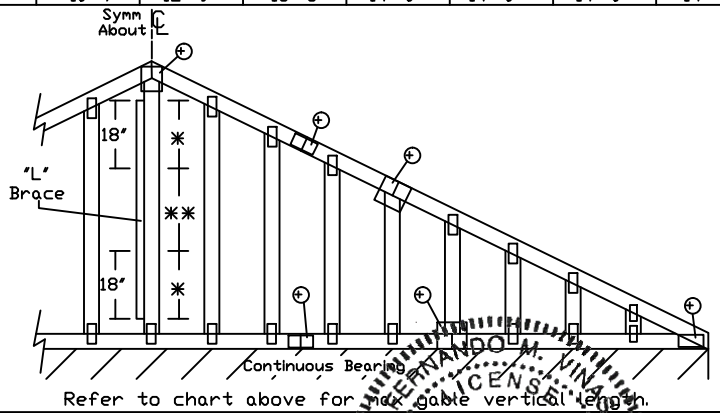
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails.
* For (1) "L" 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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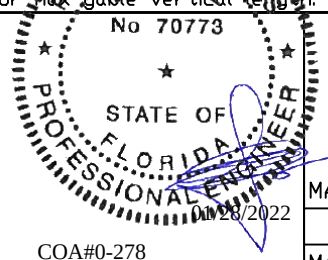
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org




10/28/2022

COA#0-278

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

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

# Gable Stud Reinforcement Detail

## ASCE 7-10: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

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

**Bracing Group Species and Grades:**

**Group A:**

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

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

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

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

**Group B:**

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

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

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

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

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

### Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

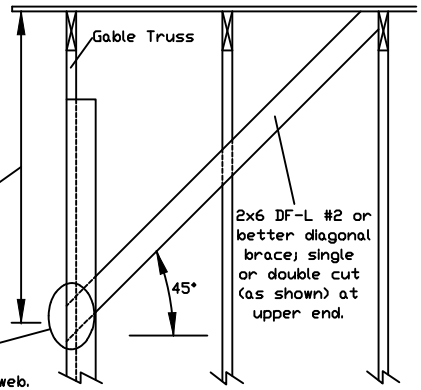
Attach "L" braces with 10d (0.128"x3.0" min) nails.

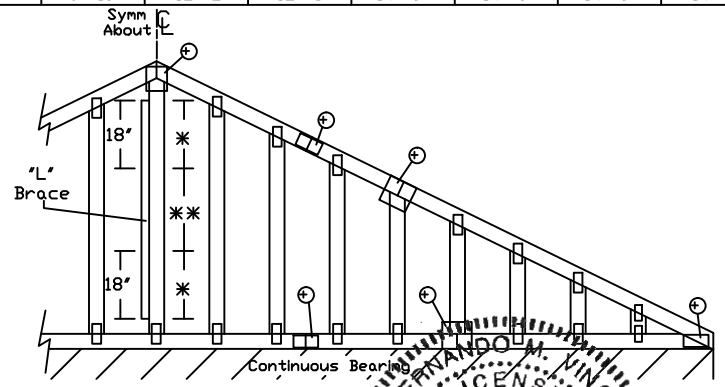
* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

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

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

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.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01/28/2022

COA#0-278

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-10-GAB14030
DATE 10/01/14
DRWG A14030ENC101014

# CLR Reinforcing Member Substitution

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

## Notes:

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

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

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

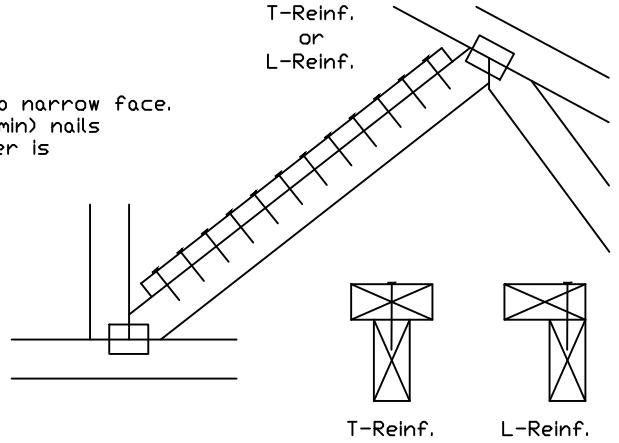
| Web Member Size | Specified CLR Restraint | Alternative Reinforecement T- or L- Reinf. | Alternative Reinforecement Scab Reinf. |
|---|---|---|---|
| 2x3 or 2x4 | 1 row | 2x4 | 1-2x4 |
| 2x3 or 2x4 | 2 rows | 2x6 | 2-2x4 |
| 2x6 | 1 row | 2x4 | 1-2x6 |
| 2x6 | 2 rows | 2x6 | 2-2x4(*) |
| 2x8 | 1 row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

