

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

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| Site Information: | Page 1: |
|-----------------------------------------------|---------------------|
| Customer: W. B. Howland Company, Inc. | Job Number: 20-4966 |
| Job Description: Dale and Karla Nickelson Res | |
| Address: | |

| Job Engineering Criteria: | | |
|-----------------------------------|-----------------------|-------------------------------------------------------------------------|
| Design Code: FBC 7th Ed. 2020 Res | | IntelliVIEW Version: 20.01.01A through 20.02.01A JRef #: 1X2e2150002 |
| Wind Standard: ASCE 7-16 | Wind Speed (mph): 130 | Design Loading (psf): 40.00, 55.00 |
| Building Type: Closed | | |

This package contains general notes pages, 42 truss drawing(s) and 6 detail(s).

| Item | Drawing Number | Truss |
|------|-------------------|-------|
| 1 | 026.21.1006.45375 | A01 |
| 3 | 026.21.1028.22487 | A01B |
| 5 | 026.21.1006.45532 | A03 |
| 7 | 026.21.1006.46094 | A05 |
| 9 | 026.21.1006.45547 | A07 |
| 11 | 026.21.1006.45579 | B01 |
| 13 | 026.21.1006.46032 | B03 |
| 15 | 026.21.1006.46171 | B05 |
| 17 | 026.21.1006.45718 | C02 |
| 19 | 026.21.1006.45968 | C04 |
| 21 | 026.21.1006.46157 | C06 |
| 23 | 026.21.1006.46188 | E01 |
| 25 | 026.21.1006.46313 | E03 |
| 27 | 026.21.1006.45954 | F04 |
| 29 | 026.21.1006.46296 | FT02 |
| 31 | 026.21.1006.46063 | M02 |
| 33 | 026.21.1006.45735 | M04 |
| 35 | 026.21.1006.45781 | PB02 |
| 37 | 026.21.1006.45796 | PB03 |
| 39 | 026.21.1006.45766 | PB06 |
| 41 | 026.21.1006.46235 | PB08 |
| 43 | A14015ENC160118 | |
| 45 | BRCLBSUB0119 | |
| 47 | PB160160118 | |

| Item | Drawing Number | Truss |
|------|-------------------|-------|
| 2 | 026.21.1006.46126 | A01A |
| 4 | 026.21.1006.45703 | A02 |
| 6 | 026.21.1006.45406 | A04 |
| 8 | 026.21.1006.45282 | A06 |
| 10 | 026.21.1006.45875 | A08 |
| 12 | 026.21.1006.45485 | B02 |
| 14 | 026.21.1006.45593 | B04 |
| 16 | 026.21.1006.45656 | C01 |
| 18 | 026.21.1006.45907 | C03 |
| 20 | 026.21.1006.45329 | C05 |
| 22 | 026.21.1006.45923 | D01 |
| 24 | 026.21.1006.46001 | E02 |
| 26 | 026.21.1006.45516 | F03 |
| 28 | 026.21.1006.45359 | F05 |
| 30 | 026.21.1006.45844 | M01 |
| 32 | 026.21.1006.45313 | M03 |
| 34 | 026.21.1006.46218 | PB01 |
| 36 | 026.21.1006.46156 | PB03 |
| 38 | 026.21.1006.45344 | PB04 |
| 40 | 026.21.1006.45578 | PB07 |
| 42 | 026.21.1006.45921 | PB09 |
| 44 | A14030ENC160118 | |
| 46 | GBLLETIN0118 | |
| 48 | STRBRI1014 | |

General Notes

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

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

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

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

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

Temporary Lateral Restraint and Bracing:

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

Permanent Lateral Restraint and Bracing:

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

Connector Plate Information:

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

Fire Retardant Treated Lumber:

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

General Notes (continued)

Key to Terms:

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

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

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

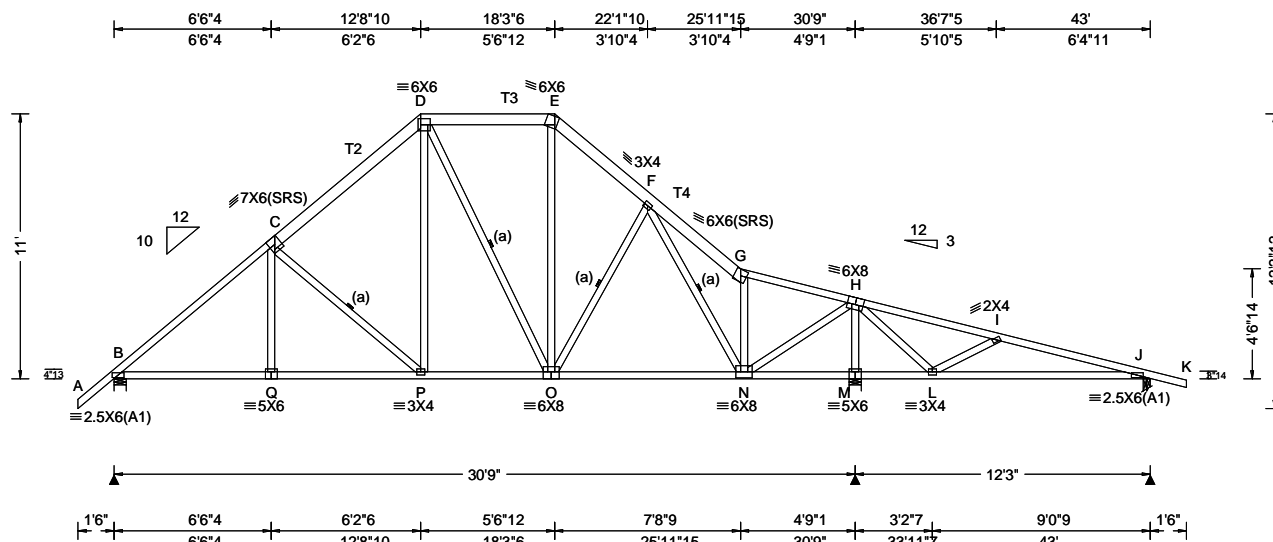
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

References:

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

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|-------------------------------------|---------------|----------------------------------|---------------------------------|----------------------------|
| Job Number: 20-4966 | Ply: 1 | SEQN: 335897 / T27 / COMN | Cust: R215 | JRef: 1X2e2150002 |
| Dale and Karla Nickelson Res | Qty: 2 | FROM: CDM | DrwNo: 026.21.1006.45375 | KD / WHK 01/26/2021 |
| Truss Label: A01 | | | | |



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.23 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.30 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.052 P 999 240 VERT(TL): 0.102 P 999 180 HORZ(LL): 0.025 N - - HORZ(TL): 0.049 N - - Creep Factor: 2.0 Max TC CSI: 0.558 Max BC CSI: 0.734 Max Web CSI: 0.784 VIEW Ver: 20.02.01A.1209.11 | Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1479 -/- /- /878 -/- /365 M 2219 -/- /- /1095 -/- /- J 440 -/- /- /221 /99 -/- Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.7 M Brg Width = 6.0 Min Req = 2.6 J Brg Width = 3.5 Min Req = 1.5 Bearings B, M, & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. |

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2 T2,T3,
T4 2x6 SP 2400f-2.0E;
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Lumber value set "13B" uses design values approved
1/30/2013 by ALSC

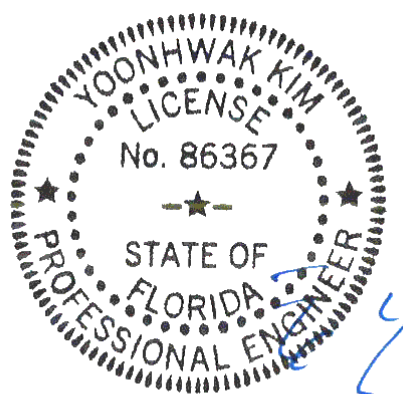
Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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

Additional Notes
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 11-0-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

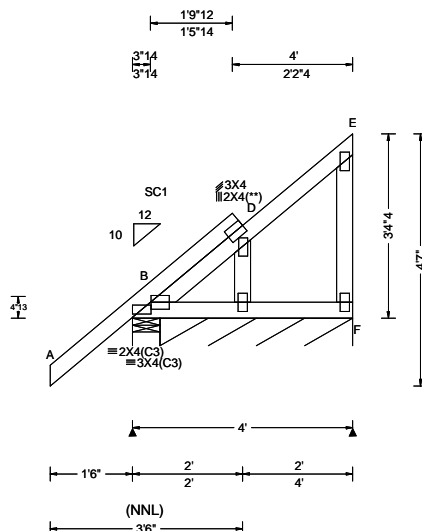
| Maximum Bot Chord Forces Per Ply (lbs) | | | |
|----------------------------------------|------------|--------|-------------|
| Chords | Tens.Comp. | Chords | Tens. Comp. |
| B - Q | 1289 -29 | O - N | 1073 0 |
| Q - P | 1286 -30 | N - M | 57 -792 |
| P - O | 985 0 | M - L | 58 -766 |

| Maximum Web Forces Per Ply (lbs) | | | |
|----------------------------------|------------|-------|-------------|
| Webs | Tens.Comp. | Webs | Tens. Comp. |
| C - P | 130 -410 | N - H | 2059 0 |
| D - P | 455 -32 | M - H | 0 -2215 |
| O - E | 484 -17 | H - L | 662 0 |
| G - N | 15 -906 | L - I | 138 -563 |

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

| | | | |
|-----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A01A | Ply: 1 Qty: 1 | SEQN: 335884 / T11 / GABL FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46126 KD / WHK 01/26/2021 |
|-----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 16.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.001 G 999 240 VERT(TL): 0.001 G 999 180 HORZ(LL): -0.000 E - - HORZ(TL): 0.001 E - - Creep Factor: 2.0 Max TC CSI: 0.128 Max BC CSI: 0.044 Max Web CSI: 0.011 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 172 -/- /- /141 /17 /47 F* 37 -/- /- /29 -/- /- Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.5 F Brg Width = 42.0 Min Req = - Bearings B & B are a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

All plates are 2X4 except as noted.

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

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

Right end vertical not exposed to wind pressure.

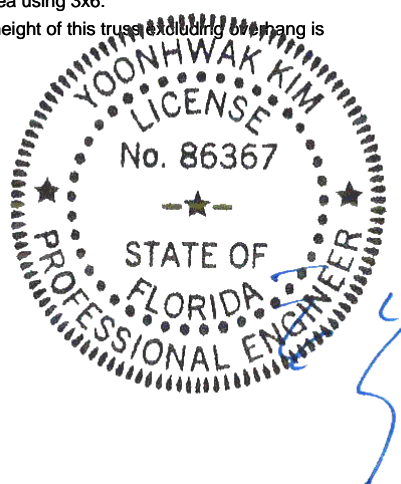
Wind loading based on both gable and hip roof types.

Additional Notes

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

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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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

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2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

The drawing shows a roof truss system with the following details:

- Top Chords:**
 - Left side: 7X6(SRS) from joint C to D.
 - Right side: 6X8(SRS) from joint J to I.
- Internal Truss Members:**
 - Vertical: 2X4 (U, T, S, R, P, O), 5X5 (V, W, X, Y), 5X6 (Q).
 - Horizontal: 3X4 (D, E, F, G, H), 3X8 (F, G), 2X4 (H, I), 2X4 (J, K).
 - Diagonal: 4X5 (D, E), 4X5 (G, H), 6X8 (I, J), 2X4 (K, L).
- Dimensions:**
 - Horizontal:**
 - Top: 6'8" (6'8"), 12'2"8 (5'6"8"), 12'8"10 (6'2"), 18'3"6 (2'9"6"), 25'11"15 (7'8"9"), 30'9" (4'9"1"), 36'7"5 (5'10"5"), 43' (6'4"11").
 - Bottom: 1'6" (6'8"), 6'8" (12'2"8"), 5'6"8 (18'9"8"), 6'7" (25'11"15"), 7'2"6 (30'9"), 4'9"1 (33'11"7"), 3'2"7 (9'0"9"), 43' (1'6").
 - Internal: 30'9" (between P and J), 12'3" (between J and L).
 - Vertical:**
 - Left: 11' (9'9"2") from base to peak D.
 - Right: 12'2"12 (4'6"14") from base to peak I.
 - Internal: 6' (between D and F), 6' (between F and G), 6' (between G and H).
- Notes:**
 - 12/10 slope triangle for left side.
 - 12/3 slope triangle for right side.
 - Labels (a) and (b) indicate specific joints or areas.

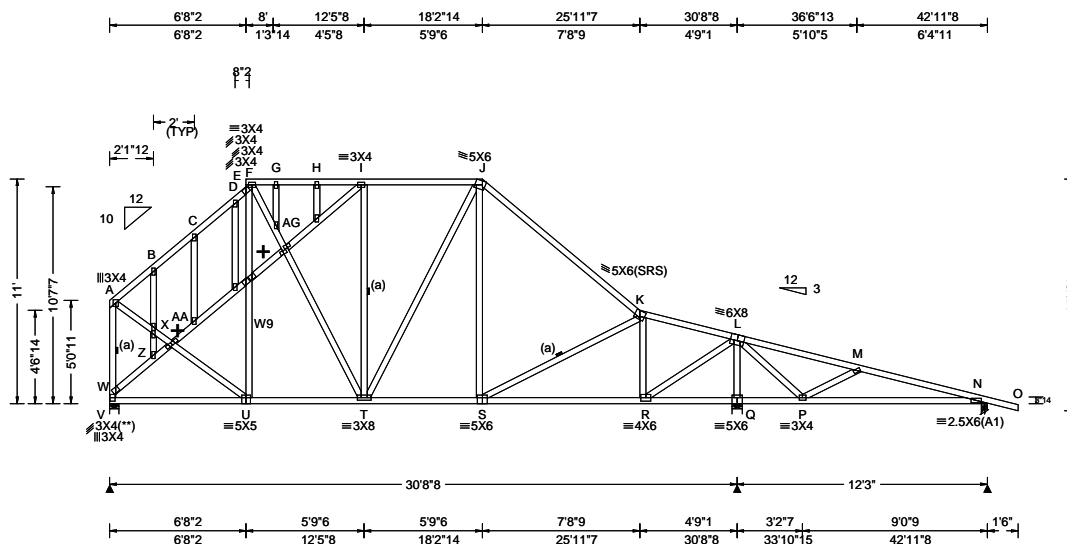
A circular professional engineer seal for the State of Florida. The outer ring contains the text "Yoonhwak Kim" at the top and "Professional Engineer" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top, "No. 86367" is in the center, and "STATE OF FLORIDA" is at the bottom, also separated by two stars. A blue ink signature is written across the bottom right portion of the seal.

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinet.org; SBICA: sbicaindustry.com; ICC: iccsafe.org; AWC: awc.org

| | | | |
|-------------------------------------|---------------|----------------------------------|-------------------------------------|
| Job Number: 20-4966 | Ply: 1 | SEQN: 335958 / T43 / SPEC | Cust: R215 JRef: 1X2e2150002 |
| Dale and Karla Nickelson Res | Qty: 1 | FROM: CDM | DrwNo: 026.21.1006.45703 |
| Truss Label: A02 | | | KD / WHK 01/26/2021 |



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.47 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.30 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.052 H 999 240 VERT(TL): 0.100 H 999 180 HORZ(LL): 0.048 C - - HORZ(TL): 0.093 C - - Creep Factor: 2.0 Max TC CSI: 0.755 Max BC CSI: 0.529 Max Web CSI: 0.984 VIEW Ver: 20.02.01A.1209.11 | Gravity Loc R+ / R- / Rh / Rw / U / RL V 1383 -/- /- /680 -/- /293 Q 2147 -/- /- /1117 -/- /- N 442 -/- /- /218 /101 -/- Wind reactions based on MWFRS V Brg Width = 5.5 Min Req = 1.6 Q Brg Width = 6.0 Min Req = 2.5 N Brg Width = 3.5 Min Req = 1.5 Bearings V, Q, & N are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. |

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 W9 2x4 SP #2;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

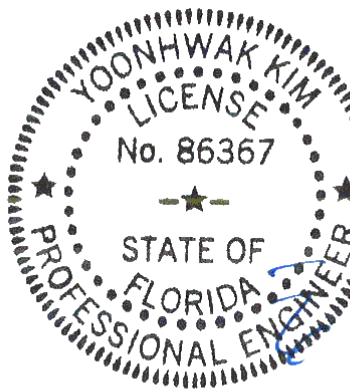
Plating Notes
All plates are 2X4 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 11-0-0.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.
+ Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.



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| Maximum Bot Chord Forces Per Ply (lbs) | | | |
|----------------------------------------|------------|--------|-------------|
| Chords | Tens.Comp. | Chords | Tens. Comp. |
| V - U | 384 -118 | S - R | 1032 0 |
| U - T | 822 0 | R - Q | 63 -778 |
| T - S | 946 0 | Q - P | 63 -754 |

| Maximum Web Forces Per Ply (lbs) | | | |
|----------------------------------|------------|--------|-------------|
| Webs | Tens.Comp. | Webs | Tens. Comp. |
| A - W | 0 -1036 | E - F | 94 -437 |
| A - X | 804 0 | E - AG | 420 -90 |
| V - W | 12 -1328 | K - R | 53 -979 |
| W - Z | 47 -459 | R - L | 1951 0 |
| X - AA | 748 0 | Q - L | 2 -2109 |
| Z - AA | 46 -404 | L - P | 654 0 |
| AA - U | 600 -1 | P - M | 139 -570 |

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| | | | | | |
|-------------------------------------------------------------------------|--|-------|----------|-------|-----------|
| Lumber | | B - C | 0 - 1100 | E - F | 0 - 1440 |
| Value Set: 13B (Effective 6/1/2013) | | C - D | 0 - 1013 | F - G | 0 - 1079 |
| Top chord 2x6 SP 2400f-2.0E T4,T5 2x4 SP #2; | | D - E | 0 - 1013 | H - I | 133 - 432 |
| Bot chord 2x4 SP #2 | | | | | |
| Webs 2x4 SP #3 | | | | | |
| Lumber value set "13B" uses design values approved 1/30/2013 by ALSC | | | | | |
| Bracing | | | | | |
| (a) Continuous lateral restraint equally spaced on | | | | | |

| Maximum Bot Chord Forces Per Ply (lbs) | | | | | |
|-----------------------------------------------|------------|----|--------|-------------|------|
| Chords | Tens.Comp. | | Chords | Tens. Comp. | |
| P - O | 746 | -2 | M - L | 36 | -709 |
| O - N | 994 | 0 | L - K | 37 | -684 |
| N - M | 1085 | 0 | K - I | 394 | -78 |

Additional Notes
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 11-0-0.

