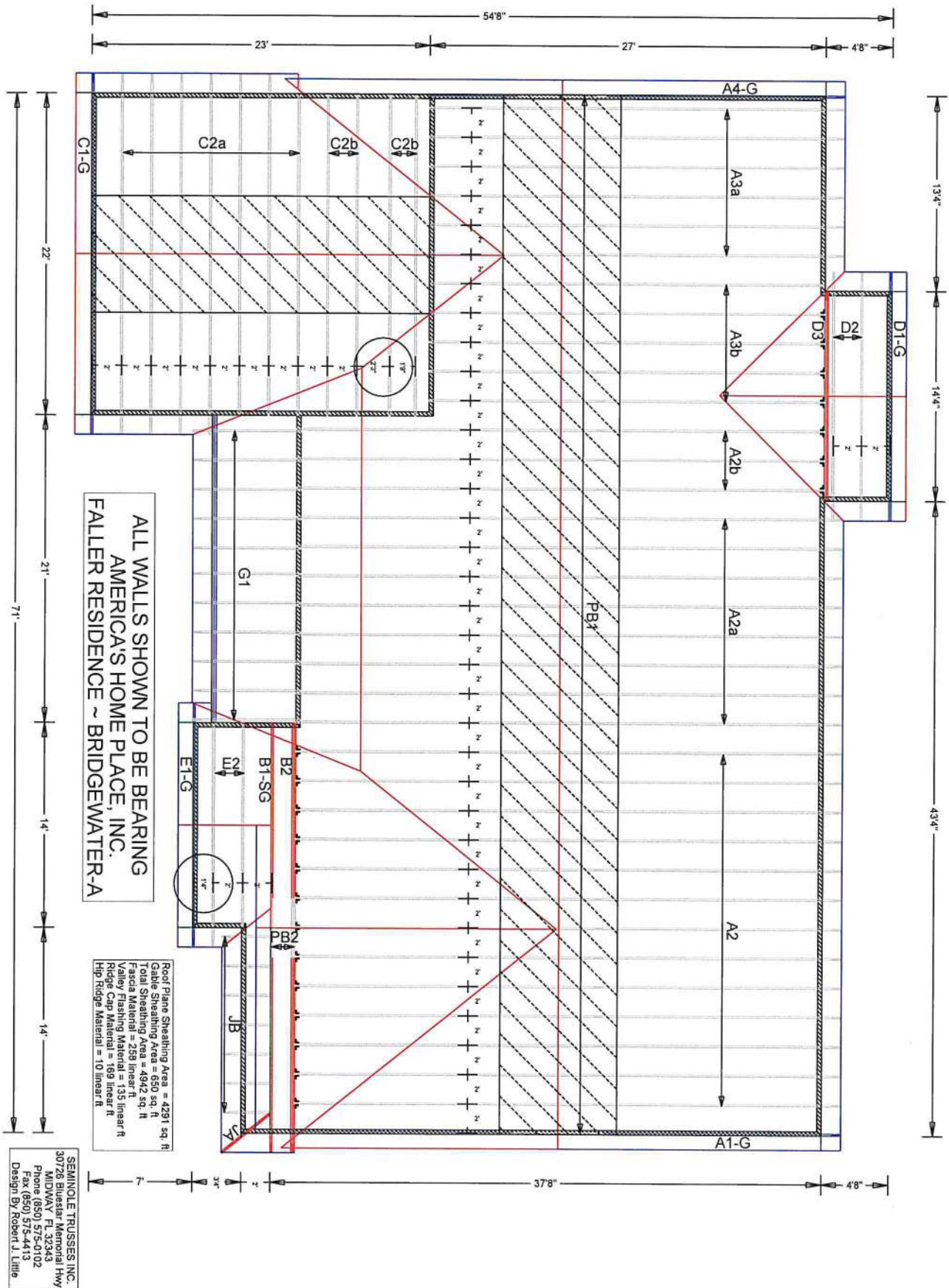




Job Name: FALLER RESIDENCE  
Customer: America's Home Place  
Designer: ROBERT J. LITTLE  
PlanName: BRIDGEWATER-A  
Created : 11-02-2021  
SemRef# : Z31880

JOB NO:

Z31880

PAGE NO:

4 OF 4



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.



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

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



| Site Information:                               | Page 1:            |
|-------------------------------------------------|--------------------|
| Customer: Seminole Trusses, Inc.                | Job Number: Z31880 |
| Job Description: FALLER RESIDENCE               |                    |
| Address: 478 NW MILO TERR., LAKE CITY, FL 32055 |                    |

| Job Engineering Criteria:                                  |                                                                         |
|------------------------------------------------------------|-------------------------------------------------------------------------|
| Design Code: FBC 6th ed 2017(Needs permit prior to 1/1/21) | IntelliVIEW Version: 18.02.01A through 20.02.00A<br>JRef #: 1Xa58570001 |
| Wind Standard: ASCE 7-10      Wind Speed (mph): 130        | Design Loading (psf): 37.00                                             |
| Building Type: Closed                                      |                                                                         |

This package contains general notes pages, 22 truss drawing(s) and 7 detail(s).

| Item | Drawing Number    | Truss                     |
|------|-------------------|---------------------------|
| 1    | 305.21.1319.31253 | A1-G 36' Gable            |
| 3    | 305.21.1320.15727 | A2a 36' Common            |
| 5    | 305.21.1320.21280 | A3a 27' Common            |
| 7    | 305.21.1320.29400 | A4-G 27' Gable            |
| 9    | 305.21.1320.49310 | B2 28' Common Girder      |
| 11   | 305.21.1320.55560 | C2a 22' Common            |
| 13   | 305.21.1321.01987 | D1-G 14'4" Gable          |
| 15   | 305.21.1321.14763 | D3 14'4" Common Girder    |
| 17   | 305.21.1321.20450 | E2 14' Common             |
| 19   | 305.21.1224.39727 | PB1 6' Common             |
| 21   | 305.21.1321.28550 | JA 2'0"10 Hip Jack Girder |
| 23   | A14015ENC101014   |                           |
| 25   | CNNAILSP1014      |                           |
| 27   | PB160160118       |                           |
| 29   | REPCHRD1014       |                           |

| Item | Drawing Number    | Truss                   |
|------|-------------------|-------------------------|
| 2    | 305.21.1320.12773 | A2 36' Common           |
| 4    | 305.21.1320.18690 | A2b 36' Common          |
| 6    | 305.21.1320.24723 | A3b 27' Common          |
| 8    | 305.21.1320.43530 | B1-SG 28' Common Girder |
| 10   | 305.21.1320.53587 | C1-G 22' Gable          |
| 12   | 305.21.1320.57753 | C2b 22' Common          |
| 14   | 305.21.1321.04240 | D2 14'4" Common         |
| 16   | 305.21.1321.18000 | E1-G 14' Gable          |
| 18   | 305.21.1321.25223 | G1 6'0"8 Mono           |
| 20   | 305.21.1224.39728 | PB2 4' Common           |
| 22   | 305.21.1321.34803 | JB 2' End Jack          |
| 24   | A14030ENC101014   |                         |
| 26   | GBLLETIN0118      |                         |
| 28   | PB180160118       |                         |

## **General Notes**

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

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

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

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

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

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

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

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

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

### **Connector Plate Information:**

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

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

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

## **General Notes** (continued)

### **Key to Terms:**

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

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

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

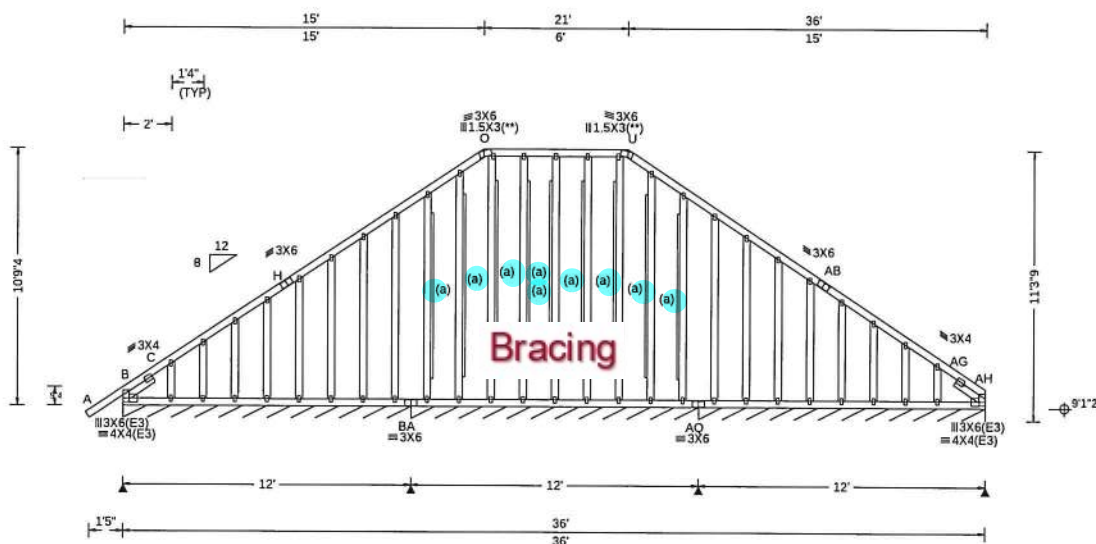
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

**References:**

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

|                          |                          |                                                                       |                                                                                  |
|--------------------------|--------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 85836<br>FROM: RJL | GABL<br>Ply: 1<br>Qty: 1 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: A1-G 36' Gable | Cust: R 857 JRef: 1Xa58570001 T15<br>DrwNo: 305.21.1319.31253<br>/ YK 11/01/2021 |
|--------------------------|--------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                   | ▲ Maximum Reactions (lbs), or *PLF                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.60 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: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.001 O 999 360<br>VERT(CL): 0.003 O 999 240<br>HORZ(LL): 0.003 W - -<br>HORZ(TL): 0.005 W - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.128<br>Max BC CSI: 0.027<br>Max Web CSI: 0.095<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B* 107 /- /- /55 /13 /21<br>BA* 124 /- /- /40 /- /-<br>AQ* 98 /- /- /49 /10 /-<br>Wind reactions based on MWFRS<br>B Brg Wid = 144 Min Req = -<br>BA Brg Wid = 144 Min Req = -<br>AQ Brg Wid = 144 Min Req = -<br>Bearings B, BA, & AQ are a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.500'  
Rt Slider: 2x4 SP #3; block length = 1.500'

#### Bracing

(a) 1x4 #3SRB SPF-S or better "L" reinforcement.  
80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

#### Plating Notes

All plates are 1.5X3 except as noted.

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

#### Loading

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

#### Wind

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

#### Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

#### \*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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

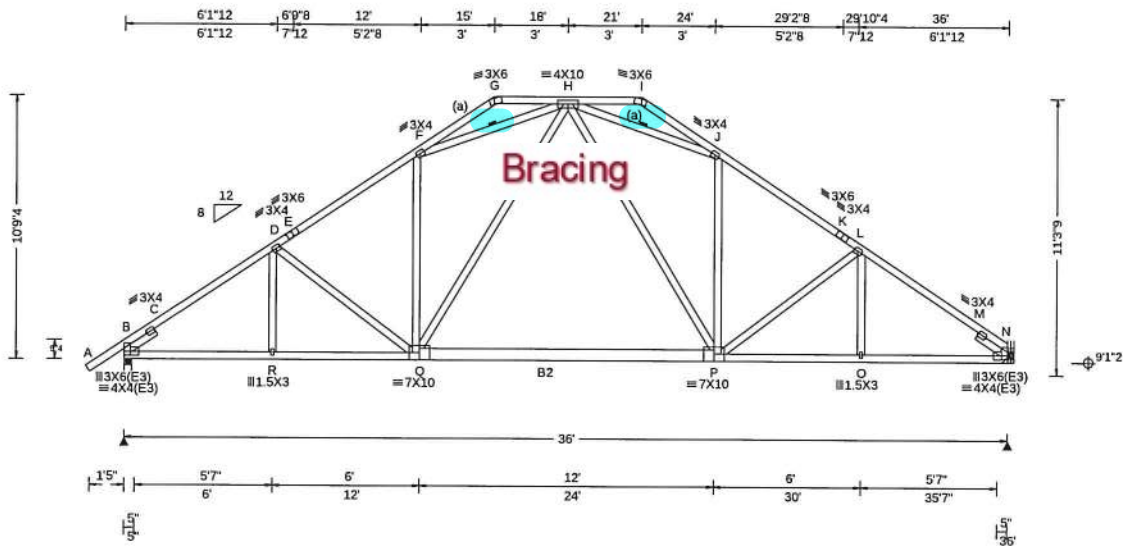
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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



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|                          |                           |                                                                      |                                                                                 |
|--------------------------|---------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| SEQN: 85873<br>FROM: RJL | COMN<br>Ply: 1<br>Qty: 13 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: A2 36' Common | Cust: R 857 JRef: 1Xa58570001 T8<br>DrwNo: 305.21.1320.12773<br>/ YK 11/01/2021 |
|--------------------------|---------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                            | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                     | Defl/CSI Criteria                                                                                                                                                                                                                                                   | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.60 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: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.088 Q 999 360<br>VERT(CL): 0.154 Q 999 240<br>HORZ(LL): 0.042 N - -<br>HORZ(TL): 0.073 N - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.387<br>Max BC CSI: 0.865<br>Max Web CSI: 0.738<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 1619 /- /- /798 /82 /220<br>N 1530 /- /- /734 /66 /-<br>Wind reactions based on MWFRS<br>B Brg Wid = 3.5 Min Req = 1.9<br>N Brg Wid = -<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 487 -2272 J - K 460 -1966<br>C - D 458 -2228 K - L 431 -1989<br>D - E 430 -1985 L - M 463 -2239<br>E - F 458 -1963 M - N 442 -2283<br><br><b>Maximum Bot Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - R 1774 -305 P - O 1786 -311<br>R - Q 1773 -305 O - N 1787 -310<br>Q - P 1355 -129<br><br><b>Maximum Web Forces Per Ply (lbs)</b><br>Webs Tens.Comp. Webs Tens. Comp.<br>F - H 394 -1401 H - P 444 -106<br>Q - H 440 -104 H - J 394 -1401 |

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1; B2 2x6 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.500'  
Rt Slider: 2x4 SP #3; block length = 1.500'

#### Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.

