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Site Information:	Page 1:
Customer: American Truss Company, Inc.	Job Number: 20052
Job Description: SYMONS RESIDENCE	
Address: 4560 BRIGHTON DRIVE, SANTA ROSA, CA 95403	

Job Engineering Criteria:	
Design Code: CBC 2019 Res	IntelliVIEW Version: 21.02.01 through 22.02.01 JRef #: 1XM78800003
Wind Standard: ASCE 7-16 Wind Speed (mph): 110	Design Loading (psf): 45.00
Building Type: Closed	

This package contains general notes pages, 31 truss drawing(s) and 6 detail(s).

Item	Drawing Number	Truss
1	010.23.1100.26260	A1
3	010.23.1100.48973	B1
5	010.23.1108.30837	B3
7	010.23.1058.40963	C2
9	010.23.1059.38630	C4
11	010.23.1100.08947	C6
13	010.23.1108.40077	M1
15	010.23.1108.49310	M3
17	010.23.1107.56837	SP1
19	010.23.1108.03233	SP3
21	010.23.1108.12707	SP5
23	010.23.1101.09230	V2
25	010.23.1101.14903	V4
27	010.23.1101.19083	V6
29	010.23.1101.24523	V8
31	010.23.1101.28190	V10
33	GABRST160118	
35	BRCLBSUB0119	
37	VALTN160118	

Item	Drawing Number	Truss
2	010.23.1100.31310	A2
4	010.23.1100.53683	B2
6	010.23.1120.18087	C1
8	010.23.1059.16080	C3
10	010.23.1059.45587	C5
12	010.23.1123.39350	C7
14	010.23.1108.45330	M2
16	010.23.1108.53377	H1
18	010.23.1107.59107	SP2
20	010.23.1108.08607	SP4
22	010.23.1101.06983	V1
24	010.23.1101.11310	V3
26	010.23.1101.16987	V5
28	010.23.1101.21847	V7
30	010.23.1101.26500	V9
32	A11515ENC160118	
34	GBLLETIN0118	
36	CNNAILSP1014	

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.

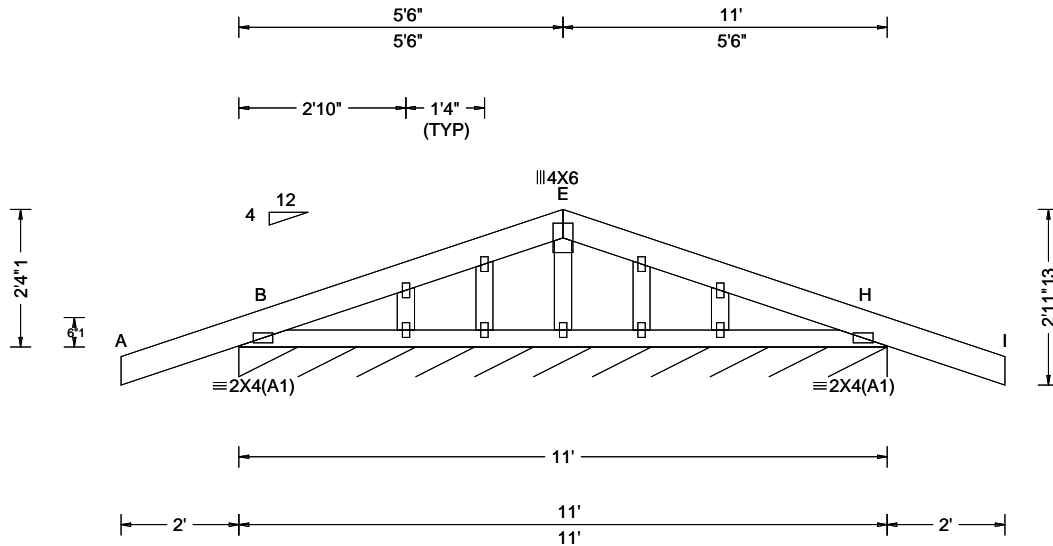
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

References:

1. AWC: American Wood Council; 222 Catocin 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.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

SEQN: 750628 FROM:	GABL Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: A1	Cust: R 880 JRef: 1XM7880003 T1 DrwNo: 010.23.1100.26260 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.001 B 999 240 VERT(CL): -0.001 H 999 240 HORZ(LL): -0.001 B - - HORZ(TL): 0.001 H - - Creep Factor: 2.0 Max TC CSI: 0.270 Max BC CSI: 0.032 Max Web CSI: 0.078 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL H* 214 /- /- /109 /57 /9 Wind reactions based on MWFRS H Brg Wid = 132 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#
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Lumber

Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

All plates are 1.5X3 except as noted.

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord may be notched 1.5" deep X 3.5" at 48" o/c along top edge. DO NOT OVERCUT. No knots or other lumber defects allowed within 12" of notches. Do not notch in overhang or heel panel, unless specified otherwise.

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 A11515ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.



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

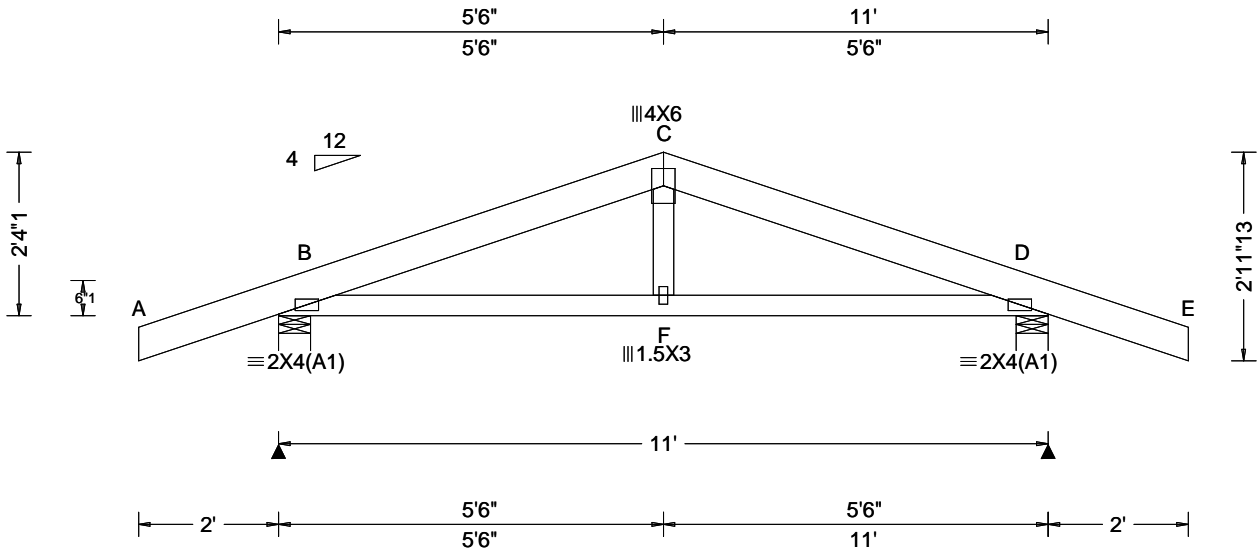
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.011 F 999 240 VERT(CL): 0.024 F 999 240 HORZ(LL): 0.004 D - - HORZ(TL): 0.009 D - - Creep Factor: 2.0 Max TC CSI: 0.134 Max BC CSI: 0.219 Max Web CSI: 0.083 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 656 /- /- /414 /18 /51 D 656 /- /- /414 /18 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B & D 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 307 -736 C - D 307 -736 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - F 646 -165 F - D 646 -165
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Lumber
Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

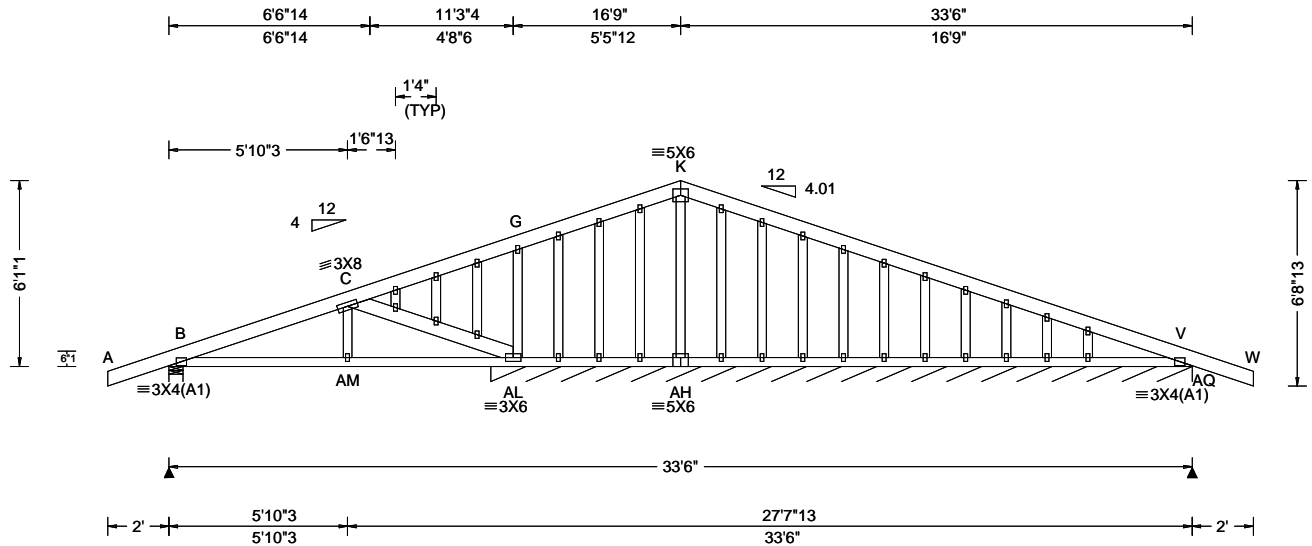
Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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.



SEQN: 750631 FROM:	GABL Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: B1	Cust: R 880 JRef: 1XM7880003 T3 DrwNo: 010.23.1100.48973 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.35 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.018 AN 999 240 VERT(CL): 0.039 AN 999 240 HORZ(LL): 0.007 AL - - HORZ(TL): 0.015 AL - - Creep Factor: 2.0 Max TC CSI: 0.298 Max BC CSI: 0.239 Max Web CSI: 0.218 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1131 /- /- /694 /107 /234 AQ*224 /- /- /115 /17 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) AQ Brg Wid = 275 Min Req = - Bearings B & AL 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 317 -1135 C - G 387 -110
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Lumber
Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Brace all exposed vertical surfaces for lateral wind forces. Anchor the perimeter of exposed vertical surfaces. All diaphragms, braces, and connections shall be designed by the engineer of record.

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
B -AM 964 -249 AM-AL 966 -246

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.
All plates are 1.5X3 except as noted.

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp.
C -AL 510 -1436

Loading
Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord may be notched 1.5" deep X 3.5" at 48" o/c along top edge. DO NOT OVERCUT. No knots or other lumber defects allowed within 12" of notches. Do not notch in overhang or heel panel, unless specified otherwise.
Bottom chord checked for 10.00 psf non-concurrent live load.

Maximum Gable Forces Per Ply (lbs)
Gables Tens.Comp. Gables Tens. Comp.
AL- G 138 -429 K -AH 0 -395

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

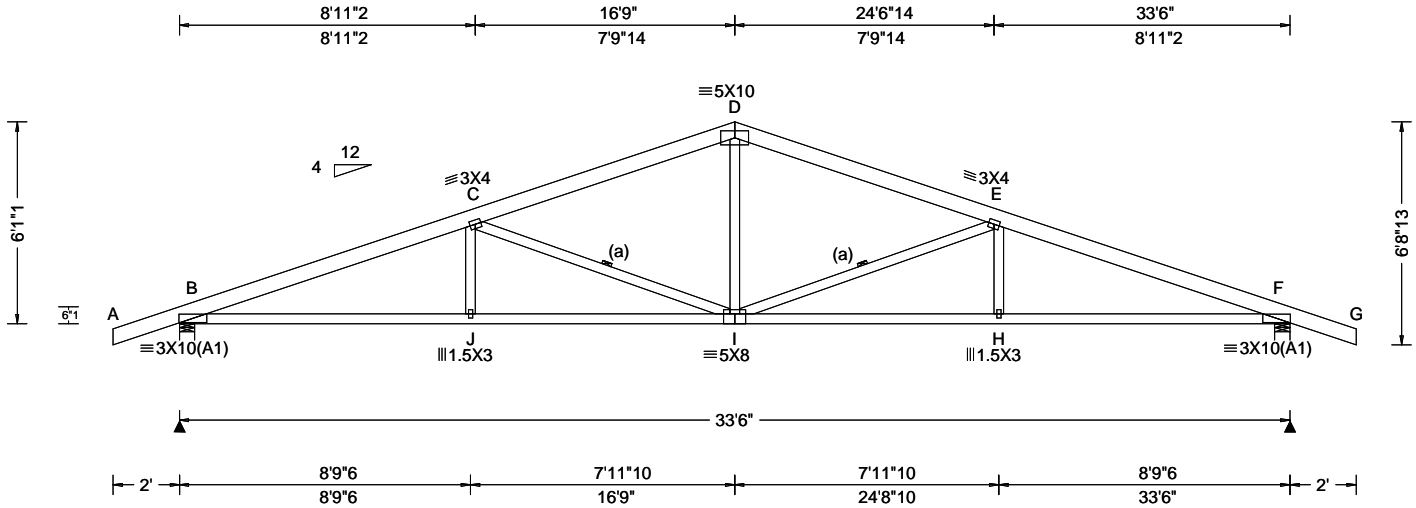
Additional Notes
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.35 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.163 I 999 240 VERT(CL): 0.366 I 999 240 HORZ(LL): 0.067 F - - HORZ(TL): 0.150 F - - Creep Factor: 2.0 Max TC CSI: 0.330 Max BC CSI: 0.758 Max Web CSI: 0.373 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1686 /- /- /1041 /26 /117 F 1686 /- /- /1041 /26 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.8 (Truss) F Brg Wid = 5.5 Min Req = 1.8 (Truss) 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 315 -3506 D - E 284 -2481 C - D 284 -2481 E - F 314 -3506 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - J 3235 -204 I - H 3232 -215 J - I 3232 -206 H - F 3235 -213 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. C - I 134 -1084 I - E 133 -1084 D - I 917 0
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Lumber

Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Loading

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

Wind

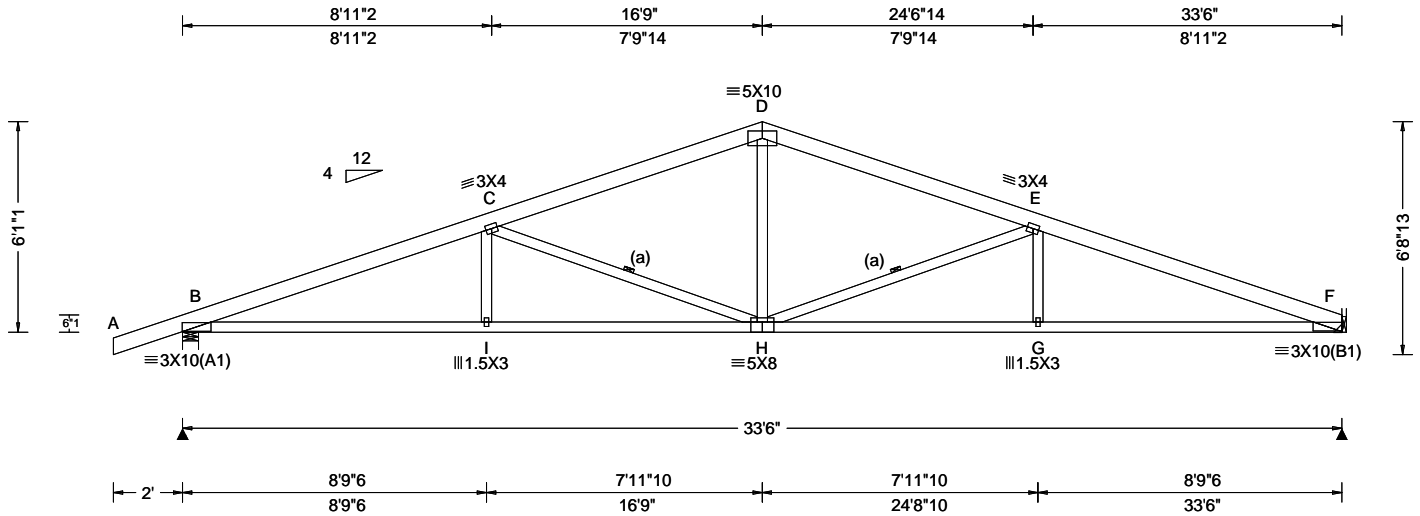
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.