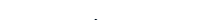
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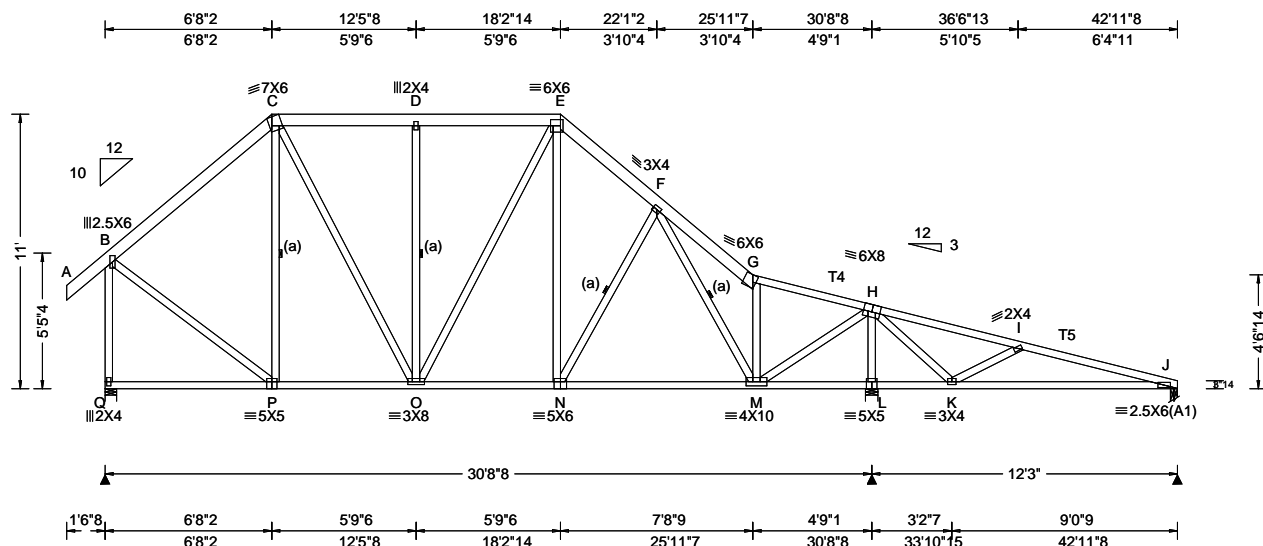
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| | | | | |
|-------------------------------------|---------------|----------------------------------|---------------------------------|--------------------------|
| Job Number: 20-4966 | Ply: 1 | SEQN: 335908 / T28 / COMN | Cust: R215 | JRef: 1X2e2150002 |
| Dale and Karla Nickelson Res | Qty: 1 | FROM: CDM | DrwNo: 026.21.1006.45406 | |
| Truss Label: A04 | | | KD / WHK | 01/26/2021 |



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|------------------------|------------------------------------|------------------------------|---------------------------------|-----------------------------------------------|
| TCLL: 20.00 | Wind Std: ASCE 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# | Gravity |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.039 K 999 240 | Loc R+ / R- / Rh / Rw / U / RL |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(TL): 0.079 K 999 180 | Q 1341 -/- /- /767 /53 /332 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.012 M - - | L 2017 -/- /- /1104 /70 -/- |
| Des Ld: 40.00 | EXP: C | | HORZ(TL): 0.025 M - - | J 356 -/- /- /164 /32 -/- |
| NCBCLL: 10.00 | Mean Height: 15.66 ft | | Creep Factor: 2.0 | Wind reactions based on MWFRS |
| Soffit: 2.00 | TCDL: 5.0 psf | | Max TC CSI: 0.627 | Q Brg Width = 5.5 Min Req = 1.6 |
| Load Duration: 1.25 | BCDL: 5.0 psf | | Max BC CSI: 0.541 | L Brg Width = 6.0 Min Req = 2.4 |
| Spacing: 24.0 " | MWFRS Parallel Dist: h to 2h | | Max Web CSI: 0.666 | J Brg Width = 3.5 Min Req = 1.5 |
| | C&C Dist a: 4.30 ft | | | Bearings Q, L, & J are a rigid surface. |
| | Loc. from endwall: not in 13.00 ft | | | Members not listed have forces less than 375# |
| | GCpi: 0.18 | | | Maximum Top Chord Forces Per Ply (lbs) |
| | Wind Duration: 1.60 | | | Chords Tens.Comp. Chords Tens. Comp. |

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x6 SP 2400f-2.0E T4,T5 2x4 SP #2;
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

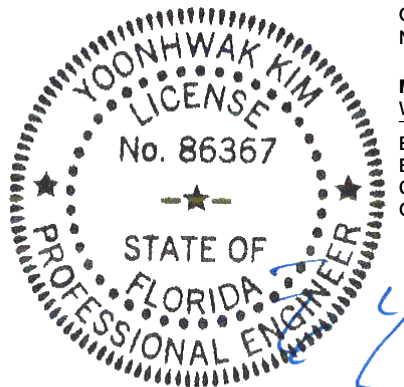
Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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

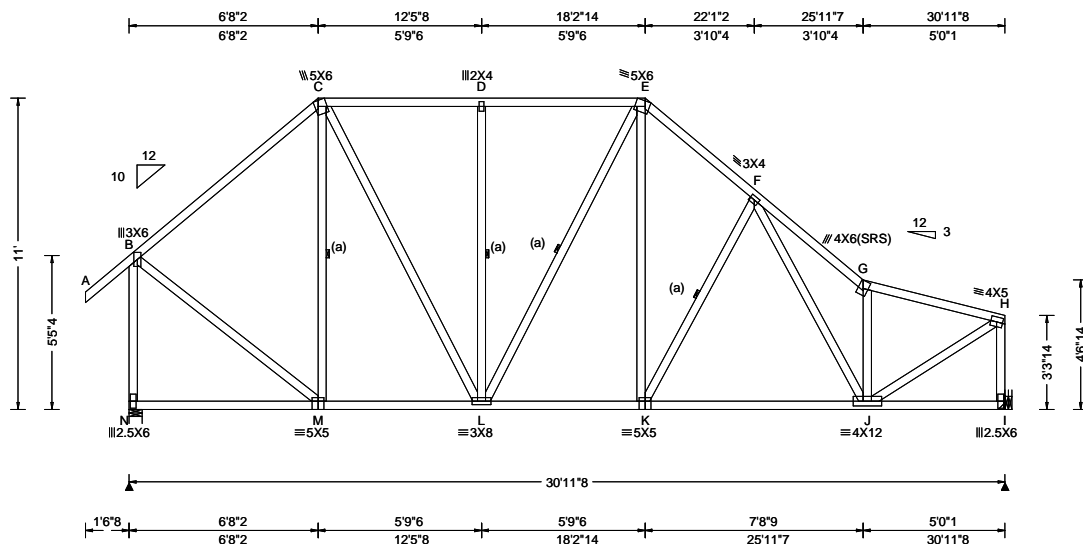
Additional Notes
The overall height of this truss excluding overhang is 11'-0".



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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 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# | Gravity | | | Non-Gravity | | | | |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.070 K 999 240 | Loc | R+ | / R- | / Rh | / Rw | / U | / RL | |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(TL): 0.126 K 999 180 | N | 1608 | /- | /- | /796 | /281 | /269 | |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.024 C - - | I | 1490 | /- | /- | /708 | /247 | /- | |
| | EXP: C | | HORZ(TL): 0.044 C - - | Wind reactions based on MWFRS | | | | | | | |
| Des Ld: 40.00 | Mean Height: 17.16 ft | Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | Creep Factor: 2.0 | N | Brg Width = 5.5 | | Min Req = 1.9 | | | | |
| NCBCLL: 10.00 | TCDL: 5.0 psf | | Max TC CSI: 0.687 | I | Brg Width = - | | Min Req = - | | | | |
| Soffit: 2.00 | BCDL: 5.0 psf | | Max BC CSI: 0.782 | Bearing N is a rigid surface. | | | | | | | |
| Load Duration: 1.25 | MWFRS Parallel Dist: 0 to h/2 | | Max Web CSI: 0.865 | Members not listed have forces less than 375# | | | | | | | |
| Spacing: 24.0 " | C&C Dist a: 3.10 ft | | | Maximum Top Chord Forces Per Ply (lbs) | | | | | | | |
| | Loc. from endwall: not in 4.50 ft | | | Chords | | Tens.Comp. | | Chords | | Tens. Comp. | |
| | GCpi: 0.18 | | | B - C | | 283 - 1147 | | E - F | | 404 - 1548 | |
| | Wind Duration: 1.60 | | VIEW Ver: 20.02.01A.1209.11 | | | | | | | | |

Lumber
 Value Set: 13B (Effective 6/1/2013)
 Top chord 2x4 SP #2
 Bot chord 2x4 SP #2
 Webs 2x4 SP #3
 Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

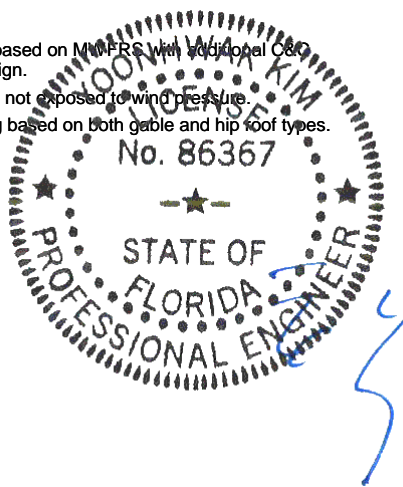
Bracing
 (a) Continuous lateral restraint equally spaced on member.

Hangers / Ties
 Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.
 Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.
 Bearing at location x=30'8"8 uses the following support conditions: 30'8"8
 Bearing I (30'8"8, 10') HUS26
 Supporting Member: (2)2x6 SP 2400f-2.0E
 (14) 0.148"x3" nails into supporting member,
 (4) 0.148"x3" nails into supported member.

Loading
 Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
 Bottom chord checked for 10.00 psf non-concurrent live load.

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

Wind
 Wind loads based on MWFRS with additional C&O member design.
 End verticals not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.



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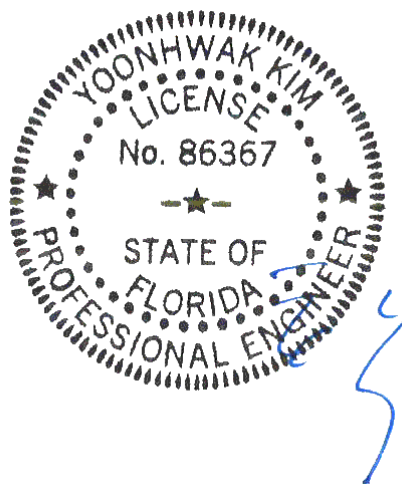
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| | | | |
|----------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A05 | Ply: 1 Qty: 5 | SEQN: 335954 / T42 / COMN FROM: CDM Page 2 of 2 | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46094 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|

Additional Notes

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



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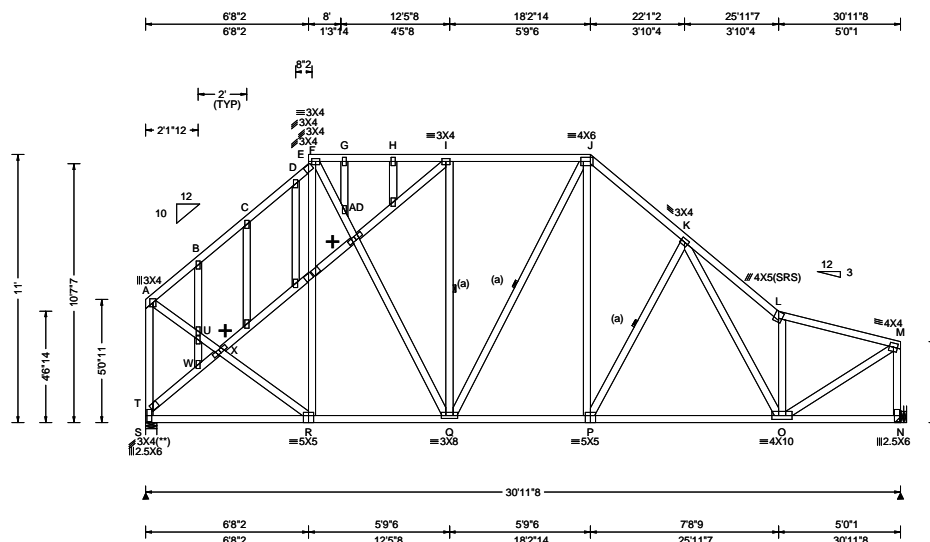
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| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCCL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCCL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 17.16 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.10 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.050 P 999 240 VERT(TL): 0.104 P 999 180 HORZ(LL): 0.045 C - - HORZ(TL): 0.093 C - - Creep Factor: 2.0 Max TC CSI: 0.391 Max BC CSI: 0.557 Max Web CSI: 0.948 VIEW Ver: 20.02.01A.1209.11 | Gravity Loc R+ / R- / Rh / Rw / U / RL S 1292 -/- /- /704 /261 /221 N 1282 -/- /- /713 /239 -/- Wind reactions based on MWFRS S Brg Width = 5.5 Min Req = 1.5 N Brg Width = - Min Req = - Bearing S is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. |
| | | | | A - B 132 -752 H - I 308 -687 B - C 241 -787 I - J 345 -905 C - D 291 -743 J - K 391 -1276 D - F 343 -719 K - L 448 -1793 E - G 303 -676 L - M 254 -1353 G - H 308 -688 |

Lumber
 Value Set: 13B (Effective 6/1/2013)
 Top chord 2x4 SP #2
 Bot chord 2x4 SP #2
 Webs 2x4 SP #3
 Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

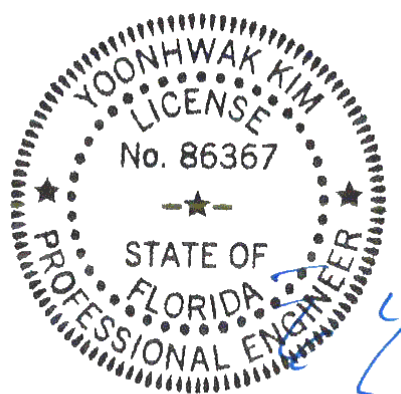
Plating Notes
 All plates are 2X4 except as noted.
 (**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading
 Bottom chord checked for 10.00 psf non-concurrent live load.

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

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

Additional Notes
 The overall height of this truss excluding overhang is 11-0-0.
 + Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.



| Chords | Tens.Comp. | Chords | Tens. Comp. |
|--------|------------|--------|-------------|
| R - Q | 756 -52 | P - O | 1098 -164 |
| Q - P | 920 -63 | | |

| Webs | Tens.Comp. | Webs | Tens. Comp. |
|-------|------------|-------|-------------|
| A - T | 171 -945 | E -AD | 417 -134 |
| A - U | 730 -118 | J - P | 507 -118 |
| S - T | 287 -1231 | P - K | 214 -378 |
| T - W | 175 -451 | K - O | 470 -143 |
| U - X | 674 -71 | L - O | 336 -1069 |
| W - X | 138 -396 | O - M | 1497 -254 |
| X - R | 526 -33 | M - N | 253 -1246 |
| E - F | 150 -436 | | |

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 Suite 150
 Orlando FL, 32837

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|-------------------------------------|---------------|----------------------------------|--------------------------------------------|
| Job Number: 20-4966 | Ply: 1 | SEQN: 335941 / T36 / COMN | Cust: R215 JRef: 1X2e2150002 |
| Dale and Karla Nickelson Res | Qty: 1 | FROM: CDM | DrwNo: 026.21.1006.45282 |
| Truss Label: A06 | | Page 2 of 2 | KD / WHK 01/26/2021 |

Hangers / Ties

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

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

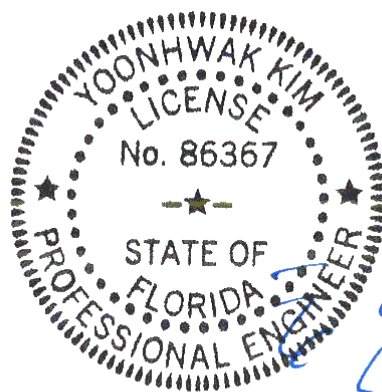
Bearing at location x=30'8"8 uses the following support conditions: 30'8"8

Bearing N (30'8"8, 10') HUS26

Supporting Member: (2)2x6 SP 2400f-2.0E

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

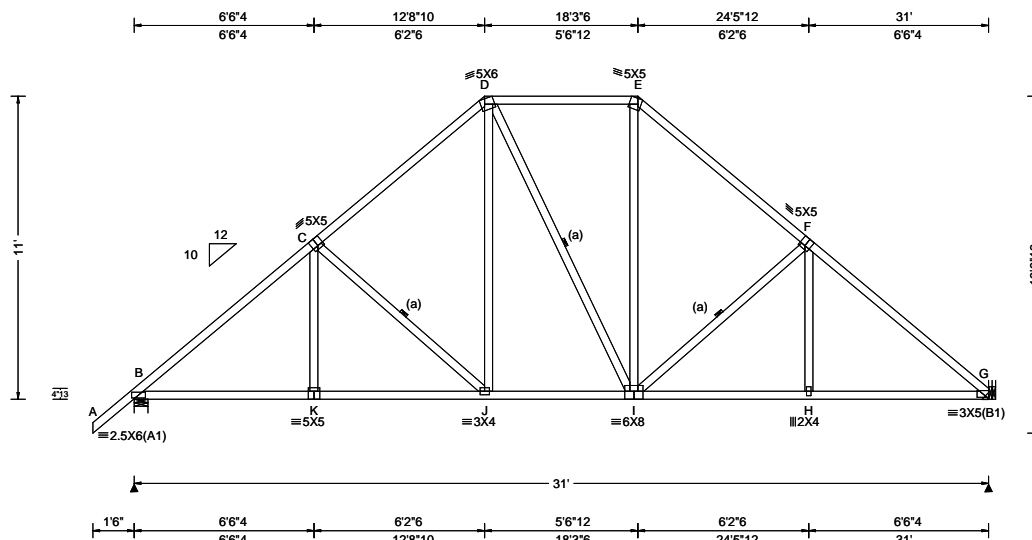
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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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 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# | Gravity Non-Gravity |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.059 J 999 240 | Loc R+ / R- / Rh / Rw / U / RL |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(TL): 0.120 J 999 180 | B 1510 -/- - /904 /133 /368 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.031 H - - | G 1388 -/- - /805 /105 -/- |
| | EXP: C | | HORZ(TL): 0.063 H - - | Wind reactions based on MWFRS |
| Des Ld: 40.00 | Mean Height: 16.23 ft | | Creep Factor: 2.0 | B Brg Width = 6.0 Min Req = 1.8 |
| NCBCLL: 10.00 | TCDL: 5.0 psf | | Max TC CSI: 0.468 | G Brg Width = - Min Req = - |
| Soffit: 2.00 | BCDL: 5.0 psf | | Max BC CSI: 0.481 | Bearing B is a rigid surface. |
| Load Duration: 1.25 | MWFRS Parallel Dist: 0 to h/2 | | Max Web CSI: 0.211 | Members not listed have forces less than 375# |
| Spacing: 24.0 " | C&C Dist a: 3.10 ft | | | Maximum Top Chord Forces Per Ply (lbs) |
| | Loc. from endwall: Any | | | Chords Tens.Comp. Chords Tens. Comp. |
| | GCpi: 0.18 | | | |
| | Wind Duration: 1.60 | | | |
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Lumber
 Value Set: 13B (Effective 6/1/2013)
 Top chord 2x4 SP #2
 Bot chord 2x4 SP #2
 Webs 2x4 SP #3
 Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

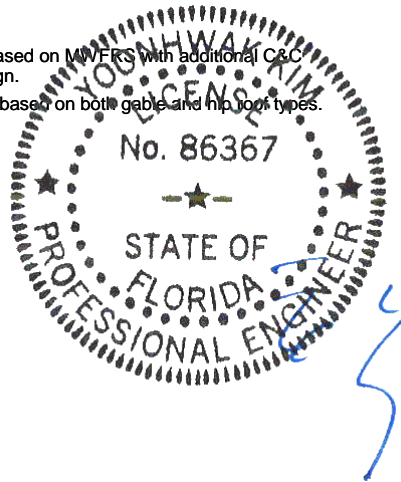
Bracing
 (a) Continuous lateral restraint equally spaced on member.

Hangers / Ties
 Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.
 Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.
 Bearing at location x=30'9" uses the following support conditions: 30'9"
 Bearing G (30'9", 10') HUS26
 Supporting Member: (2)2x6 SP 2400f-2.0E
 (14) 0.148"x3" nails into supporting member,
 (4) 0.148"x3" nails into supported member.

Loading
 Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
 Bottom chord checked for 10.00 psf non-concurrent live load.

