Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

01/12/2026

MISSOURI COA #2005000817

Site Information:	Page 1:
Customer: Kodiak – Premier Building Supply	*Job Number:* PM000129
Job Description: Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse	
Address: 1432 SE VANTAGE POINT DR, LEE'S SUMMIT, MO 64082	

Job Engineering Criteria:		
Building Code: IRC 2018	*Design Standard:* TPI 2014	*IntelliVIEW Version:* 25.02.00B
Loading Standard: ASCE 7-16	*Design Methodology:* ASD	*JRef #:* 1YGQ96460003
Wind: Wind Speed (mph): 115	*Exposure:* B	*Design Loading (psf):* 45
Building Type: Part Enc.	*Risk Category:* II	
Snow: Pg (psf): NA	*Pf(ASD) (psf):* NA	
W2::	*Risk Category:* II	

This package contains general notes pages, 38 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	012.26.1516.36493	E4
3	012.26.1516.29233	E3
5	012.26.1518.09287	LAY2
7	012.26.1515.52747	D3
9	012.26.1515.49910	D1
11	012.26.1518.11820	T2
13	012.26.1515.34337	A3
15	012.26.1517.08460	J3
17	012.26.1516.58427	J1
19	012.26.1515.51217	D2
21	012.26.1515.40773	B2
23	012.26.1515.42410	B3
25	012.26.1515.45833	B5
27	012.26.1517.27723	J7
29	012.26.1518.14240	V1
31	012.26.1515.39097	B1
33	012.26.1516.14750	E1
35	012.26.1516.21580	E2
37	012.26.1516.49417	G3
39	A14015ENC160118	
41	A14030ENC160118	
43	VAL180160118	

Item	Drawing Number	Truss
2	012.26.1518.25823	V6
4	012.26.1516.42683	G1
6	012.26.1515.47140	C1
8	012.26.1515.48420	C2
10	012.26.1515.31150	A1
12	012.26.1515.32890	A2
14	012.26.1517.25800	J6
16	012.26.1517.11237	J4
18	012.26.1517.48677	LAY1
20	012.26.1515.35707	A4
22	012.26.1518.16890	V4
24	012.26.1515.44140	B4
26	012.26.1517.29330	J8
28	012.26.1517.19407	J5
30	012.26.1515.37377	A5
32	012.26.1516.46767	G2
34	012.26.1517.57490	LAY1
36	012.26.1516.18317	E1
38	012.26.1518.19463	V5
40	GBLLETIN0118	
42	HIPFRAME0623	

Andrea Sessler
Digitally signed by Andrea Sessler
DN: CN=Andrea Sessler, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2026.02.12 16:06:36-06'00'

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 4:05:15

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.

Bearing Information:
The bearing area factor, Cb, is considered for the allowable capacity of solid sawn wood bearings supporting trusses that are located a minimum of 3" from the end of the lumber piece.

General Notes (continued)

Coated Lumber:
Coated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Coated lumber has no adjustments to lumber properties. Coated lumber may be more brittle than uncoated lumber. Special handling care must be taken to prevent breakage during all handling activities. Refer to manufacturer literature, specifications, and code evaluation reports for restrictions, details, and requirements.

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.

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.
C = Coated lumber.
C-AT = AtTEK coated lumber.
C-FX = FX Lumber Guard coated lumber.
C -TE = TechWood 4400 coated lumber.
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-BF = Boraflame 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-ON = OnWood Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
FRT-PR = ProWood 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 all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for 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).

General Notes (continued)