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American Truss Company, Inc.
4550 Spring Hill Road
PETALUMA CA 94952
(707)763-8713

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.35 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.162 H 999 240 VERT(CL): 0.367 H 999 240 HORZ(LL): 0.067 F - - HORZ(TL): 0.151 F - - Creep Factor: 2.0 Max TC CSI: 0.440 Max BC CSI: 0.762 Max Web CSI: 0.384 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 1693 /- /- /1043 /- /108 F 1528 /- /- /929 /- /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.8 (Truss) F Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 324 -3525 D - E 294 -2500 C - D 288 -2498 E - F 335 -3569

Lumber
Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

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

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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

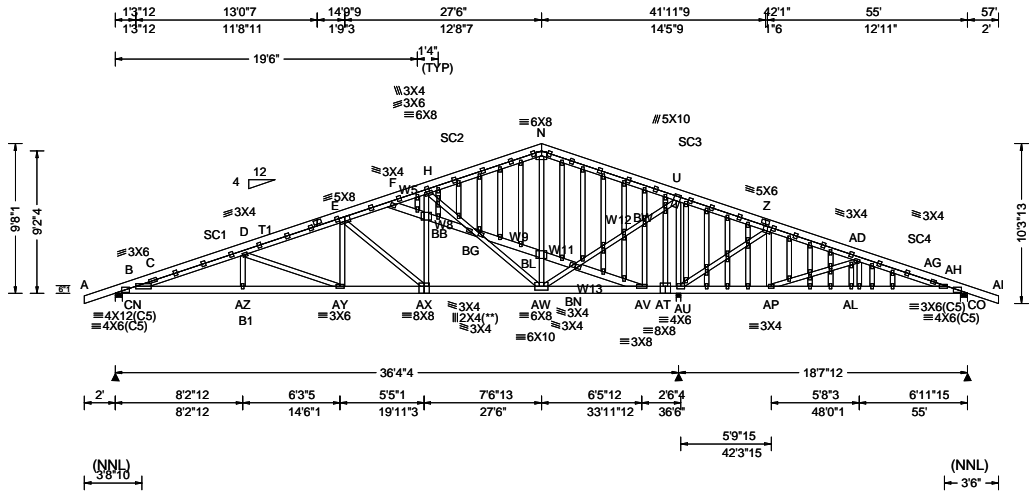
Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

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2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria

Wind Std: ASCE 7-16
 Speed: 110 mph
 Enclosure: Closed
 Risk Category: II
 EXP: C Kzt: NA
 Mean Height: 15.00 ft
 TCCL: 6.0 psf
 BCCL: 6.0 psf
 MWFRS Parallel Dist: 0 to h/2
 C&C Dist a: 5.50 ft
 Loc. from endwall: not in 8.50 ft
 GCp: 0.18
 Wind Duration: 1.25

Snow Criteria (Pg,Pf in PSF)

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

Building Code:
 CBC 2019 Res
 TPI Std: 2014
 Rep Fac: Varies by Ld Case
 FT/RT:20(0)/10(0)
 Plate Type(s):
 WAVE

Defl/CSI Criteria

PP Deflection in loc L/def L/#
 VERT(LL): 0.108 AY 999 240
 VERT(CL): 0.232 AY 999 240
 HORZ(LL): -0.022 R - -
 HORZ(TL): 0.048 R - -
 Creep Factor: 2.0
 Max TC CSI: 0.554
 Max BC CSI: 0.566
 Max Web CSI: 0.948
 VIEW Ver: 21.02.01.1216.15

Maximum Reactions (lbs)

Loc	Gravity			Non-Gravity		
	R+	/R-	/Rh	/Rw	/U	/RL
CN 1676	-	-	-	-	/29	-
AT 7109	-	-	-	-	/162	-
CO 941	-/136	-	-	-	/106	-

Wind reactions based on MWFRS
 CN Brg Wid = 5.5 Min Req = 1.5 (Truss)
 AT Brg Wid = 3.5 Min Req = 3.4 (Truss)
 CO Brg Wid = 5.5 Min Req = 1.5 (Truss)
 Bearings CN, AT, & CO 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	59 -2172	N - U	0 -571
C - D	0 -2143	U - Z	1662 -64
D - E	0 -1567	Z -AD	919 0
E - F	0 -1181	AD-AG	597 -97
F - H	0 -966	AG-AH	595 -116
H - N	0 -531		

Lumber

Top chord 2x4 DF-L #2(g)
 T1 2x4 DF-L #1&Bet.(g);
 Bot chord 2x6 DF-L #2(g) B1 2x6 DF-L SS(g);
 Webs 2x4 DF-L Standard(g) W5,W8,W9,W11,
 W13 2x6 DF-L #2(g); W12 2x4 DF-L #2(g);
 Stack Chord: SC1 2x6 DF-L #2(g);
 Stack Chord: SC2 2x6 DF-L #2(g);
 Stack Chord: SC3 2x6 DF-L #2(g);
 Stack Chord: SC4 2x6 DF-L #2(g);

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Special Loads

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

TC: From	72 plf at	-2.00 to	72 plf at	17.57
TC: From	150 plf at	17.57 to	180 plf at	27.50
TC: From	192 plf at	27.50 to	167 plf at	41.97
TC: From	167 plf at	41.97 to	167 plf at	42.08
TC: From	167 plf at	42.08 to	146 plf at	55.00
TC: From	143 plf at	55.00 to	143 plf at	57.00
BC: From	4 plf at	-2.00 to	4 plf at	0.00
BC: From	10 plf at	0.00 to	10 plf at	55.00
BC: From	4 plf at	55.00 to	4 plf at	57.00

TC: 8 lb Conc. Load at 53.00
 BC: 921 lb Conc. Load at 33.56
 BC: 24 lb Conc. Load at 34.94,36.94,38.94,40.94
 42.94,44.94,46.94,48.94,50.94
 BC: 52 lb Conc. Load at 52.97

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B-AZ	2013 0	AV-AU	59 -1452
AZ-AY	2009 0	AU-AT	59 -1452
AY-AX	1434 0	AT-AP	0 -865
AX-AW	1089 0	AP-AL	43 -565
AW-AV	51 -1391	AL-AH	67 -563

Nailnote

Nail Schedule: 0.128"x3", min. nails
 Top Chord: 1 Row @10.25" 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.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.
 All plates are 2X4 except as noted.

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

Wind

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



Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D -AY	6 -664	BL-BN	425 -15
E -AX	2 -495	BN - U	2412 -42
AX-BB	409 0	U -AT	17 -2067
BB - H	442 0	AT - Z	79 -865
H -BG	0 -567	Z -AP	491 -46
BG-AW	31 -1321	AP-AD	65 -941
BG-BL	483 -16	AD-AL	389 -30
AW-BN	1807 -18		

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.Comp.
AV-BW	391 0

SEQN: 750703 FROM: Page 2 of 2	GABL Ply: 2 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: C1	Cust: R 880 JRef: 1XM7880003 T4 DrwNo: 010.23.1120.18087 / JAK 01/10/2023
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Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

Additional Notes

See DWGS A11515ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

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

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

Brace all exposed vertical surfaces for lateral wind forces. Anchor the perimeter of exposed vertical surfaces. All diaphragms, braces, and connections shall be designed by the engineer of record.



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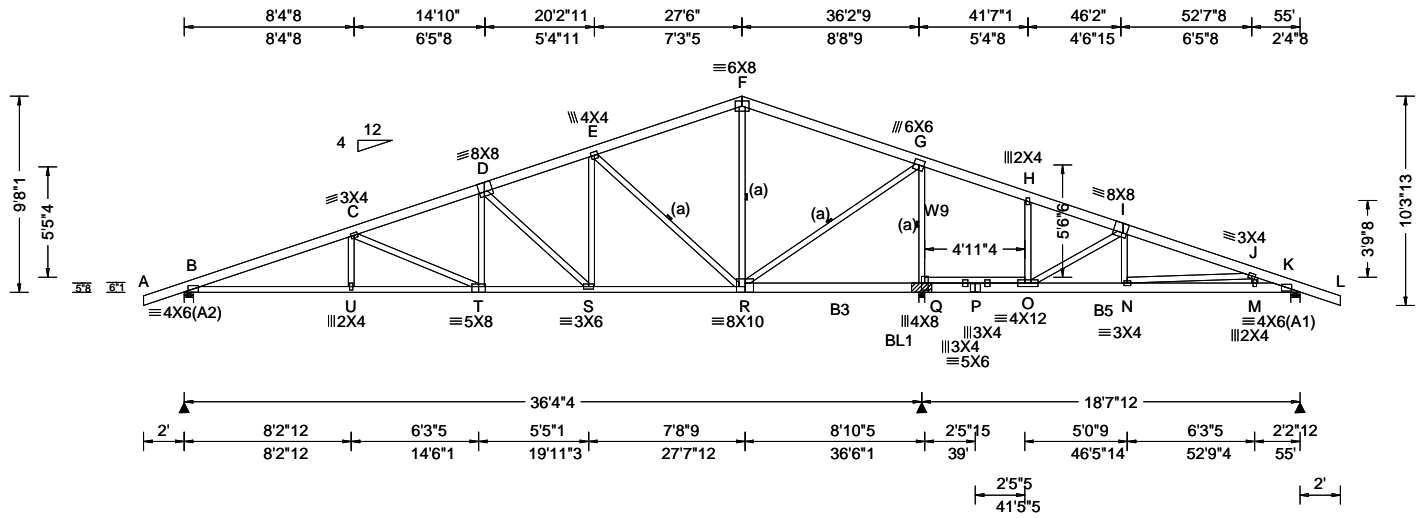
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Loading Criteria (psf) TCCL: 20.00 TCCL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 5.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.299 O 743 240 VERT(CL): 0.639 O 347 240 HORZ(LL): -0.063 H - - HORZ(TL): 0.164 H - - Creep Factor: 2.0 Max TC CSI: 0.975 Max BC CSI: 0.667 Max Web CSI: 0.895 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1620 /- /- /1055 /29 /210 Q 3731 /- /1 /1946 /13 /1 K 651 /- /- /430 /68 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.7 (Truss) Q Brg Wid = 3.5 Min Req = - K Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B, Q, & 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 297 -3338 G - H 1666 -32 C - D 278 -2505 H - I 1460 -58 D - E 257 -1779 I - J 607 -557 E - F 203 -638 J - K 293 -757 F - G 208 -669 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - U 3079 -194 Q - P 207 -1430 U - T 3075 -197 P - O 729 -1866 T - S 2287 -103 O - N 432 -567 S - R 1606 -27 N - M 727 -274 R - Q 389 -2628 M - K 715 -274 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. C - T 104 -857 R - G 2203 -110 T - D 494 0 G - Q 321 -2854 D - S 112 -909 O - I 169 -1584 S - E 882 0 I - N 585 0 E - R 178 -1486					

Lumber
 Top chord 2x6 DF-L #2(g)
 Bot chord 2x4 DF-L #2(g) B3,B5 2x6 DF-L SS(g);
 Webs 2x4 DF-L Standard(g) W9 2x4 DF-L #2(g);
 Lumber shall be dried to a maximum moisture content of 19% prior to installation.

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

Plating Notes
 Connectors in green lumber (g) designed using NDS/TPI reduction factors.

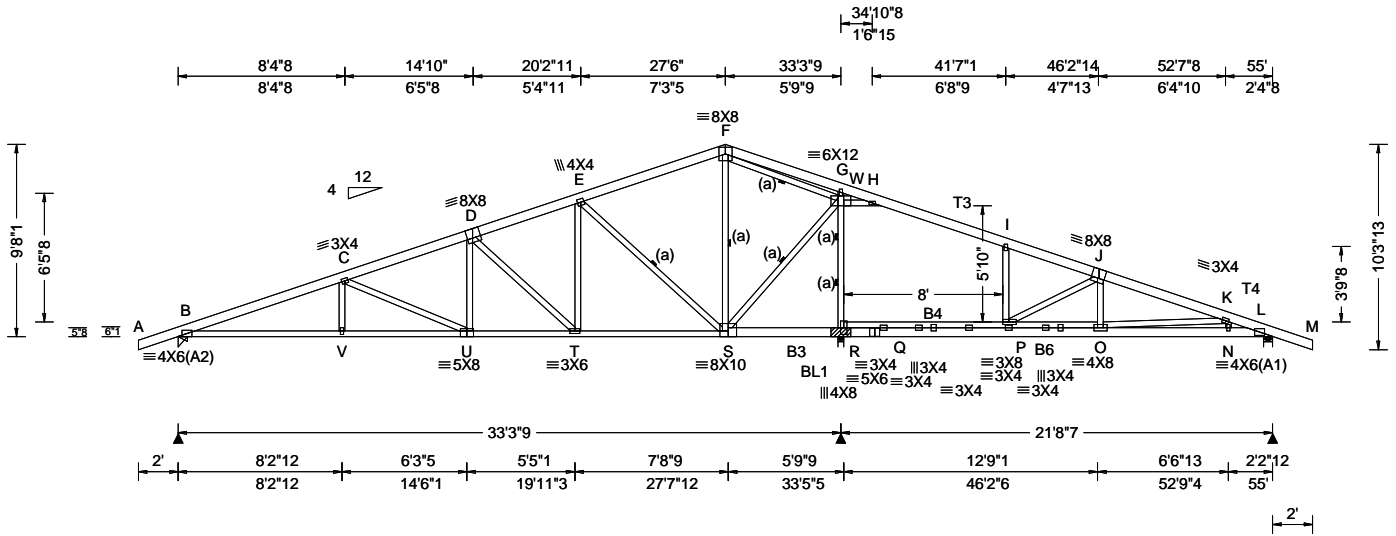
Loading
 Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
 Bottom chord checked for 10.00 psf non-concurrent live load.