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
 01/26/2021

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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; SBCEA: www.sbceaindstry.com; ICC: www.iccsafe.org

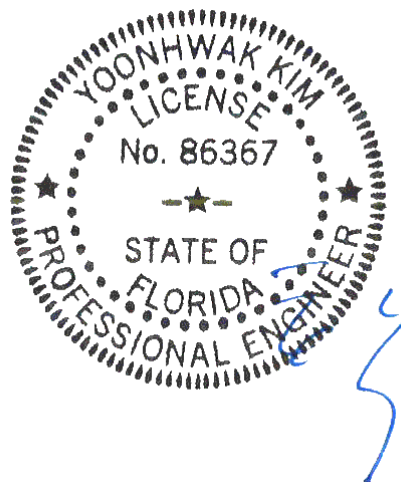
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|----------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A07 | Ply: 1 Qty: 2 | SEQN: 335932 / T35 / COMN FROM: CDM Page 2 of 2 | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45547 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|

Additional Notes

Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 11-0-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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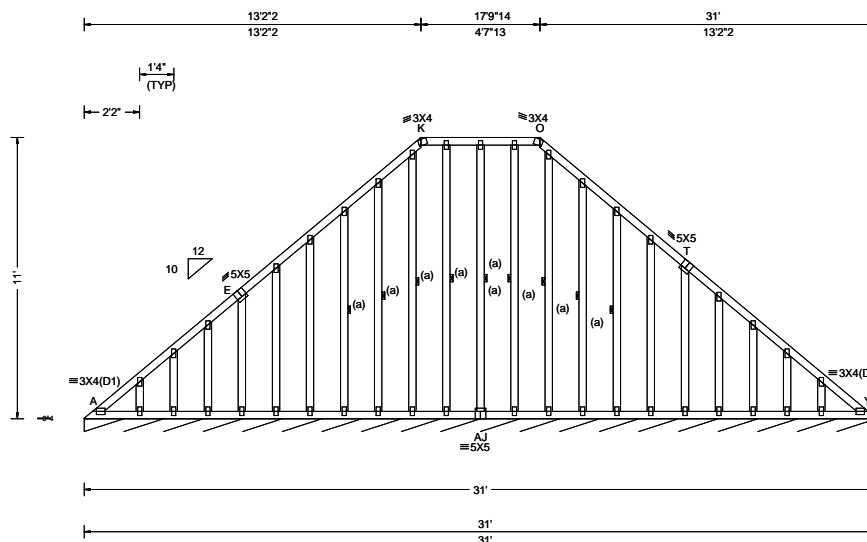
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|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A08 | Ply: 1 Qty: 1 | SEQN: 335937 / T10 / GABL FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45875 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.65 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.10 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2015 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.003 K 999 240 VERT(TL): 0.004 K 999 180 HORZ(LL): -0.005 F - - HORZ(TL): 0.007 I - - Creep Factor: 2.0 Max TC CSI: 0.081 Max BC CSI: 0.055 Max Web CSI: 0.086 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL Y* 86 /- /- /47 /13 /10 Wind reactions based on MWFRS Y Brg Width = 371 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

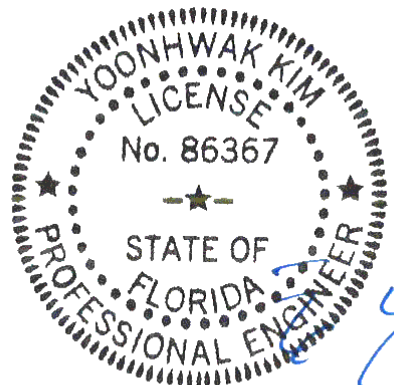
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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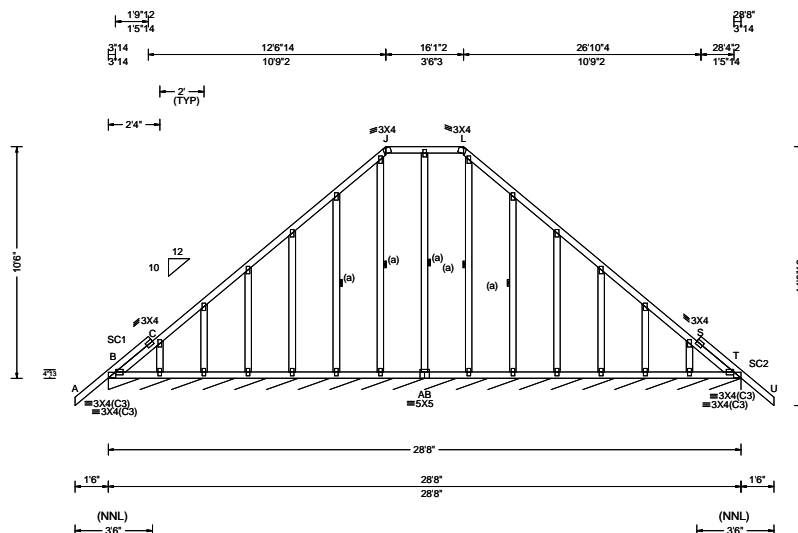
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|----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: B01 | Ply: 1 Qty: 1 | SEQN: 335732 / T5 / GABL FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45579 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.75 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.001 L 999 240 VERT(TL): 0.003 L 999 180 HORZ(LL): -0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.195 Max BC CSI: 0.077 Max Web CSI: 0.114 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL T* 93 /- /- /50 /- /4 Wind reactions based on MWFRS T Brg Width = 343 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.

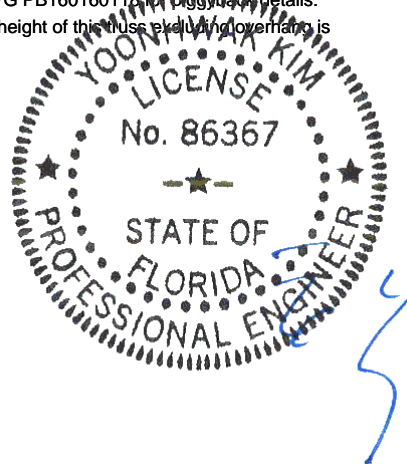
Additional Notes

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

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

Refer to DWG PB160160118 for gable end details.

The overall height of this truss excluding overhang is 10-6-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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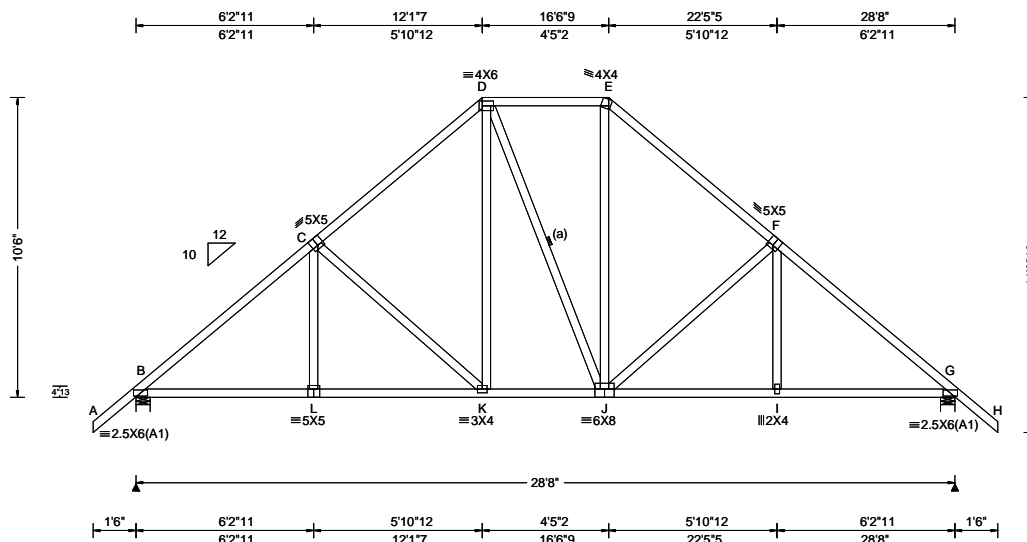
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|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: B02 | Ply: 1 Qty: 4 | SEQN: 335730 / T31 / COMN FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45485 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.051 K 999 240 VERT(TL): 0.103 K 999 180 HORZ(LL): 0.027 I - - HORZ(TL): 0.055 I - - Creep Factor: 2.0 Max TC CSI: 0.421 Max BC CSI: 0.425 Max Web CSI: 0.484 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1389 -/- /- /830 /205 /372 G 1384 -/- /- /830 /205 -/ Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.6 G Brg Width = 6.0 Min Req = 1.6 Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 266 -1678 E - F 322 -1287 C - D 324 -1300 F - G 266 -1672 D - E 309 -893 |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

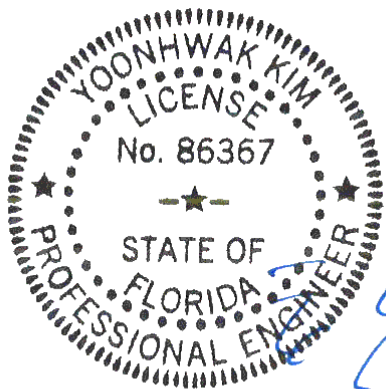
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10'-6".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)

| Chords | Tens.Comp. | Chords | Tens. Comp. |
|--------|------------|--------|-------------|
| B - L | 1190 -155 | J - I | 1184 -62 |
| L - K | 1189 -156 | I - G | 1185 -61 |
| K - J | 897 -70 | | |

Maximum Web Forces Per Ply (lbs)

| Webs | Tens.Comp. | Webs | Tens. Comp. |
|-------|------------|-------|-------------|
| C - K | 195 -394 | J - E | 412 -78 |
| D - K | 433 -80 | J - F | 194 -396 |

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

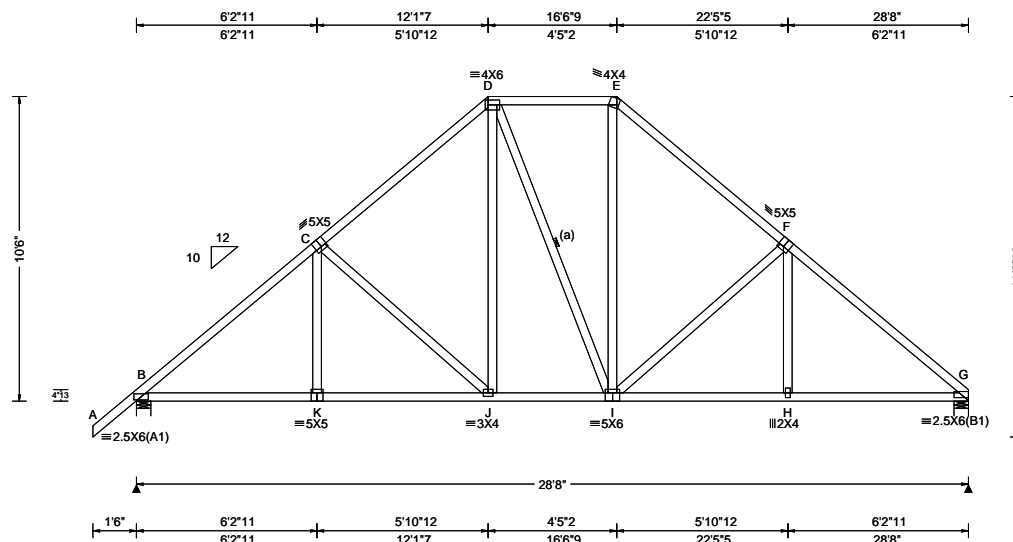
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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Suite 150
Orlando FL, 32837

| | | | |
|----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: B03 | Ply: 1 Qty: 6 | SEQN: 335735 / T4 / COMN FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46032 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.050 J 999 240 VERT(TL): 0.102 J 999 180 HORZ(LL): 0.026 H - - HORZ(TL): 0.053 H - - Creep Factor: 2.0 Max TC CSI: 0.421 Max BC CSI: 0.436 Max Web CSI: 0.507 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1393 -/- /- /830 /206 /348 G 1274 -/- /- /732 /180 -/ Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.6 G Brg Width = 6.0 Min Req = 1.5 Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 268 -1683 E - F 325 -1294 C - D 326 -1306 F - G 272 -1689 D - E 310 -897 |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved
1/30/2013 by ALSC

Bracing

(a) Continuous lateral restraint equally spaced on
member.

Loading

Truss passed check for 20 psf additional bottom chord
live load in areas with 42"-high x 24"-wide clearance.
Bottom chord checked for 10.00 psf non-concurrent
live load.

Purlins

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

Wind

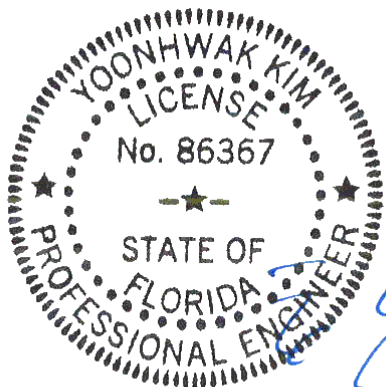
Wind loads based on MWFRS with additional C&C
member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is
10'-6".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)

| Chords | Tens.Comp. | Chords | Tens. Comp. |
|--------|------------|--------|-------------|
| B - K | 1194 -107 | I - H | 1203 -104 |
| K - J | 1193 -107 | H - G | 1204 -104 |
| J - I | 901 -21 | | |

Maximum Web Forces Per Ply (lbs)

| Webs | Tens.Comp. | Webs | Tens. Comp. |
|-------|------------|-------|-------------|
| C - J | 194 -394 | I - E | 420 -81 |
| D - J | 434 -80 | I - F | 200 -415 |

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

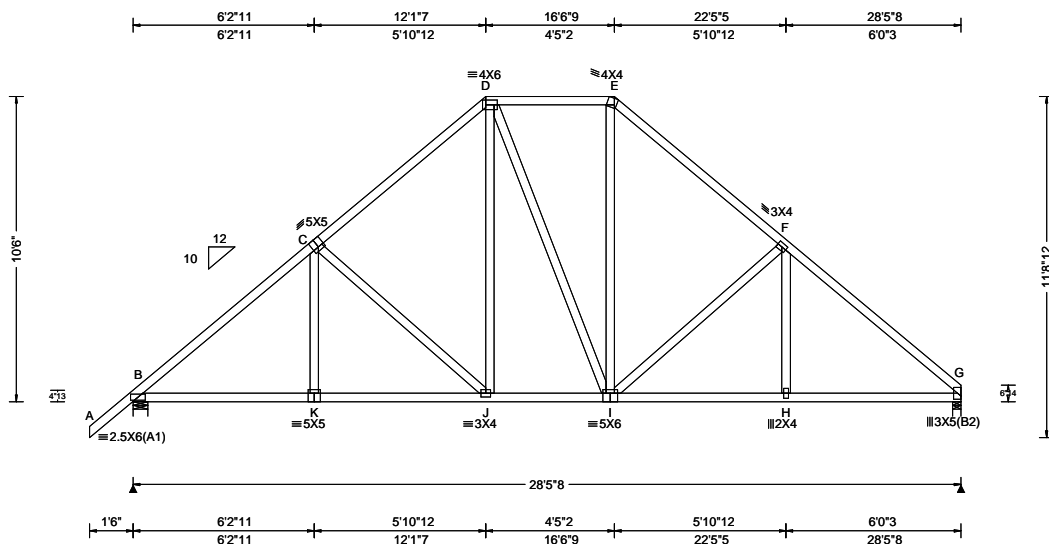
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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| | | | | |
|-------------------------------------|---------------|---------------------------------|---------------------------------|--------------------------|
| Job Number: 20-4966 | Ply: 1 | SEQN: 335738 / T6 / COMN | Cust: R215 | JRef: 1X2e2150002 |
| Dale and Karla Nickelson Res | Qty: 1 | FROM: CDM | DrwNo: 026.21.1006.45593 | |
| Truss Label: B04 | | | KD / WHK | 01/26/2021 |



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|------------------------|-----------------------------------|------------------------------|---------------------------------|-----------------------------------------------|
| TCLL: 20.00 | Wind Std: ASCE 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# | Gravity Non-Gravity |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.047 J 999 240 | Loc R+ / R- / Rh / Rw / U / RL |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(TL): 0.100 J 999 180 | B 1338 -/- /- /832 -/- /348 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.027 H - - | G 1217 -/- /- /727 -/- /- |
| Des Ld: 40.00 | EXP: C | | HORZ(TL): 0.058 H - - | Wind reactions based on MWFRS |
| NCBCLL: 10.00 | Mean Height: 15.75 ft | | Creep Factor: 2.0 | B Brg Width = 6.0 Min Req = 1.6 |
| Soffit: 2.00 | TCDL: 5.0 psf | | Max TC CSI: 0.418 | G Brg Width = 3.5 Min Req = 1.5 |
| Load Duration: 1.25 | BCDL: 5.0 psf | | Max BC CSI: 0.454 | Bearings B & G are a rigid surface. |
| Spacing: 24.0 " | MWFRS Parallel Dist: h to 2h | | Max Web CSI: 0.489 | Members not listed have forces less than 375# |
| | C&C Dist a: 3.00 ft | | | Maximum Top Chord Forces Per Ply (lbs) |
| | Loc. from endwall: not in 9.00 ft | | | Chords Tens.Comp. Chords Tens. Comp. |
| | GCpi: 0.18 | | | B - C 14 -1603 E - F 80 -1213 |
| | Wind Duration: 1.60 | | | C - D 86 -1219 F - G 8 -1594 |
| | | | | D - E 93 -836 |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

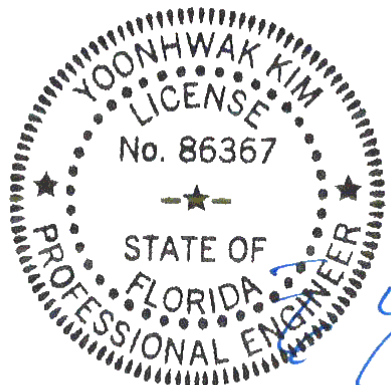
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10'-6"-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)

| Chords | Tens.Comp. | Chords | Tens. Comp. |
|--------|------------|--------|-------------|
| B - K | 1133 -94 | I - H | 1125 0 |
| K - J | 1132 -94 | H - G | 1126 0 |
| J - I | 835 -6 | | |

Maximum Web Forces Per Ply (lbs)

| Webs | Tens.Comp. | Webs | Tens. Comp. |
|-------|------------|-------|-------------|
| C - J | 120 -401 | I - E | 400 -31 |
| D - J | 405 -28 | I - F | 131 -393 |

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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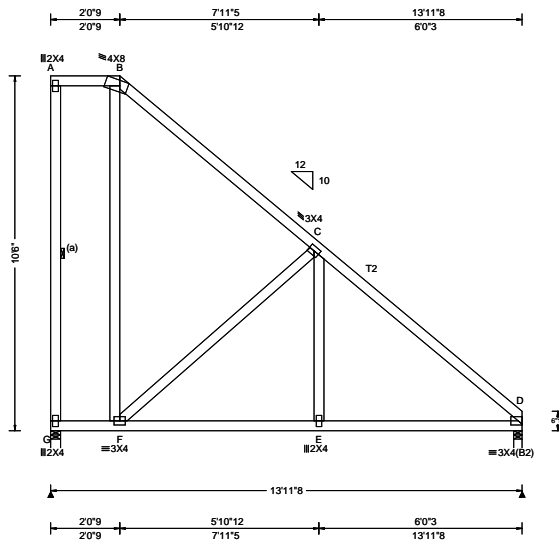
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|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: B05 | Ply: 1 Qty: 3 | SEQN: 335810 / T32 / MONO FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46171 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.39 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.259 F 644 240 VERT(TL): 0.557 F 299 180 HORZ(LL): -0.213 B - - HORZ(TL): 0.459 B - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.560 Max Web CSI: 0.810 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 598 -/- /- /475 /83 /259 D 603 -/- /- /377 -/- /- Wind reactions based on MWFRS G Brg Width = 3.5 Min Req = 1.5 D Brg Width = 3.0 Min Req = 1.5 Bearings G & D are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. C - D 0 -748 |

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP #2 T2 2x4 SP M-31;
Bot chord 2x4 SP M-31
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved
1/30/2013 by ALSC

Bracing

(a) Continuous lateral restraint equally spaced on
member.

Loading

Bottom chord checked for 10.00 psf non-concurrent
live load.

Purlins

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

Wind

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

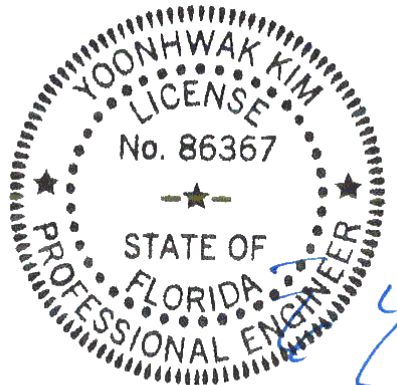
Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is
10-6-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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|----------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C01 | Ply: 1 Qty: 1 | SEQN: 335832 / T16 / GABL FROM: CDM Page 2 of 2 | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45656 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|

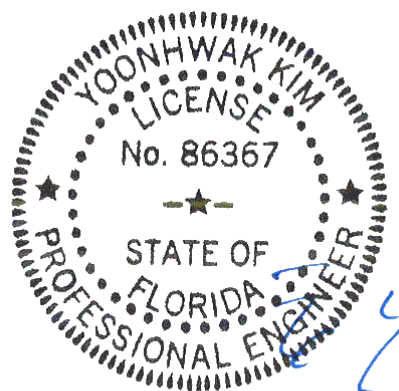
Additional Notes

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

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 11-8-8.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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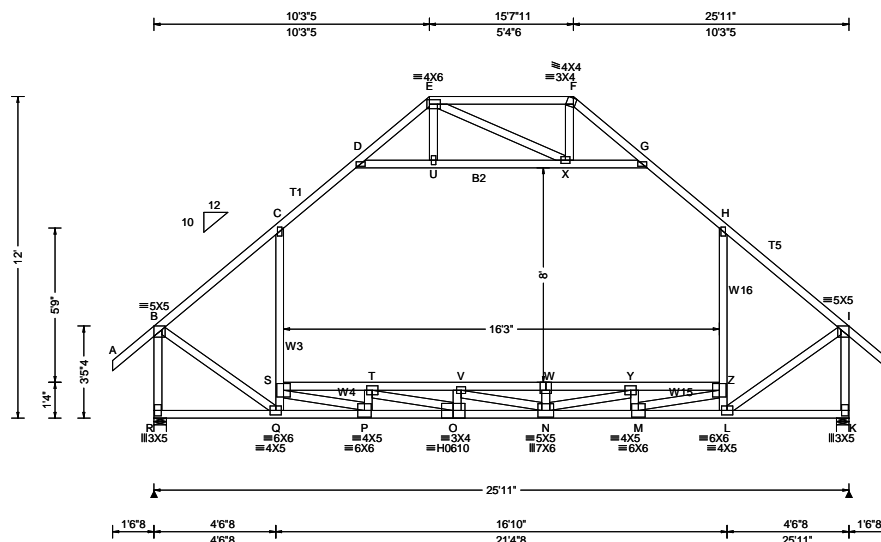
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|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C02 | Ply: 1 Qty: 4 | SEQN: 335817 / T34 / ATIC FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45718 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.67 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS | PP Deflection in loc L/defl L/# VERT(LL): 0.463 E 671 240 VERT(TL): 0.933 F 333 180 HORZ(LL): 0.453 C - - HORZ(TL): 0.994 C - - Creep Factor: 2.0 Max TC CSI: 0.756 Max BC CSI: 0.646 Max Web CSI: 0.903 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 2351 - / - / - / 721 / 222 / 332 K 2351 - / - / - / 721 / 222 / - Wind reactions based on MWFRS R Brg Width = 5.5 Min Req = 1.9 K Brg Width = 5.5 Min Req = 1.9 Bearings R & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 213 - 1834 F - G 167 - 435 C - D 325 - 1441 G - H 325 - 1441 D - E 170 - 448 H - I 213 - 1834 |

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2 T1,T5 2x4 SP M-31;
Bot chord 2x4 SP M-31 B2 2x4 SP #2;
Webs 2x4 SP #3 W3,W4,W15,W16 2x4 SP #2;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes
All plates are 2X4 except as noted.