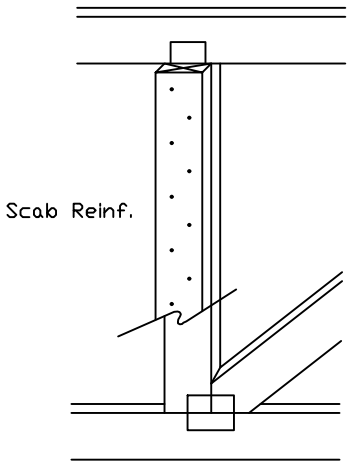
## T-Reinforcement or L-Reinforcement:

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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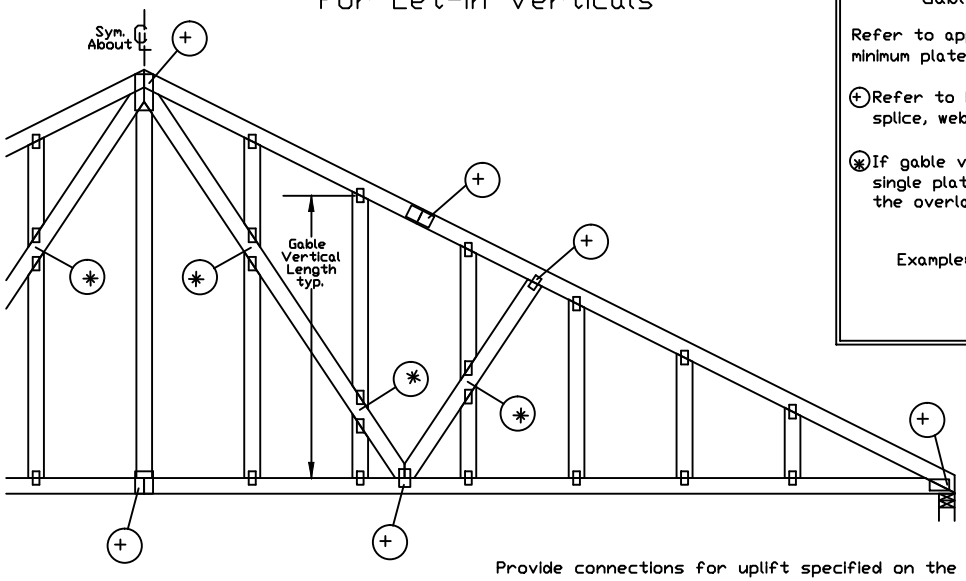
FERNANDO M. VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
01/28/2022
COA#0-278

| | | |
|---|---|---|
| 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



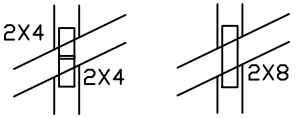

### Gable Truss Plate Sizes

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

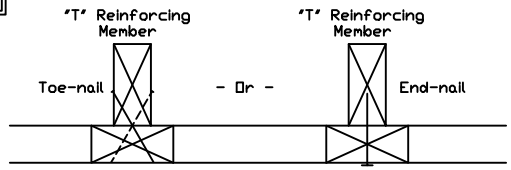
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ 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.

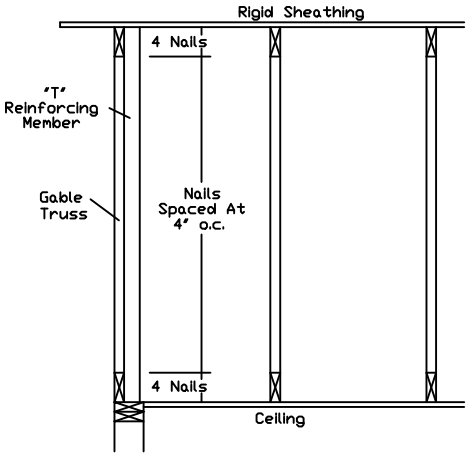
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