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

Bearing Block(s)
 Brg loc:0.128"x3", min. nails
 brg x-loc #blocks length/blk #nails/blk wall plate
 2 36.208' 1 12" 4 Rigid Surface
 Brg block to be same size and species as chord.
 Refer to drawing CNNALSP1014 for more information.

Additional Notes
 Minimum Required bearing length for support points with bearing plates (BP) and/or bearing blocks (BLn) is equal to the nominal Brg Width shown.
 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.





Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.374 687 240 VERT(CL): 0.777 330 240 HORZ(LL): -0.089 - - HORZ(TL): 0.206 - - Creep Factor: 2.0 Max TC CSI: 0.617 Max BC CSI: 0.949 Max Web CSI: 0.962 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL B 1386 /- /- /912 /- /210 R 3965 /- /- /2046 /- /- L 750 /- /- /489 /61 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) R Brg Wid = 3.5 Min Req = - L Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B, R, & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
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Lumber
Top chord 2x6 DF-L #2(g) T3,T4 2x6 DF-L SS(g);
Bot chord 2x4 DF-L #2(g) B3,B6 2x6 DF-L SS(g);
B4 2x4 DF-L #1&Bet.(g);
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

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

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.
All plates are 2X4 except as noted.

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

Purlins
Lateral brace bottom chord above filler with purlins at 24" OC.

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

Bearing Block(s)
Brg blocks:0.128"x3", min. nails
brg x-loc #blocks length/blk #nails/blk wall plate
2 33.151' 1 12" 5 Rigid Surface
Brg block to be same size and species as chord.
Refer to drawing CNNAILSP1014 for more information.

Additional Notes
Minimum Required bearing length for support points with bearing plates (BP) and/or bearing blocks (BLn) is equal to the nominal Brg Width shown.
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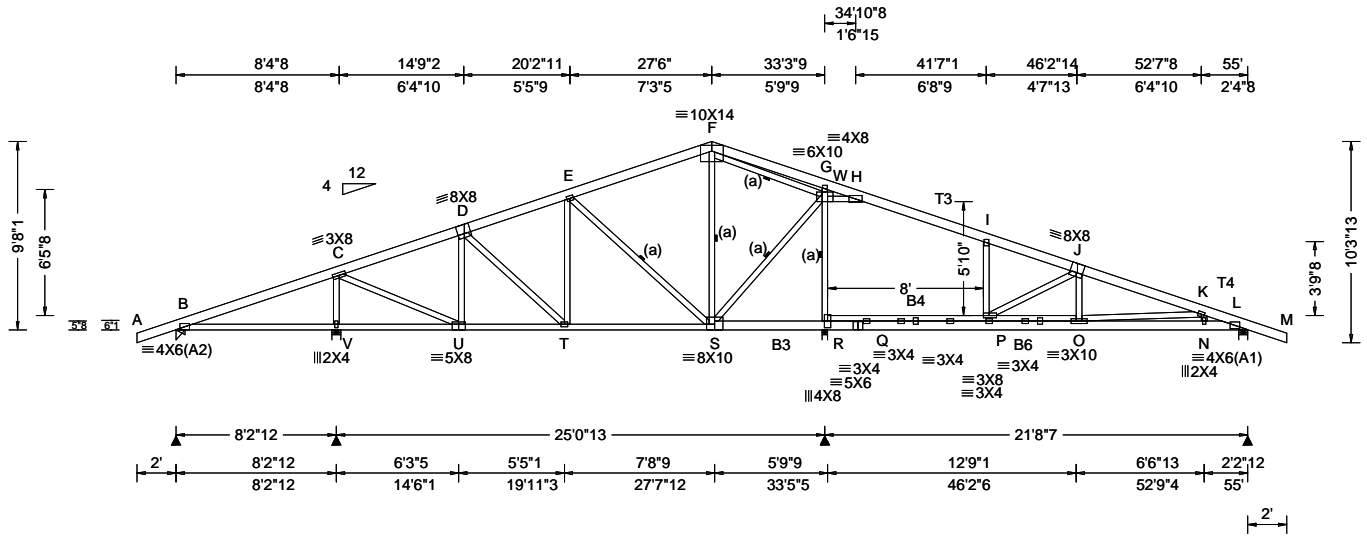
Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - V	2438 -146	R - Q	0 -441
V - U	2435 -148	R - Q	223 -1124
U - T	1605 -52	P - O	2111 -1537
T - S	927 -62	O - N	975 -153
S - R	209 -1506	N - L	967 -146

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - U	107 -904	S - W	1897 -76
U - D	506 0	W - G	158 -622
D - T	109 -903	W - R	299 -2851
T - E	885 0	W - H	255 -1494
E - S	183 -1511	P - J	195 -1972
F - S	36 -380	J - O	855 -8
F - W	301 -2271		





Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.389 660 240 VERT(CL): 0.793 323 240 HORZ(LL): -0.107 - - HORZ(TL): 0.225 - - Creep Factor: 2.0 Max TC CSI: 0.541 Max BC CSI: 0.894 Max Web CSI: 0.949 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 514 /- /- /304 /2 /210 V 1482 /- /- /993 /- /- R 3098 /- /- /1637 /- /- L 921 /- /- /626 /- /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) V Brg Wid = 5.5 Min Req = 1.5 (Truss) R Brg Wid = 3.5 Min Req = 2.9 (Truss) L Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B, V, R, & L are a rigid surface. Members not listed have forces less than 375#
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Lumber
Top chord 2x6 DF-L #2(g) T3,T4 2x6 DF-L SS(g);
Bot chord 2x4 DF-L #2(g) B3,B6 2x6 DF-L SS(g);
B4 2x4 DF-L #1&Bet.(g);
Webs 2x4 DF-L Standard(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

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

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.
All plates are 3X4 except as noted.

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

Purlins
Laterally brace bottom chord above filler with purlins at 24" OC.

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

Additional Notes
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Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
C - D	164 -998	H - I	742 0
D - E	195 -963	I - J	563 0
F - G	2089 -110	J - K	141 -1335
G - H	2336 -176	K - L	95 -1457

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
U - T	876 -56	P - O	2453 -1337
T - S	857 -65	O - N	1376 -66
S - R	134 -558	N - L	1365 -57

Maximum Web Forces Per Ply (lbs)

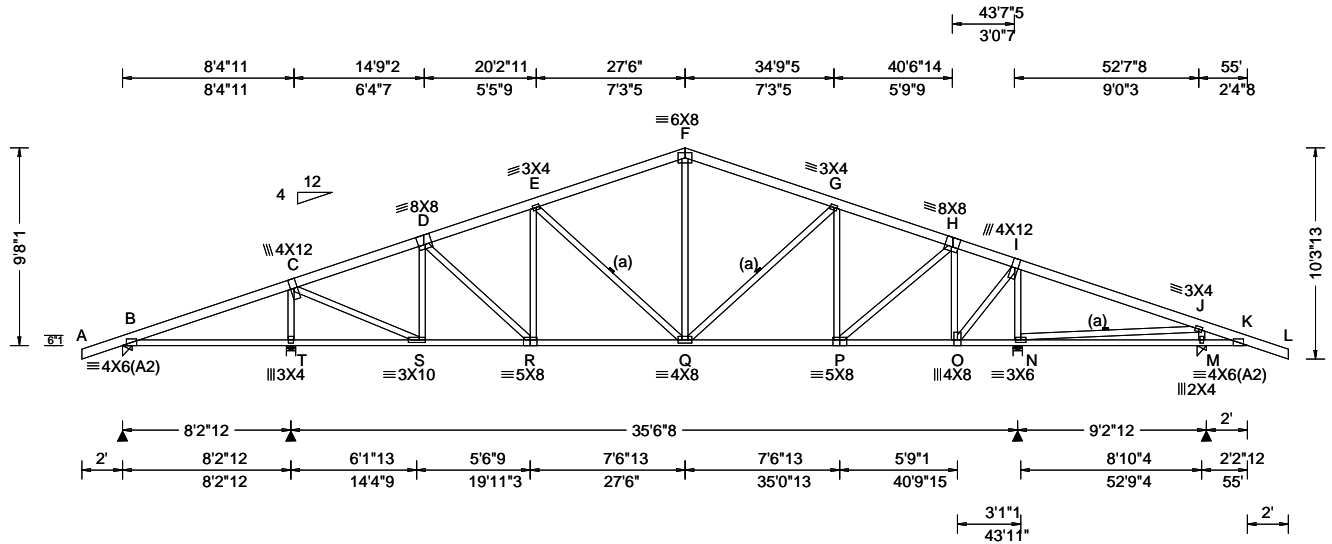
Webs	Tens.Comp.	Webs	Tens. Comp.
V - C	198 -1306	W - G	149 -498
C - U	942 -33	W - R	237 -1998
E - S	134 -887	W - H	285 -1693
F - W	288 -2098	P - J	193 -1945
S - W	1001 -8	J - O	814 -5



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4550 Spring Hill Road
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(707)763-8713

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.065 E 999 240 VERT(CL): 0.140 E 999 240 HORZ(LL): 0.022 O - - HORZ(TL): 0.049 O - - Creep Factor: 2.0 Max TC CSI: 0.483 Max BC CSI: 0.607 Max Web CSI: 0.816 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 471 - / - / - / 264 / 9 / 210 T 2225 - / - / - / 1401 - / - N 2442 - / - / - / 1438 - / - M 630 - / - / - / 451 / 8 / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) T Brg Wid = 5.5 Min Req = 2.0 (Truss) N Brg Wid = 5.5 Min Req = 2.2 (Truss) M Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B, T, N, & M 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 396 -88 G - H 238 -1655 C - D 218 -1741 H - I 143 -682 D - E 275 -2055 I - J 723 -89 E - F 291 -1734 J - K 513 -353 F - G 283 -1735
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Lumber
Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

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

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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.

Wind
Wind loads based on MWFRS with additional C&C member design.
Right cantilever is exposed to wind
Wind loading based on both gable and hip roof types.

Additional Notes
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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	1597 -45	O - N	165 -461
R - Q	1901 -41	N - M	351 -428
Q - P	1537 -22	M - K	369 -451
P - O	628 0		

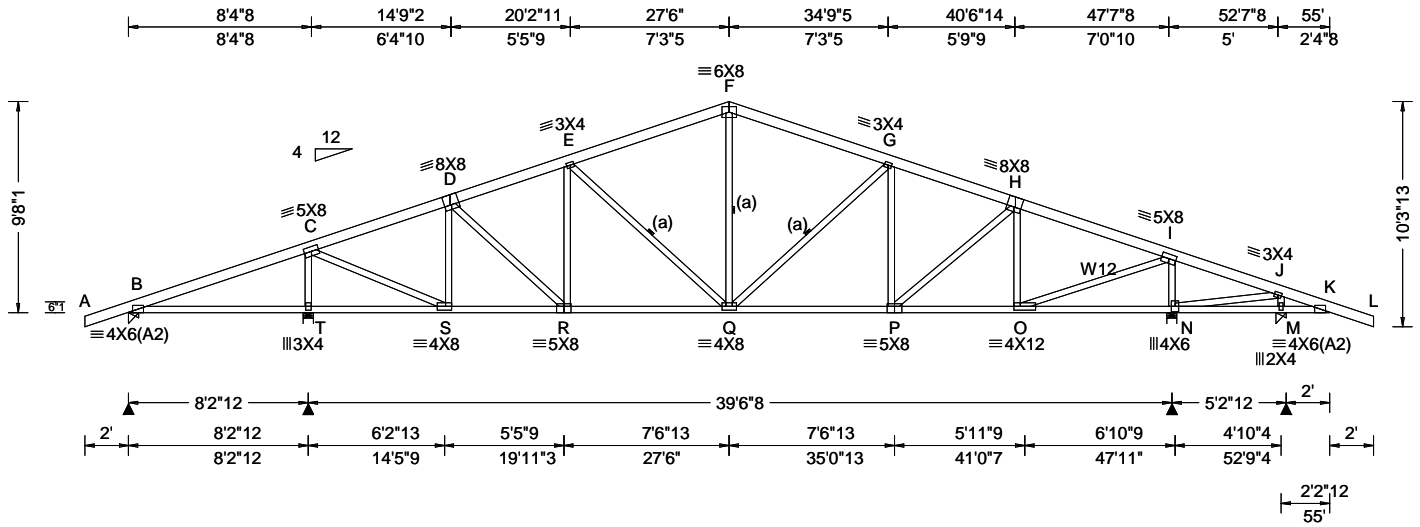
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
T - C	251 -2045	P - H	1225 -76
C - S	2008 -114	H - O	133 -1341
S - D	112 -769	O - I	1691 -129
D - R	420 0	I - N	293 -2245
E - Q	108 -549	N - J	58 -569
F - Q	502 0	J - M	251 -468
G - P	135 -569		



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Loading Criteria (psf) TCCL: 20.00 TCCL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 5.50 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.094 Q 999 240 VERT(CL): 0.201 Q 999 240 HORZ(LL): 0.031 O - - HORZ(TL): 0.067 O - - Creep Factor: 2.0 Max TC CSI: 0.528 Max BC CSI: 0.673 Max Web CSI: 0.972 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>425</td> <td>-</td> <td>-</td> <td>/225</td> <td>/25</td> <td>/210</td> </tr> <tr> <td>T</td> <td>2514</td> <td>-</td> <td>-</td> <td>/1551</td> <td>/7</td> <td>-</td> </tr> <tr> <td>N</td> <td>2608</td> <td>-</td> <td>-</td> <td>/1534</td> <td>/7</td> <td>-</td> </tr> <tr> <td>M</td> <td>367</td> <td>-/125</td> <td>-</td> <td>/248</td> <td>/84</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) T Brg Wid = 5.5 Min Req = 2.3 (Truss) N Brg Wid = 5.5 Min Req = 2.4 (Truss) M Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B, T, N, & M are a rigid surface. Members not listed have forces less than 375#</p>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	425	-	-	/225	/25	/210	T	2514	-	-	/1551	/7	-	N	2608	-	-	/1534	/7	-	M	367	-/125	-	/248	/84	-
Loc	Gravity			Non-Gravity																																									
	R+	/R-	/Rh	/Rw	/U	/RL																																							
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N	2608	-	-	/1534	/7	-																																							
M	367	-/125	-	/248	/84	-																																							

Lumber
 Top chord 2x6 DF-L #2(g)
 Bot chord 2x4 DF-L #2(g)
 Webs 2x4 DF-L Standard(g) W12 2x4 DF-L #2(g);
 Lumber shall be dried to a maximum moisture content of 19% prior to installation.