#### Hangers / Ties

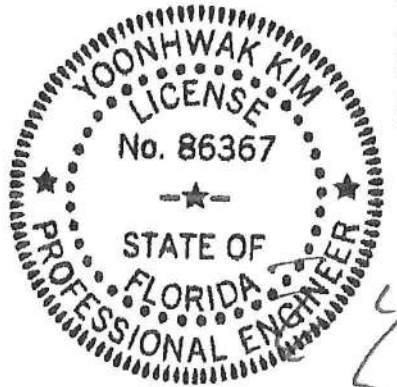
(J) Hanger Support Required, by others

#### Loading

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

#### Wind

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



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11/01/2021

#### \*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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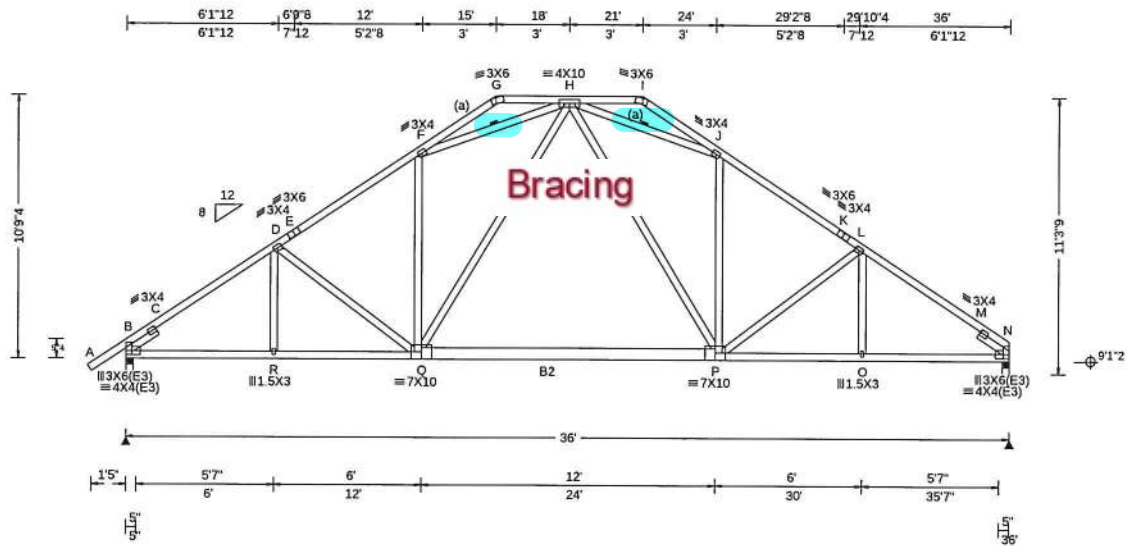
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For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbccomponents.com](http://sbccomponents.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)



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Orlando FL, 32821

|                          |      |                  |                                                                       |                                                                                 |
|--------------------------|------|------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| SEQN: 85875<br>FROM: RJL | COMN | Ply: 1<br>Qty: 8 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: A2a 36' Common | Cust: R 857 JRef: 1Xa58570001 T1<br>DrwNo: 305.21.1320.15727<br>/ YK 11/01/2021 |
|--------------------------|------|------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|



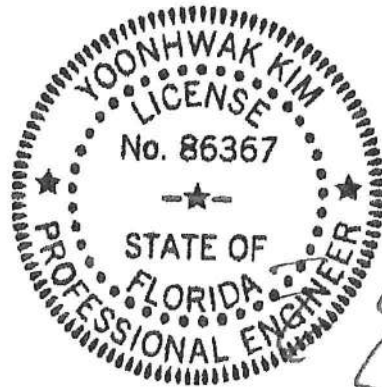
| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                       | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.60 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: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.088 Q 999 360<br>VERT(CL): 0.154 Q 999 240<br>HORZ(LL): 0.042 N - -<br>HORZ(TL): 0.073 N - -<br><br>Creep Factor: 2.0<br>Max TC CSI: 0.387<br>Max BC CSI: 0.865<br>Max Web CSI: 0.738<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 1619 /- /- /798 /82 /220<br>N 1530 /- /- /734 /66 /-<br>Wind reactions based on MWFRS<br>B Brg Wid = 3.5 Min Req = 1.9<br>N Brg Wid = 3.5 Min Req = 1.8<br>Bearings B & N are a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 487 - 2272 J - K 460 - 1966<br>C - D 458 - 2228 K - L 431 - 1989<br>D - E 430 - 1985 L - M 463 - 2239<br>E - F 458 - 1963 M - N 442 - 2283 |

**Lumber**  
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1; B2 2x6 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.500'  
Rt Slider: 2x4 SP #3; block length = 1.500'

**Bracing**  
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

**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.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

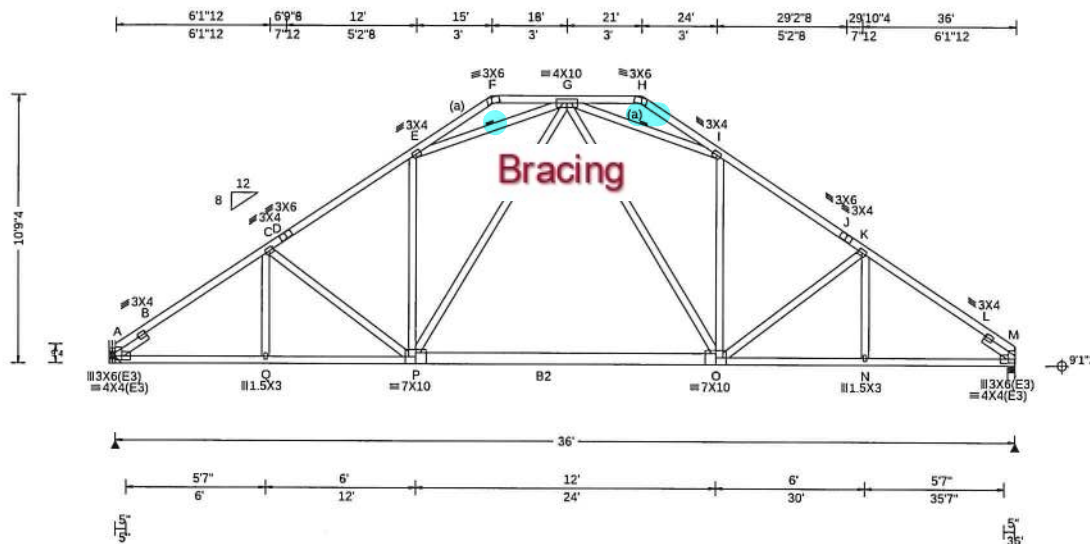
| Maximum Bot Chord Forces Per Ply (lbs) |            |        |             |
|----------------------------------------|------------|--------|-------------|
| Chords                                 | Tens.Comp. | Chords | Tens. Comp. |
| B - R                                  | 1774 - 305 | P - O  | 1786 - 311  |
| R - Q                                  | 1773 - 305 | O - N  | 1787 - 310  |
| Q - P                                  | 1355 - 129 |        |             |

| Maximum Web Forces Per Ply (lbs) |            |       |             |
|----------------------------------|------------|-------|-------------|
| Webs                             | Tens.Comp. | Webs  | Tens. Comp. |
| F - H                            | 394 - 1401 | H - P | 444 - 106   |
| Q - H                            | 440 - 104  | H - J | 394 - 1401  |

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| 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: 7.00             | Speed: 130 mph                | Pf: NA Ce: NA                | VERT(LL): 0.087 P 999 360       | Loc                                           | R+ / R-       | / Rh   | / Rw        | / U    | / RL |
| BCLL: 0.00             | Enclosure: Closed             | Lu: NA Cs: NA                | VERT(CL): 0.153 P 999 240       | A                                             | 1532          | /- /-  | /734        | /66    | /195 |
| BCDL: 10.00            | Risk Category: II             | Snow Duration: NA            | HORZ(LL): 0.042 M - -           | M                                             | 1532          | /- /-  | /734        | /66    | /-   |
|                        | EXP: B Kzt: NA                |                              | HORZ(TL): 0.073 M - -           | Wind reactions based on MWFRS                 |               |        |             |        |      |
| Des Ld: 37.00          | Mean Height: 15.00 ft         |                              | Creep Factor: 2.0               | A                                             | Brg Wid = -   |        | Min Req = - |        |      |
| NCBCLL: 10.00          | TCDL: 4.2 psf                 | Building Code:               | Max TC CSI: 0.387               | M                                             | Brg Wid = 3.5 |        |             |        |      |
| Soffit: 0.00           | BCDL: 5.2 psf                 | FBC 2017 RES                 | Max BC CSI: 0.864               | Bearing M is a rigid surface.                 |               |        |             |        |      |
| Load Duration: 1.25    | MWFRS Parallel Dist: 0 to h/2 | TPI Std: 2014                | Max Web CSI: 0.739              | Members not listed have forces less than 375# |               |        |             |        |      |
| Spacing: 24.0 "        | C&C Dist a: 3.60 ft           | Rep Fac: No                  |                                 | <b>Maximum Top Chord Forces Per Ply (lbs)</b> |               |        |             |        |      |
|                        | Loc. from endwall: Any        | FT/RT:20(0)/10(0)            |                                 | Chords                                        | Tens.Comp.    | Chords | Tens. Comp. |        |      |
|                        | GCpi: 0.18                    | Plate Type(s):               |                                 |                                               |               |        |             |        |      |
|                        | Wind Duration: 1.60           | WAVE                         | VIEW Ver: 20.02.00A.1020.20     | A - B                                         | 443 - 2286    | I - J  | 461         | - 1969 |      |

**Lumber**  
 Top chord: 2x4 SP #1;  
 Bot chord: 2x4 SP #1; B2 2x6 SP #1;  
 Webs: 2x4 SP #3;  
 Lt Slider: 2x4 SP #3; block length = 1.500'  
 Rt Slider: 2x4 SP #3; block length = 1.500'

**Bracing**  
 (a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.

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

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 11/01/2021

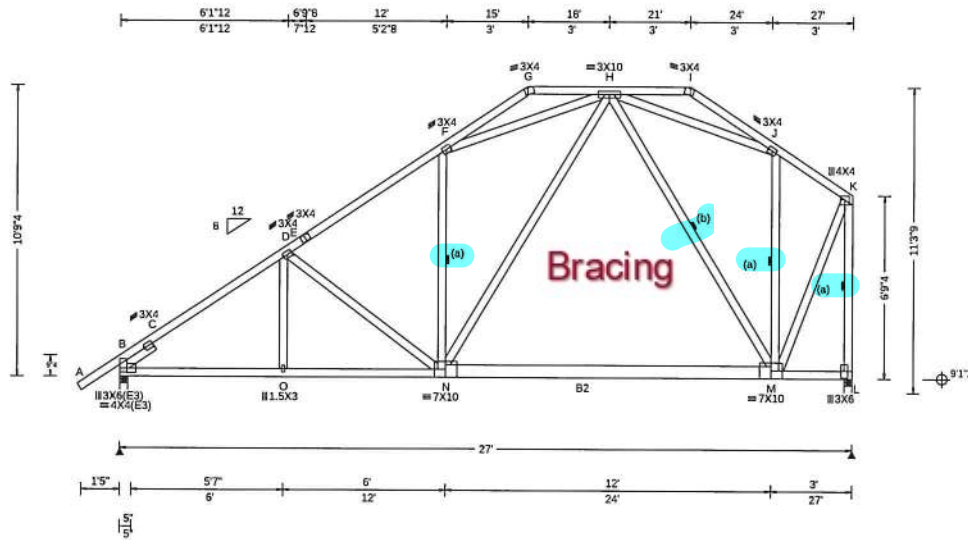
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 Orlando FL, 32821



| Loading Criteria (psf)                                                                                                                                 | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                   | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br><br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.048 F 999 360<br>VERT(CL): 0.082 F 999 240<br>HORZ(LL): 0.019 D - -<br>HORZ(TL): 0.032 D - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.377<br>Max BC CSI: 0.712<br>Max Web CSI: 0.719<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 1224 /- /- /636 /50 /166<br>L 1234 /- /- /514 /66 /-<br>Wind reactions based on MWFRS<br>B Brg Wid = 3.5 Min Req = 1.5<br>L Brg Wid = 3.5 Min Req = 1.5<br>Bearings B & L are a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 317 -1623 E - F 285 -1285<br>C - D 287 -1581 J - K 128 -571<br>D - E 257 -1308 |

**Lumber**  
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1; B2 2x6 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.500'

**Bracing**  
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.  
(b) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3", min.) nails @ 6" oc.