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.
Attic room loading from 4-10-0 to 21-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

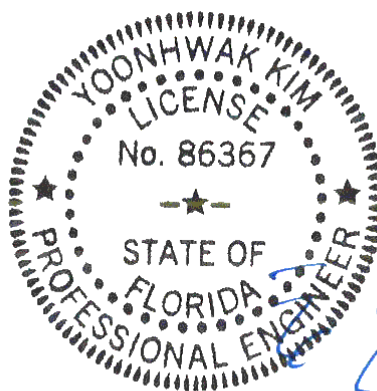
Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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

Additional Notes
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 12-0-0.

| Chords | Tens.Comp. | Chords | Tens. Comp. |
|--------|------------|--------|-------------|
| Q - P | 1363 - 482 | N - M | 4119 0 |
| P - O | 4115 - 320 | M - L | 1363 - 155 |
| O - N | 5180 0 | | |

| Webs | Tens.Comp. | Webs | Tens. Comp. |
|-------|------------|-------|-------------|
| B - R | 232 - 2311 | V - W | 0 - 3963 |
| B - Q | 1500 - 61 | N - Y | 1350 - 224 |
| Q - S | 124 - 658 | W - Y | 0 - 3963 |
| C - S | 501 - 71 | X - G | 242 - 1140 |
| S - P | 2686 0 | Y - M | 110 - 733 |
| S - T | 271 - 2857 | Y - Z | 281 - 2862 |
| D - U | 239 - 1129 | M - Z | 2690 0 |
| P - T | 110 - 740 | Z - H | 500 - 71 |
| T - O | 1306 - 214 | Z - L | 125 - 660 |
| T - V | 0 - 3921 | L - I | 1500 - 62 |
| U - X | 238 - 1118 | I - K | 232 - 2311 |

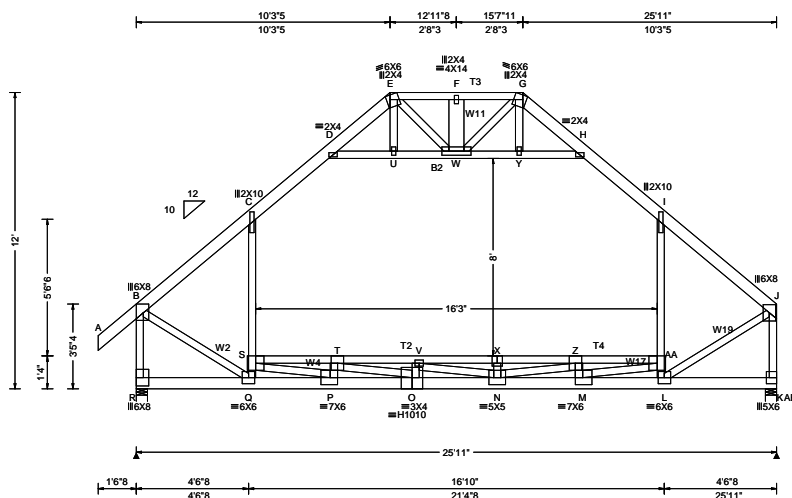


FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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

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2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

2 Complete Trusses Required



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | Maximum Reactions (lbs) |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCCL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 18.19 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2003 TPI Std: 2014 Rep Factors Used: Varies by FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS | PP Deflection in loc L/defl L/# VERT(LL): 0.471 G 660 240 VERT(TL): 0.930 G 334 180 HORZ(LL): 0.186 C - - HORZ(TL): 0.367 C - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.731 Max WB CSI: 0.976 VIEW Ver: 20.02.01A.1209.11 | Gravity Loc R+ / R- / Rh / Rw / U / RL R 7757 -/- /- /- /566 /55 AB 7755 -/- /- /- /494 -/ Wind reactions based on MWFRS R Brg Width = 5.5 Min Req = 3.2 AB Brg Width = 5.5 Min Req = 3.2 Bearings R & AB are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 244 -3237 F - G 498 -1419 C - D 302 -2492 G - H 366 -1123 D - E 367 -1122 H - I 302 -2490 E - F 498 -1419 I - J 232 -3236 |

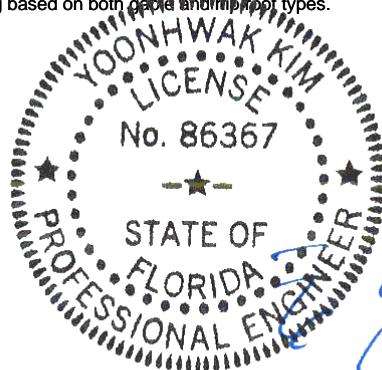
Lumber
 Value Set: 13B (Effective 6/1/2013)
 Top chord 2x6 SP 2400f-2.0E T2,T4 2x4 SP M-31;
 T3 2x4 SP #2;
 Bot chord 2x6 SP 2400f-2.0E B2 2x4 SP #2;
 Webs 2x4 SP #3 W2,W4,W17,W19 2x4 SP #2;
 W11 2x8 SP 2400f-2.0E;
 Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Nailnote
 Nail Schedule:0.131"x3", min. nails
 Top Chord: 1 Row @ 7.50" o.c.
 Bot Chord: 1 Row @ 5.00" o.c.
 Webs : 1 Row @ 4" o.c.
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
 -----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 66 plf at -1.54 to 66 plf at 25.92
 PLT: From 26 plf at 4.83 to 26 plf at 7.79
 PLT: From 20 plf at 7.79 to 20 plf at 18.12
 PLT: From 26 plf at 18.12 to 26 plf at 21.08
 PLT: From 100 plf at 4.83 to 100 plf at 21.08
 BC: From 5 plf at -1.54 to 5 plf at 0.00
 BC: From 20 plf at 0.00 to 20 plf at 25.92
 TC: 3000 lb Conc. Load at 12.96
 BC: 660 lb Conc. Load at 2.15, 4.15, 6.15, 8.15
 10.15, 12.15, 14.15, 16.15, 18.15, 20.15, 22.15, 24.15
 BC: 111 lb Conc. Load at 4.83, 21.08

Plating Notes
 All plates are 7X8 except as noted.

Purlins
 In lieu of structural panels use purlins to brace all flat TC @ 24" oc.
 Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.
Wind
 Wind loads and reactions based on MWFRS.
 End verticals not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
 01/26/2021

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 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.
 Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation 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.
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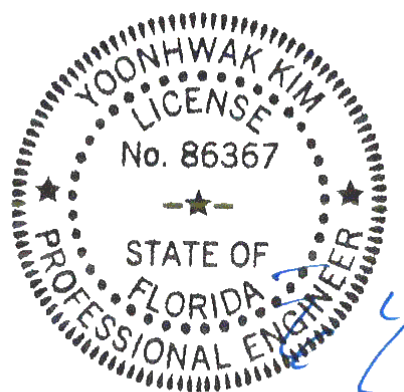
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 Suite 150
 Orlando FL, 32837

| | | | |
|----------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C03 | Ply: 2 Qty: 1 | SEQN: 335839 / T46 / ATIC FROM: CDM Page 2 of 2 | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45907 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|

Additional Notes

Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 12-0-0.

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO VERIFY AND APPROVE THE LOADING. THE ENGINEERING SEAL ON THIS DESIGN IS ONLY VALID IF THE BUILDING DESIGNER APPROVES THAT THIS DESIGN MEETS SECTION 1601.2.2 OF THE 2001 FLORIDA BUILDING CODE: "THE STRUCTURAL SYSTEM SHALL BE ABLE TO SUSTAIN LOCAL DAMAGE OR FAILURE WITH THE OVERALL STRUCTURE REMAINING STABLE."



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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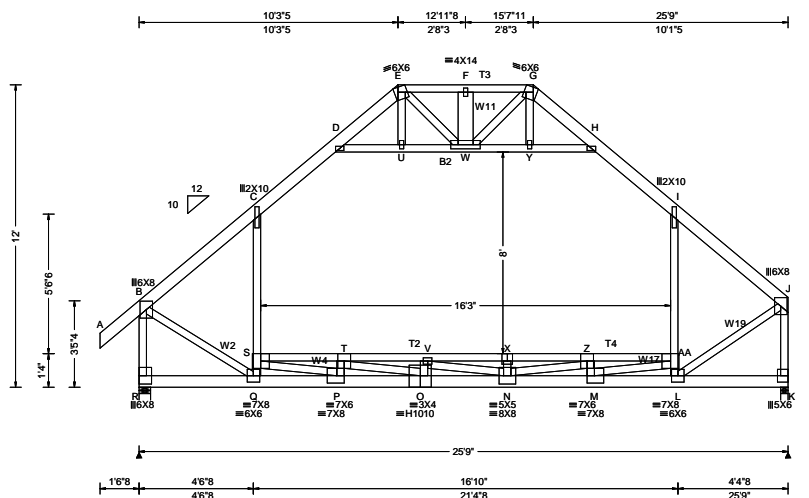
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2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

2 Complete Trusses Required



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | Maximum Reactions (lbs) |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCCL: 20.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCCL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 18.19 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2003 TPI Std: 2014 Rep Factors Used: Varies by FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS | PP Deflection in loc L/defl L/# VERT(LL): 0.464 E 666 240 VERT(TL): 0.916 E 337 180 HORZ(LL): 0.210 C - - HORZ(TL): 0.415 C - - Creep Factor: 2.0 Max TC CSI: 0.624 Max BC CSI: 0.729 Max WB CSI: 0.975 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 7707 /- /- /- /562 /55 K 7791 /- /- /- /495 /- Wind reactions based on MWFRS R Brg Width = 5.5 Min Req = 3.2 K Brg Width = 3.5 Min Req = 3.2 Bearings R & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 241 -3194 F - G 499 -1440 C - D 300 -2458 G - H 367 -1135 D - E 367 -1138 H - I 301 -2465 E - F 499 -1440 I - J 226 -3169 |

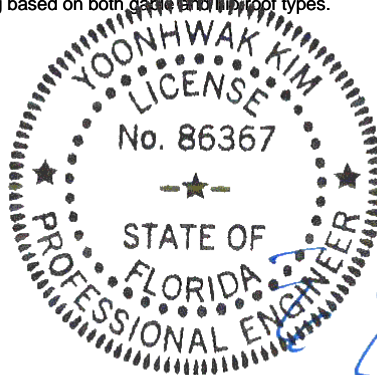
Lumber
 Value Set: 13B (Effective 6/1/2013)
 Top chord 2x6 SP 2400f-2.0E T2,T4 2x4 SP M-31;
 T3 2x4 SP #2;
 Bot chord 2x6 SP 2400f-2.0E B2 2x4 SP #2;
 Webs 2x4 SP #3 W2,W4,W17,W19 2x4 SP #2;
 W11 2x8 SP 2400f-2.0E;
 Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Nailnote
 Nail Schedule: 0.131"x3", min. nails
 Top Chord: 1 Row @ 7.50" o.c.
 Bot Chord: 1 Row @ 4.75" o.c.
 Webs : 1 Row @ 4" o.c.
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
 -----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 66 plf at -1.54 to 66 plf at 25.75
 PLT: From 26 plf at 4.83 to 26 plf at 7.79
 PLT: From 20 plf at 7.79 to 20 plf at 18.12
 PLT: From 26 plf at 18.12 to 26 plf at 21.08
 PLT: From 100 plf at 4.83 to 100 plf at 21.08
 BC: From 5 plf at -1.54 to 5 plf at 0.00
 BC: From 20 plf at 0.00 to 20 plf at 25.75
 TC: 3000 lb Conc. Load at 12.96
 BC: 660 lb Conc. Load at 2.15, 4.15, 6.15, 8.15
 10.15, 12.15, 14.15, 16.15, 18.15, 20.15, 22.15, 24.15
 BC: 111 lb Conc. Load at 4.83, 21.08

Plating Notes
 All plates are 2X4 except as noted.

Purlins
 In lieu of structural panels use purlins to brace all flat TC @ 24" oc.
 Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.
Wind
 Wind loads and reactions based on MWFRS.
 End verticals not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.



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 01/26/2021

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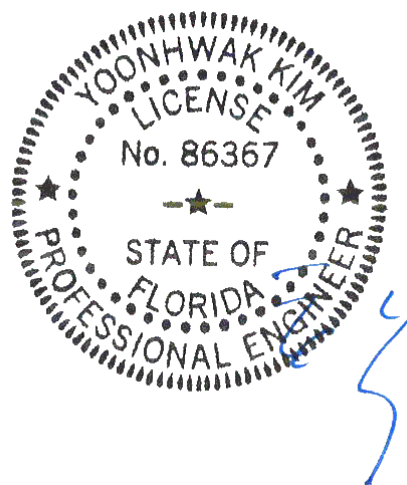
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 Orlando FL, 32837

| | | | |
|----------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C04 | Ply: 2 Qty: 1 | SEQN: 335836 / T22 / ATIC FROM: CDM Page 2 of 2 | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45968 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|

Additional Notes

Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 12'-0"-0.

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FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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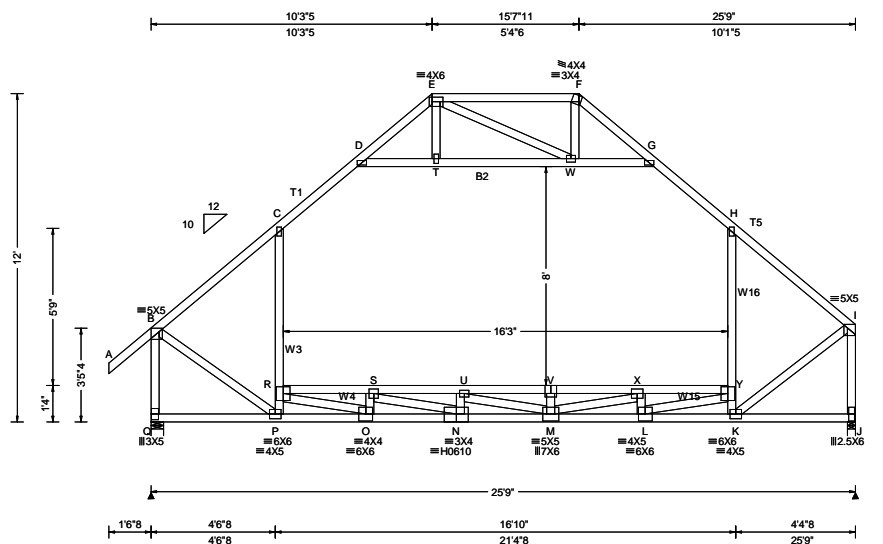
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Suite 150
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| | | | |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C05 | Ply: 1 Qty: 6 | SEQN: 335820 / T33 / ATIC FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45329 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|--|-------------|--|--|-----|----|------|------|------|----------|---|------|----|----|------|----------|---|------|----|----|------|--------|--------|------------|--------|-------------|-------|----------|-------|--------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.67 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS | PP Deflection in loc L/defl L/# VERT(LL): 0.457 E 675 240 VERT(TL): 0.927 N 333 180 HORZ(LL): 0.483 C - - HORZ(TL): 1.046 C - - Creep Factor: 2.0 Max TC CSI: 0.752 Max BC CSI: 0.644 Max Web CSI: 0.987 VIEW Ver: 20.02.01A.1209.11 | <table><thead><tr><th colspan="3">Gravity</th><th colspan="3">Non-Gravity</th></tr><tr><th>Loc</th><th>R+</th><th>/ R-</th><th>/ Rh</th><th>/ Rw</th><th>/ U / RL</th></tr></thead><tbody><tr><td>Q</td><td>2339</td><td>/-</td><td>/-</td><td>/733</td><td>/83 /307</td></tr><tr><td>J</td><td>2237</td><td>/-</td><td>/-</td><td>/632</td><td>/66 /-</td></tr></tbody></table> <p>Wind reactions based on MWFRS Q Brg Width = 5.5 Min Req = 1.9 J Brg Width = 3.5 Min Req = 1.9 Bearings Q & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table><thead><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr></thead><tbody><tr><td>B - C</td><td>91 -1818</td><td>F - G</td><td>0 -439</td></tr></tbody></table></p> | Gravity | | | Non-Gravity | | | Loc | R+ | / R- | / Rh | / Rw | / U / RL | Q | 2339 | /- | /- | /733 | /83 /307 | J | 2237 | /- | /- | /632 | /66 /- | Chords | Tens.Comp. | Chords | Tens. Comp. | B - C | 91 -1818 | F - G | 0 -439 |
| Gravity | | | Non-Gravity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Loc | R+ | / R- | / Rh | / Rw | / U / RL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q | 2339 | /- | /- | /733 | /83 /307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J | 2237 | /- | /- | /632 | /66 /- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chords | Tens.Comp. | Chords | Tens. Comp. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B - C | 91 -1818 | F - G | 0 -439 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2 T1,T5 2x4 SP M-31;
Bot chord 2x4 SP M-31 B2 2x4 SP #2;
Webs 2x4 SP #3 W3,W4,W15,W16 2x4 SP #2;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

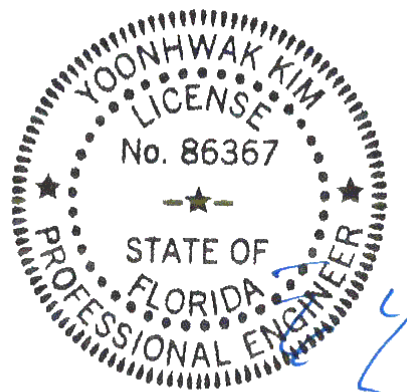
Plating Notes
All plates are 2X4 except as noted.

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.
Attic room loading from 4-10-0 to 21-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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

Additional Notes
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 12-0-0.

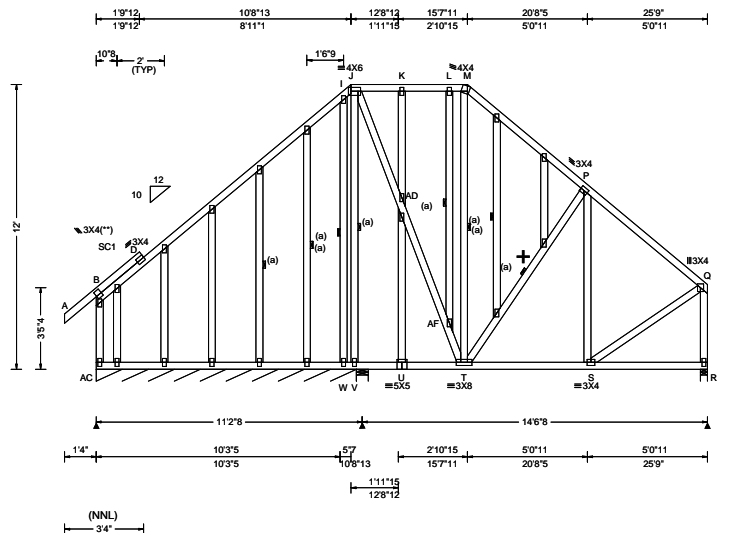


FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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

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| | | | |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C06 | Ply: 1 Qty: 1 | SEQN: 335829 / T23 / GABL FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46157 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 18.19 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.021 N 999 240 VERT(TL): 0.044 N 999 180 HORZ(LL): 0.020 N - - HORZ(TL): 0.028 N - - Creep Factor: 2.0 Max TC CSI: 0.352 Max BC CSI: 0.251 Max Web CSI: 0.309 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AC*126 -/- /76 /0 /25 V 305 -/- /170 -/- /- R 629 -/- /356 /1 /- Wind reactions based on MWFRS AC Brg Width = 131 Min Req = - V Brg Width = 6.0 Min Req = 1.5 R Brg Width = 3.5 Min Req = 1.5 Bearings AC, V, & R are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. |

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Stack Chord: SC1 2x4 SP #2;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

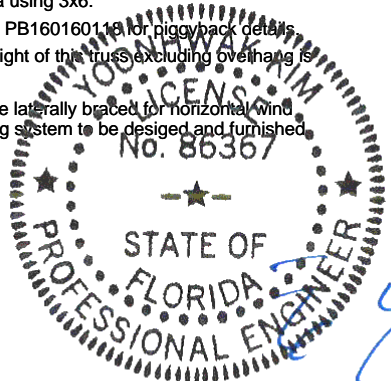
Plating Notes
All plates are 2X4 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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

Additional Notes
See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.
Refer to DWG PB160160118 for piggy back details.
The overall height of this truss excluding overhang is 12-0-0.
+ Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.