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

Plating Notes
 Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Right cantilever is exposed to wind
 Wind loading based on both gable and hip roof types.

Additional Notes
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Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	612 -57	G - H	374 -2455
C - D	284 -1896	H - I	276 -2098
D - E	367 -2348	I - J	1028 -106
E - F	406 -2132	J - K	751 -255
F - G	396 -2131		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - T	102 -527	P - O	1944 -119
T - S	94 -471	O - N	140 -702
S - R	1750 -125	N - M	265 -678
R - Q	2182 -165	M - K	277 -689
Q - P	2271 -149		

Maximum Web Forces Per Ply (lbs)

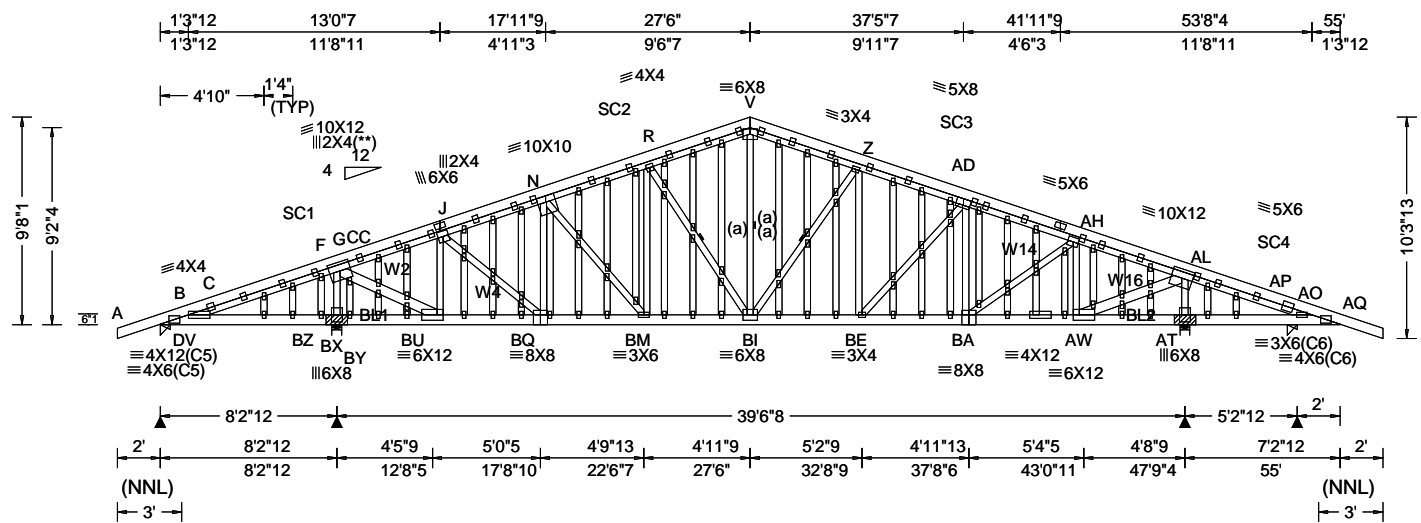
Webs	Tens.Comp.	Webs	Tens. Comp.
T - C	327 -2331	Q - G	116 -539
C - S	2391 -201	P - H	450 -36
S - D	150 -932	H - O	165 -853
D - R	594 -51	O - I	2749 -253
E - Q	106 -452	I - N	327 -2398
F - Q	745 -40	N - J	118 -482



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Loading Criteria (psf)

TCLL: 20.00
 TCDL: 15.00
 BCLL: 0.00
 BCDL: 10.00
 Des Ld: 45.00
 NCBCLL: 10.00
 Soffit: 2.00
 Load Duration: 1.25
 Spacing: 24.0 "

Wind Criteria

Wind Std: ASCE 7-16
 Speed: 110 mph
 Enclosure: Closed
 Risk Category: II
 EXP: C Kzt: NA
 Mean Height: 15.00 ft
 TCDL: 6.0 psf
 BCDL: 6.0 psf
 MWFRS Parallel Dist: 0 to h/2
 C&C Dist a: 5.50 ft
 Loc. from endwall: Any
 GCp: 0.18
 Wind Duration: 1.25

Snow Criteria (Pg,Pf in PSF)

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

Building Code:
 CBC 2019 Res
 TPI Std: 2014
 Rep Fac: Varies by Ld Case
 FT/RT:20(0)/10(0)
 Plate Type(s):
 WAVE

Defl/CSI Criteria

PP Deflection in loc L/def L/#
 VERT(LL): 0.234 X 999 240
 VERT(CL): 0.519 X 914 240
 HORZ(LL): 0.047 L - -
 HORZ(TL): 0.104 L - -
 Creep Factor: 2.0
 Max TC CSI: 0.977
 Max BC CSI: 0.939
 Max Web CSI: 0.962
 VIEW Ver: 21.02.01.1216.15

Maximum Reactions (lbs)

Loc	Gravity			Non-Gravity		
	R+	/R-	/Rh	/Rw	/U	/RL
DV 285	-	-	-	-	/48	-
BY 6435	-	-	-	-	/155	-
AT 5772	-	-	-	-	/265	-
AP 258	-	-	-	/6	/12	-

Wind reactions based on MWFRS
 DV Brg Wid = 5.5 Min Req = 1.5 (Truss)
 BY Brg Wid = 5.5 Min Req = -
 AT Brg Wid = 5.5 Min Req = -
 AP Brg Wid = 5.5 Min Req = 1.5 (Truss)
 Bearings DV, BY, AT, & AP are a rigid surface.

Lumber

Top chord 2x4 DF-L #2(g)
 Bot chord 2x6 DF-L #2(g)
 Webs 2x4 DF-L Standard(g) W2 2x6 DF-L SS(g);
 W4,W14 2x4 DF-L #2(g); W16 2x6 DF-L #2(g);
 Stack Chord: SC1 2x6 DF-L #2(g);
 Stack Chord: SC2 2x6 DF-L #2(g);
 Stack Chord: SC3 2x6 DF-L #2(g);
 Stack Chord: SC4 2x6 DF-L #2(g);

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.
 All plates are 2X4 except as noted.
 (**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Wind

Wind loads and reactions based on MWFRS.
 Right cantilever is exposed to wind
 Wind loading based on both gable and hip roof types.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	3068 -83	V - Z	109 -4994
C - F	3191 -86	Z -AD	167 -5510
F - G	3112 -83	AD-AH	189 -5364
G - J	28 -3428	AH-AL	146 -3569
J - N	58 -5491	AL-AO	3092 -150
N - R	82 -5679	AO-AQ	2951 -161
R - V	105 -5018		

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

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

TC: From 72 plf at -2.00 to 72 plf at 1.31
 TC: From 36 plf at 1.31 to 36 plf at 53.69
 TC: From 72 plf at 53.69 to 72 plf at 57.00
 BC: From 4 plf at -2.00 to 4 plf at 0.00
 BC: From 10 plf at 0.00 to 10 plf at 53.00
 BC: From 20 plf at 53.00 to 20 plf at 55.00
 BC: From 4 plf at 55.00 to 4 plf at 57.00

TC: 8 lb Conc. Load at 2.00,53.00
 BC: 52 lb Conc. Load at 2.03
 BC: 24 lb Conc. Load at 4.06, 6.06,10.06,12.06
 29.46,30.94,32.94,34.94,36.94,38.94,40.94,42.94
 44.94,46.94,48.94,50.94
 BC: 181 lb Conc. Load at 14.06,16.06,18.06,20.06
 22.06,24.06,26.06,28.06
 BC: 29 lb Conc. Load at 53.00

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B -BZ	77 -2954	BM-BI	5296 -77
BZ-BY	77 -2963	BI-BE	5155 -152
BY-BX	74 -2768	BE-BA	5054 -176
BX-BU	72 -2719	BA-AW	3467 -140
BU-BQ	3350 -25	AW-AT	130 -2656
BQ-BM	5187 -55	AT-AP	140 -2888

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
BY - G	81 -4729	V -BI	2350 -46
G -BU	6816 -113	BI - Z	98 -899
BU - J	40 -2565	AD-BA	0 -548
J -BQ	2441 -38	BA-AH	2039 -57
BQ - N	29 -679	AH-AW	63 -1954
BM - R	487 0	AW-AL	6559 -284
R -BI	0 -1196	AL-AT	216 -4854



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SEQN: 750705	GABL	Ply: 1	Job Number: 20052	Cust: R 880	JRef: 1XM78800003	T19
FROM:		Qty: 1	SYMONS RESIDENCE	DrwNo: 010.23.1123.39350		
Page 2 of 2			Truss Label: C7	/ JAK	01/10/2023	

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

Gables	Tens.Comp.	Gables	Tens. Comp.
F -BZ	14 -415	BX-CC	30 -832

Bearing Block(s)

Brg blocks: 0.128"x3", min. nails

brg	x-loc	#blocks	length/blk	#nails/blk	wall plate
2	8.000'	1	12"	12	Rigid Surface
3	47.542'	1	12"	4	Rigid Surface

Brg block to be same size and species as chord.

Refer to drawing CNNAILSP1014 for more information.

Additional Notes

Minimum Required bearing length for support points with bearing plates (BP) and/or bearing blocks (BLn) is equal to the nominal Brg Width shown.

See DWGS A11515ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

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

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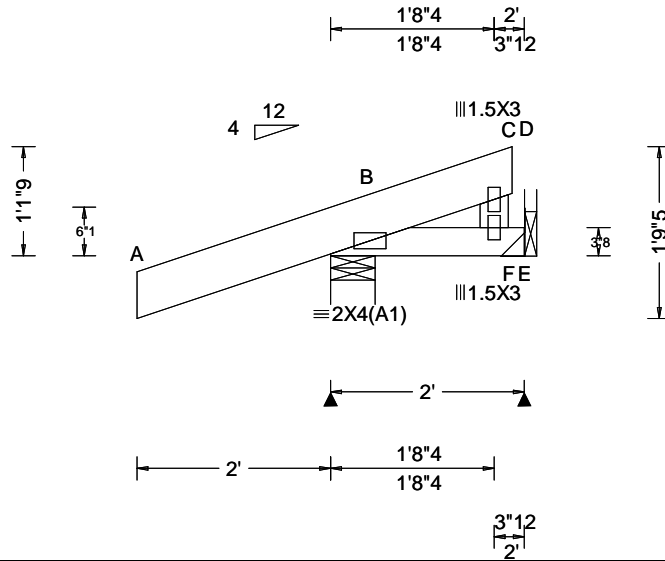
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.156 Max BC CSI: 0.023 Max Web CSI: 0.012 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 345 /- /- /234 /45 /29 E 24 /-10 /- /40 /25 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber
Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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.

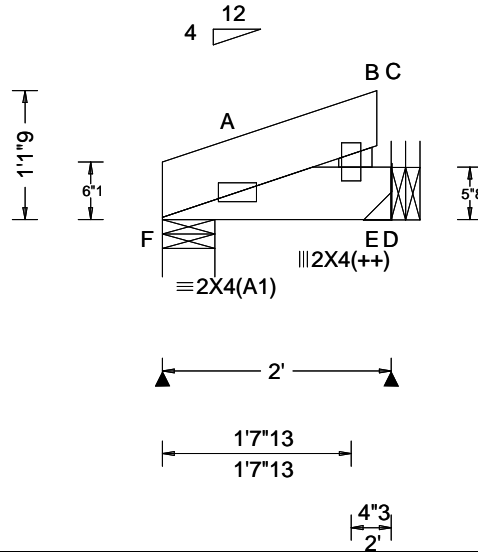


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ALPINE
AN ITW COMPANY

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Loading Criteria (psf) TCCL: 20.00 TCCL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 E - - HORZ(TL): 0.002 E - - Creep Factor: 2.0 Max TC CSI: 0.172 Max BC CSI: 0.436 Max Web CSI: 0.026 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>789</td> <td>-</td> <td>-</td> <td>/58</td> <td>-</td> <td>-</td> </tr> <tr> <td>D</td> <td>921</td> <td>-</td> <td>-</td> <td>/68</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	F	789	-	-	/58	-	-	D	921	-	-	/68	-	-
				Loc		Gravity			Non-Gravity																						
R+	/R-	/Rh	/Rw		/U	/RL																									
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D	921	-	-	/68	-	-																									
Wind reactions based on MWFRS F Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = - Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375#																															

Lumber

Top chord 2x6 DF-L #2(g)
 Bot chord 2x6 DF-L #2(g)
 Webs 2x4 DF-L Standard(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Special Loads

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 72 plf at 0.00 to 72 plf at 1.88
 BC: From 20 plf at 0.00 to 20 plf at 1.88
 BC: From 74 plf at 1.88 to 74 plf at 2.00
 BC: 1528 lb Conc. Load at 1.06

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

(++) - This plate works for both joints covered.

Loading

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

Wind

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

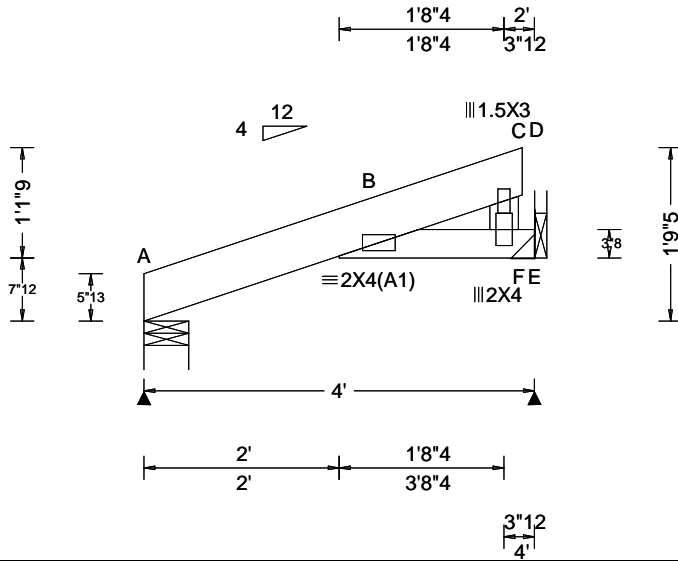


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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 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: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 B 999 240 VERT(CL): 0.014 B 999 240 HORZ(LL): 0.003 F - - HORZ(TL): 0.007 F - - Creep Factor: 2.0 Max TC CSI: 0.111 Max BC CSI: 0.017 Max Web CSI: 0.040 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 146 /- /- /82 /- /23 E 181 /- /- /110 /- /- Wind reactions based on MWFRS A Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = - Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber
Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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.