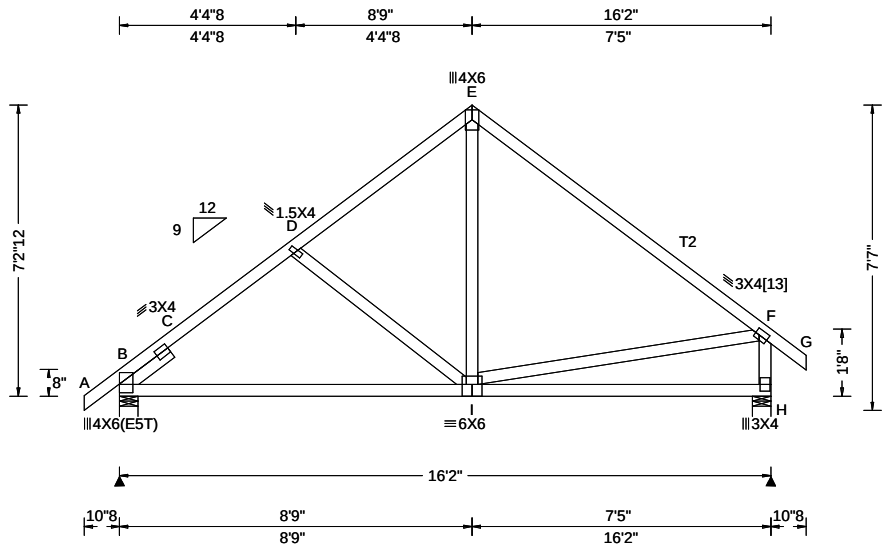
Key to Terms (continued):
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

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

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 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: 5775 COMN FROM:	Ply: 1 Qty: 5	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** E4	Cust: R 9646 JRef:1YGQ96460003 T10 DrwNo: 012.26.1516.36493 / BM 01/12/2026



Loading Criteria (psf)

TCLL: 25.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria

Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 21.70 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf(ASD): NA
Ce: NA Lu: NA
Cs: NA Snow Duration: NA

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.032	C	999	240
VERT(CL): 0.065	C	999	180
HORZ(LL): 0.025	C	-	-
HORZ(TL): 0.050	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.576
Max BC CSI: 0.602
Max Web CSI: 0.188

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	835	/-	/-	/464	/46	/137
H	835	/-	/-	/453	/44	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
H Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearings B & H Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	416	-1036	D - E	194	-712
C - D	190	-914	E - F	158	-786

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - I	696	-96

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - F	447	0	F - H	183	-779

Lumber

Top chord: 2x4 SP #2; T2 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[13]	3X4	2.75 R	1.75				

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	16.17

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

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

Wind

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

Right end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

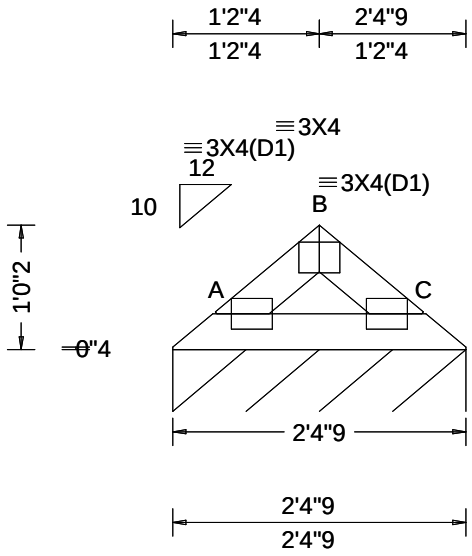
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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 continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR 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

SEQN: 5791 VAL FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** V6	Cust: R 9646 JRef:1YGQ96460003 T11 DrwNo: 012.26.1518.25823 / BM 01/12/2026



Loading Criteria (psf)
TCLL: 25.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 23.26 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

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

Creep Factor: 2.0
Max TC CSI: 0.027
Max BC CSI: 0.043
Max Web CSI: 0.000

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	94	/-	/-	/44	/-	/4

Wind reactions based on MWFRS
C Brg Wid = 28.5 Min Req = -
Bearing A Fcperp = 425psi.
Members not listed have forces less than 375#

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

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	29	0.00	2.38

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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 VAL180160118 for valley details.