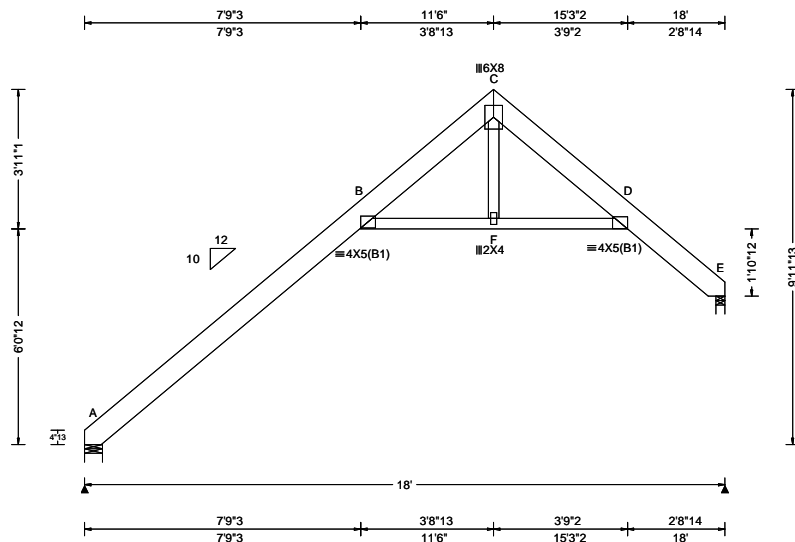


FL REG# 278, Yoonhwak Kim, FL PE #86367
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| P - Q | | 39 | -486 |
|----------------------------------------|-----|----------------------------------|-----------------|
| Maximum Bot Chord Forces Per Ply (lbs) | | Chords Tens.Comp. | |
| V - U | | 539 | -390 |
| Maximum Web Forces Per Ply (lbs) | | Webs Tens.Comp. Webs Tens. Comp. | |
| J - V | 110 | -439 | AF - T 478 -145 |
| J - AD | 495 | -133 | Q - R 21 -588 |
| AD - AF | 486 | -135 | |

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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 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# | Gravity Non-Gravity |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.441 F 470 240 | Loc R+ /R- /Rh /Rw /U /RL |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(TL): 0.819 F 253 180 | A 437 /- /- /231 /45 /183 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.377 F - - | E 455 /- /- /262 /45 /- |
| | EXP: C | | HORZ(TL): 0.701 F - - | Wind reactions based on MWFRS |
| Des Ld: 40.00 | Mean Height: 18.53 ft | | Creep Factor: 2.0 | A Brg Width = 6.0 Min Req = 1.5 |
| NCBCLL: 10.00 | TCDL: 5.0 psf | Code / Misc Criteria | Max TC CSI: 0.379 | E Brg Width = 3.0 Min Req = 1.5 |
| Soffit: 2.00 | BCDL: 5.0 psf | Bldg Code: FBC 7th Ed. 2020 | Max BC CSI: 0.193 | Bearings A & E are a rigid surface. |
| Load Duration: 1.25 | MWFRS Parallel Dist: h to 2h | TPI Std: 2014 | Max Web CSI: 0.026 | Members not listed have forces less than 375# |
| Spacing: 16.0 " | C&C Dist a: 3.00 ft | Rep Factors Used: Yes | | Maximum Top Chord Forces Per Ply (lbs) |
| | Loc. from endwall: not in 9.00 ft | 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: 20.02.01A.1209.11 | B - C 45 -551 C - D 105 -703 |

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x8 SP 2400f-2.0E

Bot chord 2x4 SP #2

Webs 2x4 SP #3

Lumber value set "13B" uses design values approved
1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

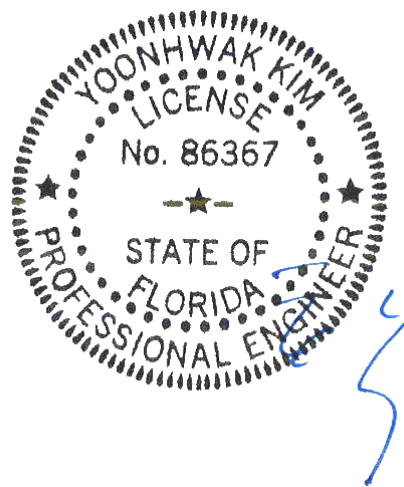
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 9-11-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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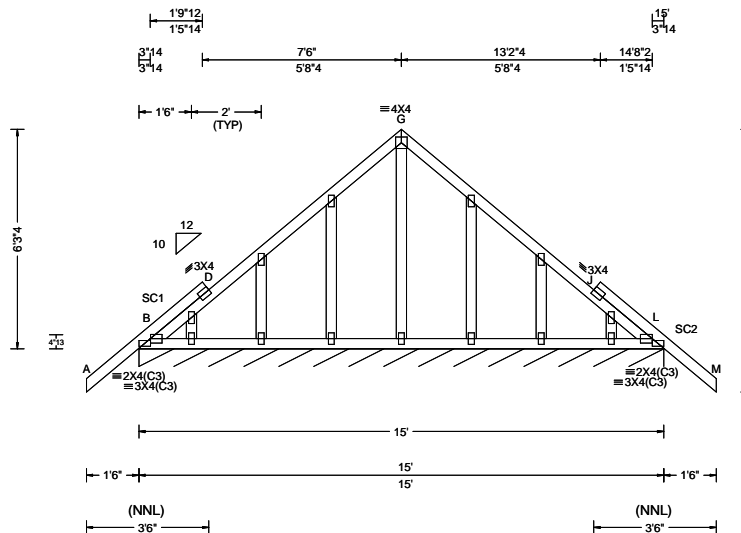
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|----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: E01 | Ply: 1 Qty: 1 | SEQN: 335712 / T2 / GABL FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46188 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.001 N 999 240 VERT(TL): 0.002 N 999 180 HORZ(LL): -0.001 T - - HORZ(TL): 0.001 T - - Creep Factor: 2.0 Max TC CSI: 0.197 Max BC CSI: 0.066 Max Web CSI: 0.087 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L* 100 /- /- /54 /- /8 Wind reactions based on MWFRS L Brg Width = 180 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

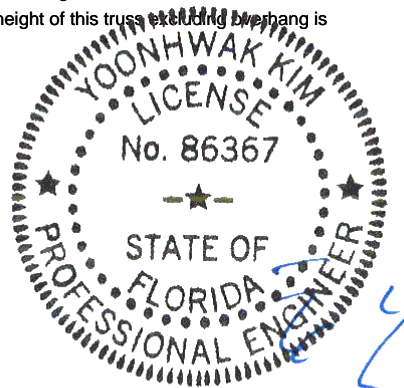
In lieu of structural panels use purlins to brace TC @ 24" oc.

Wind

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

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals.
Attach stacked top chord (SC) to dropped top chord in noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.
The overall height of this truss including overhang is 6-3-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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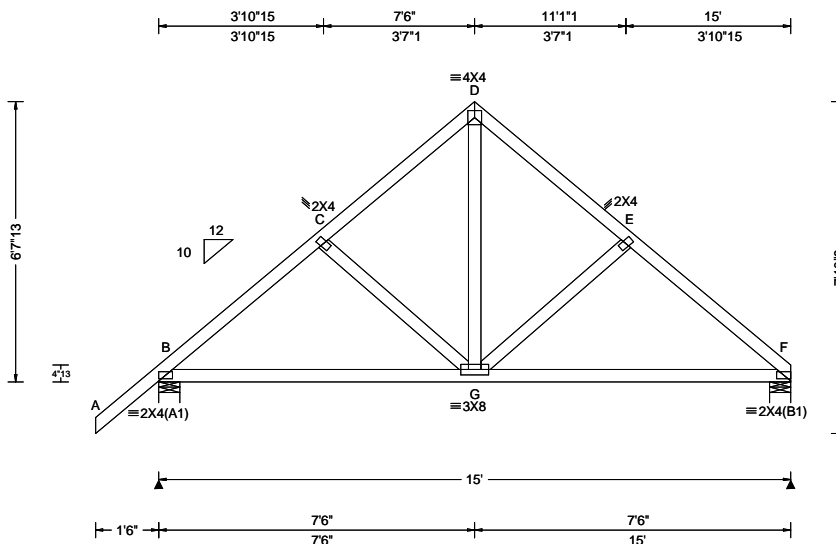
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|----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: E02 | Ply: 1 Qty: 6 | SEQN: 335714 / T1 / COMN FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46001 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.012 G 999 240 VERT(TL): 0.026 G 999 180 HORZ(LL): 0.006 G - - HORZ(TL): 0.012 G - - Creep Factor: 2.0 Max TC CSI: 0.194 Max BC CSI: 0.493 Max Web CSI: 0.167 VIEW Ver: 20.02.01A.1209.11 | Gravity Loc R+ / R- / Rh / Rw / U / RL B 759 -/- /- /483 /116 /232 F 639 -/- /- /382 /87 -/ Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.5 F Brg Width = 6.0 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 143 -758 D - E 155 -582 C - D 154 -579 E - F 146 -764 |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

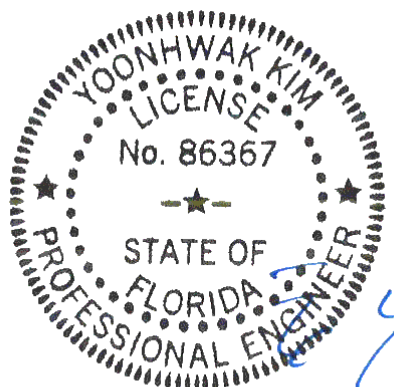
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-7-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)

| Chords | Tens.Comp. | Chords | Tens. Comp. |
|--------|------------|--------|-------------|
| B - G | 518 -71 | G - F | 535 -47 |

Maximum Web Forces Per Ply (lbs)

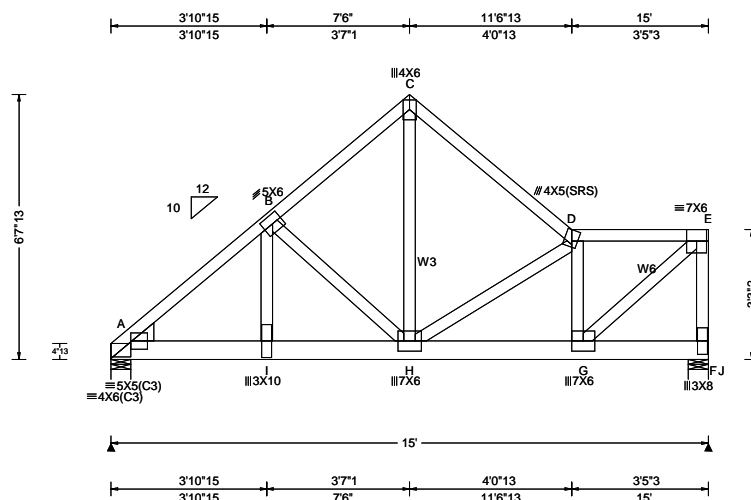
| Webs | Tens.Comp. |
|-------|------------|
| D - G | 439 -98 |

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Orlando FL, 32837

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|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: E03 | Ply: 2 Qty: 1 | SEQN: 354450 / T39 / COMN FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46313 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|

2 Complete Trusses Required



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2015 TPI Std: 2014 Rep Factors Used: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.071 H 999 240 VERT(TL): 0.141 H 999 180 HORZ(LL): 0.027 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.349 Max BC CSI: 0.428 Max Web CSI: 0.835 VIEW Ver: 20.01.01A.0724.11 | Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 5891 -/- /- /- /828 -/ J 5292 -/- /- /- /855 -/ Wind reactions based on MWFRS A Brg Width = 6.0 Min Req = 2.4 J Brg Width = 6.0 Min Req = 2.2 Bearings A & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 580 -3923 C - D 426 -2640 B - C 425 -2640 D - E 442 -2732 |

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2
Bot chord 2x6 SP 2400f-2.0E
Webs 2x4 SP #3 W3,W6 2x4 SP #2;
Lt Wedge: 2x6 SP 2400f-2.0E;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Nailnote
Nail Schedule: 0.131"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 66 plf at 0.00 to 66 plf at 15.00
BC: From 10 plf at 0.00 to 10 plf at 12.56
BC: From 20 plf at 12.56 to 20 plf at 15.00
BC: 1388 lb Conc. Load at 2.06, 4.06
BC: 1282 lb Conc. Load at 4.56
BC: 1490 lb Conc. Load at 6.56, 8.56, 10.56, 12.56

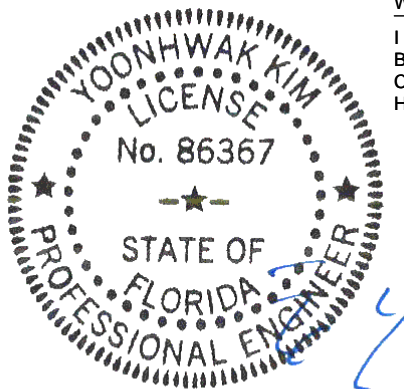
Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Additional Notes
The overall height of this truss excluding overhang is 6'-7-13.

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

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
A - I 2979 -434 H - G 2852 -462
I - H 2953 -432

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
I - B 1602 -169 D - G 206 -1194
B - H 155 -1287 G - E 3700 -598
C - H 3172 -480 E - F 420 -2549
H - D 176 -1030

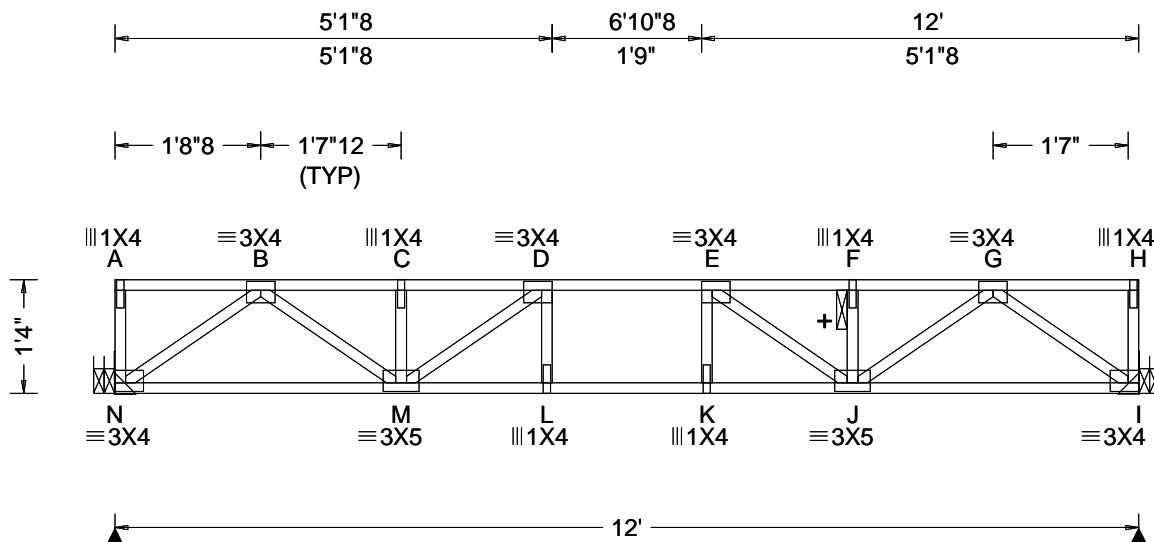


FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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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

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|----------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: F03 | Ply: 1 Qty: 12 | SEQN: 335824 / T20 / SY42 FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45516 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | Maximum Reactions (lbs) |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 24.0 " | Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.084 L 999 480 VERT(TL): 0.127 L 999 360 HORZ(LL): 0.017 L - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max BC CSI: 0.579 Max Web CSI: 0.308 VIEW Ver: 20.02.01A.1209.11 | Gravity Loc R+ / R- / Rh N 660 -/- /- /- I 660 -/- /- /- N Brg Width = - Min Req = - I Brg Width = - Min Req = - Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 1334 E - F 0 - 1334 C - D 0 - 1334 F - G 0 - 1334 D - E 0 - 1611 |

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 4x2 SP #2
Bot chord 4x2 SP #2
Webs 4x2 SP #3
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

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

Bearing at location x=0' uses the following support conditions: 0'

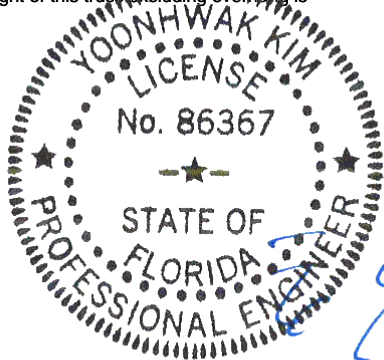
Bearing N (0', 10') HUS46
Supporting Member: (2)2x6 SP 2400f-2.0E
(4) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

Bearing I (11'9", 10') HUS46
Supporting Member: (2)2x6 SP 2400f-2.0E
(4) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Truss must be installed as shown with top chord up.
The overall height of this truss including overhang is 1'-4"-0".



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Maximum Bot Chord Forces Per Ply (lbs)

| Chords | Tens.Comp. | Chords | Tens. Comp. |
|--------|------------|--------|-------------|
| N - M | 812 0 | K - J | 1610 0 |
| M - L | 1610 0 | J - I | 812 0 |
| L - K | 1611 0 | | |

Maximum Web Forces Per Ply (lbs)

| Webs | Tens.Comp. | Webs | Tens. Comp. |
|-------|------------|-------|-------------|
| N - B | 0 - 994 | E - J | 0 - 473 |
| B - M | 648 0 | J - G | 648 0 |
| M - D | 0 - 473 | G - I | 0 - 994 |

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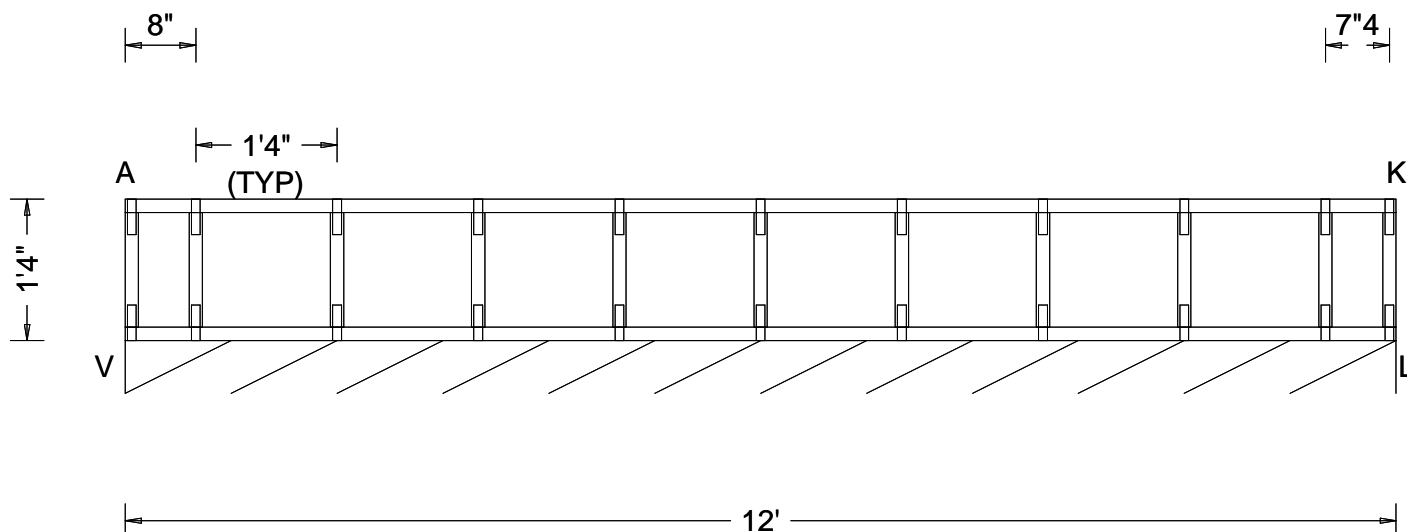
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Suite 150
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|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: F04 | Ply: 1 Qty: 1 | SEQN: 335826 / T40 / SY42 FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45954 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 24.0 " | Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.000 I 999 480 VERT(TL): 0.000 I 999 360 HORZ(LL): -0.000 V - - HORZ(TL): 0.000 V - - Creep Factor: 2.0 Max TC CSI: 0.079 Max BC CSI: 0.019 Max Web CSI: 0.032 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L* 110 /- /- /- /- /- L Brg Width = 144 Min Req = - Bearing V is a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Bracing

Sheathing is required for any longitudinal(drag) forces.
All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes