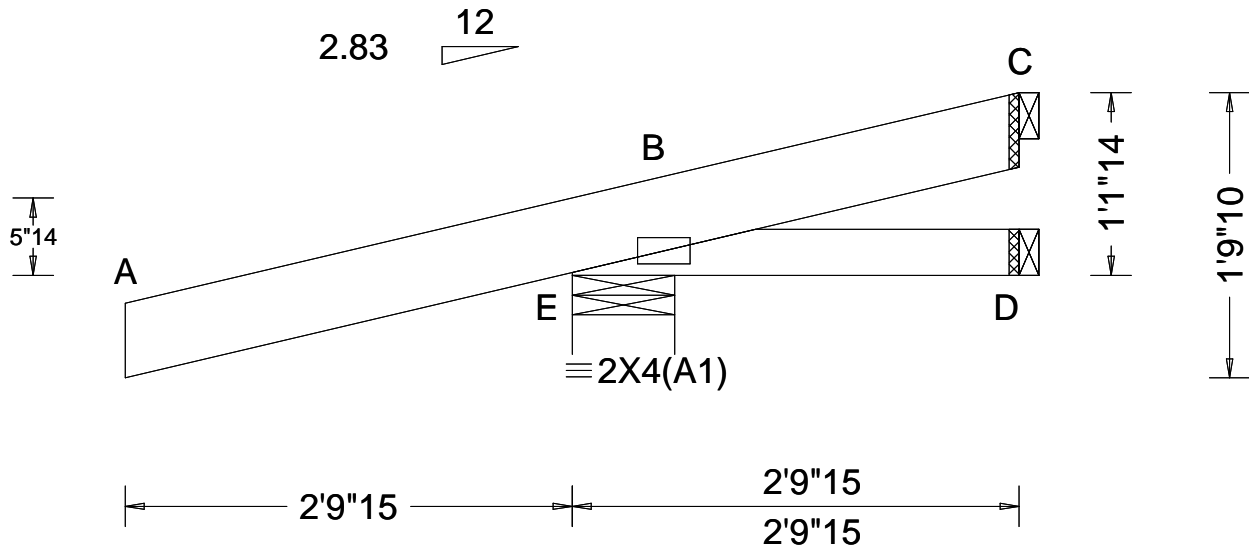
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Loc	R+	/R-	/Rh	/Rw	/U	/RL
TCDL: 15.00	Speed: 110 mph	Pf: NA Ce: NA	VERT(LL): NA	E	262	/-	/-	/-	/18	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	D	29	/-7	/-	/2	/-	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 B - -	C	8	/-31	/-	/6	/-	/-
Des Ld: 45.00	EXP: C Kzt: NA	Building Code:	HORZ(TL): 0.001 B - -	Wind reactions based on MWFRS						
NCBCLL: 10.00	Mean Height: 15.00 ft	CBC 2019 Res	Creep Factor: 2.0	E Brg Wid = 7.8 Min Req = 1.5 (Truss)						
Soffit: 2.00	TCDL: 6.0 psf	TPI Std: 2014	Max TC CSI: 0.110	D Brg Wid = 1.5 Min Req = -						
Load Duration: 1.25	BCDL: 6.0 psf	Rep Fac: Yes	Max BC CSI: 0.021	C Brg Wid = 1.5 Min Req = -						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)	Max Web CSI: 0.000	Bearing E is a rigid surface.						
	C&C Dist a: 3.00 ft	Plate Type(s):	VIEW Ver: 21.02.01.1216.15	Members not listed have forces less than 375#						
	Loc. from endwall: Any	WAVE								
	GCp1: 0.18									
	Wind Duration: 1.25									

Lumber

Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Loading

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

Wind

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



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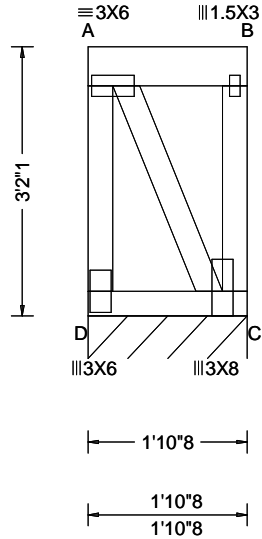
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 751244 FROM:	FLAT Ply: 1 Qty: 11	Job Number: 20052 SYMONS RESIDENCE Truss Label: SP1	Cust: R 880 JRef: 1XM7880003 T2 DrwNo: 010.23.1107.56837 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 0.00	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.003 A 999 240 VERT(CL): 0.003 A 999 240 HORZ(LL): -0.012 B - - HORZ(TL): 0.014 B - - Creep Factor: 2.0 Max TC CSI: 0.022 Max BC CSI: 0.014 Max Web CSI: 0.266 VIEW Ver: 22.02.01.1115.14	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 90 /- /- /50 /- /- D /-651 - - C /-651 - - Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - B 467 -468
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Lumber

Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Loading

Truss transfers a maximum horizontal load of 469 # (250.00 plf) along top chord, from either direction, to supports where indicated. Diaphragm and connections are to be designed by Engineer of Record.

Drag Loads: Force(#) (PLF) Mbr Start End

Case 1:	469	250.00	TC	0.00	1.88
	469	250.00	BC	0.00	1.88

Additional Notes

Blocking panels shall be attached to the shear wall and roof diaphragm for the drag load stated. Provide lateral restraint for end webs against buckling. The overturning force at each end must be transferred between successive panels. The vertical connection required at each end is equal to the drag load in PLF times the truss height in feet.

Truss must be installed as shown with top chord up.



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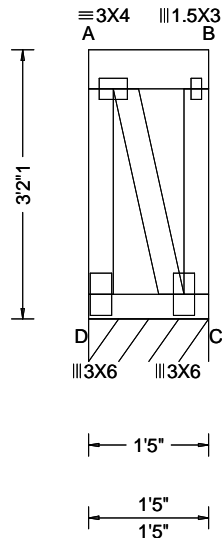
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 751246 FROM:	FLAT Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: SP2	Cust: R 880 JRef: 1XM7880003 T10 DrwNo: 010.23.1107.59107 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCCL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCp: 0.18 Wind Duration: 0.00	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.003 A 999 240 VERT(CL): 0.003 A 999 240 HORZ(LL): -0.014 B - - HORZ(TL): 0.016 B - - Creep Factor: 2.0 Max TC CSI: 0.013 Max BC CSI: 0.008 Max Web CSI: 0.247 VIEW Ver: 22.02.01.1115.14	▲ Maximum Reactions (lbs), or *=PLF <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>C* 90</td> <td>-</td> <td>-</td> <td>-</td> <td>/50</td> <td>-</td> <td>-</td> </tr> <tr> <td>D</td> <td></td> <td>/-662</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td></td> <td>/-662</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Wind reactions based on MWFRS C Brg Wid = 17.0 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Webs</th> <th>Tens.Comp.</th> <th>Webs</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>A - D</td> <td>674 -717</td> <td>A - C</td> <td>777 -777</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	C* 90	-	-	-	/50	-	-	D		/-662					C		/-662					Webs	Tens.Comp.	Webs	Tens. Comp.	A - D	674 -717	A - C	777 -777
Loc	Gravity			Non-Gravity																																										
	R+	/R-	/Rh	/Rw	/U	/RL																																								
C* 90	-	-	-	/50	-	-																																								
D		/-662																																												
C		/-662																																												
Webs	Tens.Comp.	Webs	Tens. Comp.																																											
A - D	674 -717	A - C	777 -777																																											

Lumber

Top chord 2x6 DF-L #2(g)
 Bot chord 2x4 DF-L #2(g)
 Webs 2x4 DF-L Standard(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Loading

Truss transfers a maximum horizontal load of 354 # (250.00 plf) along top chord, from either direction, to supports where indicated. Diaphragm and connections are to be designed by Engineer of Record.

Drag Loads: Force(#) (PLF) Mbr Start End

Case 1:	354	250.00	TC	0.00	1.42
	354	250.00	BC	0.00	1.42

Additional Notes

Blocking panels shall be attached to the shear wall and roof diaphragm for the drag load stated. Provide lateral restraint for end webs against buckling. The overturning force at each end must be transferred between successive panels. The vertical connection required at each end is equal to the drag load in PLF times the truss height in feet.

Truss must be installed as shown with top chord up.



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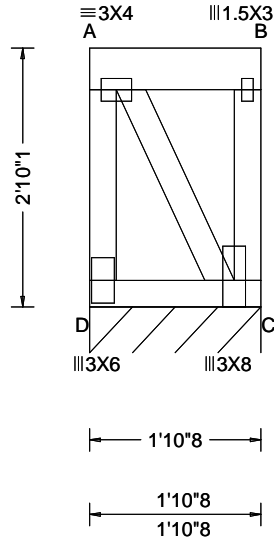
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SEQN: 751248 FROM:	FLAT Ply: 1 Qty: 6	Job Number: 20052 SYMONS RESIDENCE Truss Label: SP3	Cust: R 880 JRef: 1XM7880003 T22 DrwNo: 010.23.1108.03233 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 0.00	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.002 A 999 240 VERT(CL): 0.003 A 999 240 HORZ(LL): -0.009 B - - HORZ(TL): 0.010 B - - Creep Factor: 2.0 Max TC CSI: 0.022 Max BC CSI: 0.014 Max Web CSI: 0.244 VIEW Ver: 22.02.01.1115.14	▲ Maximum Reactions (lbs), or *PLF Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 90 /- /- /50 /- /- D /-568 C /-568 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - B 467 -468
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Lumber

Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Loading

Truss transfers a maximum horizontal load of 469 # (250.00 plf) along top chord, from either direction, to supports where indicated. Diaphragm and connections are to be designed by Engineer of Record.

Drag Loads: Force(#) (PLF) Mbr Start End
Case 1: 469 250.00 TC 0.00 1.88
469 250.00 BC 0.00 1.88

Additional Notes

Blocking panels shall be attached to the shear wall and roof diaphragm for the drag load stated. Provide lateral restraint for end webs against buckling. The overturning force at each end must be transferred between successive panels. The vertical connection required at each end is equal to the drag load in PLF times the truss height in feet.

Truss must be installed as shown with top chord up.



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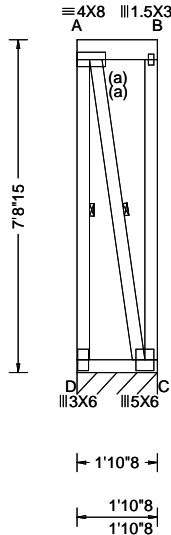
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155 Harlem Ave
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SEQN: 751250 FROM:	FLAT Ply: 1 Qty: 10	Job Number: 20052 SYMONS RESIDENCE Truss Label: SP4	Cust: R 880 JRef: 1XM7880003 T24 DrwNo: 010.23.1108.08607 / JAK 01/10/2023
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Loading Criteria (psf) TCCL: 20.00 TCCL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.75 ft TCCL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCp: 0.18 Wind Duration: 0.00	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.020 A 999 240 VERT(CL): 0.023 A 999 240 HORZ(LL): -0.168 B - - HORZ(TL): 0.185 B - - Creep Factor: 2.0 Max TC CSI: 0.048 Max BC CSI: 0.065 Max Web CSI: 0.604 VIEW Ver: 22.02.01.1115.14	▲ Maximum Reactions (lbs), or *PLF <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>C* 90</td> <td>/-</td> <td>/-</td> <td>/-</td> <td>/50</td> <td>/-</td> <td>/-</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> <td>/-1795</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td></td> <td></td> <td></td> <td>/-1795</td> <td></td> <td></td> </tr> </tbody> </table> Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> </tr> </thead> <tbody> <tr> <td>A - B</td> <td>469 -469</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	C* 90	/-	/-	/-	/50	/-	/-	D				/-1795			C				/-1795			Chords	Tens.Comp.	A - B	469 -469
Loc	Gravity			Non-Gravity																																						
	R+	/R-	/Rh	/Rw	/U	/RL																																				
C* 90	/-	/-	/-	/50	/-	/-																																				
D				/-1795																																						
C				/-1795																																						
Chords	Tens.Comp.																																									
A - B	469 -469																																									

Lumber
 Top chord 2x6 DF-L #2(g)
 Bot chord 2x4 DF-L #2(g)
 Webs 2x4 DF-L Standard(g)
 Lumber shall be dried to a maximum moisture content of 19% prior to installation.

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

Plating Notes
 Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Loading
 Truss transfers a maximum horizontal load of 469 # (250.00 plf) along top chord, from either direction, to supports where indicated. Diaphragm and connections are to be designed by Engineer of Record.
 Drag Loads: Force(#) (PLF) Mbr Start End
 Case 1: 469 250.00 TC 0.00 1.88
 469 250.00 BC 0.00 1.88

Additional Notes
 Blocking panels shall be attached to the shear wall and roof diaphragm for the drag load stated. Provide lateral restraint for end webs against buckling. The overturning force at each end must be transferred between successive panels. The vertical connection required at each end is equal to the drag load in PLF times the truss height in feet.
 End vertical(s) not designed to be exposed to wind pressure.
 Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.
D - C	469 -469

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - D	1814 -1871	A - C	1901 -1901



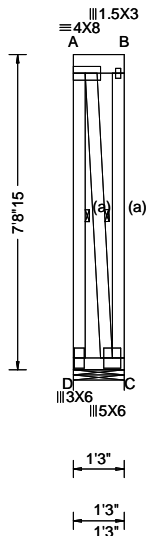
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SEQN: 751252 FROM:	FLAT Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: SP5	Cust: R 880 JRef: 1XM78800003 T32 DrwNo: 010.23.1108.12707 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.75 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 0.00	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.020 A 736 240 VERT(CL): 0.022 A 669 240 HORZ(LL): -0.244 B - - HORZ(TL): 0.269 B - - Creep Factor: 2.0 Max TC CSI: 0.032 Max BC CSI: 0.043 Max Web CSI: 0.593 VIEW Ver: 22.02.01.1115.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C 112 /- /- /62 /- /- D /-1810 Wind reactions based on MWFRS C Brg Wid = 15.0 Min Req = 1.5 (Truss) Bearing D is a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. A - D 1824 - 1861 A - C 1869 - 1869
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Lumber
Top chord 2x6 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

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

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Loading
Truss transfers a maximum horizontal load of 312 # (250.00 plf) along top chord, from either direction, to supports where indicated. Diaphragm and connections are to be designed by Engineer of Record.
Drag Loads: Force(#) (PLF) Mbr Start End
Case 1: 312 250.00 TC 0.00 1.25
312 250.00 BC 0.00 1.25

Additional Notes
Blocking panels shall be attached to the shear wall and roof diaphragm for the drag load stated. Provide lateral restraint for end webs against buckling. The overturning force at each end must be transferred between successive panels. The vertical connection required at each end is equal to the drag load in PLF times the truss height in feet.
End vertical(s) not designed to be exposed to wind pressure.
Truss must be installed as shown with top chord up.