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"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Suite 242
Earth City, MO 63045


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

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

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

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

FERNANDO M VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
01/28/2022
COA#0-278

| | |
|---|---|
| REF | LET-IN VERT |
| DATE | 01/02/2018 |
| DRWG | GBLLETIN0118 |
| MAX. TOT. LD. | 60 PSF |
| DUR. FAC. | ANY |
| MAX. SPACING | 24.0" |

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

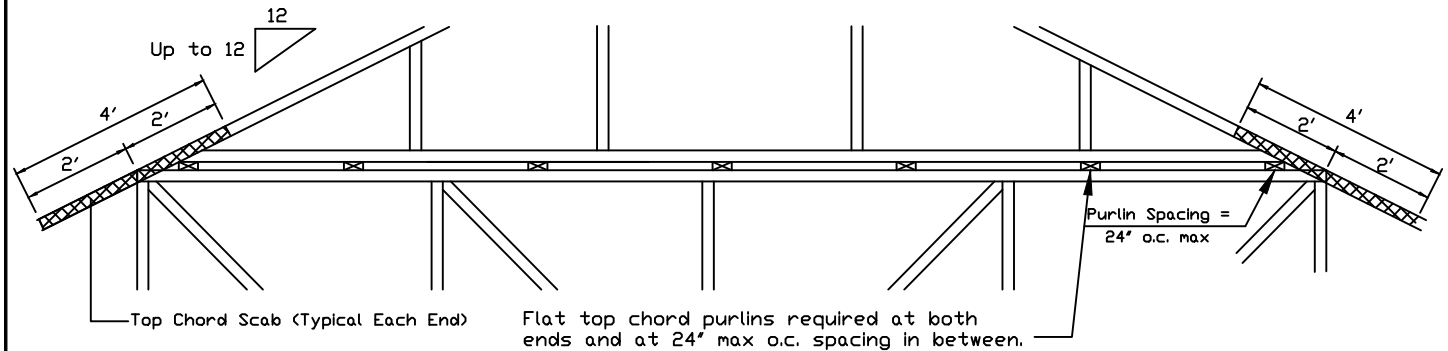
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

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




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

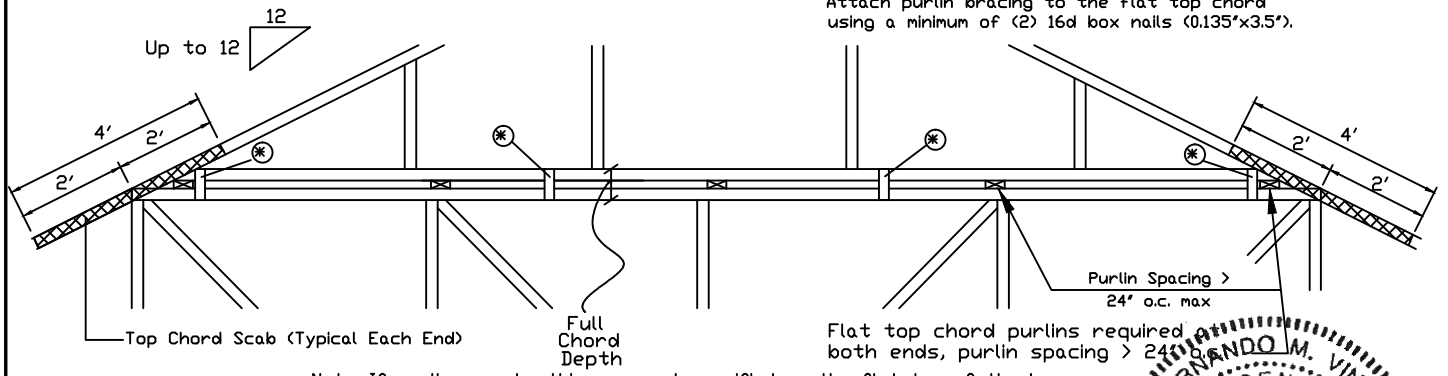
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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

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

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

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




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

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

**Trulox**

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

**APA Rated Gusset**

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

**2x4 Vertical Scabs**

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

**28PB Wave Piggyback Plate**

One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.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For more information see this job's general notes page and these web sites:
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FERNANDO M. VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