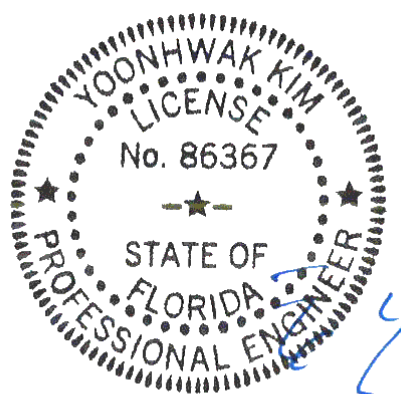
All plates are 1X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Additional Notes

Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 1'-4-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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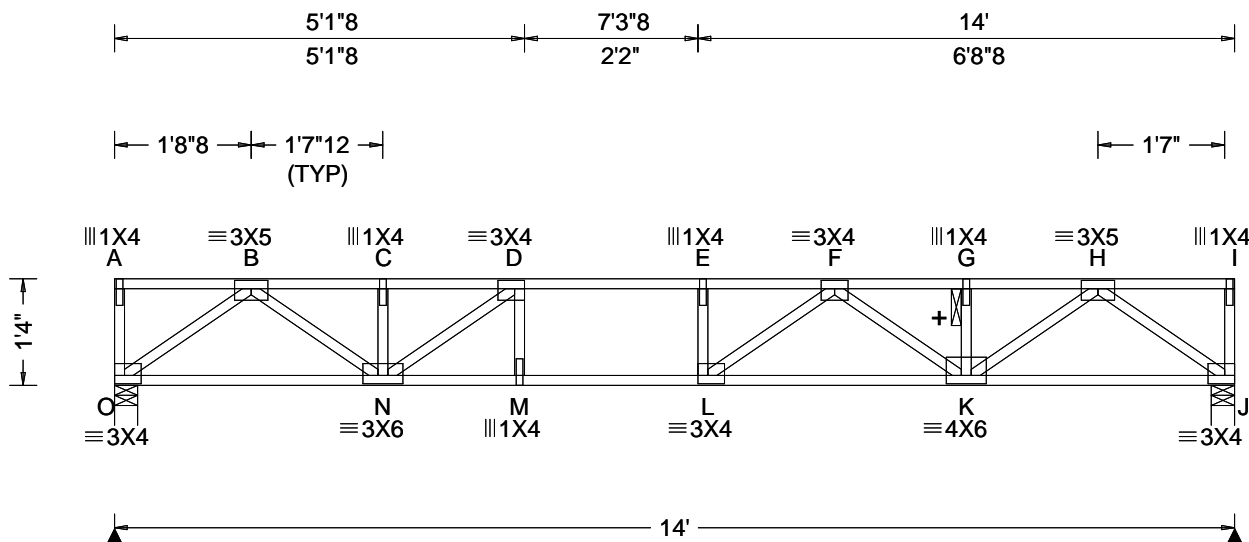
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|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: F05 | Ply: 1 Qty: 6 | SEQN: 335774 / T24 / SY42 FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45359 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | Maximum Reactions (lbs) |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 24.0 " | Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.178 E 945 480 VERT(TL): 0.266 E 632 360 HORZ(LL): 0.026 J - - HORZ(TL): 0.036 J - - Creep Factor: 2.0 Max BC CSI: 0.885 Max Web CSI: 0.399 VIEW Ver: 20.02.01A.1209.11 | Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL O 770 -/- /- /- /- /- /- J 770 -/- /- /- /- /- /- O Brg Width = 3.5 Min Req = 1.5 J Brg Width = 3.5 Min Req = 1.5 Bearings O & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 1621 E - F 0 - 2159 C - D 0 - 1621 F - G 0 - 1645 D - E 0 - 2165 G - H 0 - 1645 |

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 4x2 SP M-31
Bot chord 4x2 SP #2
Webs 4x2 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

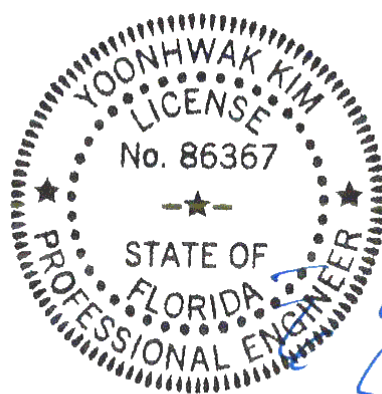
Bottom chord checked for 10.00 psf non-concurrent live load.

Additional Notes

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

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1'-4"-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)

| Chords | Tens.Comp. | Chords | Tens. Comp. |
|--------|------------|--------|-------------|
| O - N | 965 0 | L - K | 2050 0 |
| N - M | 2161 0 | K - J | 970 0 |
| M - L | 2165 0 | | |

Maximum Web Forces Per Ply (lbs)

| Webs | Tens.Comp. | Webs | Tens. Comp. |
|-------|------------|-------|-------------|
| O - B | 0 - 1182 | F - K | 0 - 503 |
| B - N | 813 0 | K - H | 838 0 |
| N - D | 0 - 788 | H - J | 0 - 1188 |
| L - F | 394 -74 | | |

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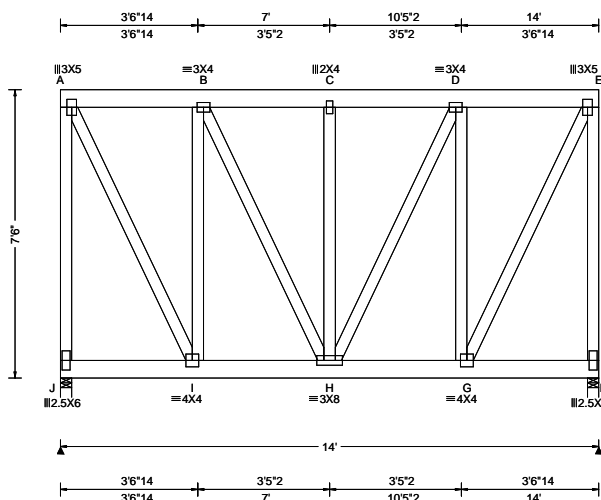
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|-----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: FT02 | Ply: 2 Qty: 1 | SEQN: 354452 / T8 / FLAT FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46296 KD / WHK 01/26/2021 |
|-----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|

2 Complete Trusses Required



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 17.50 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 12.50 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.028 C 999 240 VERT(TL): 0.057 C 999 180 HORZ(LL): 0.002 A - - HORZ(TL): 0.005 A - - Creep Factor: 2.0 Max TC CSI: 0.108 Max BC CSI: 0.103 Max Web CSI: 0.595 VIEW Ver: 20.01.01A.0724.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL J 2821 -/- /- /- /274 -/ F 2887 -/- /- /- /281 -/ Wind reactions based on MWFRS J Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 Min Req = 1.5 Bearings J & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 50 -518 C - D 67 -690 B - C 67 -690 D - E 50 -519 |

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x6 SP 2400f-2.0E
Bot chord 2x6 SP 2400f-2.0E
Webs 2x4 SP #3
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Nailnote
Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @ 4.25" o.c.
Bot Chord: 1 Row @ 12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 30 plf at 0.00 to 30 plf at 14.00
BC: From 20 plf at 0.00 to 20 plf at 14.00
TC: 455 lb Conc. Load at 0.44, 1.77, 3.10, 4.44, 5.77, 7.10, 8.44, 9.77, 11.10, 12.44, 13.65

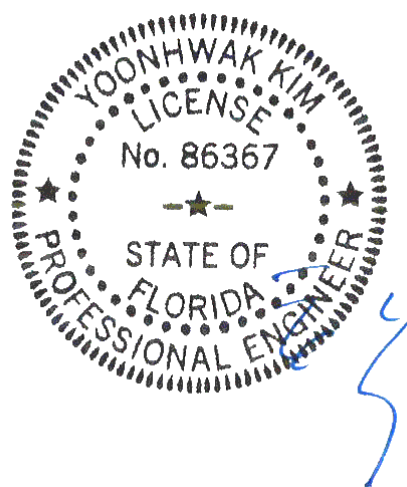
Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

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

Additional Notes
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 7'-6-0.
WIND LOAD CASE MODIFIED!

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
I - H 552 -54 H - G 553 -54

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
A - J 126 -1208 D - G 101 -815
A - I 1184 -114 G - E 1187 -115
I - B 101 -813 E - F 128 -1232
C - H 62 -460

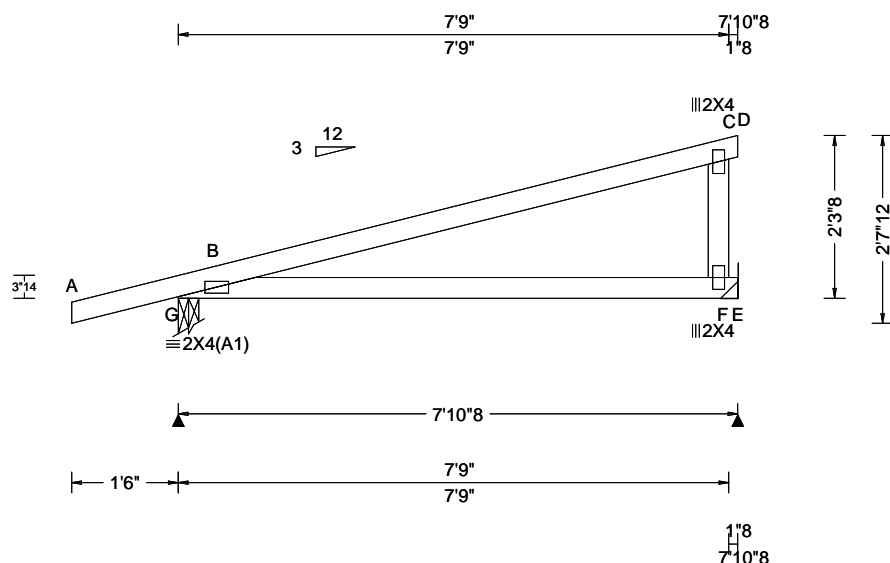


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01/26/2021

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|----------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: M01 | Ply: 1 Qty: 17 | SEQN: 335722 / T25 / MONO FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45844 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.019 F - - HORZ(TL): 0.036 F - - Creep Factor: 2.0 Max TC CSI: 0.748 Max BC CSI: 0.545 Max Web CSI: 0.280 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 427 /- /- /232 /95 /80 E 305 /- /- /161 /65 /- Wind reactions based on MWFRS G Brg Width = 3.5 Min Req = 1.5 E Brg Width = - Min Req = - Bearing G is a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

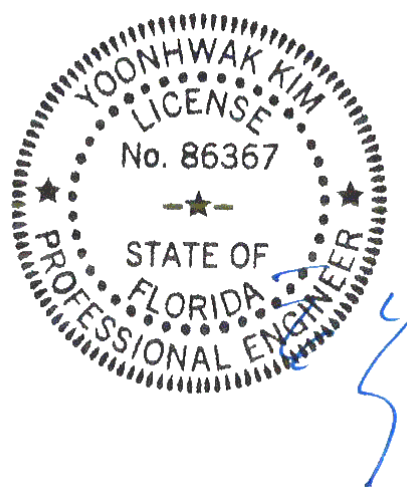
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2'-3"-8".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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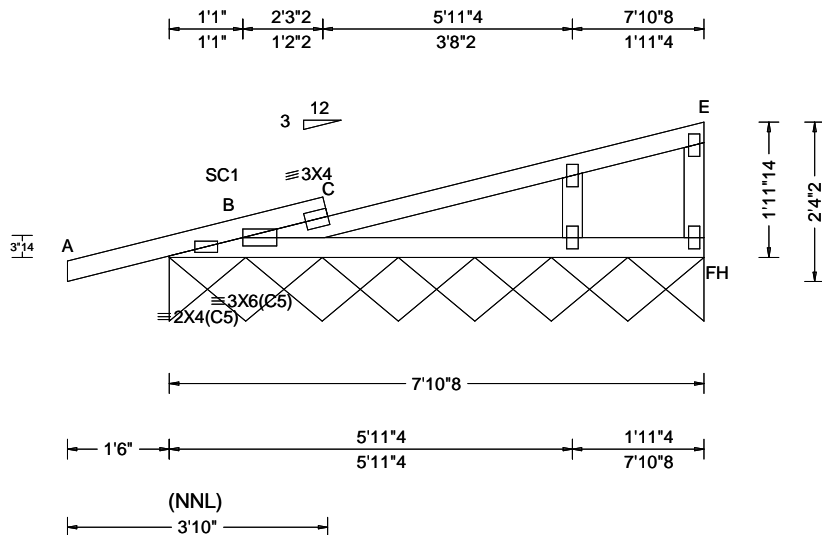
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: M02 | Ply: 1 Qty: 2 | SEQN: 335724 / T15 / GABL FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46063 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.030 C 999 240 VERT(TL): 0.058 C 999 180 HORZ(LL): -0.004 E - - HORZ(TL): 0.008 E - - Creep Factor: 2.0 Max TC CSI: 0.299 Max BC CSI: 0.257 Max Web CSI: 0.052 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL H* 93 /- /- /49 /- /4 Wind reactions based on MWFRS H Brg Width = 94.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Stack Chord: SC1 2x4 SP #2;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

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

Right end vertical not exposed to wind pressure.

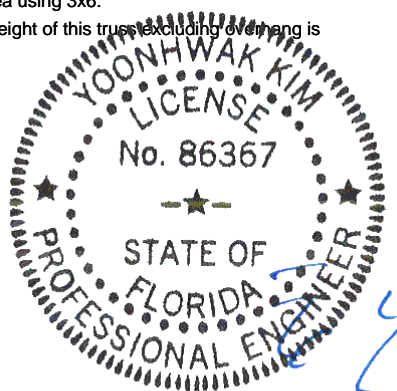
Wind loading based on both gable and hip roof types.

Additional Notes

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

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

The overall height of this truss excluding overhang is 1'-11-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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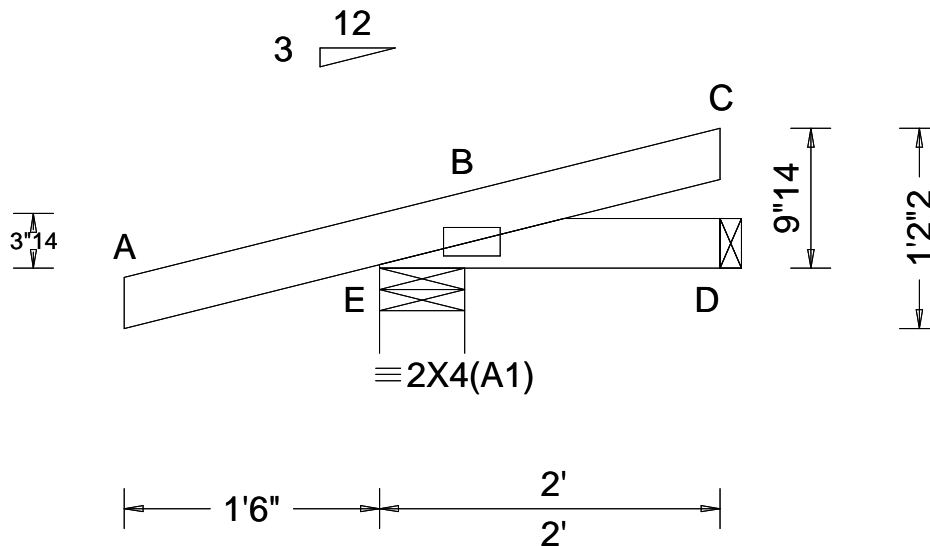
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|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: M03 | Ply: 1 Qty: 7 | SEQN: 335878 / T17 / MONO FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45313 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.005 C 999 240 VERT(TL): 0.008 C 999 180 HORZ(LL): 0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.148 Max BC CSI: 0.036 Max Web CSI: 0.000 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 231 /- /- /135 /94 /33 D 38 /- /- /30 /16 /- Wind reactions based on MWFRS E Brg Width = 6.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

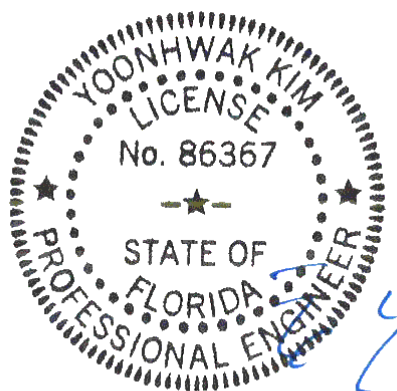
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 0-9-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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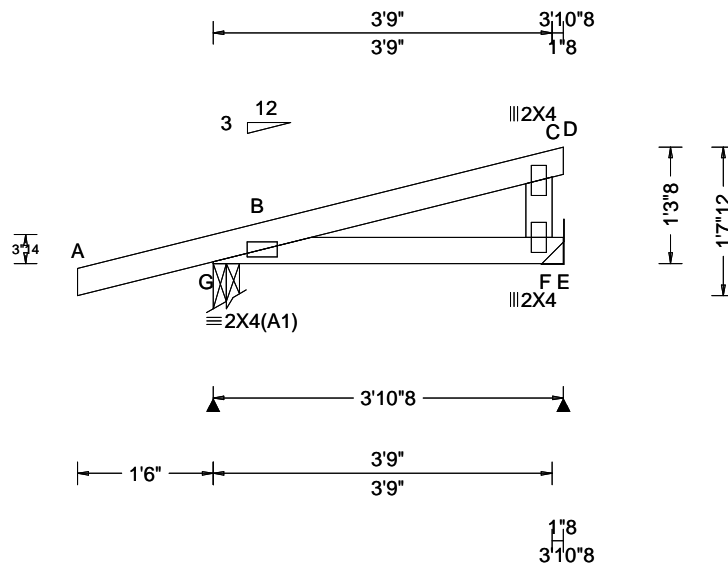
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|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: M04 | Ply: 1 Qty: 8 | SEQN: 335960 / T18 / MONO FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45735 KD / WHK 01/26/2021 |
|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.001 F - - HORZ(TL): 0.003 F - - Creep Factor: 2.0 Max TC CSI: 0.148 Max BC CSI: 0.101 Max Web CSI: 0.024 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 278 -/- /157 /87 /47 E 131 -/- /75 /9 -/ Wind reactions based on MWFRS G Brg Width = 3.5 Min Req = 1.5 E Brg Width = - Min Req = - Bearing G is a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

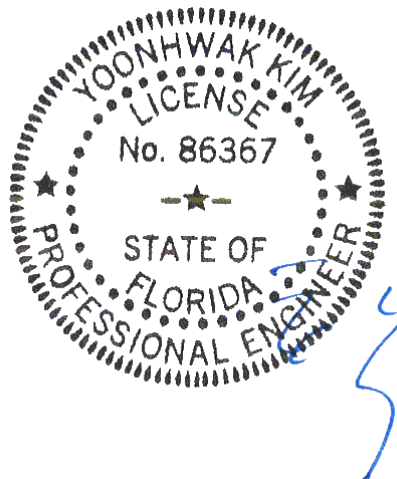
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 1'-3-8.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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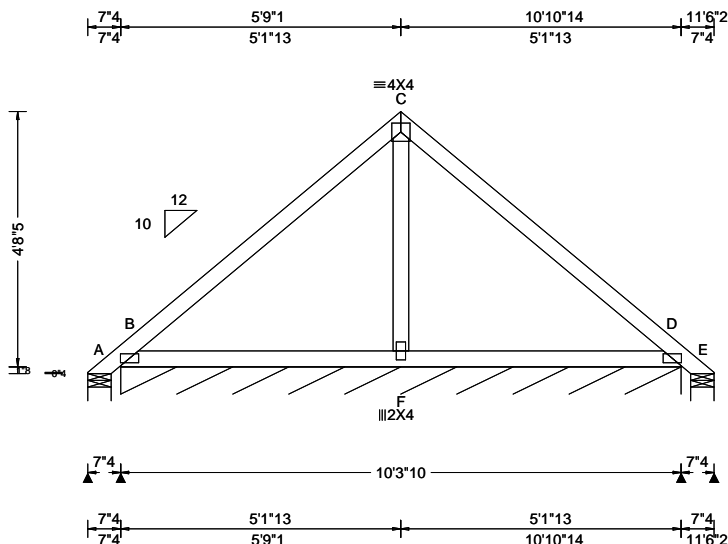
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|-----------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB01 | Ply: 1 Qty: 17 | SEQN: 335972 / T7 / COMN FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46218 KD / WHK 01/26/2021 |
|-----------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 23.42 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.001 F 999 240 VERT(TL): 0.002 F 999 180 HORZ(LL): -0.001 F - - HORZ(TL): 0.003 F - - Creep Factor: 2.0 Max TC CSI: 0.256 Max BC CSI: 0.085 Max Web CSI: 0.009 VIEW Ver: 20.02.01A.1209.11 | Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 4 /- /- /- /16 /- B* 48 /- /- /42 /- /- E - /-193 /- /- /94 /- Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 123 Min Req = - E Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved
1/30/2013 by ALSC

Plating Notes

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

Loading

Bottom chord checked for 10.00 psf non-concurrent
live load.