**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.  
Right end vertical not exposed to wind pressure.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

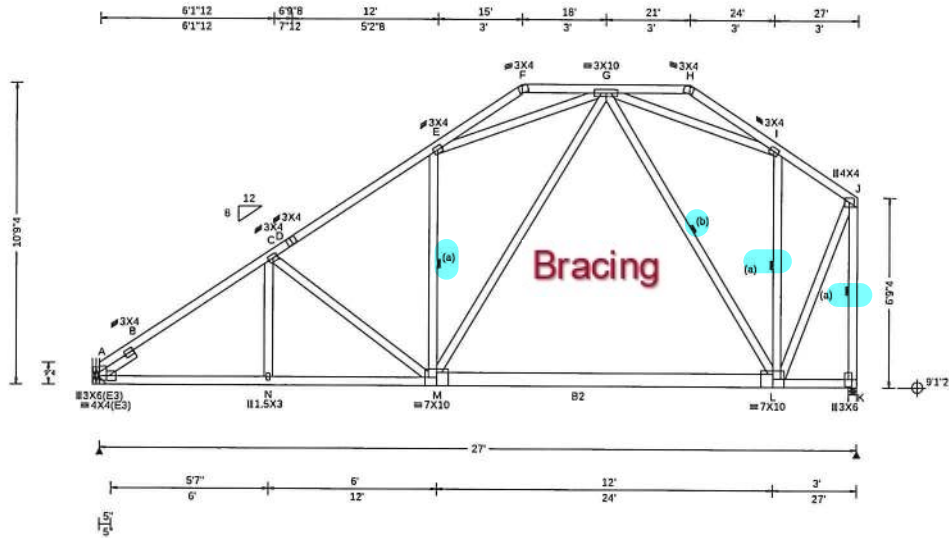
| Maximum Bot Chord Forces Per Ply (lbs) |            |        |             |
|----------------------------------------|------------|--------|-------------|
| Chords                                 | Tens.Comp. | Chords | Tens. Comp. |
| B - O                                  | 1248 -351  | N - M  | 678 -141    |
| O - N                                  | 1246 -351  |        |             |

| Maximum Web Forces Per Ply (lbs) |            |       |             |
|----------------------------------|------------|-------|-------------|
| Webs                             | Tens.Comp. | Webs  | Tens. Comp. |
| F - H                            | 249 -834   | M - K | 1049 -181   |
| N - H                            | 661 -160   | K - L | 251 -1313   |
| H - M                            | 131 -471   |       |             |

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

|                          |      |                  |                                                                       |                                                                                   |
|--------------------------|------|------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| SEQN: 85881<br>FROM: RJL | COMN | Ply: 1<br>Qty: 5 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: A3b 27' Common | Cust: R 857 JRRef: 1Xa58570001 T20<br>DrwNo: 305.21.1320.24723<br>/ YK 11/01/2021 |
|--------------------------|------|------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                   | Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.047 E 999 360<br>VERT(CL): 0.081 E 999 240<br>HORZ(LL): 0.019 C - -<br>HORZ(TL): 0.032 C - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.404<br>Max BC CSI: 0.712<br>Max Web CSI: 0.721<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>A 1137 /- /- /573 /34 /152<br>K 1236 /- /- /516 /67 /-<br>Wind reactions based on MWFRS<br>A Brg Wid = - Min Req = -<br>K Brg Wid = 3.5<br>Bearing K is a rigid surface.<br>Members not listed have forces less than 375#<br>Maximum Top Chord Forces Per Ply (lbs)<br>Chords Tens.Comp. Chords Tens. Comp.<br>A - B 335 -1644 D - E 288 -1291<br>B - C 293 -1594 I - J 129 -572<br>C - D 259 -1314 |

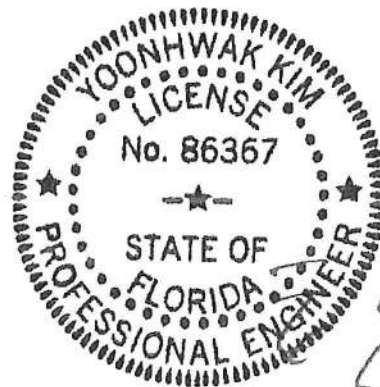
**Lumber**  
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1; B2 2x6 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.500'

**Bracing**  
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.  
(b) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

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

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

| Maximum Bot Chord Forces Per Ply (lbs) |            |        |             |
|----------------------------------------|------------|--------|-------------|
| Chords                                 | Tens.Comp. | Chords | Tens. Comp. |
| A - N                                  | 1263 -358  | M - L  | 680 -142    |
| N - M                                  | 1261 -358  |        |             |

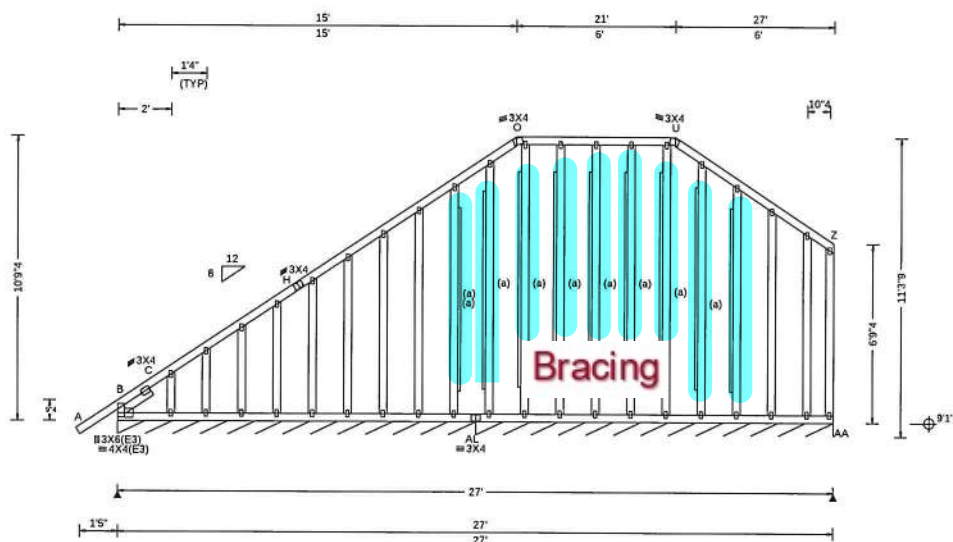
  

| Maximum Web Forces Per Ply (lbs) |            |       |             |
|----------------------------------|------------|-------|-------------|
| Webs                             | Tens.Comp. | Webs  | Tens. Comp. |
| E - G                            | 249 -835   | L - J | 1051 -182   |
| M - G                            | 664 -162   | J - K | 252 -1315   |
| G - L                            | 132 -473   |       |             |

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Suite 305  
Orlando FL, 32821

|                          |                |                  |                                                                       |                                                                                 |
|--------------------------|----------------|------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| SEQN: 85842<br>FROM: RJL | GABL<br>Qty: 1 | Ply: 1<br>Qty: 1 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: A4-G 27' Gable | Cust: R 857 JRef: 1Xa58570001 T4<br>DrwNo: 305.21.1320.29400<br>/ YK 11/01/2021 |
|--------------------------|----------------|------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                            | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                    | ▲ Maximum Reactions (lbs), or *PLF                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCCL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCCL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.002 U 999 360<br>VERT(CL): 0.004 U 999 240<br>HORZ(LL): -0.004 W - -<br>HORZ(TL): 0.006 W - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.128<br>Max BC CSI: 0.031<br>Max Web CSI: 0.098<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B* 105 /- /- /52 /11 /14<br>AL* 125 /- /- /39 /2 /-<br>Wind reactions based on MWFRS<br>B Brg Wid = 162 Min Req = -<br>AL Brg Wid = 162 Min Req = -<br>Bearings B & AL are a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #1; block length = 1.500'

#### Bracing

(a) 1x4 #3SRB SPF-S or better "L" reinforcement.  
80% length of web member. Attach with 8d Box or  
Gun (0.113"x2.5",min.)nails @ 6" oc.

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Loading

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

#### Wind

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

Right end vertical not exposed to wind pressure.

#### Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

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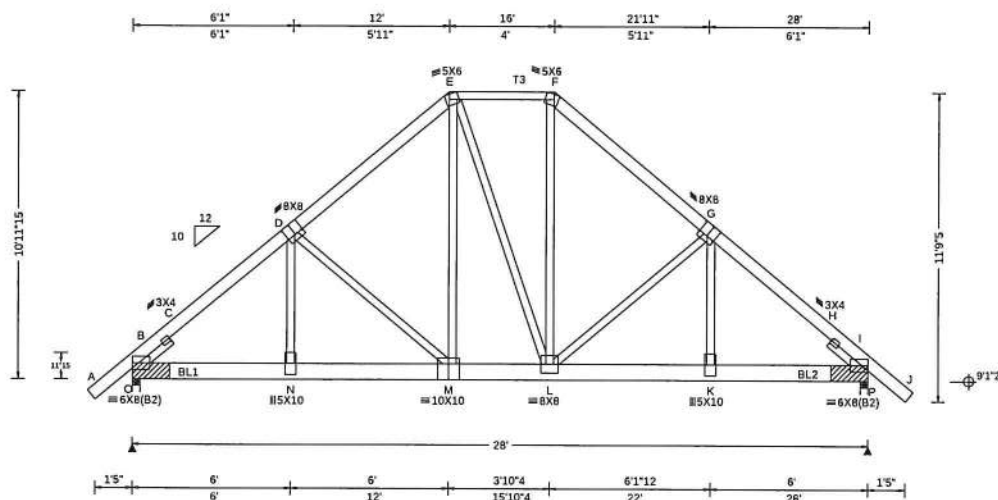


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|                          |                          |                                                                             |                                                                                  |
|--------------------------|--------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 85867<br>FROM: RJL | COMN<br>Ply: 2<br>Qty: 1 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: B2 28' Common Girder | Cust: R 857 JRef: 1Xa58570001 T18<br>DrwNo: 305.21.1320.49310<br>/ YK 11/01/2021 |
|--------------------------|--------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------|

2 Complete Trusses Required



| Loading Criteria (psf)                                                                                                                            | Wind Criteria                                                                                                                                                                                                                                                                      | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                   | Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 0.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: NA<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: No<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.104 M 999 360<br>VERT(CL): 0.199 M 999 240<br>HORZ(LL): 0.043 D - -<br>HORZ(TL): 0.082 D - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.237<br>Max BC CSI: 0.471<br>Max Web CSI: 0.659<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>O 10230 -/- /- /- /479 -/<br>P 10230 -/- /- /- /479 -/<br>Wind reactions based on MWFRS<br>O Brg Wid = 3.5 Min Req = -<br>P Brg Wid = 3.5 Min Req = -<br>Bearings O & P are a rigid surface.<br>Members not listed have forces less than 375#<br>Maximum Top Chord Forces Per Ply (lbs)<br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 274 -5875 F - G 205 -4318<br>C - D 269 -5852 G - H 268 -5841<br>D - E 205 -4307 H - I 273 -5864<br>E - F 147 -3295 |

#### Lumber

Top chord: 2x6 SP #1; T3 2x4 SP #1;  
Bot chord: 2x8 SP SS Dense;  
Webs: 2x4 SP #1;  
Lt Slider: 2x4 SP #1; block length = 1.500'  
Rt Slider: 2x4 SP #1; block length = 1.500'

#### Nailnote

Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 4.50" o.c.  
Webs: 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

#### Loading

Girder supports 36-0-0 span to BC one face and 2-0-0 span to TC/BC split opposite face.

#### Wind

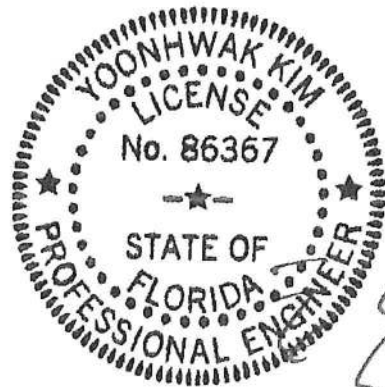
Wind loads and reactions based on MWFRS.

#### Bearing Block(s)

Brg blocks: 0.128"x3", min. nails  
brg x-loc #blocks length/blk #nails/blk wall plate  
1 0.000' 1 17" 27 Rigid Surface  
2 27.708' 1 17" 27 Rigid Surface  
Brg block to be same size and species as chord.  
Refer to drawing C9NAILSP1014 for more information.

#### Blocking

Apply additional nailing over the following bearings with fasteners at 4" oc both perpendicular and parallel to grain. In lieu of additional nailing, apply blocking reinforcement to prevent buckling of members over the bearings:  
Bearing 1 located at 0.0' (blocking >= 5.50" if used)  
Bearing 2 located at 27.7' (blocking >= 5.50" if used)



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

| Chords | Tens.Comp. | Chords | Tens. Comp. |
|--------|------------|--------|-------------|
| B - N  | 4404 -197  | L - K  | 4351 -195   |
| N - M  | 4360 -196  | K - I  | 4396 -197   |
| M - L  | 3248 -146  |        |             |

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

| Webs  | Tens.Comp. | Webs  | Tens. Comp. |
|-------|------------|-------|-------------|
| D - N | 1941 -53   | L - F | 2598 -91    |
| D - M | 67 -1495   | L - G | 66 -1454    |
| E - M | 2477 -87   | K - G | 1890 -51    |

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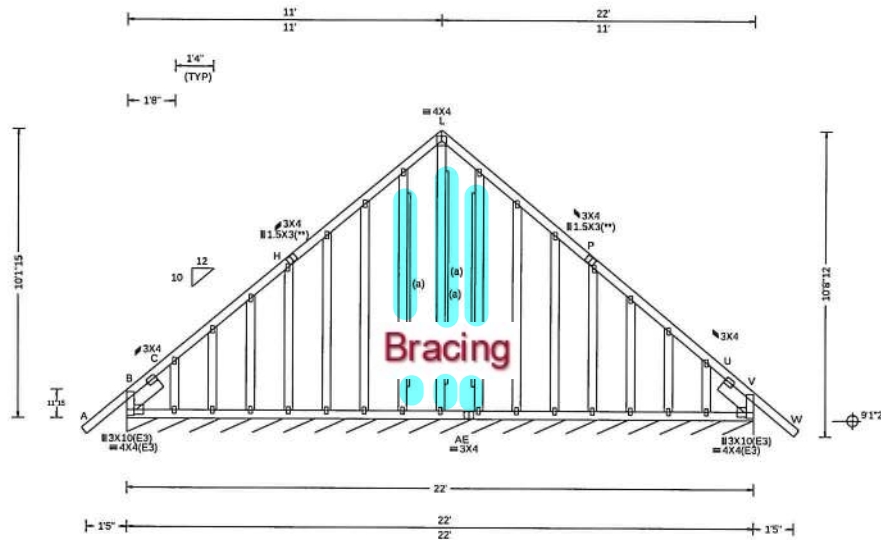
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|                          |                |                  |                                                                       |                                                                                 |
|--------------------------|----------------|------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| SEQN: 85850<br>FROM: RJL | GABL<br>Qty: 1 | Ply: 1<br>Qty: 1 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: C1-G 22' Gable | Cust: R 857 JRef: 1Xa58570001 T5<br>DrwNo: 305.21.1320.53587<br>/ YK 11/01/2021 |
|--------------------------|----------------|------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                    | ▲ Maximum Reactions (lbs), or *PLF                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.002 L 999 360<br>VERT(CL): 0.002 M 999 240<br>HORZ(LL): -0.003 K - -<br>HORZ(TL): 0.005 K - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.165<br>Max BC CSI: 0.024<br>Max Web CSI: 0.160<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>V* 112 /- /- /46 /7 /12<br>Wind reactions based on MWFRS<br>V Brg Wid = 264 Min Req = -<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375#<br>Maximum Top Chord Forces Per Ply (lbs)<br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 363 - 388 U - V 369 - 389 |

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x6 SP #1; block length = 1.500'  
Rt Slider: 2x6 SP #1; block length = 1.500'

#### Bracing

(a) 1x4 #3SRB SPF-S or better "L" reinforcement.  
80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

#### Plating Notes

All plates are 1.5X3 except as noted.