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01/12/2026

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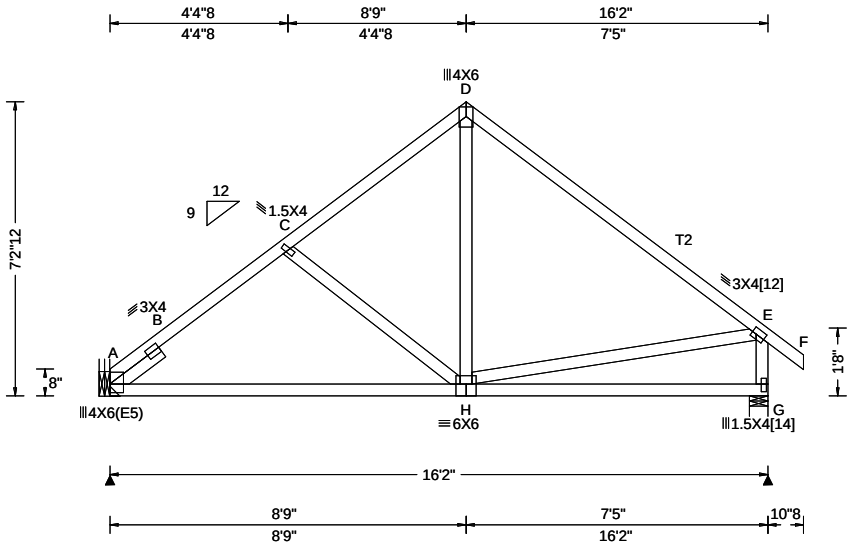
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5774 COMN FROM: Page 1 of 2	Ply: 1 Qty: 5	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** E3	Cust: R 9646 JRef:1YGQ96460003 T12 DrwNo: 012.26.1516.29233 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 22.03 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.032	B	999	240
VERT(CL): 0.065	B	999	180
HORZ(LL): 0.025	B	-	-
HORZ(TL): 0.050	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.574
Max BC CSI: 0.603
Max Web CSI: 0.188

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	768	/-	/-	/450	/43	/126
G	835	/-	/-	/454	/47	/-

Wind reactions based on MWFRS
A Brg Wid = - Min Req = -
G Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearing G Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	442	-1028	C - D	199	-712
B - C	197	-914	D - E	163	-786

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - H	696	-100

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - E	447	0	E - G	185	-779

Lumber

Top chord: 2x4 SP #2; T2 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[12]	3X4	2.75 R	1.75	[14]	1.5X4	S	2.25

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	16.17

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

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

Wind

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

Right end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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Hangers / Ties

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

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

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

Bearing at location x=0' uses the following support conditions: 0'
Bearing A (0', 18'1") LUS24
Supporting Member: (2)2x8 SP #1
(4) 0.148"x3" nails into supporting member,
(2) 0.148"x3" nails into supported member.

MISSOURI COA #2005000817
01/12/2026

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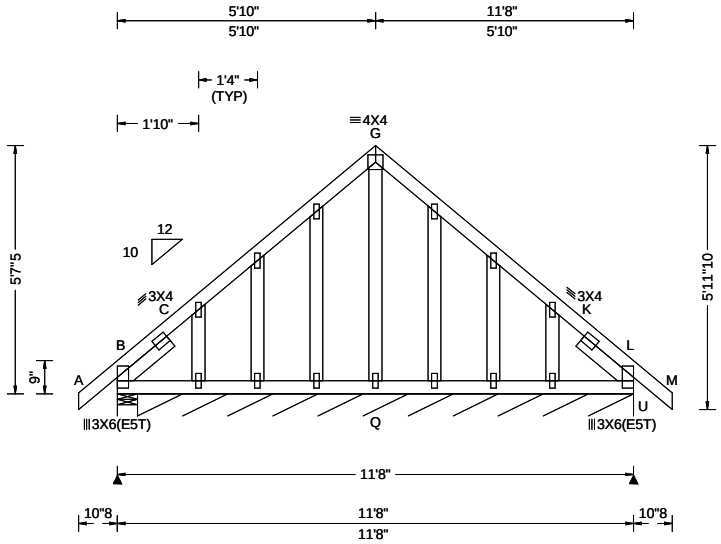
ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5776 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** G1	Cust: R 9646 JRef:1YGQ96460003 T13 DrwNo: 012.26.1516.42683 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 20.90 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): -0.001	K	999	240
VERT(CL): 0.002	C	999	180
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.005	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.113
Max BC CSI: 0.033
Max Web CSI: 0.095

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	242	/-	/-	/113	/18	/114
U*	125	/-	/-	/73	/16	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
U Brg Wid = 134 Min Req = -
Bearings B & B Fcperp = 425psi.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 1.5X4 except as noted.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	11.67