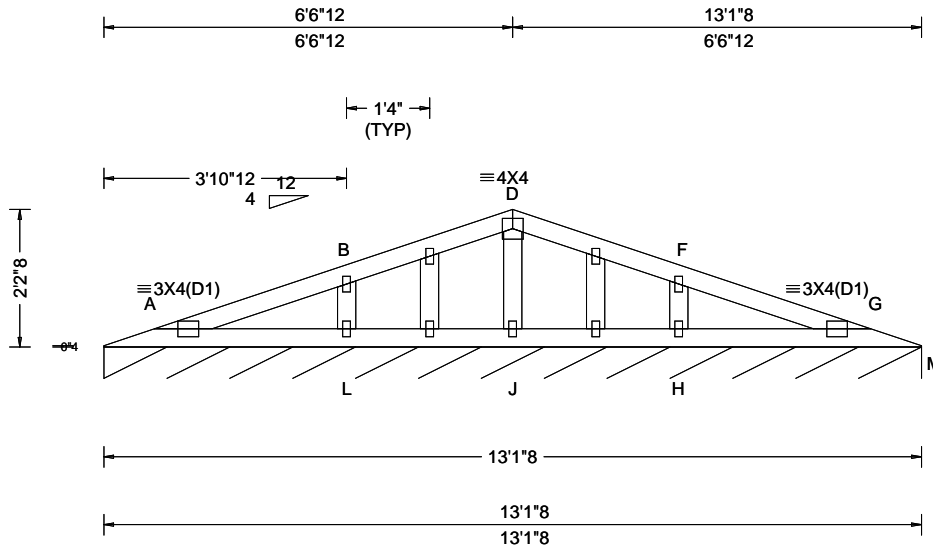


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Glenview, IL 60025

SEQN: 750666 FROM:	GABL Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: V1	Cust: R 880 JRef: 1XM7880003 T6 DrwNo: 010.23.1101.06983 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.013 A 999 240 VERT(CL): 0.026 A 999 240 HORZ(LL): -0.004 G - - HORZ(TL): 0.007 G - - Creep Factor: 2.0 Max TC CSI: 0.287 Max BC CSI: 0.189 Max Web CSI: 0.083 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL M* 159 /- /- /77 /12 /4 Wind reactions based on MWFRS M Brg Wid = 157 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# Maximum Gable Forces Per Ply (lbs) Gables Tens.Comp. Gables Tens. Comp. B - L 258 -409 H - F 258 -409
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Lumber

Top chord 2x4 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

All plates are 1.5X3 except as noted.

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord may be notched 1.5" deep X 3.5" at 48" o/c along top edge. DO NOT OVERCUT. No knots or other lumber defects allowed within 12" of notches. Do not notch in overhang or heel panel, unless specified otherwise.

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 A11515ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.



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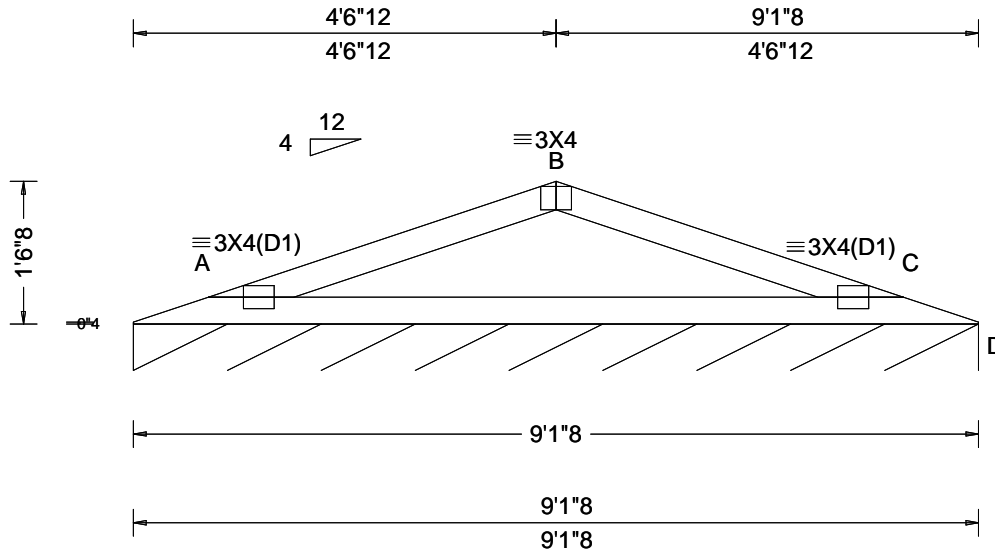
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 750652 FROM:	VAL Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: V2	Cust: R 880 JRef: 1XM7880003 T7 DrwNo: 010.23.1101.09230 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.050 A 999 240 VERT(CL): 0.114 A 930 240 HORZ(LL): -0.012 A - - HORZ(TL): 0.028 A - - Creep Factor: 2.0 Max TC CSI: 0.387 Max BC CSI: 0.421 Max Web CSI: 0.000 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 91 /- /- /47 /- /2 Wind reactions based on MWFRS D Brg Wid = 109 Min Req = - Bearing A 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 446 -774 B - C 445 -774 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. A - C 747 -385
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Lumber
Top chord 2x4 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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 DWG VALTN160118 for valley details.

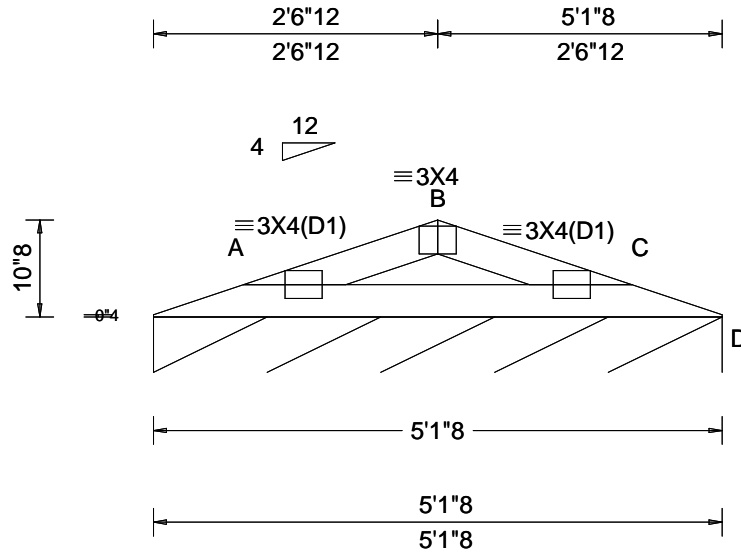


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Glenview, IL 60025

SEQN: 750653 FROM:	VAL Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: V3	Cust: R 880 JRef: 1XM7880003 T8 DrwNo: 010.23.1101.11310 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 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: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.010 A 999 240 VERT(CL): 0.022 A 999 240 HORZ(LL): -0.003 A - - HORZ(TL): 0.007 A - - Creep Factor: 2.0 Max TC CSI: 0.112 Max BC CSI: 0.161 Max Web CSI: 0.000 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL D* 91 /- /- /42 /- /2 Wind reactions based on MWFRS D Brg Wid = 61.5 Min Req = - Bearing A 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 201 -419 B - C 199 -419 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. A - C 421 -177
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Lumber

Top chord 2x4 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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 DWG VALTN160118 for valley details.



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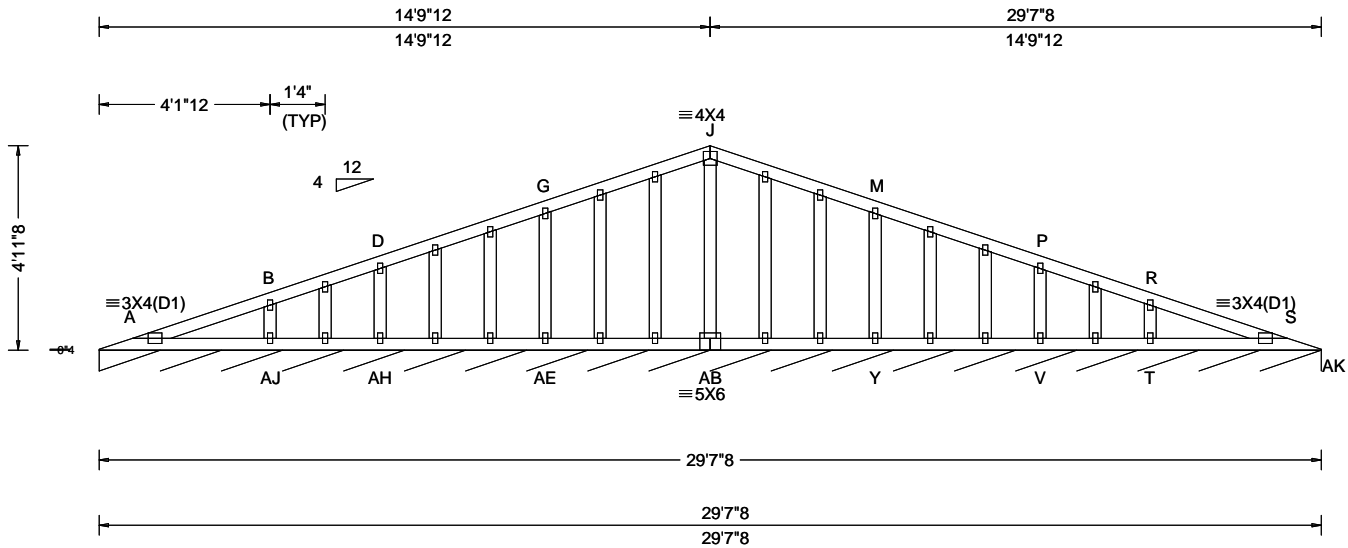
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American Truss Company, Inc.
4550 Spring Hill Road
PETALUMA CA 94952
(707)763-8713



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 750664 FROM:	GABL Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: V4	Cust: R 880 JRef: 1XM7880003 T25 DrwNo: 010.23.1101.14903 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.016 A 999 240 VERT(CL): 0.033 A 999 240 HORZ(LL): -0.004 S - - HORZ(TL): 0.008 S - - Creep Factor: 2.0 Max TC CSI: 0.327 Max BC CSI: 0.222 Max Web CSI: 0.099 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL AK* 166 /- /- /81 /11 /5 Wind reactions based on MWFRS AK Brg Wid = 355 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# Maximum Gable Forces Per Ply (lbs) Gables Tens.Comp. Gables Tens. Comp. B -AJ 129 -456 T - R 129 -456
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Lumber

Top chord 2x4 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

All plates are 1.5X3 except as noted.

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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 A11515ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.



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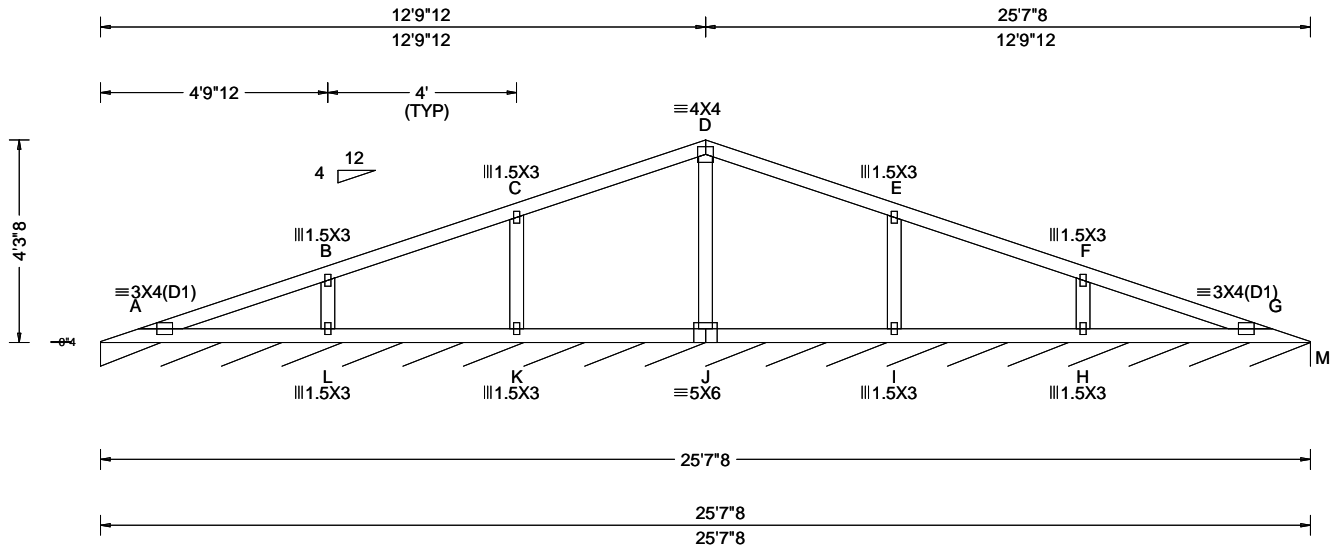
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American Truss Company, Inc.
4550 Spring Hill Road
PETALUMA CA 94952
(707)763-8713



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 750655 FROM:	VAL Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: V5	Cust: R 880 JRef: 1XM7880003 T27 DrwNo: 010.23.1101.16987 / JAK 01/10/2023
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Loading Criteria (psf) TCCL: 20.00 TCCL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.013 A 999 240 VERT(CL): 0.031 A 999 240 HORZ(LL): 0.003 A - - HORZ(TL): 0.008 A - - Creep Factor: 2.0 Max TC CSI: 0.254 Max BC CSI: 0.162 Max Web CSI: 0.086 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs), or *=PLF <table border="1"> <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</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>M*</td> <td>92</td> <td>-</td> <td>-</td> <td>/50</td> <td>-</td> <td>/2</td> </tr> </tbody> </table> Wind reactions based on MWFRS M Brg Wid = 307 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#	Gravity			Non-Gravity			Loc	R+	/R-	/Rh	/Rw	/U	/RL	M*	92	-	-	/50	-	/2
Gravity			Non-Gravity																					
Loc	R+	/R-	/Rh	/Rw	/U	/RL																		
M*	92	-	-	/50	-	/2																		

Lumber

Top chord 2x4 DF-L #2(g)
 Bot chord 2x4 DF-L #2(g)
 Webs 2x4 DF-L Standard(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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 DWG VALTN160118 for valley details.