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

#### Loading

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

#### Wind

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

#### Additional Notes

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



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11/01/2021

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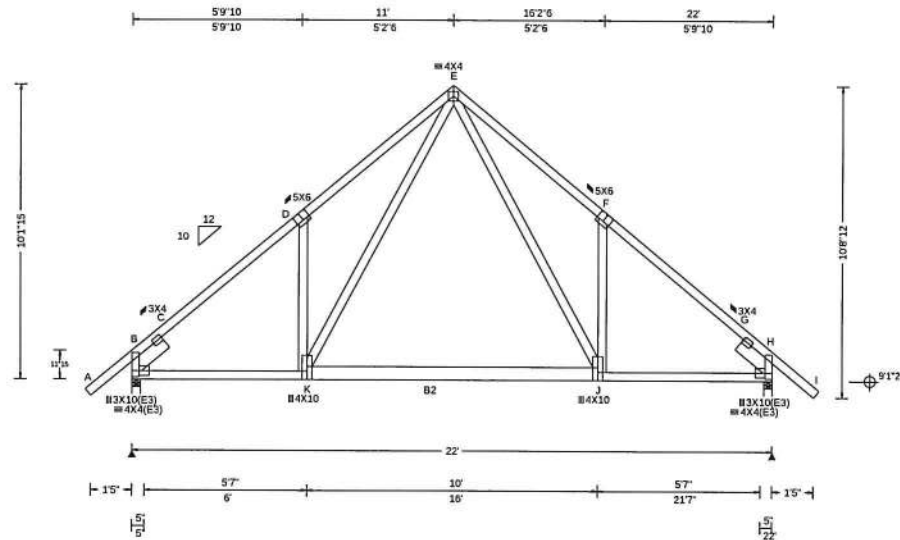
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|                          |                          |                                                                       |                                                                                 |
|--------------------------|--------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| SEQN: 85869<br>FROM: RJL | COMM<br>Ply: 1<br>Qty: 7 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: C2a 22' Common | Cust: R 857 JRef: 1Xa58570001 T3<br>DrwNo: 305.21.1320.55560<br>/ YK 11/01/2021 |
|--------------------------|--------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                   | Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.040 F 999 360<br>VERT(CL): 0.068 F 999 240<br>HORZ(LL): 0.025 G - -<br>HORZ(TL): 0.044 G - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.384<br>Max BC CSI: 0.524<br>Max Web CSI: 0.400<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 1066 /- /- /522 /42 /236<br>H 1067 /- /- /522 /42 /-<br>Wind reactions based on MWFRS<br>B Brg Wid = 3.5 Min Req = 1.5<br>H Brg Wid = 3.5 Min Req = 1.5<br>Bearings B & H are a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 253 -1302 E - F 392 -1164<br>C - D 216 -1202 F - G 215 -1203<br>D - E 392 -1163 G - H 252 -1304 |

**Lumber**  
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1; B2 2x6 SP #1;  
Webs: 2x4 SP #1;  
Lt Slider: 2x6 SP #1; block length = 1.500'  
Rt Slider: 2x6 SP #1; block length = 1.500'

**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.

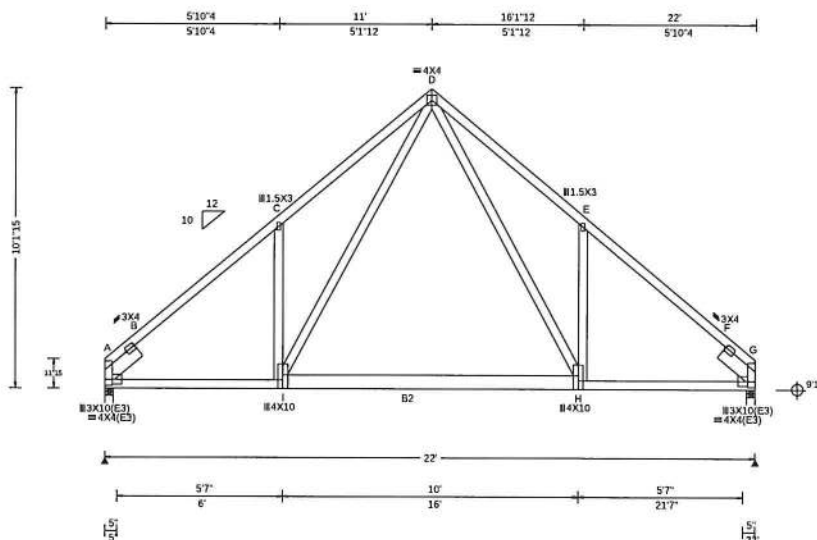


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11/01/2021

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|--------------------------|--------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 85871<br>FROM: RJL | COMN<br>Ply: 1<br>Qty: 4 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: C2b 22' Common | Cust: R 857 JRef: 1Xa58570001 T24<br>DrwNo: 305.21.1320.57753<br>/ YK 11/01/2021 |
|--------------------------|--------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                            | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                   | Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.037 E 999 360<br>VERT(CL): 0.064 E 999 240<br>HORZ(LL): 0.018 C - -<br>HORZ(TL): 0.031 C - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.312<br>Max BC CSI: 0.521<br>Max Web CSI: 0.413<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>A 978 /- /- /453 /27 /186<br>G 979 /- /- /453 /27 /-<br>Wind reactions based on MWFRS<br>A Brg Wid = 3.5 Min Req = 1.5<br>G Brg Wid = 3.5 Min Req = 1.5<br>Bearings A & G are a rigid surface.<br>Members not listed have forces less than 375#<br>Maximum Top Chord Forces Per Ply (lbs)<br>Chords Tens.Comp. Chords Tens. Comp.<br>A - B 218 -1315 D - E 402 -1187<br>B - C 221 -1216 E - F 221 -1217<br>C - D 402 -1186 F - G 218 -1317 |

**Lumber**  
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1; B2 2x6 SP #1;  
Webs: 2x4 SP #1;  
Lt Slider: 2x6 SP #1; block length = 1.500'  
Rt Slider: 2x6 SP #1; block length = 1.500'

**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.

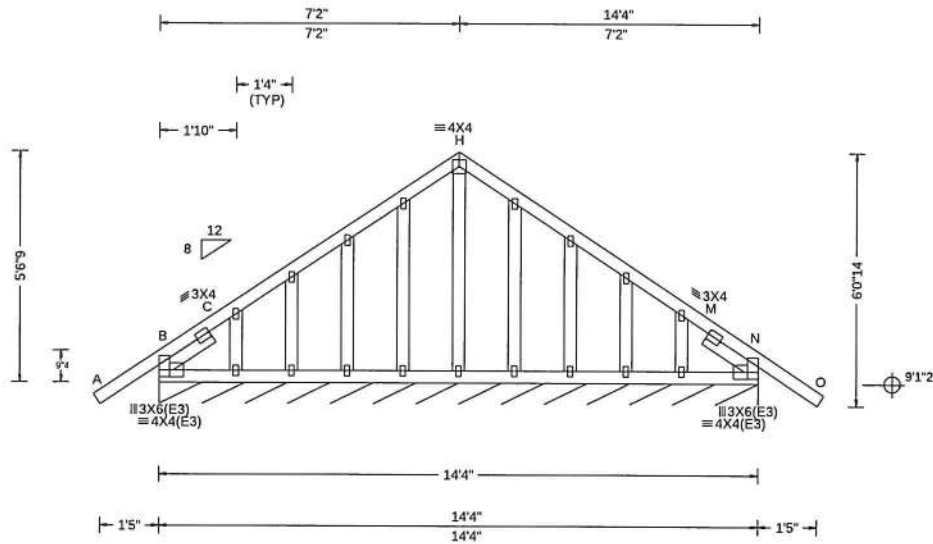


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11/01/2021

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|--------------------------|------|------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 85824<br>FROM: RJL | GABL | Ply: 1<br>Qty: 1 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: D1-G 14'4" Gable | Cust: R 857 JRef: 1Xa58570001 T21<br>DrwNo: 305.21.1321.01987<br>/ YK 11/01/2021 |
|--------------------------|------|------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                    | ▲ Maximum Reactions (lbs), or *PLF                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.001 H 999 360<br>VERT(CL): 0.001 I 999 240<br>HORZ(LL): -0.001 B - -<br>HORZ(TL): 0.002 B - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.137<br>Max BC CSI: 0.017<br>Max Web CSI: 0.064<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B* 103 /- /- /45 /18 /10<br>Wind reactions based on MWFRS<br>B Brg Wid = 172 Min Req = -<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.500'  
Rt Slider: 2x4 SP #3; block length = 1.500'

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Loading

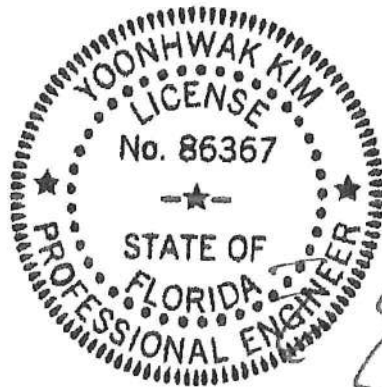
Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Wind

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

#### Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

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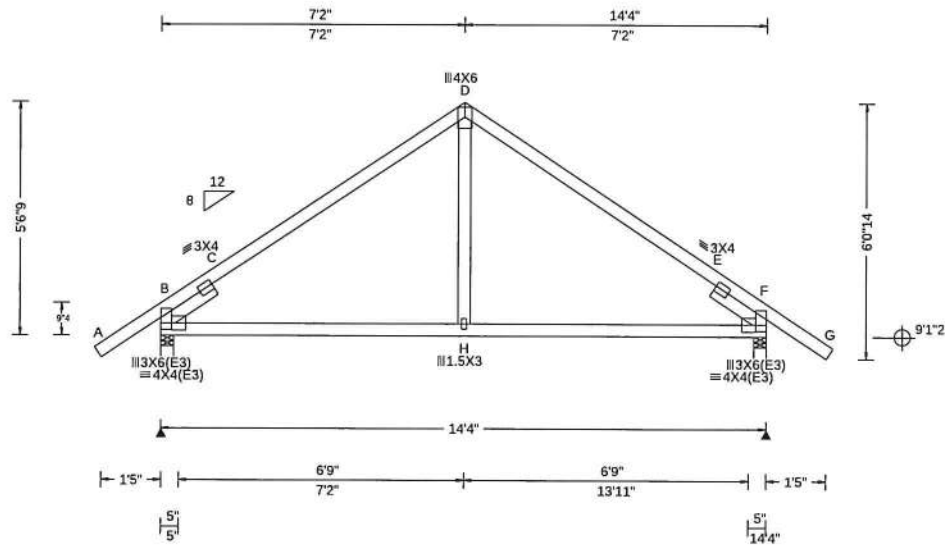
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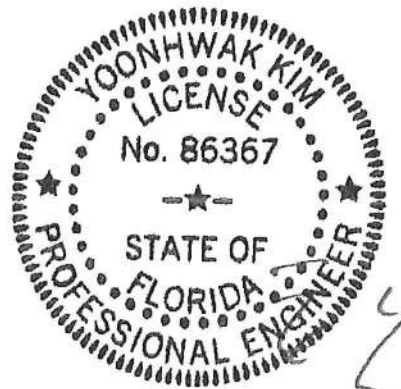
|                          |                          |                                                                        |                                                                                 |
|--------------------------|--------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| SEQN: 85822<br>FROM: RJL | COMN<br>Ply: 1<br>Qty: 2 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: D2 14'4" Common | Cust: R 857 JRef: 1Xa58570001 T7<br>DrwNo: 305.21.1321.04240<br>/ YK 11/01/2021 |
|--------------------------|--------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                            | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                   | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.041 E 999 360<br>VERT(CL): 0.075 E 999 240<br>HORZ(LL): 0.032 C - -<br>HORZ(TL): 0.058 C - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.438<br>Max BC CSI: 0.416<br>Max Web CSI: 0.091<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ /R- /Rh /Rw /U /RL<br>B 636 /- /- /353 /39 /127<br>F 636 /- /- /353 /39 /-<br>Wind reactions based on MWFRS<br>B Brg Wid = 3.5 Min Req = 1.5<br>F Brg Wid = 3.5 Min Req = 1.5<br>Bearings B & F are a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 352 -935 D - E 153 -607<br>C - D 152 -607 E - F 350 -935 |

**Lumber**  
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #1;  
Lt Slider: 2x4 SP #1; block length = 1.500'  
Rt Slider: 2x4 SP #1; block length = 1.500'