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 3.00 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.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

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

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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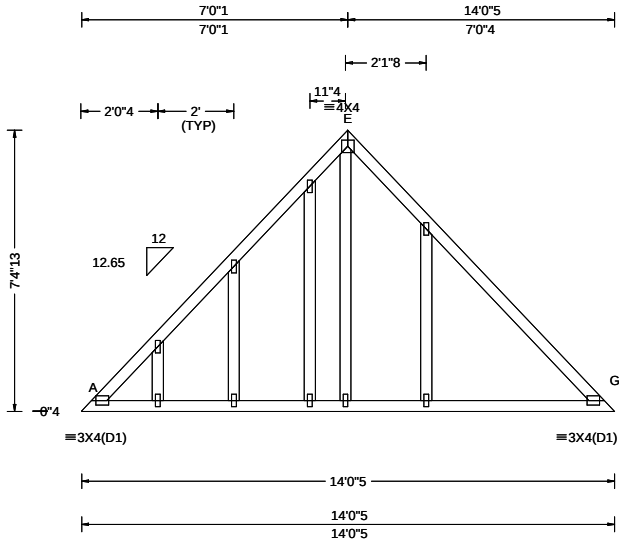
ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5793 HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** LAY2	Cust: R 9646 JRef:1YGQ96460003 T14 DrwNo: 012.26.1518.09287 / BM 01/12/2026



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 5.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 35.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: I Enclosure: Part. Enc. EXP: C Kzt: NA TCDL: 3.0 psf BCDL: 6.0 psf Mean Height: 0.00 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.55 Wind Duration: 0.00	Pg: 25.0 Ct: - CAT: - Pf(ASD): 16.8 Ce: - Lu: - Cs: - Snow Duration: - Building Code: IRC 2018 Load Std: ASCE 7-16 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): 0.000 - - 240 VERT(CL): 0.000 E 999 180 HORZ(LL): 0.000 - - - HORZ(TL): 0.000 F - - Creep Factor: 2.0 Max TC CSI: 0.005 Max BC CSI: 0.003 Max Web CSI: 0.003 VIEW Ver: 25.02.00B.1125.14

Lumber

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

Plating Notes

All plates are 1.5X4 except as noted.

Additional Notes

This "Hip Frame" may be used in place of purlins on the hip plane to brace the flat top chord of hip trusses. See detail drawing HIPFRAME0623, HIPFR18000623, or HIPFRSCAB0623 for additional information.

MISSOURI COA #2005000817
01/12/2026

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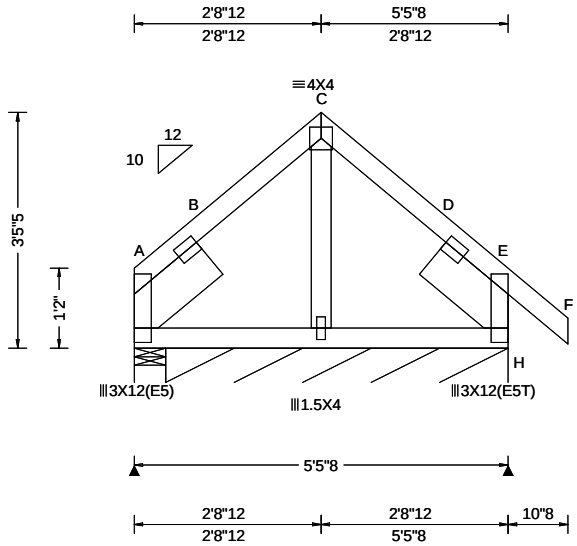
ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60023

SEQN: 5766 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** C1	Cust: R 9646 JRef:1YGQ96460003 T15 DrwNo: 012.26.1515.47140 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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):	0.007	B	999	240
VERT(CL):	0.011	B	999	180
HORZ(LL):	0.008	B	-	-
HORZ(TL):	0.016	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.187
Max BC CSI: 0.079
Max Web CSI: 0.056

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	332	/-	/-	/185	/200	/59
H*	86	/-	/-	/43	/-	/-