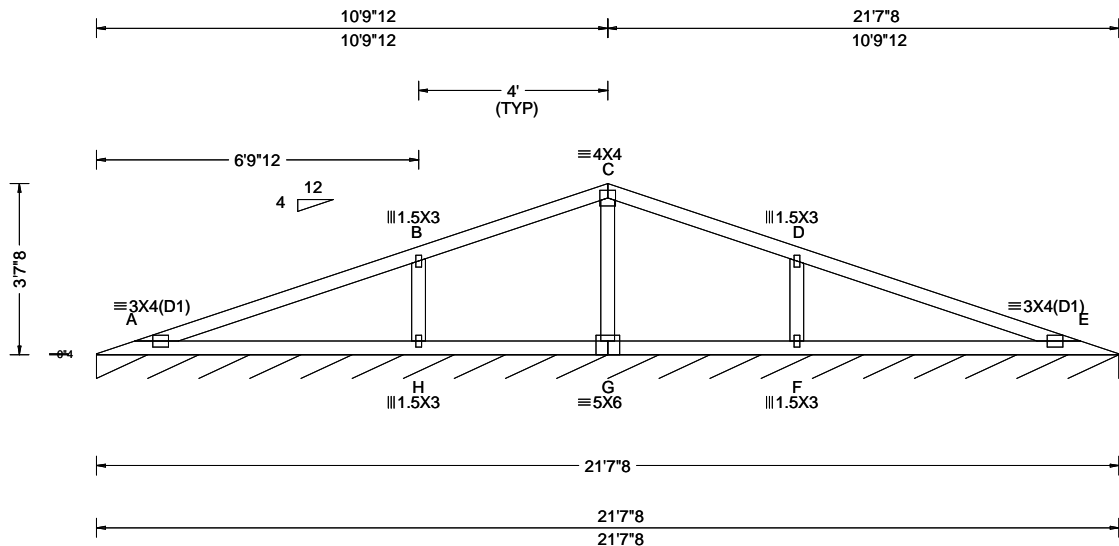
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American Truss Company, Inc.
 4550 Spring Hill Road
 PETALUMA CA 94952
 (707)763-8713



155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

SEQN: 750657 FROM:	VAL Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: V6	Cust: R 880 JRef: 1XM7880003 T28 DrwNo: 010.23.1101.19083 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 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: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.039 A 999 240 VERT(CL): 0.093 A 999 240 HORZ(LL): 0.010 A - - HORZ(TL): 0.023 A - - Creep Factor: 2.0 Max TC CSI: 0.536 Max BC CSI: 0.322 Max Web CSI: 0.088 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL I* 92 /- /- /50 /- /2 Wind reactions based on MWFRS I Brg Wid = 259 Min Req = - Bearing A 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 456 -44 C - D 419 0 B - C 419 0 D - E 456 -44
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Lumber
Top chord 2x4 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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 DWG VALTN160118 for valley details.

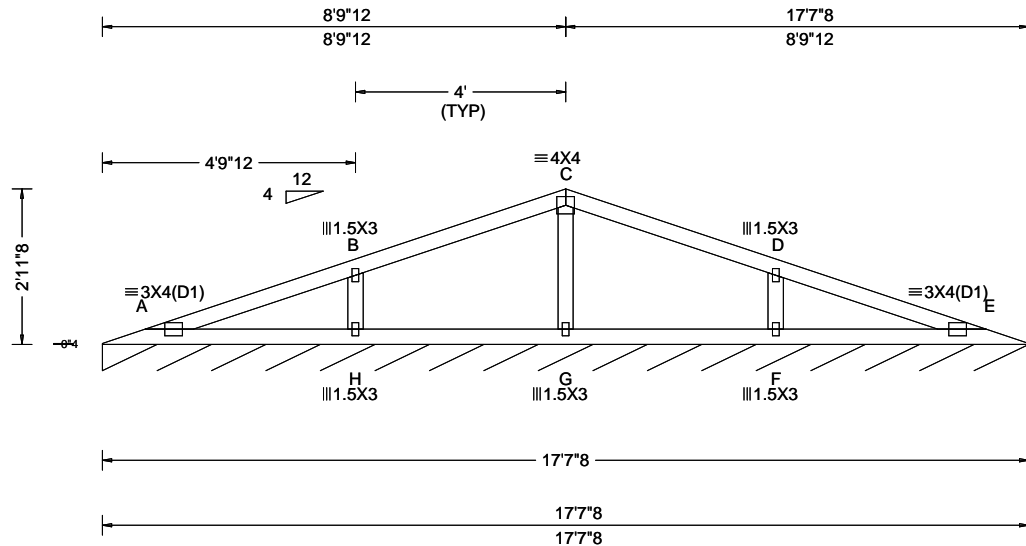


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AN ITW COMPANY
155 Harlem Ave
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Glenview, IL 60025

SEQN: 750658 FROM:	VAL Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: V7	Cust: R 880 JRef: 1XM7880003 T31 DrwNo: 010.23.1101.21847 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.012 A 999 240 VERT(CL): 0.028 A 999 240 HORZ(LL): -0.003 E - - HORZ(TL): 0.008 E - - Creep Factor: 2.0 Max TC CSI: 0.319 Max BC CSI: 0.160 Max Web CSI: 0.050 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL I* 91 /- /- /49 /- /2 Wind reactions based on MWFRS I Brg Wid = 211 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#
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Lumber
Top chord 2x4 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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 DWG VALTN160118 for valley details.



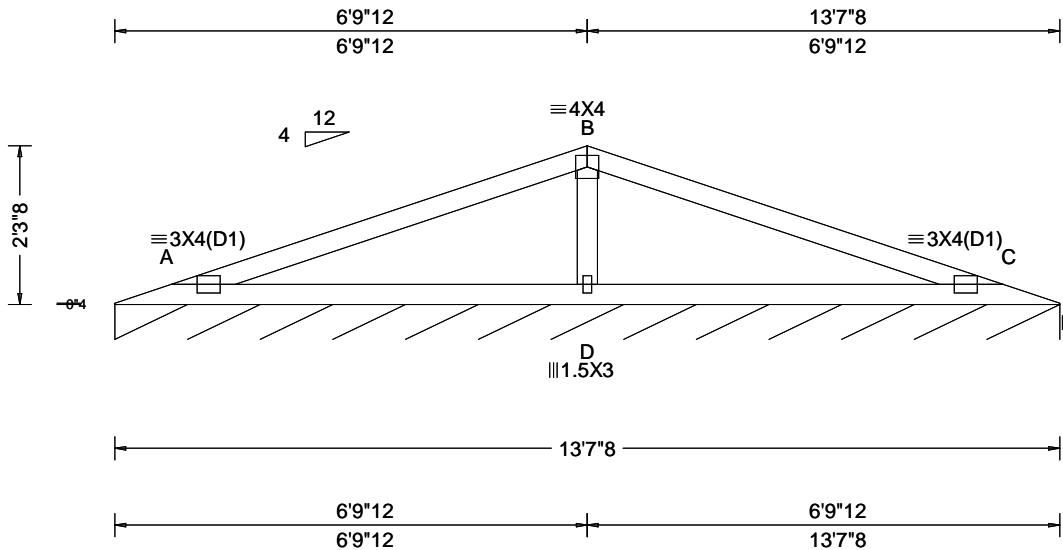
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4550 Spring Hill Road
PETALUMA CA 94952
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 750659 FROM:	VAL Qty: 1	Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: V8	Cust: R 880 JRef: 1XM7880003 T33 DrwNo: 010.23.1101.24523 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 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: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.044 A 999 240 VERT(CL): 0.115 A 999 240 HORZ(LL): -0.012 C - - HORZ(TL): 0.032 C - - Creep Factor: 2.0 Max TC CSI: 0.561 Max BC CSI: 0.494 Max Web CSI: 0.100 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL E* 91 /- /- /48 /- /2 Wind reactions based on MWFRS E Brg Wid = 163 Min Req = - Bearing A 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 749 -159 B - C 749 -163 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - D 189 -656 D - C 189 -656 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. B - D 239 -801
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Lumber
Top chord 2x4 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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 DWG VALTN160118 for valley details.



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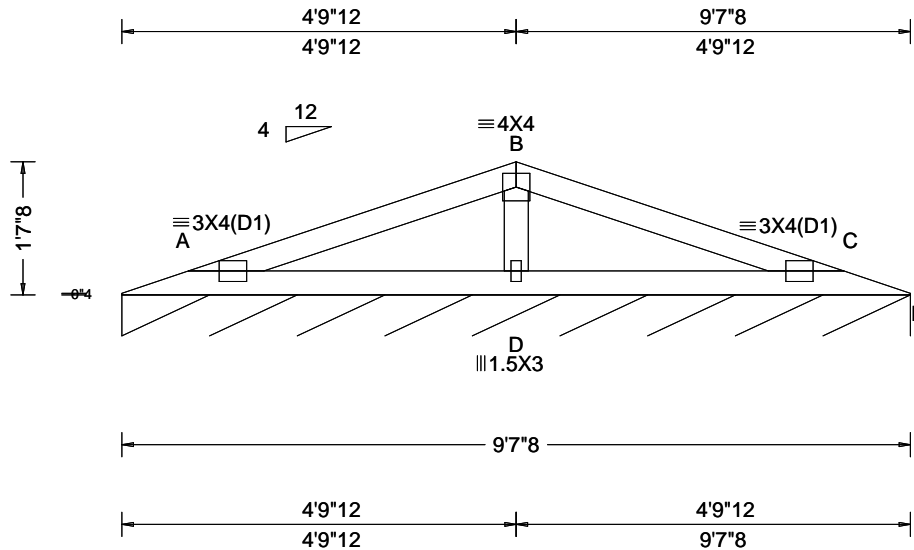
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 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: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.014 A 999 240 VERT(CL): 0.037 A 999 240 HORZ(LL): -0.004 C - - HORZ(TL): 0.010 C - - Creep Factor: 2.0 Max TC CSI: 0.237 Max BC CSI: 0.190 Max Web CSI: 0.079 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E* 91 /- /- /47 /- /2 Wind reactions based on MWFRS E Brg Wid = 115 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. B - D 195 -440

Lumber
Top chord 2x4 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)
Webs 2x4 DF-L Standard(g)
Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes
Connectors in green lumber (g) designed using NDS/TPI reduction factors.

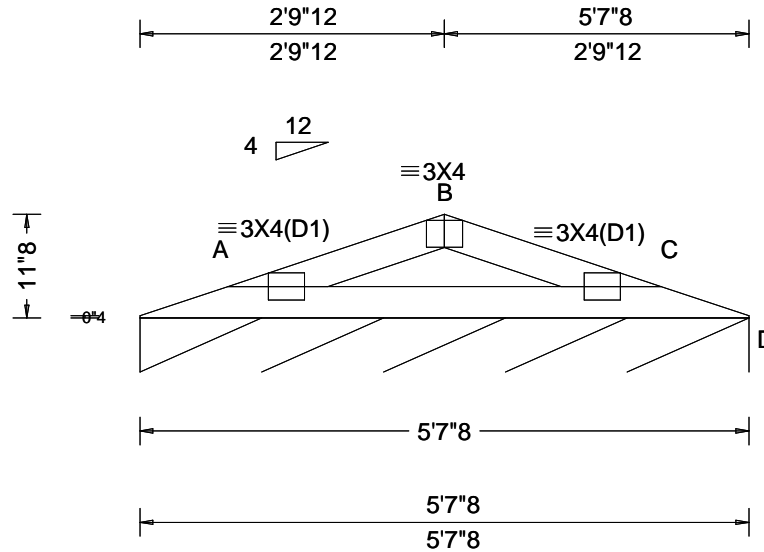
Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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 DWG VALTN160118 for valley details.



SEQN: 750661 FROM:	VAL Ply: 1 Qty: 1	Job Number: 20052 SYMONS RESIDENCE Truss Label: V10	Cust: R 880 JRef: 1XM7880003 T37 DrwNo: 010.23.1101.28190 / JAK 01/10/2023
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 110 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 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: 1.25	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: CBC 2019 Res TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.013 C 999 240 VERT(CL): 0.029 C 999 240 HORZ(LL): -0.004 A - - HORZ(TL): 0.008 A - - Creep Factor: 2.0 Max TC CSI: 0.143 Max BC CSI: 0.188 Max Web CSI: 0.000 VIEW Ver: 21.02.01.1216.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 91 /- /- /43 /- /2 Wind reactions based on MWFRS D Brg Wid = 67.5 Min Req = - Bearing A 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 228 -466 B - C 226 -466 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. A - C 464 -201
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Lumber

Top chord 2x4 DF-L #2(g)
Bot chord 2x4 DF-L #2(g)

Lumber shall be dried to a maximum moisture content of 19% prior to installation.

Plating Notes

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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 DWG VALTN160118 for valley details.



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American Truss Company, Inc.
4550 Spring Hill Road
PETALUMA CA 94952
(707)763-8713



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Gable Stud Reinforcement Detail
 ASCE 7-16: 115 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, $K_z = 1.00$

4' 11"	8' 5"	8' 9"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
4' 8"	8' 1"	8' 7"	9' 10"	10' 3"	11' 9"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
4' 8"	8' 0"	8' 6"	9' 10"	10' 3"	11' 9"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
4' 8"	6' 11"	7' 4"	9' 2"	9' 10"	11' 9"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
5' 2"	8' 7"	8' 10"	10' 1"	10' 6"	12' 0"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"
4' 11"	8' 5"	8' 9"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
4' 10"	7' 3"	7' 9"	9' 8"	10' 3"	11' 9"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
4' 10"	7' 3"	7' 9"	9' 8"	10' 3"	11' 9"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
4' 8"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	12' 2"	13' 5"	14' 0"	14' 0"	14' 0"
5' 8"	9' 8"	10' 0"	11' 5"	11' 10"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 5"	9' 6"	10' 0"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 5"	9' 6"	9' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 5"	8' 5"	9' 0"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 11"	9' 9"	10' 2"	11' 6"	12' 0"	13' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 8"	9' 8"	10' 0"	11' 5"	11' 10"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 6"	8' 11"	9' 6"	11' 4"	11' 9"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 6"	8' 11"	9' 6"	11' 4"	11' 9"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 5"	7' 10"	8' 4"	10' 6"	11' 2"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
6' 3"	10' 7"	11' 0"	12' 7"	13' 0"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 11"	10' 6"	10' 10"	12' 5"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 11"	10' 6"	10' 10"	12' 5"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 11"	9' 9"	10' 5"	12' 5"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
6' 6"	10' 9"	11' 12"	12' 8"	13' 2"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
6' 3"	10' 7"	11' 0"	12' 7"	13' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
6' 1"	10' 3"	10' 11"	12' 6"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
6' 1"	10' 3"	10' 11"	12' 6"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
5' 11"	9' 1"	9' 8"	12' 1"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:	
Group A:	
Spruce-Pine-Fir Standard Stud	Hein-Fir Stud Standard
Douglas Fir-Larch Stud Standard	Southern Pine Stud Standard
Group B:	
Hein-Fir	
Douglas Fir-Larch	Southern Pine

1x4 Braces shall be S2P (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 30 psf over continuous bearing (5 psf IC 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" x 3.0" 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.