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



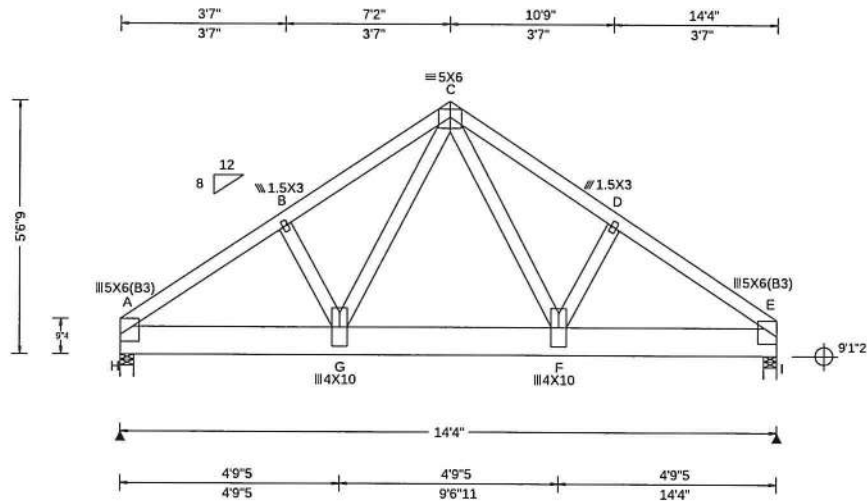
FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

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|                          |                          |                                                                               |                                                                                 |
|--------------------------|--------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| SEQN: 85848<br>FROM: RJL | COMN<br>Ply: 2<br>Qty: 1 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: D3 14'4" Common Girder | Cust: R 857 JRef: 1Xa58570001 T2<br>DrwNo: 305.21.1321.14763<br>/ YK 11/01/2021 |
|--------------------------|--------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|

2 Complete Trusses Required



| Loading Criteria (psf) | Wind Criteria                     | Snow Criteria (Pg,Pf in PSF)                                                                                  | Defll/CSI Criteria              | ▲ Maximum Reactions (lbs)                     |            |        |             |      |        |      |
|------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------|------------|--------|-------------|------|--------|------|
|                        |                                   |                                                                                                               |                                 | Gravity                                       |            |        | Non-Gravity |      |        |      |
| TCLL: 20.00            | Wind Std: ASCE 7-10               | Pg: NA Ct: NA CAT: NA                                                                                         | PP Deflection in loc L/defl L/# | Loc                                           | R+         | / R-   | / Rh        | / Rw | / U    | / RL |
| TCDL: 7.00             | Speed: 130 mph                    | Pf: NA Ce: NA                                                                                                 | VERT(LL): 0.051 F 999 360       | H                                             | 4225       | /-     | /-          | /-   | /143   | /-   |
| BCLL: 0.00             | Enclosure: Closed                 | Lu: NA Cs: NA                                                                                                 | VERT(CL): 0.094 F 999 240       | I                                             | 5469       | /-     | /-          | /-   | /218   | /-   |
| BCDL: 10.00            | Risk Category: II                 | Snow Duration: NA                                                                                             | HORZ(LL): 0.014 B - -           | Wind reactions based on MWFRS                 |            |        |             |      |        |      |
| Des Ld: 37.00          | EXP: B Kzt: NA                    | Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | HORZ(TL): 0.027 B - -           | H Brg Wid = 3.5 Min Req = 2.1                 |            |        |             |      |        |      |
| NCBCLL: 0.00           | Mean Height: 15.00 ft             |                                                                                                               | Creep Factor: 2.0               | I Brg Wid = 3.5 Min Req = 2.8                 |            |        |             |      |        |      |
| Soffit: 0.00           | TCDL: 4.2 psf                     |                                                                                                               | Max TC CSI: 0.384               | Bearings H & I are a rigid surface.           |            |        |             |      |        |      |
| Load Duration: 1.25    | BCDL: 5.2 psf                     |                                                                                                               | Max BC CSI: 0.293               | Members not listed have forces less than 375# |            |        |             |      |        |      |
| Spacing: 24.0 "        | MWFRS Parallel Dist: 0 to h/2     |                                                                                                               | Max Web CSI: 0.268              | Maximum Top Chord Forces Per Ply (lbs)        |            |        |             |      |        |      |
|                        | C&C Dist a: 3.00 ft               |                                                                                                               |                                 | Chords                                        | Tens.Comp. | Chords | Tens. Comp. |      |        |      |
|                        | Loc. from endwall: not in 4.50 ft |                                                                                                               |                                 | A - B                                         | 94         | - 2572 | C - D       | 104  | - 2748 |      |
|                        | GCpi: 0.18                        |                                                                                                               | VIEW Ver: 20.02.00A.1020.20     |                                               |            |        |             |      |        |      |
|                        | Wind Duration: 1.60               |                                                                                                               |                                 |                                               |            |        |             |      |        |      |

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x8 SP SS Dense;  
Webs: 2x4 SP #1;

#### Nailnote

Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 2 Rows @ 4.50" 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 28 plf at 0.00 to 28 plf at 14.33  
BC: From 10 plf at 0.00 to 10 plf at 14.33  
BC: 1137 lb Conc. Load at 1.60, 3.60, 5.60, 7.60  
BC: 1532 lb Conc. Load at 9.60, 11.60, 13.60

#### Wind

Wind loads and reactions based on MWFRS.



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11/01/2021

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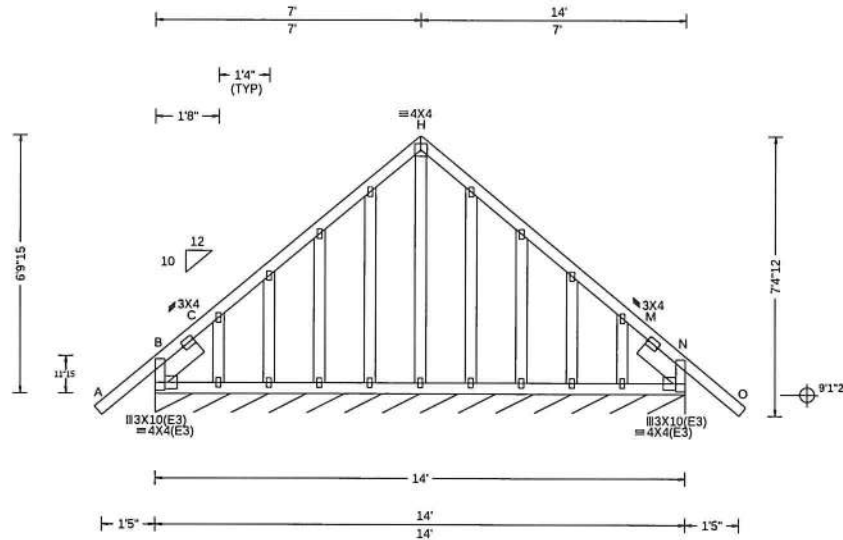
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|                          |                |                  |                                                                       |                                                                                  |
|--------------------------|----------------|------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 85854<br>FROM: RJL | GABL<br>Qty: 1 | Ply: 1<br>Qty: 1 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: E1-G 14' Gable | Cust: R 857 JRef: 1Xa58570001 T14<br>DrwNo: 305.21.1321.18000<br>/ YK 11/01/2021 |
|--------------------------|----------------|------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                    | ▲ Maximum Reactions (lbs), or *=-PLF                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.001 H 999 360<br>VERT(CL): 0.001 B 999 240<br>HORZ(LL): -0.003 B - -<br>HORZ(TL): 0.004 B - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.164<br>Max BC CSI: 0.017<br>Max Web CSI: 0.161<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ /R- /Rh /Rw /U /RL<br>N* 109 /- /- /48 /19 /13<br>Wind reactions based on MWFRS<br>N Brg Wid = 168 Min Req = -<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x6 SP #1; block length = 1.500'  
Rt Slider: 2x6 SP #1; block length = 1.500'

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Loading

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

#### Wind

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

#### Additional Notes

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



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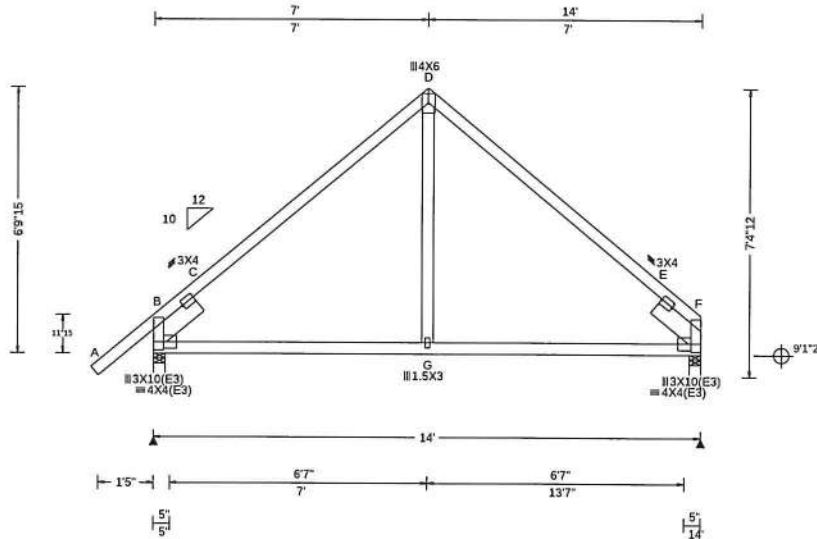
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|                          |                          |                                                                      |                                                                                  |
|--------------------------|--------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 85856<br>FROM: RJL | COMN<br>Ply: 1<br>Qty: 2 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: E2 14' Common | Cust: R 857 JRef: 1Xa58570001 T10<br>DrwNo: 305.21.1321.20450<br>/ YK 11/01/2021 |
|--------------------------|--------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                    | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br>Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.037 E 999 360<br>VERT(CL): 0.061 E 999 240<br>HORZ(LL): -0.036 E - -<br>HORZ(TL): 0.059 E - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.533<br>Max BC CSI: 0.580<br>Max Web CSI: 0.057<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B 760 /- /- /357 /32 /151<br>F 664 /- /- /286 /16 /-<br>Wind reactions based on MWFRS<br>B Brg Wid = 3.5 Min Req = 1.5<br>F Brg Wid = 3.5 Min Req = 1.5<br>Bearings B & F are a rigid surface.<br>Members not listed have forces less than 375#<br><b>Maximum Top Chord Forces Per Ply (lbs)</b><br>Chords Tens.Comp. Chords Tens. Comp.<br>B - C 178 - 778 D - E 145 - 698<br>C - D 146 - 703 E - F 227 - 840 |

#### Lumber

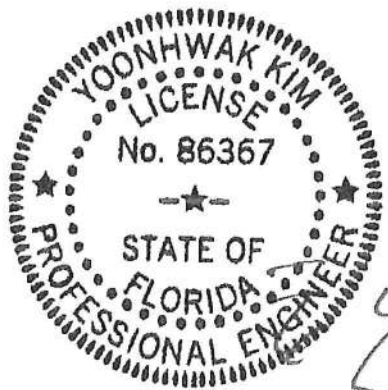
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #1;  
Lt Slider: 2x6 SP #1; block length = 1.500'  
Rt Slider: 2x6 SP #1; block length = 1.500'

#### 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.



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| Maximum Bot Chord Forces Per Ply (lbs) |            |        |             |
|----------------------------------------|------------|--------|-------------|
| Chords                                 | Tens.Comp. | Chords | Tens. Comp. |
| B - G                                  | 463 - 12   | G - F  | 463 - 12    |

| Maximum Web Forces Per Ply (lbs) |            |  |
|----------------------------------|------------|--|
| Webs                             | Tens.Comp. |  |
| D - G                            | 375 0      |  |

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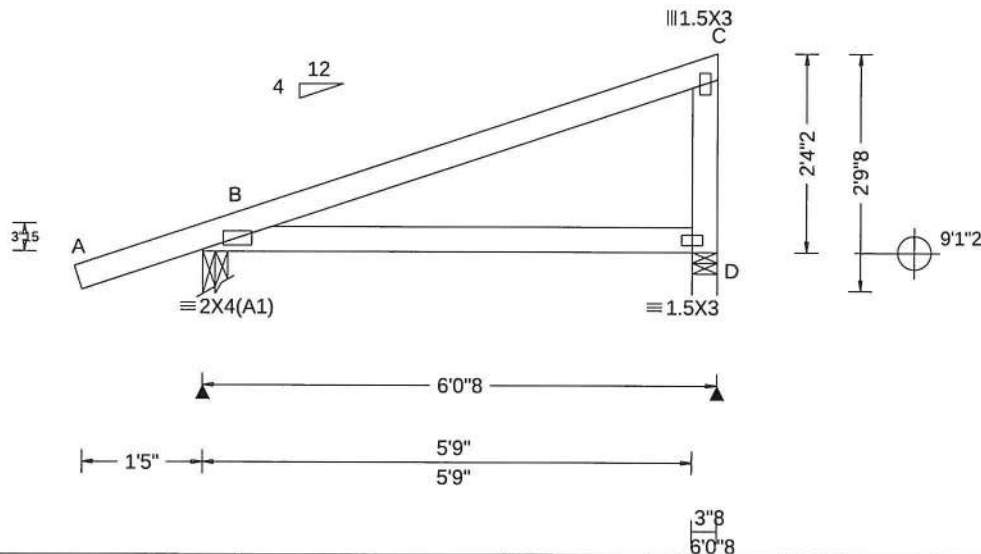
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For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbcacomponents.com](http://sbcacomponents.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)