01/28/2022

COA#0-278

| | |
|---|---|
| REF | PIGGYBACK |
| DATE | 10/01/14 |
| DRWG | PB160101014 |
| SPACING | 24.0" |

# Valley Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
(2) 16d box (0.135" x 3.5") nails toe-nailed for
ASCE 7-10 160 mph. 30' Mean Height, Enclosed
Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
Or
ASCE 7-10 140 mph. 30' Mean Height, Enclosed
Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

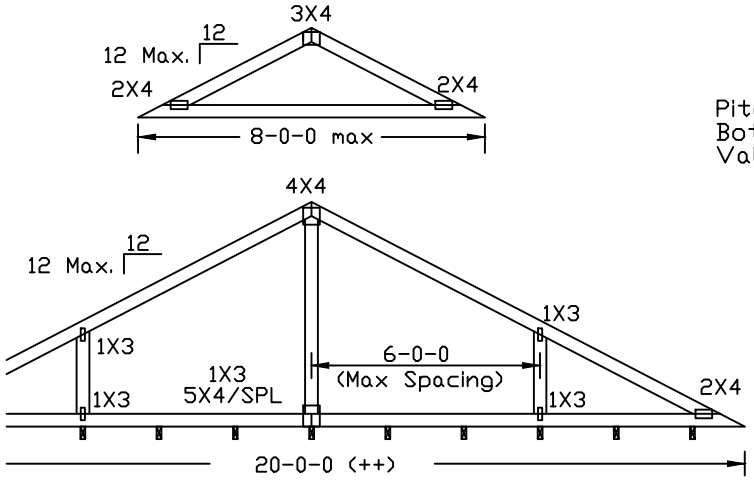
All plates shown are ITW BCG Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

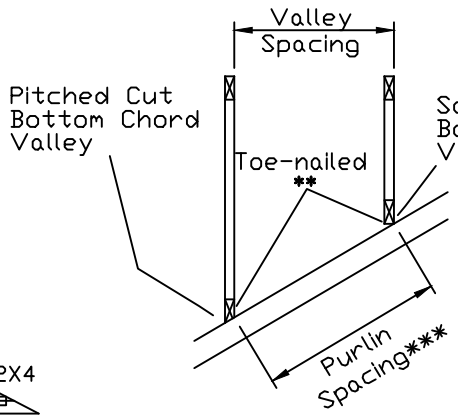
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

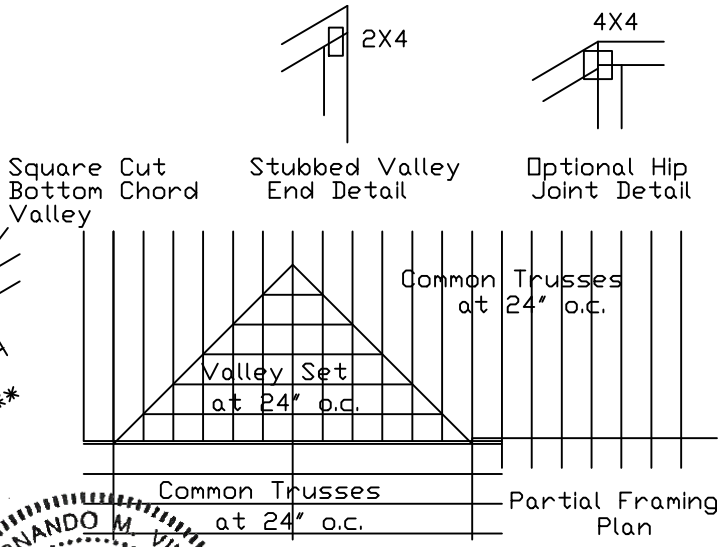
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does not exceed 14'-0".



Supporting trusses at 24" o.c. maximum spacing.





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10/28/2022
COA#0-278

| | | | | |
|---|---|---|---|---|
| TC LL | 30 | 30 | 40 | PSF |
| TC DL | 20 | 15 | 7 | PSF |
| BC DL | 10 | 10 | 10 | PSF |
| BC LL | 0 | 0 | 0 | PSF |
| TOT. LD. | 60 | 55 | 57 | PSF |
| DUR.FAC. | 1.25/1.33 | 1.15 | 1.15 | |
| SPACING | | 24.0" | | |

| | |
|---|---|
| REF | VALLEY DETAIL |
| DATE | 10/01/2014 |
| DRWG | VAL160101014 |