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 ALPINE: www.alpineitw.com; IPI: www.ipi.org; SPCA: www.spcainst.org; ICC: www.iccsafe.org



MA\, TOT. L.D. 60 PSF
 MA\, SPACING 24.0'

REF	ASCE7-16-GAD11515
DATE	01/26/2018
DRWG	A11515ENC160118

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

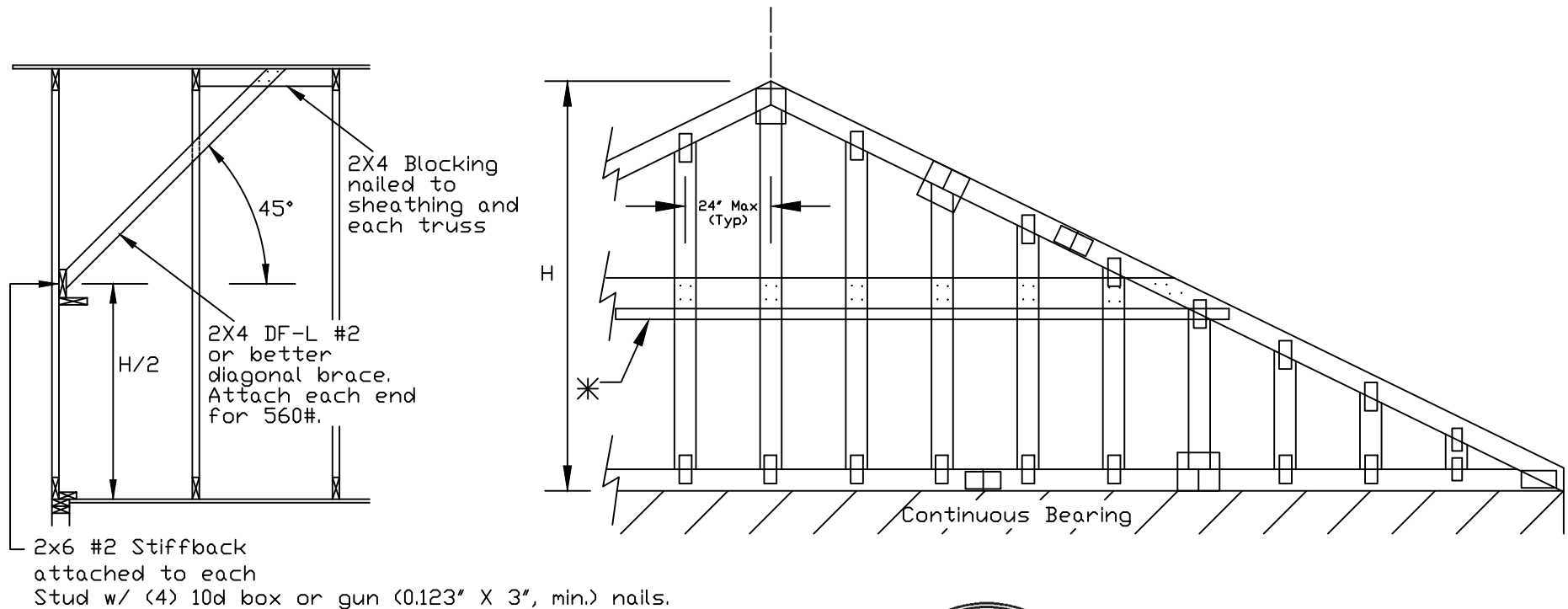
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

* Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



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ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

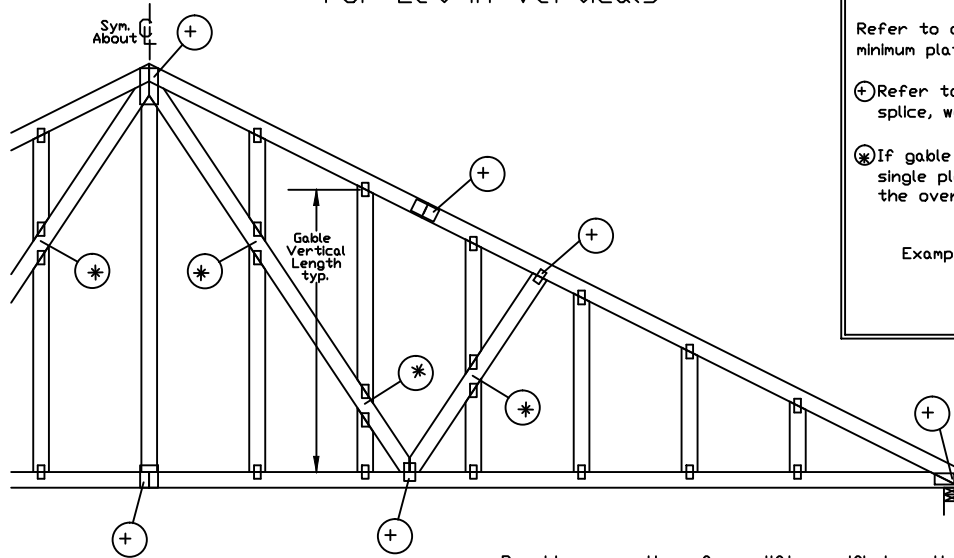


MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Gable Detail For Let-in Verticals



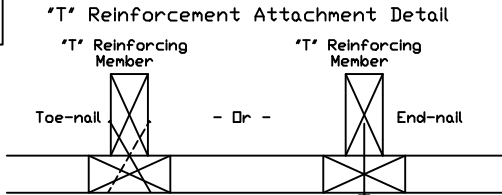
Gable Truss Plate Sizes

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

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

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

Example:



Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with
End Driven Nails:
10d Common (0.148"x3",min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

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

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

- ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014
- ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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

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

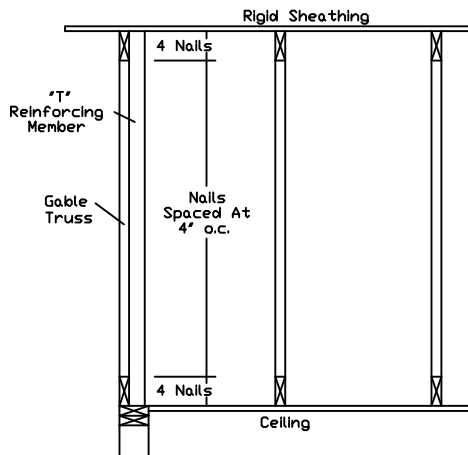
Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

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

Web Length Increase w/ 'T' Brace

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

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24' o.c. SP #3
'T' Reinforcing Member Size = 2x4
'T' Brace Increase (From Above) = 30% = 1.30
(1) 2x4 'L' Brace Length = 8' 7"
Maximum 'T' Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"



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ALPINE: www.alpneitw.com; TPI: www.tpinstr.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

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.

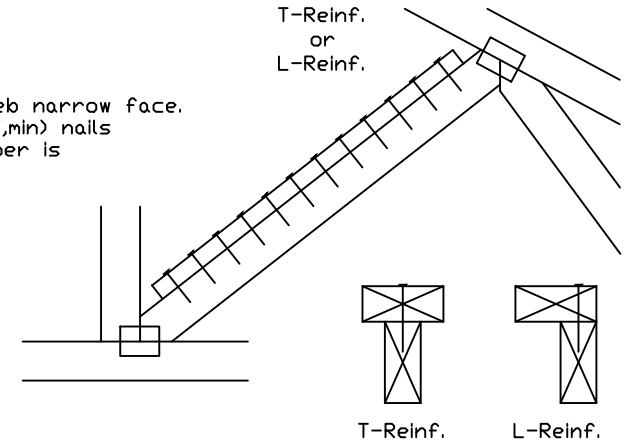
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6 or 2x4	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

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

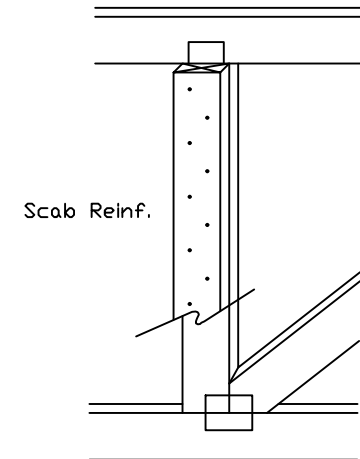
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



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01/10/2023

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		

NAIL SPACING DETAIL

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

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

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

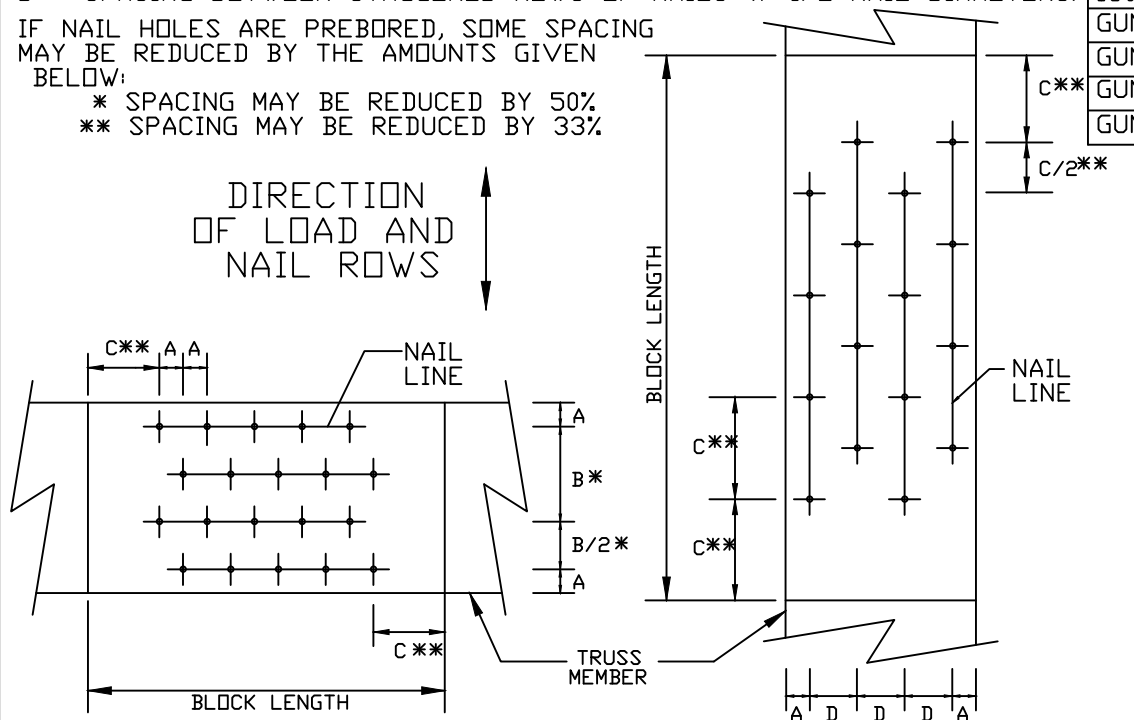
D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

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

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

MINIMUM NAIL SPACING DISTANCES

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



LOAD APPLIED PERPENDICULAR TO GRAIN

LOAD APPLIED PARALLEL TO GRAIN

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING
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.

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

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

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



514 Earth City Expressway
 Suite 242
 Earth City, MO 63045



01/10/2023

REF NAIL SPACE

DATE 10/01/14

DRWG CNNAILSP1014

Valley Detail - ASCE 7-16: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

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

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

** Attach each valley to every supporting truss with:
 (2) 16d box (0.135" x 3.5") nails toe-nailed for ASCE 7-16, 30' Mean Height, Enclosed Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on supporting truss material at connection location:
 170 mph for SP (G = 0.55, min.),
 155 mph for DF-L (G = 0.50, min.), or
 120 mph for HF & SPF (G = 0.42, min.).

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

Maximum top chord pitch is 10/12 for supporting trusses below valley trusses.

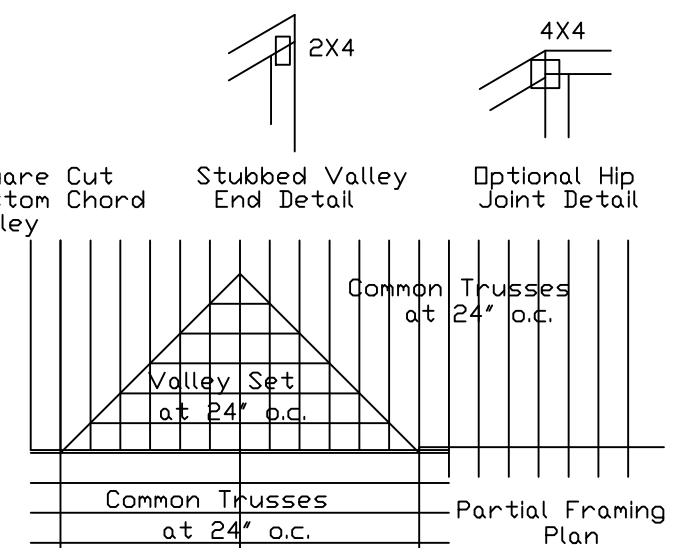
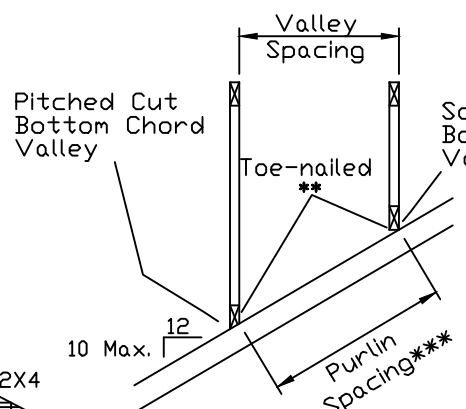
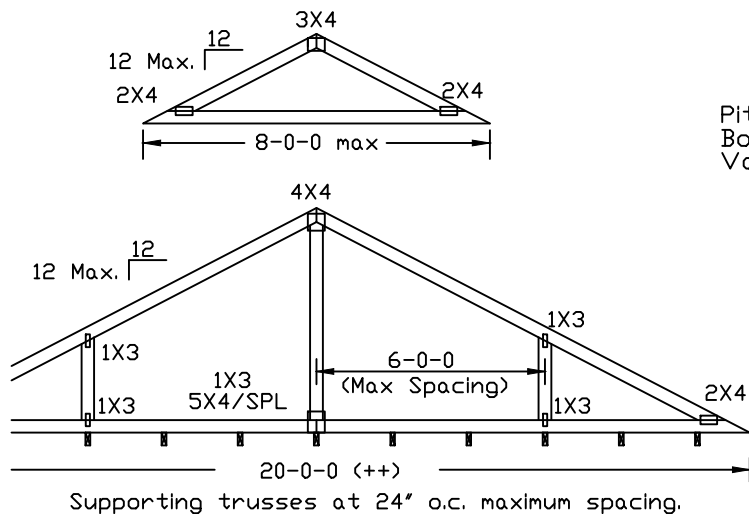
Bottom chord of valley trusses may be square or pitched cut as shown.

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

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

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

All plates shown are Alpine Wave Plates.



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TC LL	30	30	40PSF	REF	VALLEY DETAIL
TC DL	20	15	7PSF	DATE	01/26/2018
BC DL	10	10	10PSF	DRWG	VALTN160118
BC LL	0	0	0PSF		
TOT. LD.	60	55	57PSF		
DUR.FAC.	1.25/1.33	1.15	1.15		
SPACING	24.0"				