6750 Forum Drive  
Suite 305  
Orlando FL, 32821

|                          |                           |                                                                      |                                                                                  |
|--------------------------|---------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 85852<br>FROM: RJL | MONO<br>Ply: 1<br>Qty: 11 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: G1 6'0"8 Mono | Cust: R 857 JRef: 1Xa58570001 T22<br>DrwNo: 305.21.1321.25223<br>/ YK 11/01/2021 |
|--------------------------|---------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria                     | Snow Criteria (Pg,Pf in PSF)                                                                                  | Defll/CSI Criteria              | ▲ Maximum Reactions (lbs)                     |                             |      |             |      |     |      |
|------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------|-----------------------------|------|-------------|------|-----|------|
|                        |                                   |                                                                                                               |                                 | Gravity                                       |                             |      | Non-Gravity |      |     |      |
| TCLL: 20.00            | Wind Std: ASCE 7-10               | Pg: NA Ct: NA CAT: NA                                                                                         | PP Deflection in loc L/defl L/# | Loc                                           | R+                          | / R- | / Rh        | / Rw | / U | / RL |
| TCDL: 7.00             | Speed: 130 mph                    | Pf: NA Ce: NA                                                                                                 | VERT(LL): NA                    | B                                             | 323                         | /-   | /-          | /188 | /16 | /35  |
| BCLL: 0.00             | Enclosure: Closed                 | Lu: NA Cs: NA                                                                                                 | VERT(CL): NA                    | D                                             | 203                         | /-   | /-          | /110 | /-  | /-   |
| BCDL: 10.00            | Risk Category: II                 | Snow Duration: NA                                                                                             | HORZ(LL): 0.007 B - -           | Wind reactions based on MWFRS                 |                             |      |             |      |     |      |
| Des Ld: 37.00          | EXP: B Kzt: NA                    | Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | HORZ(TL): 0.013 B - -           | B                                             | Brg Wid = 3.5 Min Req = 1.5 |      |             |      |     |      |
| NCBCLL: 10.00          | Mean Height: 15.00 ft             |                                                                                                               | Creep Factor: 2.0               | D                                             | Brg Wid = 3.5 Min Req = 1.5 |      |             |      |     |      |
| Soffit: 0.00           | TCDL: 4.2 psf                     |                                                                                                               | Max TC CSI: 0.330               | Bearings B & D are a rigid surface.           |                             |      |             |      |     |      |
| Load Duration: 1.25    | BCDL: 5.2 psf                     |                                                                                                               | Max BC CSI: 0.261               | Members not listed have forces less than 375# |                             |      |             |      |     |      |
| Spacing: 24.0 "        | 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               |                                                                                                               |                                 |                                               |                             |      |             |      |     |      |
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#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #1;

#### Wind

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

Right end vertical not exposed to wind pressure.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

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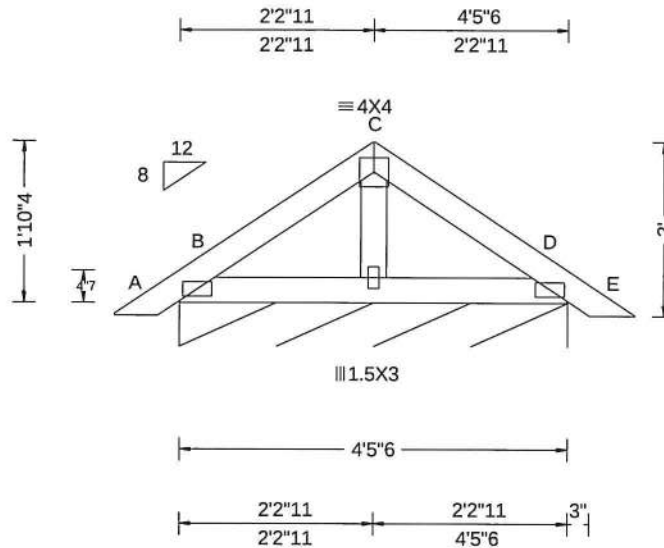
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821

|                             |                           |                                                                      |                                                                                         |
|-----------------------------|---------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| SEQN: 938263 /<br>FROM: RJL | GABL<br>Ply: 1<br>Qty: 37 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: PB1 6' Common | Cust: R 857 JRef: 1Xa58570001 T11 /<br>DrwNo: 305.21.1224.39727<br>SSB / WHK 11/01/2021 |
|-----------------------------|---------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                                              | Defl/CSI Criteria                                                                                                                                                                                                                                                    | ▲ Maximum Reactions (lbs), or * = PLF                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 20.86 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br><b>Code / Misc Criteria</b><br>Bldg Code: FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.000 F 999 360<br>VERT(CL): 0.000 F 999 240<br>HORZ(LL): -0.000 F - -<br>HORZ(TL): 0.000 F - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.037<br>Max BC CSI: 0.037<br>Max Web CSI: 0.005<br><br>VIEW Ver: 18.02.01A.0205.19 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B* 90 /- /- /43 /13 /10<br>Wind reactions based on MWFRS<br>B Brg Width = 53.4 Min Req = -<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #1;

#### Plating Notes

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

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
See DWGS A14030ENC101014 & GBLLETIN0118 for  
gable wind bracing and other requirements.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

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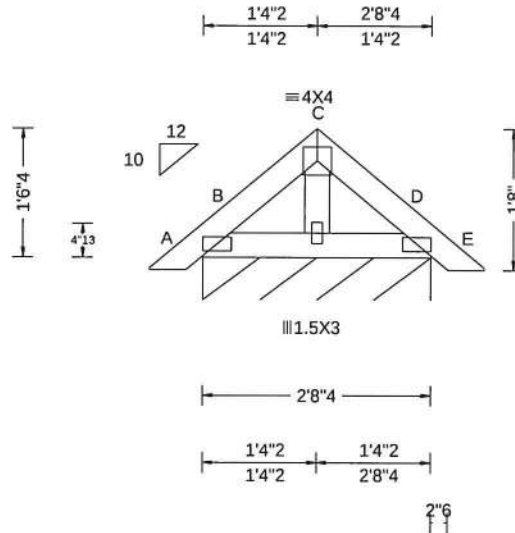
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



6750 Forum Drive  
Suite 305  
Orlando FL, 32821

|                             |                          |                                                                      |                                                                                         |
|-----------------------------|--------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| SEQN: 938265 /<br>FROM: RJL | GABL<br>Ply: 1<br>Qty: 3 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: PB2 4' Common | Cust: R 857 JRef: 1Xa58570001 T16 /<br>DrwNo: 305.21.1224.39728<br>SSB / WHK 11/01/2021 |
|-----------------------------|--------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                       | Snow Criteria (Pg, Pf in PSF)                                                                                                                                                                                              | Defl/CSI Criteria                                                                                                                                                                                                                                                    | ▲ Maximum Reactions (lbs), or *PLF                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 20.94 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA<br>Pf: NA Ce: NA<br>Lu: NA Cs: NA<br>Snow Duration: NA<br><br><b>Code / Misc Criteria</b><br>Bldg Code: FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT: 20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.000 F 999 360<br>VERT(CL): 0.000 F 999 240<br>HORZ(LL): -0.000 F - -<br>HORZ(TL): 0.000 F - -<br>Creep Factor: 2.0<br>Max TC CSI: 0.015<br>Max BC CSI: 0.010<br>Max Web CSI: 0.004<br><br>VIEW Ver: 18.02.01A.0205.19 | Gravity Non-Gravity<br>Loc R+ / R- / Rh / Rw / U / RL<br>B* 97 /- /- /48 /13 /15<br>Wind reactions based on MWFRS<br>B Brg Width = 32.3 Min Req = -<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #1;

#### Plating Notes

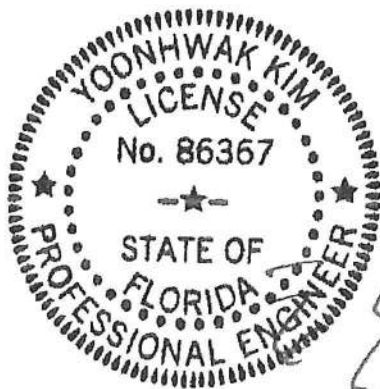
All plates are 2X4(B1) except as noted.

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
See DWGS A14030ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

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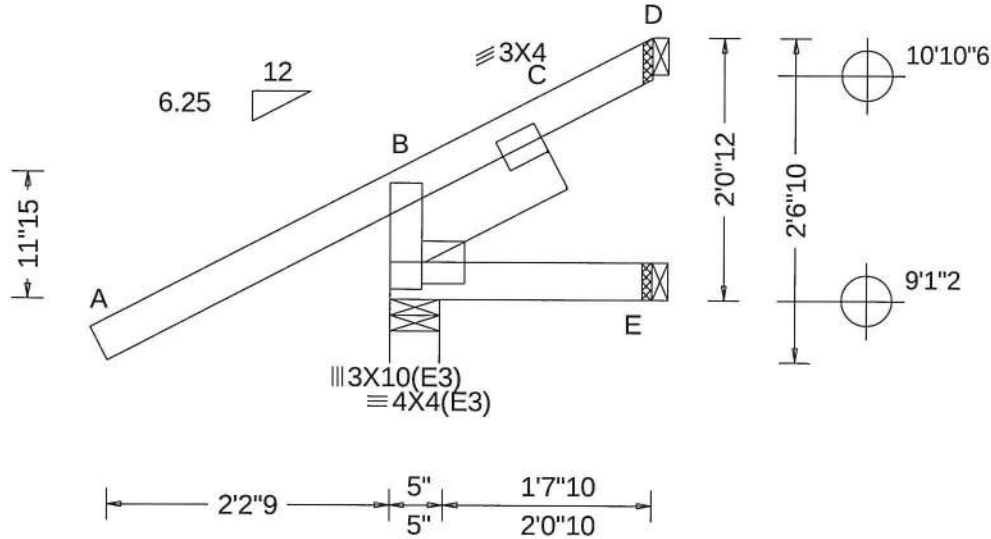
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



6750 Forum Drive  
Suite 305  
Orlando FL, 32821

|                          |      |                  |                                                                                  |                                                                                  |
|--------------------------|------|------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 85860<br>FROM: RJL | HIP_ | Ply: 1<br>Qty: 1 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: JA 2'0"10 Hip Jack Girder | Cust: R 857 JRef: 1Xa58570001 T23<br>DrwNo: 305.21.1321.28550<br>/ YK 11/01/2021 |
|--------------------------|------|------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria                 | Snow Criteria (Pg,Pf in PSF)                                                                                  | Defl/CSI Criteria               | ▲ Maximum Reactions (lbs)                     |                             |      |             |      |     |      |
|------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------|-----------------------------|------|-------------|------|-----|------|
|                        |                               |                                                                                                               |                                 | Gravity                                       |                             |      | Non-Gravity |      |     |      |
| TCLL: 20.00            | Wind Std: ASCE 7-10           | Pg: NA Ct: NA CAT: NA                                                                                         | PP Deflection in loc L/defl L/# | Loc                                           | R+                          | / R- | / Rh        | / Rw | / U | / RL |
| TCDL: 7.00             | Speed: 130 mph                | Pf: NA Ce: NA                                                                                                 | VERT(LL): NA                    | B                                             | 124                         | /-   | /-          | /-   | /16 | /-   |
| BCLL: 0.00             | Enclosure: Closed             | Lu: NA Cs: NA                                                                                                 | VERT(CL): NA                    | E                                             | 4                           | /-   | /-          | /3   | /-  | /-   |
| BCDL: 10.00            | Risk Category: II             | Snow Duration: NA                                                                                             | HORZ(LL): -0.002 C - -          | D                                             | -                           | /-23 | /-          | /2   | /-  | /-   |
| Des Ld: 37.00          | EXP: B Kzt: NA                | Building Code:<br>FBC 2017 RES<br>TPI Std: 2014<br>Rep Fac: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | HORZ(TL): 0.003 C - -           | Wind reactions based on MWFRS                 |                             |      |             |      |     |      |
| NCBCLL: 0.00           | Mean Height: 15.00 ft         |                                                                                                               | Creep Factor: 2.0               | B                                             | Brg Wid = 4.7 Min Req = 1.5 |      |             |      |     |      |
| Soffit: 0.00           | TCDL: 4.2 psf                 |                                                                                                               | Max TC CSI: 0.154               | E                                             | Brg Wid = 1.5               |      |             |      |     |      |
| Load Duration: 1.25    | BCDL: 5.2 psf                 |                                                                                                               | Max BC CSI: 0.004               | D                                             | Brg Wid = 1.5               |      |             |      |     |      |
| Spacing: 24.0 "        | MWFRS Parallel Dist: 0 to h/2 |                                                                                                               | Max Web CSI: 0.002              | Bearing B is a rigid surface.                 |                             |      |             |      |     |      |
|                        | C&C Dist a: 3.00 ft           |                                                                                                               |                                 | Members not listed have forces less than 375# |                             |      |             |      |     |      |
|                        | Loc. from endwall: NA         |                                                                                                               |                                 |                                               |                             |      |             |      |     |      |
|                        | GCpi: 0.18                    |                                                                                                               |                                 |                                               |                             |      |             |      |     |      |
|                        | Wind Duration: 1.60           |                                                                                                               |                                 |                                               |                             |      |             |      |     |      |
|                        |                               |                                                                                                               | VIEW Ver: 20.02.00A.1020.20     |                                               |                             |      |             |      |     |      |

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Lt Slider: 2x6 SP #1; block length = 1.500'

#### Loading

Hipjack supports 1-5-7 setback jacks with no webs.