Wind

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

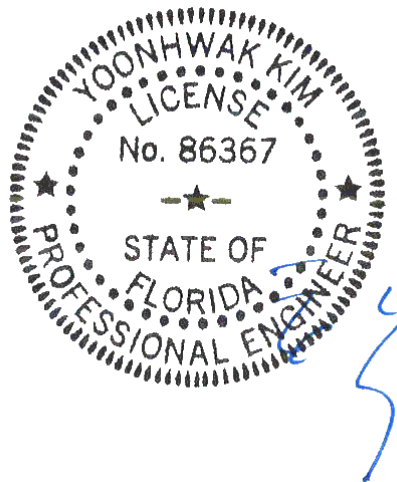
Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -193# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is
4-9-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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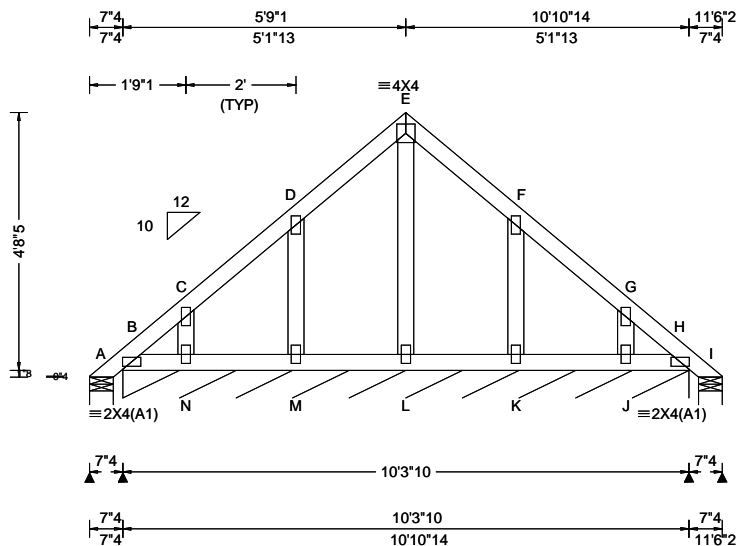
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|-----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB02 | Ply: 1 Qty: 2 | SEQN: 335956 / T3 / COMN FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45781 KD / WHK 01/26/2021 |
|-----------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 23.42 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.000 F 999 240 VERT(TL): 0.000 F 999 180 HORZ(LL): -0.000 F - - HORZ(TL): 0.000 F - - Creep Factor: 2.0 Max TC CSI: 0.036 Max BC CSI: 0.011 Max Web CSI: 0.022 VIEW Ver: 20.02.01A.1209.11 | Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 1 /- /- /5 /- /- B* 28 /- /- /30 /- /- I 17 /- /- /11 /- /- Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 123 Min Req = - I Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & I are a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved
1/30/2013 by ALSC

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent
live load.

Wind

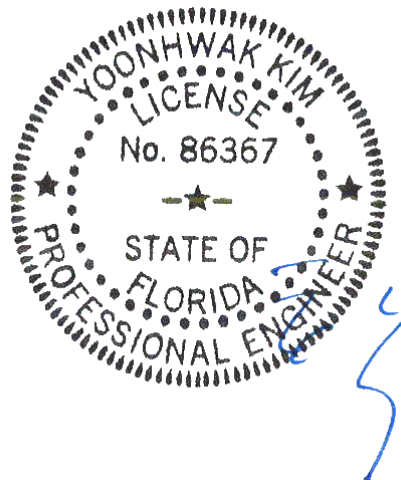
Wind loads based on MWFRS with additional C&C
member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is
4-9-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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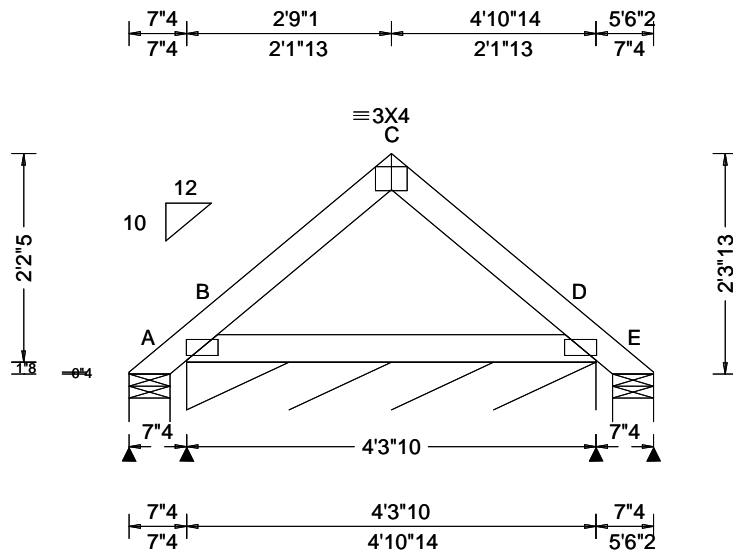
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|-----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB03 | Ply: 1 Qty: 5 | SEQN: 335899 / T12 / GABL FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46156 KD / WHK 01/26/2021 |
|-----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.23 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.000 C 999 240 VERT(TL): 0.001 C 999 180 HORZ(LL): -0.000 - - HORZ(TL): 0.001 - - Creep Factor: 2.0 Max TC CSI: 0.032 Max BC CSI: 0.053 Max Web CSI: 0.000 VIEW Ver: 20.02.01A.1209.11 | Gravity Loc R+ / R- / Rh / Rw / U / RL A 1 /-1 /- /53 /60 /67 B* 83 /- /- /72 /6 /- E 1 /-1 /- /11 /18 /- Non-Gravity Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 51.6 Min Req = - E Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

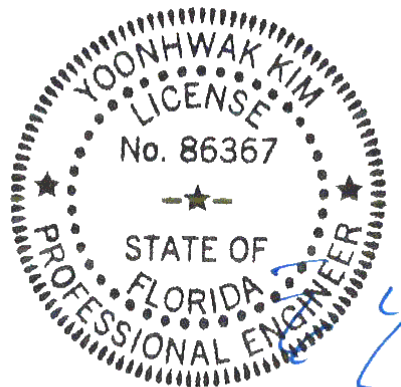
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 2-3-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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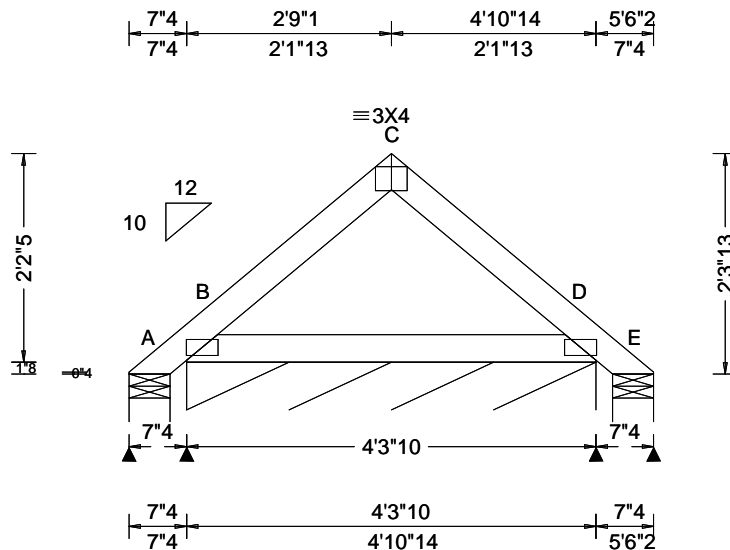
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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|-----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB03 | Ply: 1 Qty: 2 | SEQN: 335945 / T26 / GABL FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45796 KD / WHK 01/26/2021 |
|-----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.23 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.000 C 999 240 VERT(TL): 0.001 C 999 180 HORZ(LL): -0.000 - - HORZ(TL): 0.001 - - Creep Factor: 2.0 Max TC CSI: 0.032 Max BC CSI: 0.053 Max Web CSI: 0.000 VIEW Ver: 20.02.01A.1209.11 | Gravity Loc R+ / R- / Rh / Rw / U / RL A 1 /-1 /- /52 /58 /65 B* 83 /- /- /71 /26 /- E 1 /-1 /- /11 /18 /- Non-Gravity Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 51.6 Min Req = - E Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

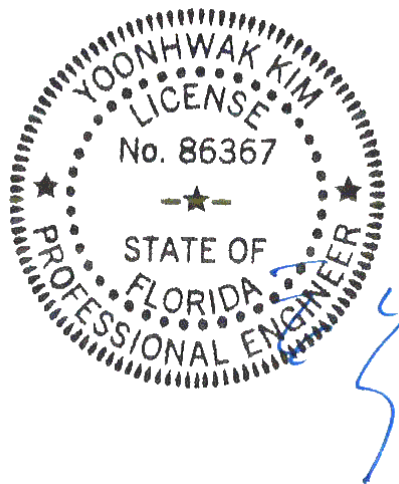
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 2-3-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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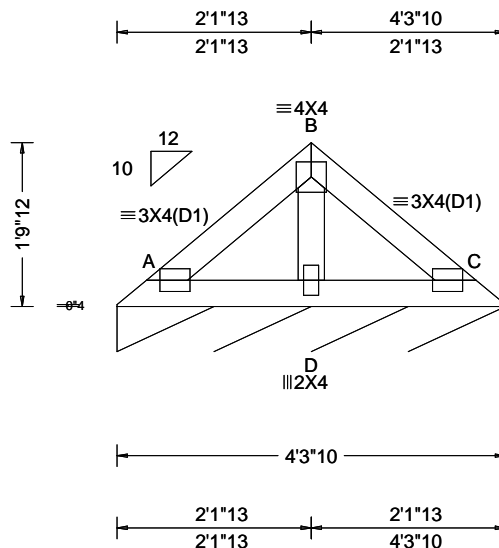
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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|-----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB04 | Ply: 1 Qty: 1 | SEQN: 335947 / T14 / COMN FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45344 KD / WHK 01/26/2021 |
|-----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 22.17 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2015 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.000 D 999 240 VERT(TL): 0.000 D 999 180 HORZ(LL): -0.000 D - - HORZ(TL): 0.000 D - - Creep Factor: 2.0 Max TC CSI: 0.006 Max BC CSI: 0.012 Max Web CSI: 0.002 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A* 4 /- /- /20 /- /- Wind reactions based on MWFRS A Brg Width = 51.6 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

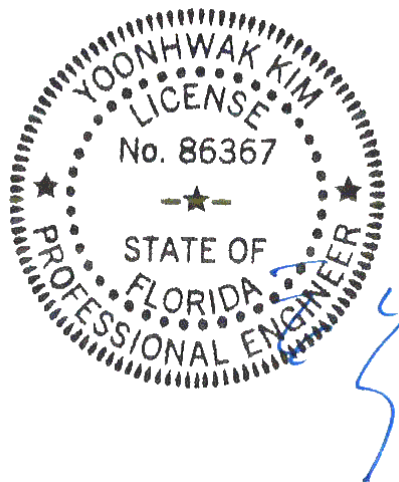
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 1'-11"-4.



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01/26/2021

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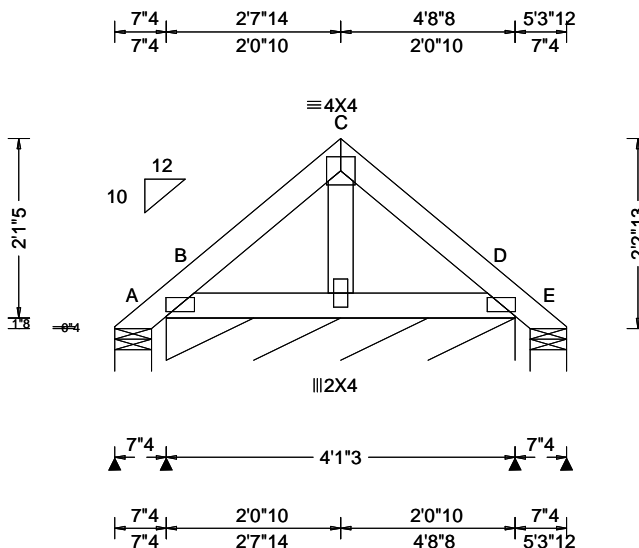
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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|-----------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB06 | Ply: 1 Qty: 14 | SEQN: 335822 / T13 / GABL FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45766 KD / WHK 01/26/2021 |
|-----------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 18.19 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): -0.000 F 999 240 VERT(TL): 0.000 F 999 180 HORZ(LL): 0.000 F - - HORZ(TL): 0.000 F - - Creep Factor: 2.0 Max TC CSI: 0.042 Max BC CSI: 0.019 Max Web CSI: 0.011 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 9 /-15 /- /53 /50 /63 B* 86 /- /- /68 /33 /- E - /-4 /- /12 /8 /- Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 49.2 Min Req = - E Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

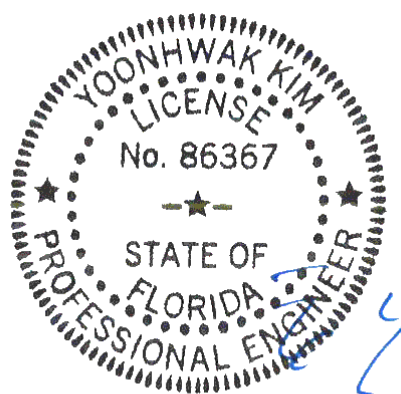
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 2-2-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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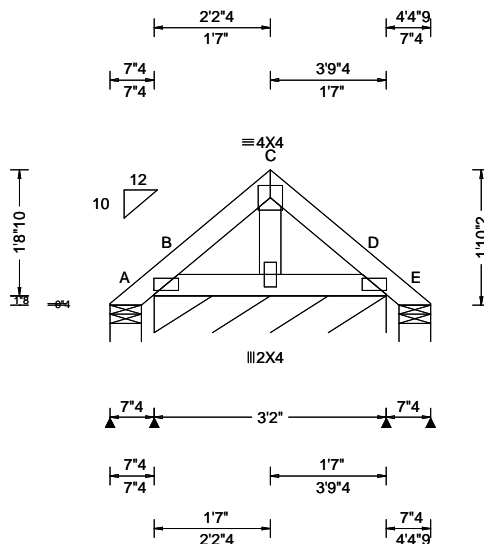
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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|-----------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB07 | Ply: 1 Qty: 11 | SEQN: 335746 / T29 / GABL FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45578 KD / WHK 01/26/2021 |
|-----------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs), or *=PLF |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.75 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.000 F 999 240 VERT(TL): 0.000 F 999 180 HORZ(LL): 0.000 F - - HORZ(TL): 0.000 F - - Creep Factor: 2.0 Max TC CSI: 0.023 Max BC CSI: 0.011 Max Web CSI: 0.009 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 8 -/- /- /42 /33 /50 B* 83 -/- /- /67 /24 /- E 8 -/- /- /8 -/- /- Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 38.0 Min Req = - E Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

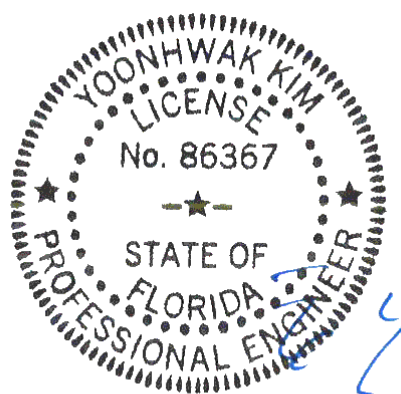
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 1-10-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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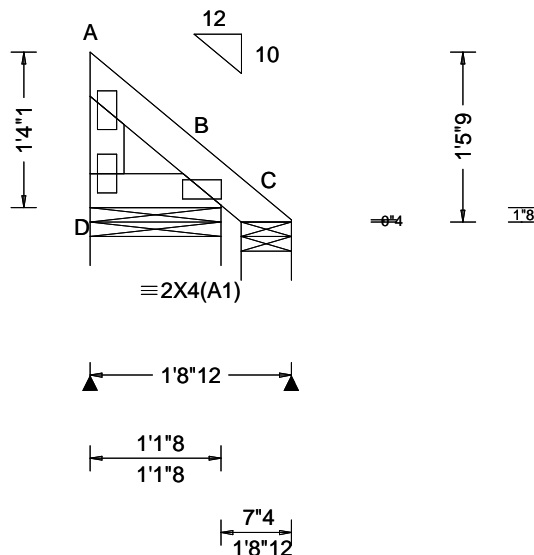
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|-----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB09 | Ply: 1 Qty: 3 | SEQN: 335750 / T19 / GABL FROM: CDM | Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45921 KD / WHK 01/26/2021 |
|-----------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ Maximum Reactions (lbs) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.39 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.000 D 999 240 VERT(TL): 0.000 D 999 180 HORZ(LL): 0.000 A - - HORZ(TL): 0.000 D - - Creep Factor: 2.0 Max TC CSI: 0.011 Max BC CSI: 0.005 Max Web CSI: 0.004 VIEW Ver: 20.02.01A.1209.11 | Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 93 /- /- /85 /13 /33 C 14 /- /- /13 /1 /- Wind reactions based on MWFRS D Brg Width = 13.5 Min Req = 1.5 C Brg Width = 5.2 Min Req = 1.5 Bearings D & C are a rigid surface. Members not listed have forces less than 375# |

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

Left end vertical not exposed to wind pressure.

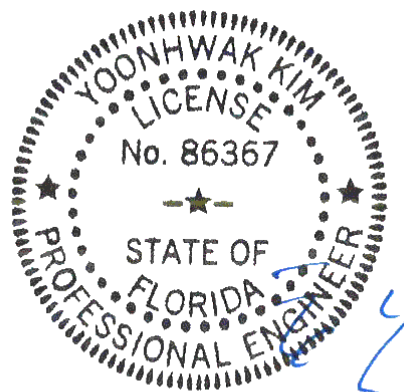
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 1'-5"-9".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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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

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Gable Stud Reinforcement Detail

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

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

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

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

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

Bracing Group Species and Grades:

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

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

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

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

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

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

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

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

Gable Vertical Plate Sizes

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

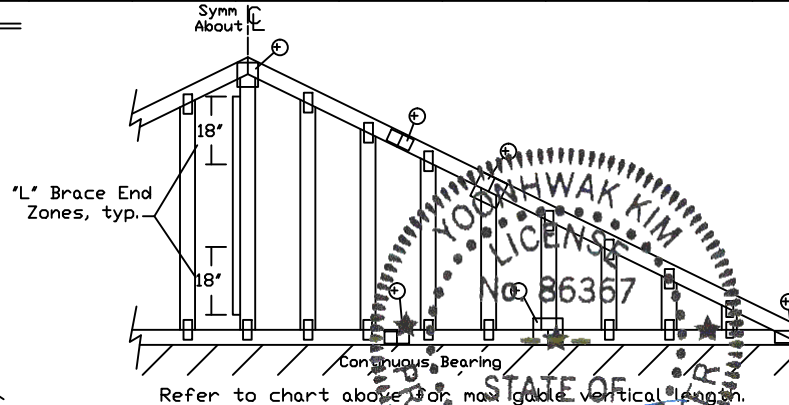
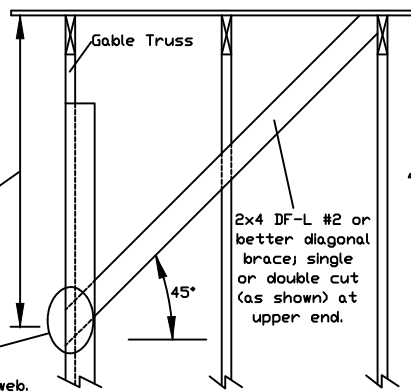
+ Refer to common truss design for peak, splice, and heel plates.

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

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

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



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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.sbcaindustry.org; ICC: www.iccsafe.org



514 Earth City Expressway
 Suite 242
 Earth City, MO 63045

Yoonhwak Kim, FL PE #86367

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB14015

DATE 01/26/2018

DRWG A14015ENC160118

Gable Stud Reinforcement Detail

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

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

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

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

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

Bracing Group Species and Grades:

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

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

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

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

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

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

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

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

Gable Vertical Plate Sizes

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

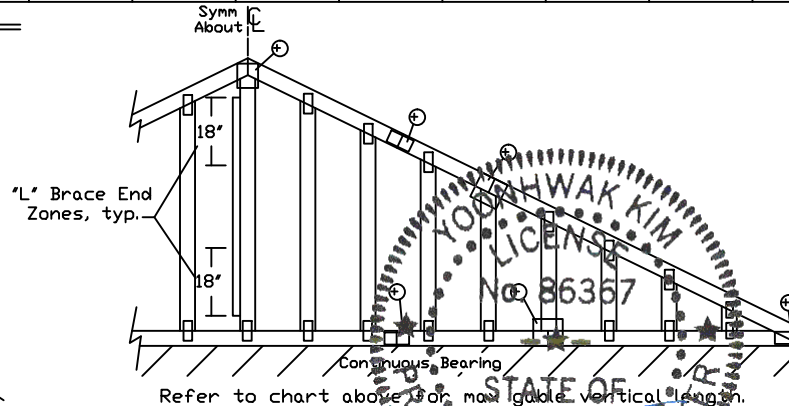
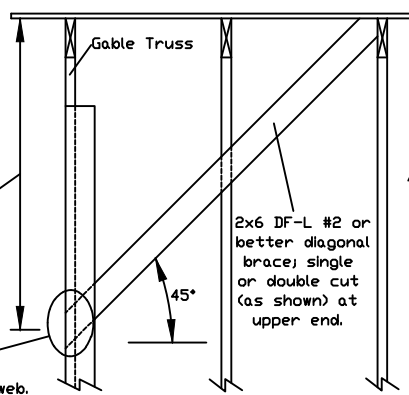
+ Refer to common truss design for peak, splice, and heel plates.