Wind reactions based on MWFRS
A Brg Wid = 5.5 Min Req = 1.5 (Support)
H Brg Wid = 60.0 Min Req = -
Bearings A & A Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
D - E	392	-346

Lumber

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

Plating Notes

All plates are 3X4 except as noted.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	65	0.00	5.46

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 3.00 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.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

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

Top Chord overhang(s) may be field trimmed.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER

MISSOURI COA #2005000817
01/12/2026

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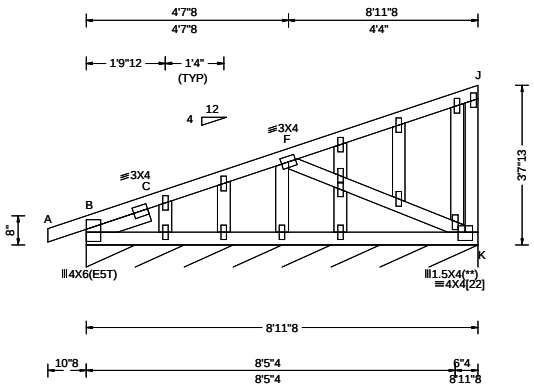
ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5798 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** D3	Cust: R 9646 JRef:1YGQ96460003 T16 DrwNo: 012.26.1515.52747 / BM 01/12/2026	



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.008	H	999	240
VERT(CL): 0.012	H	999	180
HORZ(LL): 0.002	H	-	-
HORZ(TL): 0.004	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.135
Max BC CSI: 0.061
Max Web CSI: 0.192

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K*	125	/-	/-	/64	/16	/18

Wind reactions based on MWFRS
K Brg Wid = 107 Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 1.5X4 except as noted.

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

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[22]	4X4	S	2.25				

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	108	0.00	8.96

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 3.00 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.

Right end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

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

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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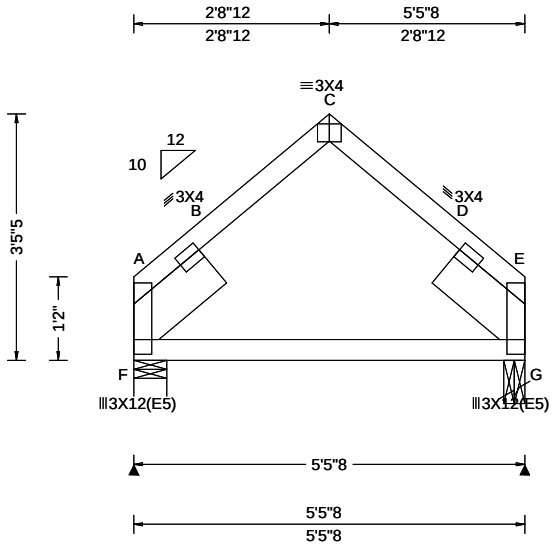
ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 4:05:15

SEQN: 5767 COMN FROM:	Ply: 1 Qty: 4	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** C2	Cust: R 9646 JRef:1YGQ96460003 T17 DrwNo: 012.26.1515.48420 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	B	999	240
VERT(CL): 0.008	B	999	180
HORZ(LL): 0.003	B	-	-
HORZ(TL): 0.011	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.105
Max BC CSI: 0.194
Max Web CSI: 0.010

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	262	/-	/-	/150	/-	/35
G	262	/-	/-	/150	/-	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Support)
G Brg Wid = 3.5 Min Req = 1.5 (Support)
Bearings F & G Fcperp = 425psi.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x8 SP #1; block length = 1.500'
Rt Slider: 2x8 SP #1; block length = 1.500'

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	66	0.00	5.46

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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.