#### Wind

Wind loads and reactions based on MWFRS.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

#### \*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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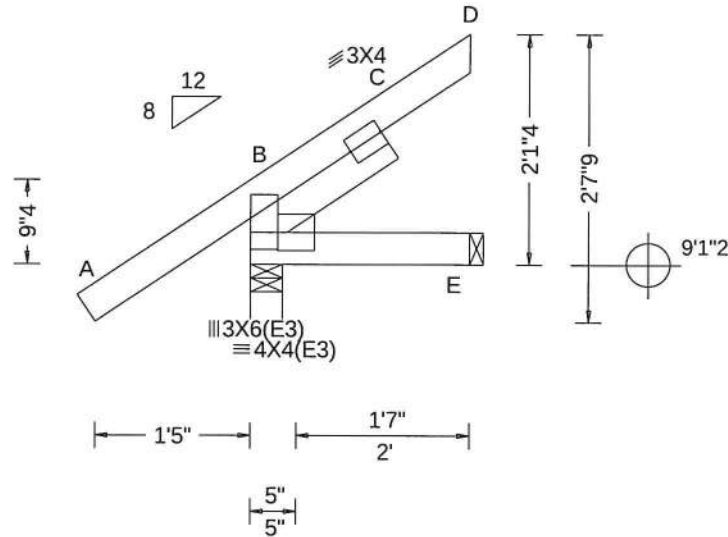
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For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbccomponents.com](http://sbccomponents.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)



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Orlando FL, 32821

|                          |      |                  |                                                                       |                                                                                  |
|--------------------------|------|------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEQN: 85858<br>FROM: RJL | EJAC | Ply: 1<br>Qty: 7 | Job Number: Z31880<br>FALLER RESIDENCE<br>Truss Label: JB 2' End Jack | Cust: R 857 JRef: 1Xa58570001 T12<br>DrwNo: 305.21.1321.34803<br>/ YK 11/01/2021 |
|--------------------------|------|------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|



| Loading Criteria (psf)                                                                                                                             | Wind Criteria                                                                                                                                                                                                                                                                                  | Snow Criteria (Pg,Pf in PSF)                                                                                                                                                                      | Defl/CSI Criteria                                                                                                                                                                                                                                                       | ▲ Maximum Reactions (lbs)                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00<br>TCDL: 7.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 37.00<br>NCBCLL: 10.00<br>Soffit: 0.00<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: B Kzt: NA<br>Mean Height: 15.00 ft<br>TCDL: 4.2 psf<br>BCDL: 5.2 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: No<br>FT/RT:20(0)/10(0)<br>Plate Type(s):<br>WAVE | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.034 D 710 360<br>VERT(CL): 0.057 D 417 240<br>HORZ(LL): 0.028 D - -<br>HORZ(TL): 0.047 D - -<br><br>Creep Factor: 2.0<br>Max TC CSI: 0.121<br>Max BC CSI: 0.082<br>Max Web CSI: 0.063<br><br>VIEW Ver: 20.02.00A.1020.20 | Gravity Non-Gravity<br>Loc R+ /R- /Rh /Rw /U /RL<br>B 194 /- /- /129 /12 /45<br>E 47 /- /- /39 /9 /-<br>Wind reactions based on MWFRS<br>B Brg Wid = 3.5 Min Req = 1.5<br>E Brg Wid = 1.5<br>Bearing B is a rigid surface.<br>Members not listed have forces less than 375# |

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Lt Slider: 2x4 SP #1; block length = 1.500'

#### Wind

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
11/01/2021

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6750 Forum Drive  
Suite 305  
Orlando FL, 32821

ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C,  $K_z t = 1,000$

|    |         |                 |                                                         |
|----|---------|-----------------|---------------------------------------------------------|
| Dn | 120 mph | Wind Speed, 15' | Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00 |
| Dn | 120 mph | Wind Speed, 15' | Mean Height, Enclosed, Exposure D, Kzt = 1.00           |
| Dn | 100 mph | Wind Speed, 15' | Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00 |

| Bracing Group Species and Grades:                                                                                                                                                       |          |               |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|----------|
| Group A:                                                                                                                                                                                |          |               |          |
| Spruce-Pine-Fir                                                                                                                                                                         |          | Hem-Fir       |          |
| #1 / #2                                                                                                                                                                                 | Standard | #2            | Stud     |
| #3                                                                                                                                                                                      | Stud     | #3            | Standard |
| Douglas Fir-Larch                                                                                                                                                                       |          | Southern Pine |          |
| #3                                                                                                                                                                                      |          | #3            |          |
| Stud                                                                                                                                                                                    |          | Stud          |          |
| Standard                                                                                                                                                                                |          | Standard      |          |
| Group B:                                                                                                                                                                                |          |               |          |
| Hem-Fir                                                                                                                                                                                 |          |               |          |
| #1 & 2                                                                                                                                                                                  |          |               |          |
| #1                                                                                                                                                                                      |          |               |          |
| Douglas Fir-Larch                                                                                                                                                                       |          | Southern Pine |          |
| #1                                                                                                                                                                                      |          | #1            |          |
| #2                                                                                                                                                                                      |          | #2            |          |
| <p>1x4 Braces shall be SRS (Stress-Rated Board).</p> <p>For 1x4 Ss. Pine use only Industrial Ss or Industrial 4S Stress-Rated Boards. Group B values may be used with these grades.</p> |          |               |          |
| Gable Truss Details:                                                                                                                                                                    |          |               |          |
| Wind Load deflection criterion is L/240.                                                                                                                                                |          |               |          |
| Provide uplift connections for SS pif over eave and supports bearing 65 psf TC Dead Load.                                                                                               |          |               |          |
| Gable end supports load from 4' 0" outtoeing with 2' 0" overhang, or 12" plywood overhang.                                                                                              |          |               |          |

## 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" outliners with 2' 0" overhang, or 12" plywood overhang

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

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

In 16' end zones and 4' o.c. between zones.

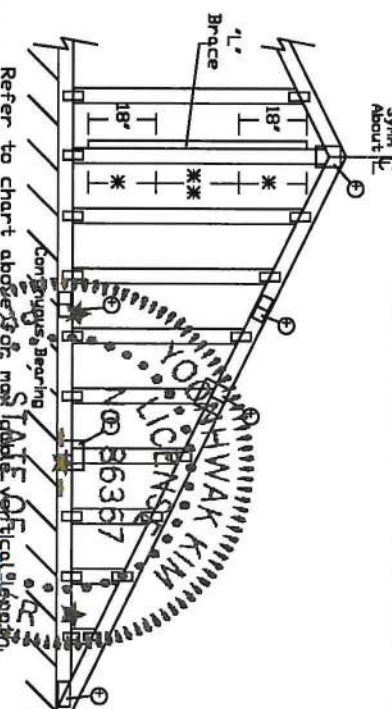
in 18' end zones and 6' o.c. between zones.

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

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

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

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



Refer to chart above for more details.

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING  
ELEMENTS THAT BELONG TO AN CONTRACTOR NOT UNDER THE GENERAL CONTRACTOR

**WARNING—READ AND FOLLOW ALL NOTES IN THIS DRAWING**

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

In cases require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of AISC's Loading Component Safety Information, by TPI and SBCO. For safety factors noted otherwise than as specified herein. Installation and erection of equipment involving heavy lifting must be done in accordance with applicable codes and regulations. All components shall have bracing installed per AISC sections K2, J7 or K10, as applicable. Apply plates to each face of braces and position as shown above and on the next details, unless noted otherwise.



514 Earth City Expressway  
Suite 242  
Earth City, MO 63045

For more information see this job's general notes page and these web sites:  
 UNPINED [www.alphaletter.com](http://www.alphaletter.com) TPU [www.tphysic.org](http://www.tphysic.org) SBCh [www.sbchcorporation.com](http://www.sbchcorporation.com) ICD [www.icd.com](http://www.icd.com)  
 Yoonhwak Kim Et. Ph. #86367

MAX. SPACING 24.0"

|     |                   |
|-----|-------------------|
| REF | ASCE7-10-GABI4015 |
|-----|-------------------|

DATE 10/01/14

DRWG A14015ENC101014

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

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

## Gable Stud Reinforcement Detail

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

**Bracing Group Species and Grades:**

|                                         |                                 |
|-----------------------------------------|---------------------------------|
| Service-Pine-Fir<br>#1 / #2<br>Standard | Group A1<br>#2<br>Stud          |
| Group B1<br>#1 & 2Btr                   | Southern Pine<br>#3<br>Standard |

**Group B1**

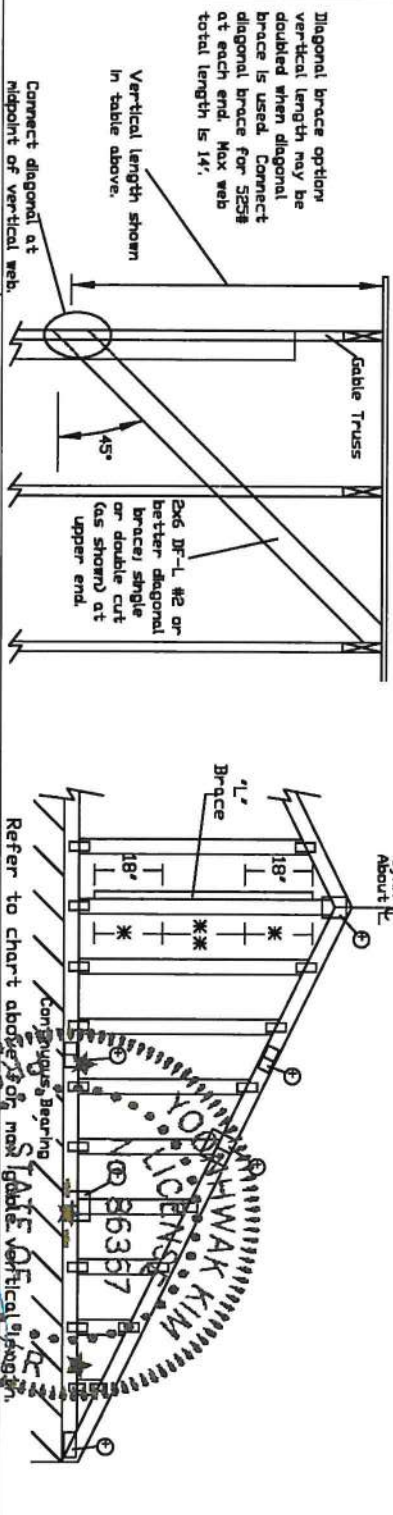
1x4 Braces shall be SPS C-Stress-Rated Board, Industrial 45 Stress-Rated Boards, Group B values may be used with these grades.

**Gable Truss Detail Notes:**

Wind load deflection criterion is L/240.

Provide uplift connections for 100 psf over continuous bearing to psf TC Dead Load.

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



**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.**

**ALPINE**  
AN INW COMPANY

514 Earth City Expressway  
Suite 242  
Earth City, MO 63045

**MAX. TIT. L.D. 60 PSF**

**MAX. SPACING 24.0"**

**REF** ASCE7-10-GAB14030

**DATE** 10/01/14

**DRWG** A14030ENC101014

# NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCE THIS DETAIL.

- LOAD PERPENDICULAR TO GRAIN
- A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
  - B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
  - C - END DISTANCE (15 NAIL DIAMETERS)

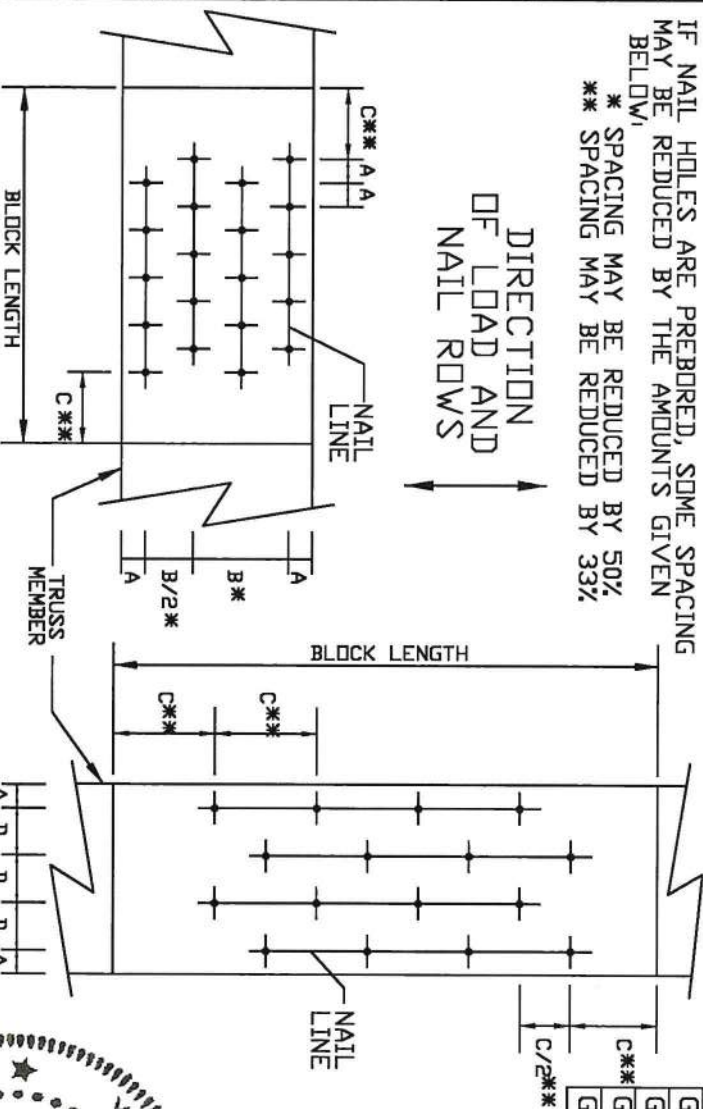
LOAD PARALLEL TO GRAIN

- A - EDGE DISTANCE (6 NAIL DIAMETERS)
- C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)
- D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

- \* SPACING MAY BE REDUCED BY 50%
- \*\* SPACING MAY BE REDUCED BY 33%

DIRECTION OF LOAD AND NAIL ROWS



## MINIMUM NAIL SPACING DISTANCES

| NAIL TYPE                        | DISTANCES |        |        |        |
|----------------------------------|-----------|--------|--------|--------|
|                                  | A         | B*     | C**    | D      |
| 8d BDX (0.113" X 2.5", MIN)      | 3/4"      | 1 3/8" | 1 3/4" | 7/8"   |
| 10d BDX (0.128" X 3", MIN)       | 7/8"      | 1 5/8" | 2"     | 1"     |
| 12d BDX (0.128" X 3.25", MIN)    | 7/8"      | 1 5/8" | 2"     | 1"     |
| 16d BDX (0.135" X 3.5", MIN)     | 7/8"      | 1 5/8" | 2 1/8" | 1 1/8" |
| 20d BDX (0.148" X 4", MIN)       | 1"        | 1 7/8" | 2 1/4" | 1 1/8" |
| 8d COMMON (0.131" X 2.5", MIN)   | 7/8"      | 1 5/8" | 2"     | 1"     |
| 10d COMMON (0.148" X 3", MIN)    | 1"        | 1 7/8" | 2 1/4" | 1 1/8" |
| 12d COMMON (0.148" X 3.25", MIN) | 1"        | 1 7/8" | 2 1/4" | 1 1/8" |
| 16d COMMON (0.162" X 3.5", MIN)  | 1"        | 2"     | 2 1/2" | 1 1/4" |
| GUN (0.120" X 2.5", MIN)         | 3/4"      | 1 1/2" | 1 7/8" | 1"     |
| GUN (0.131" X 2.5", MIN)         | 7/8"      | 1 5/8" | 2"     | 1"     |
| GUN (0.120" X 3", MIN)           | 3/4"      | 1 1/2" | 1 7/8" | 1"     |
| GUN (0.131" X 3", MIN)           | 7/8"      | 1 5/8" | 2"     | 1"     |

LOAD APPLIED PERPENDICULAR TO GRAIN

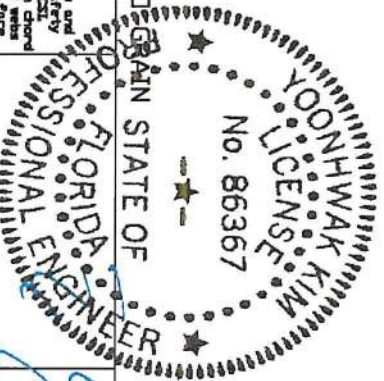
LOAD APPLIED PARALLEL TO GRAIN

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BSI Building Component Safety Information, by TPI and SDOA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BSI practices. Trusses shall have bracing installed per BSI sections 32, 37 or 200, 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 1604-2 for standard plate positions.