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

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

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



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For more information see this job's general notes page and these web sites: 01/26/2021
 ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org



514 Earth City Expressway
 Suite 242
 Earth City, MO 63045

Yoonhwak Kim, FL PE #86367

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB14030

DATE 01/26/2018

DRWG A14030ENC160118

CLR Reinforcing Member Substitution

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

Notes:

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

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

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

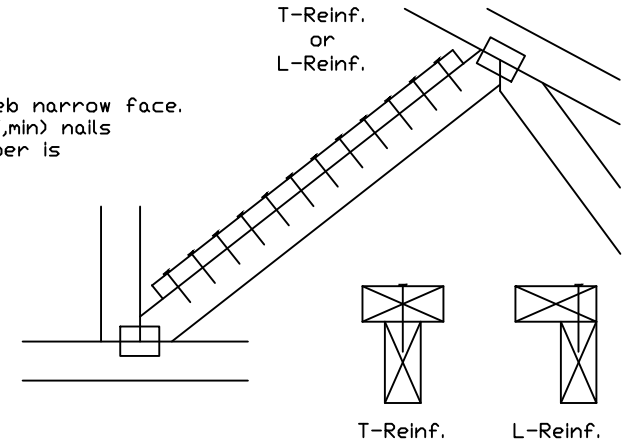
| Web Member Size | Specified CLR Restraint | Alternative Reinforcement T- or L- Reinf. | Scab Reinf. |
|-----------------|-------------------------|-------------------------------------------|-------------|
| 2x3 or 2x4 | 1 row | 2x4 | 1-2x4 |
| 2x3 or 2x4 | 2 rows | 2x6 | 2-2x4 |
| 2x6 | 1 row | 2x4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

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

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

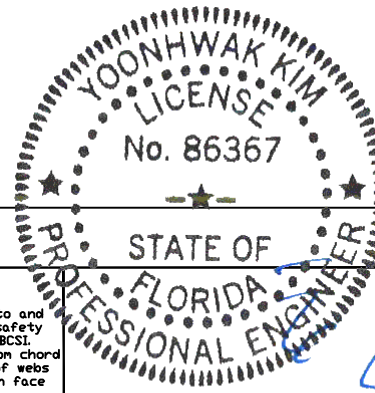
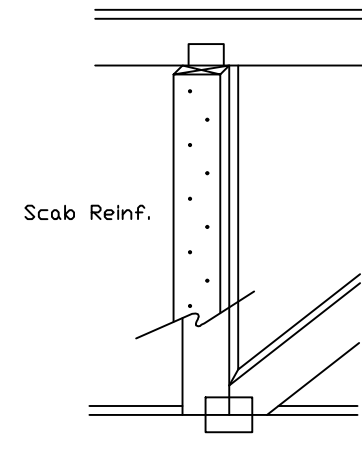
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



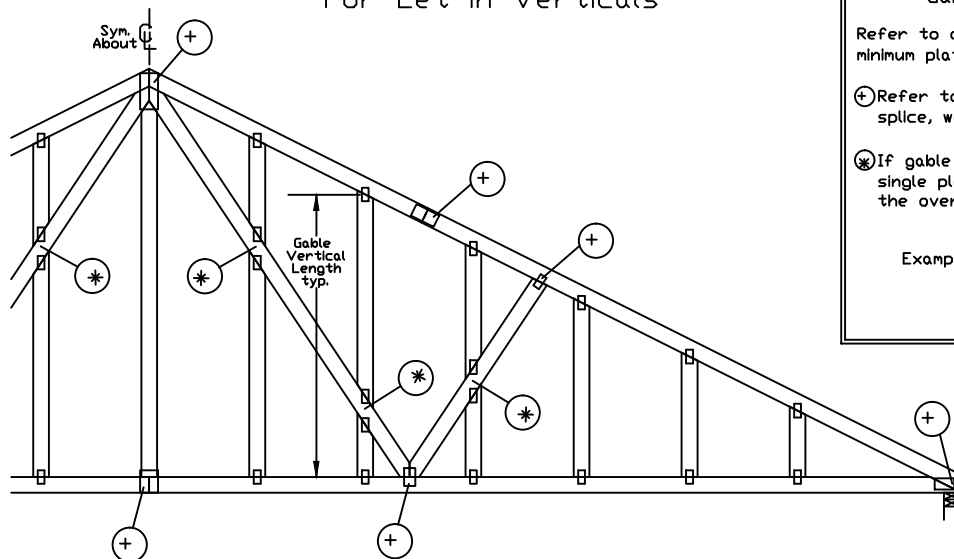
514 Earth City Expressway
Suite 242
Earth City, MO 63045

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| | | | |
|-----------|-----|------|--------------|
| TC LL | PSF | REF | CLR Subst. |
| TC DL | PSF | DATE | 01/02/19 |
| BC DL | PSF | DRWG | BRCLBSUB0119 |
| BC LL | PSF | | |
| TOT. LD. | PSF | | |
| DUR. FAC. | | | |
| SPACING | | | |

PE REG-978, Yoonhwak Kim, FL PE #86367

Gable Detail For Let-in Verticals



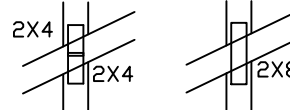
Gable Truss Plate Sizes

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

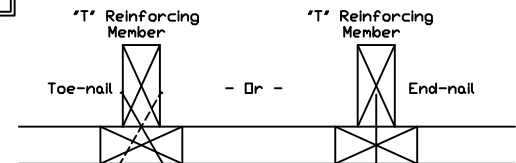
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

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

Example:



"T" Reinforcement Attachment Detail



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

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

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

| "T" Reinf. Mbr. Size | "T" Increase |
|----------------------|--------------|
| 2x4 | 30 % |
| 2x6 | 20 % |

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

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

"T" Reinforcing Member Size = 2x4

"T" Brace Increase (From Above) = 30% = 1.30

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

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

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

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

Toenailed Nails:

10d Common (0.148"x 3", min) Toenails at 4' o.c. plus
(4) toenails in the top and bottom chords.

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

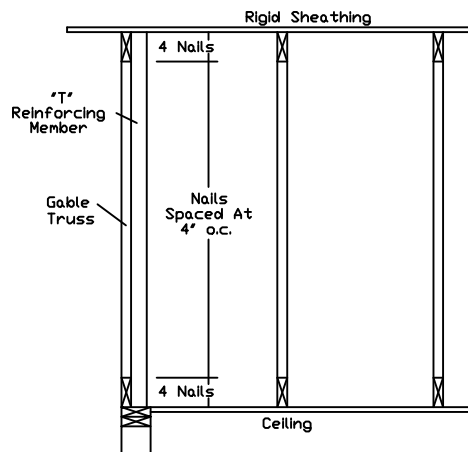
ASCE 7-05 Gable Detail Drawings

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

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

A11515ENC100118, A12015ENC100118, A14015ENC100118, A10015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015P100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A18030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030P100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015P100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030P100118

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



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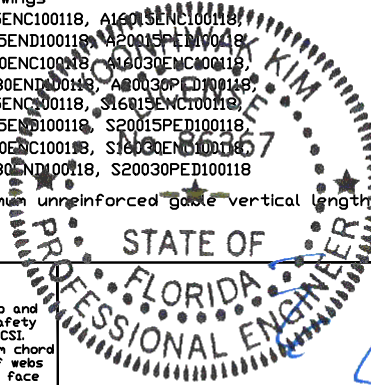
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For more information see this job's general notes page and these web sites: 01/26/2021
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org



514 Earth City Expressway
Suite 242
Earth City, MO 63045



Yoonhwak Kim, FL PE #86367

REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

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

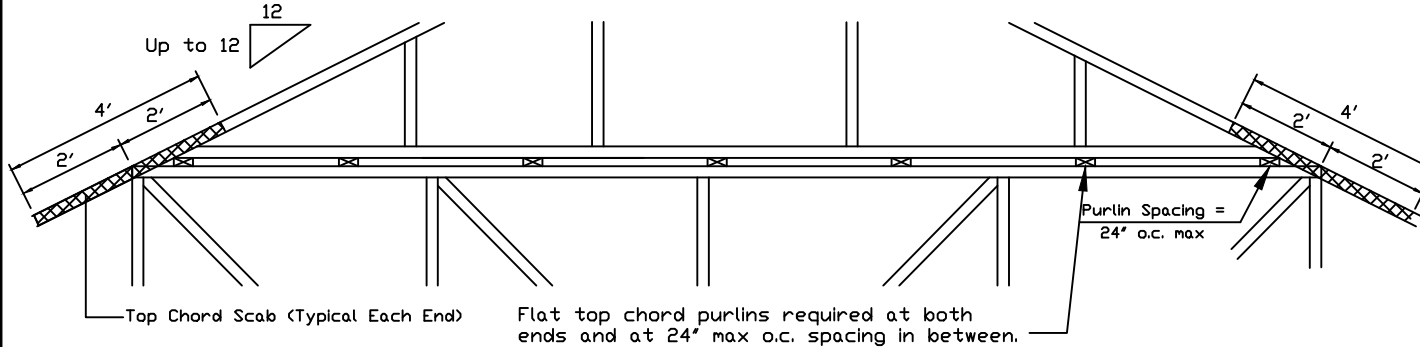
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

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

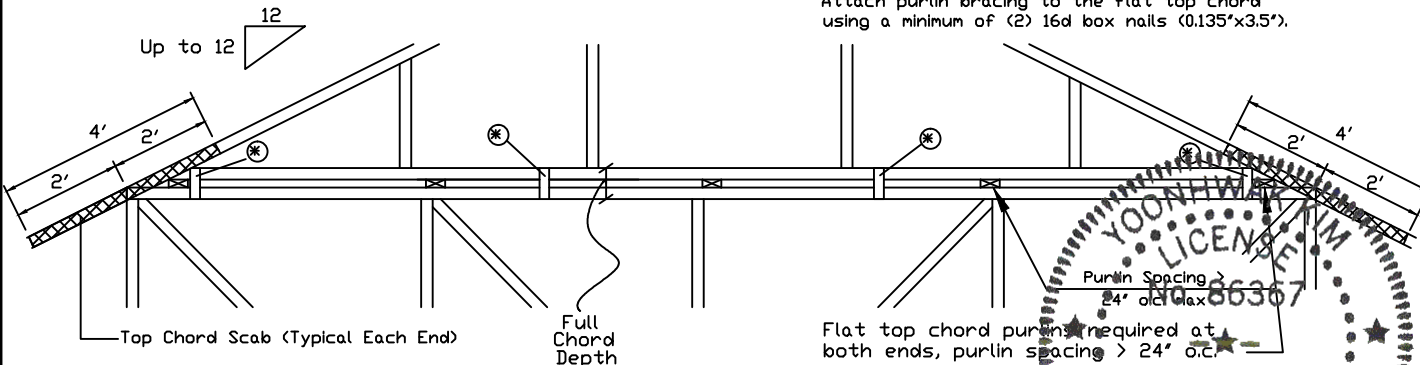


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

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

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

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



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

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

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

| |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trulox Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces. |
| APA Rated Gusset 8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces. |
| 2x4 Vertical Scabs 2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces. |
| 28PB Wave Piggyback Plate One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces. |

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

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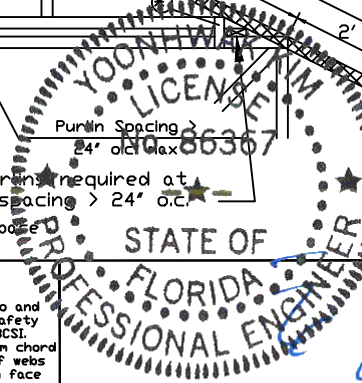
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

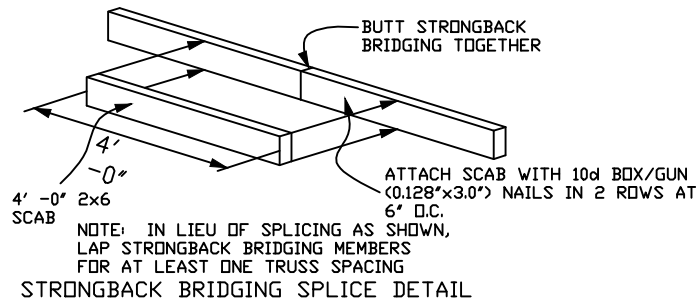


Yoonhwak Kim, FL PE #86367

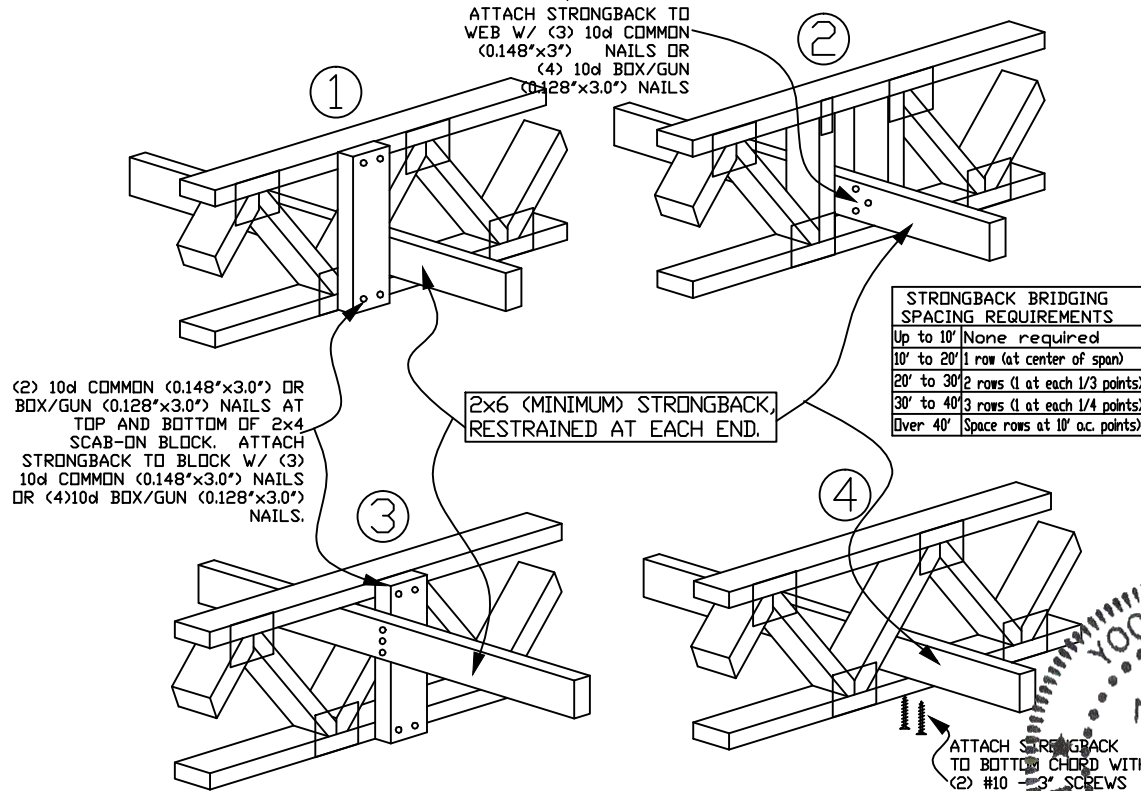
REF PIGGYBACK
DATE 01/02/2018
DRWG PB160160118

SPACING 24.0"

STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: Details 1 and 2 are the preferred attachment methods

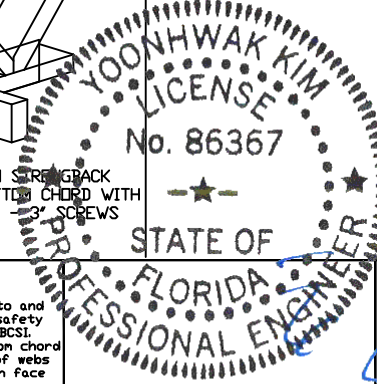


STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

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

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

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



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Earth City, MO 63045

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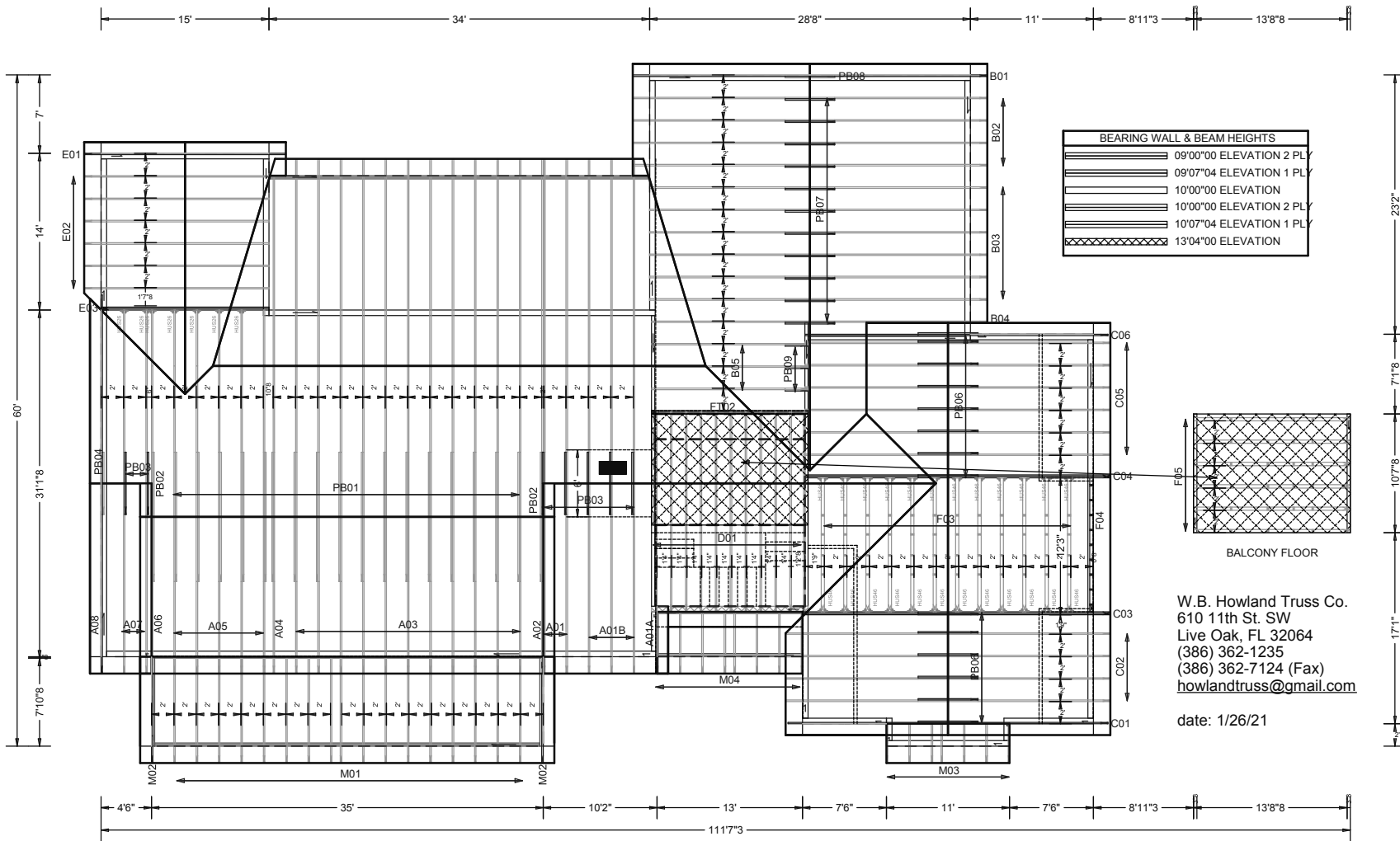
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| TC LL | PSF | REF | STRONGBACK |
| TC DL | PSF | DATE | 10/01/14 |
| BC DL | PSF | DRWG | STRBRIBR1014 |
| BC LL | PSF | | |
| TOT. LD. | PSF | | |
| DUR. FAC. | 1.00 | | |
| SPACING | | | |



JOB #: 20-4966

Job Name: Dale and Karla Nickelson
 Customer: Contractor
 Designer: Bill Eklund
 ADDRESS:
 SALESMAN: Fill in later
 : <Not Found>

JOB NO:
 20-4966

PAGE NO:
 1 OF 1