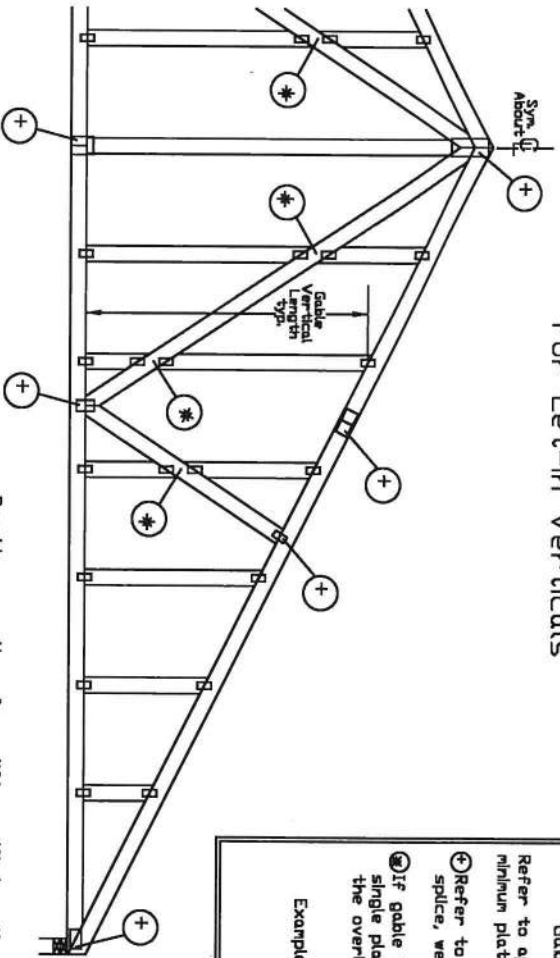
Alpine, a division of TTV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing or covering. This drawing indicates acceptance of professional engineer's seal and signature. The engineer shall be responsible for the design and bracing of the structure. For any structure in the responsibility of the building designer per ANSI/TPI 1, Section 200. For more information see the job's general notes page and those with this drawing.

514 Earth City Expressway  
Suite 242  
Earth City, MO 63045



REF NAIL SPACE  
DATE 10/01/14  
DRWG C>NNAIL.SP1014

# Gable Detail For Let-In Verticals



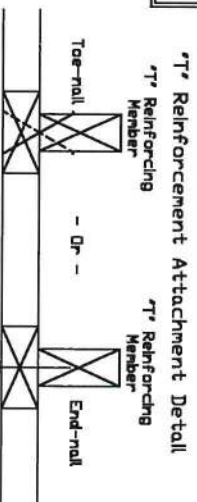
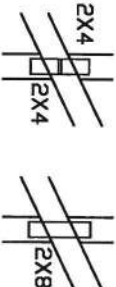
## Gable Truss Plate Sizes

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

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

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

Example:



Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:  
10d Common (0.148" x 3.2" min) Nails at 4' o.c. plus  
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148" x 3.2" 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, A14015051014,  
A13030051014, A12030051014, A11030051014, A14030051014

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

A11515ENC100118, A12015ENC100118, A14015ENC100118, A13015ENC100118,  
A11530ENC100118, A12030ENC100118, A14030ENC100118, A13030ENC100118,  
A118030ENC100118, A20030ENC100118, A20030ENC100118, A20030ENC100118,  
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,  
S18015ENC100118, S20015ENC100118, S20015ENC100118, S20015ENC100118,  
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,  
S18030ENC100118, S20030ENC100118, S20030ENC100118

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

## MINIMUM REQUIREMENTS FOR ALL DRAWINGS INCLUDING THE INSTALLER:

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCI Building Component Society Information, by TPI and SBCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCI. Trusses shall be braced in accordance with the BCI Building Component Society Information. Trusses shall have bracing installed per BCI sections 32, 37 or 20, 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 1504-2 for standard plate positions.

Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviation from the drawing, or for any failure of the truss in accordance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. The design of the truss is the responsibility of the professional engineering responsible for the design. The design of the truss is the responsibility of the professional engineering responsible for the design. The design of the truss is the responsibility of the professional engineering responsible for the design. The design of the truss is the responsibility of the professional engineering responsible for the design.



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% = 1.20  
(1) 2x4 'L' Brace Length = 8' 7"  
Maximum 'T' Reinforced Gable Vertical Length 1.30 x 8' 7" = 11' 2"

| REF  | LET-IN VERT  |
|------|--------------|
| DATE | 01/02/2018   |
| DRWG | GBLETTIN0118 |

|               |        |
|---------------|--------|
| MAX. TOT. LD. | 60 PSF |
| DUR. FAC.     | ANY    |
| MAX. SPACING  | 24.0'  |



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

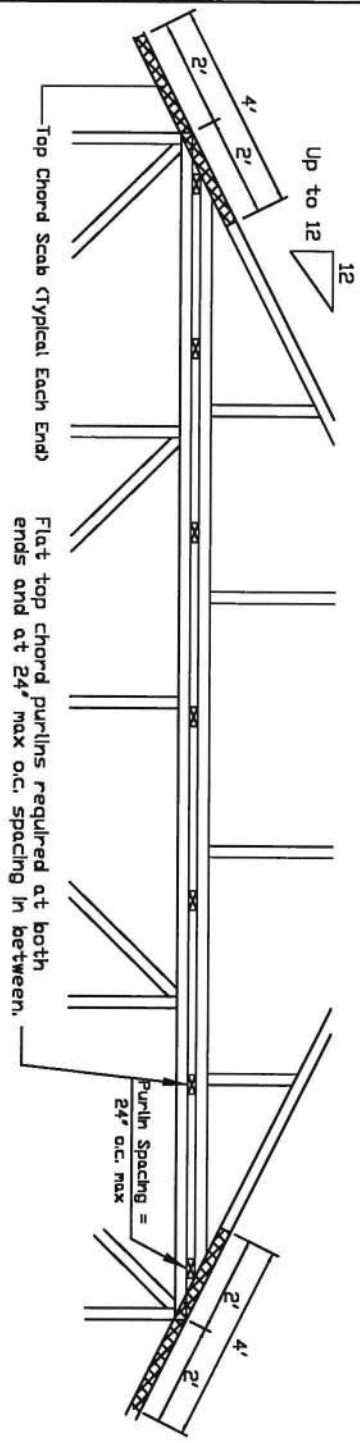
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp C, Wind DL= 50 psf (min), Kzt=1.0.  
 Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp D, Wind DL= 50 psf (min), Kzt=1.0.

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

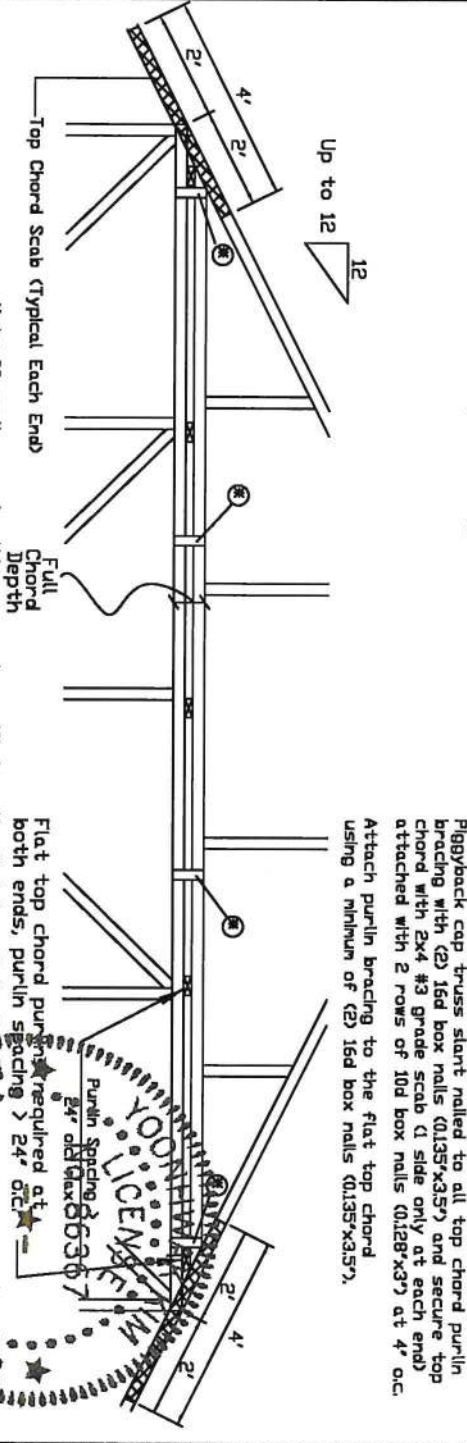


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

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 (2) 2BPB wave piggyback plate attached 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").

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.

2BPB Wave Piggyback Plate: One 2BPB wave piggyback plate to each face @ 8' o.c. Attach with 10d box nails to piggyback truss and 10d box nails to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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



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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BSI Building Component Safety Information, by TPI and SBCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BSI. Trusses shall have bracing installed per BSI sections 32, 37 or 300, 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 1504-2 for standard plate positions.

Alpine, a division of TTV 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, or installing the truss. The responsibility of the building designer per ANSI/TPI 1 shall remain with the building designer. For any structure is the responsibility of the building designer per ANSI/TPI 1 shall remain with the building designer.

For more information see the job's general notes page and these notes with 01/20/21.

ALPINE: www.alpineinc.com TPI: www.tpiinc.com SBCA: www.sbcainc.com YTD: www.ytdinc.com

01/20/21  
 278  
 Yoonhwak Kim, FL PE #66367

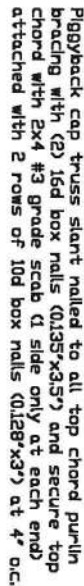
|         |             |
|---------|-------------|
| SPACING | 24.0'       |
| REF     | PIGGYBACK   |
| DATE    | 01/02/2018  |
| DRWG    | PB160160118 |

Dr 160 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Part, Enclosed Bldg, located anywhere in roof, Exp C, Wind DL= 5.0 psf (m/n), Kzt=1.0, 180 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Part, Enclosed Bldg, located anywhere in roof, Exp C, Wind DL= 5.0 psf (m/n), Kzt=1.0, Dr 160 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Part, Enclosed Bldg, located anywhere in roof, Exp D, Wind DL= 5.0 psf (m/n), Kzt=1.0

**Note:** Top chords of trusses supporting pliggback 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.



++ Flat top chord purllins required at both ends and at a maximum of 24' intervals unless otherwise noted on base truss design drawing. Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0135X35).

One 28P3 wave piggyback plate to each face of 8" o.c. Attach teeth to piggyback at time of fabrication. Attach teeth to supporting truss with (4) 0.120"x1/32" nails per face per ply.  
Piggyback plates 1/4" staggered 4" o.c. front to back faces.

**2x4 SPACER SALEWAY**

2x4 SPACER: 2x4, 8' long, 1/2" thick (each face). Attach to 8" o.c. with (2) 0.120"x3/32" per stud, (3) 1/2" deep bottom chord and (3) in base truss top chord. Spacers may be staggered 4" o.c. front to back.

NO. 00007

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of AISC (American Institute of Steel Construction) Safety Information, by IPI and AISI for safety practices proper to performing these functions. Installers shall provide temporary bracing per AISC. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid deck. Locations shown for permanent lateral restraint of webs shall have bracing installed per AISC sections I2, I7 or I10, 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 I10B-2 for standard plate positions.

Alpine, a division of ITV 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 & erection of trusses.

A seal on this drawing or cover page listing this drafter, 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.alpine.com](http://www.alpine.com) IPD [www.ipd.com](http://www.ipd.com) SCSA [www.scsa.com](http://www.scsa.com) ICD [www.icd.com](http://www.icd.com)

ALPINE www.alpinetools.com TPJ www.tpjstools.com SBC www.sbccomponents.com ICD www.icdusa.com  
Yoonhwak Kim E.I. DE #86367

## SPACING

24.0"

REF PIGGYBACK

DATE 01/02/2018

DRWG PB180160118