MISSOURI COA #2005000817
01/12/2026

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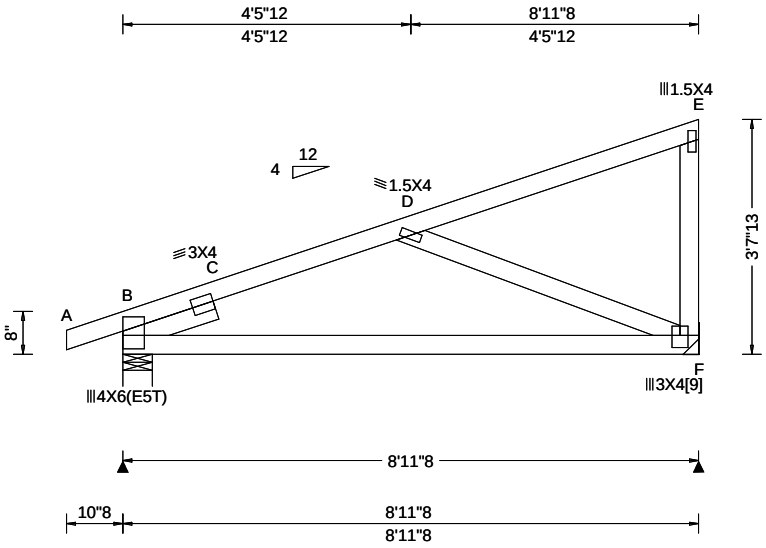
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5768 MONO FROM:	Ply: 1 Qty: 4	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** D1	Cust: R 9646 JRef:1YGQ96460003 T18 DrwNo: 012.26.1515.49910 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.024	C	999	240
VERT(CL): 0.055	C	999	180
HORZ(LL): 0.009	C	-	-
HORZ(TL): 0.023	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.458
Max BC CSI: 0.525
Max Web CSI: 0.272

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	473	/-	/-	/231	/-	/82
F	408	/-	/-	/234	/21	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
F Brg Wid = - Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	-649	C - D	225	-571

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - F	534	-346

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - F	375	-558

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

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[9]	3X4	S	2.25				

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	108	0.00	8.96

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

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

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

Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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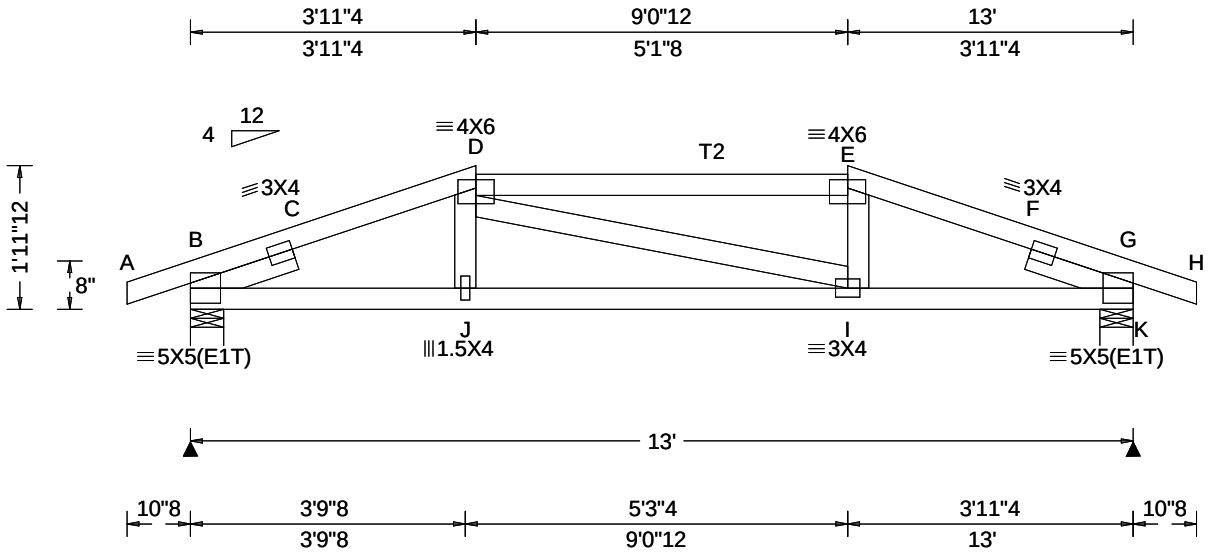
Glenview, IL 60025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 4:05:16

SEQN: 5756 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** A1	Cust: R 9646 JRef:1YGQ96460003 T19 DrwNo: 012.26.1515.31150 / BM 01/12/2026	



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.050	D	999	240
VERT(CL): 0.091	D	999	180
HORZ(LL): 0.017	G	-	-
HORZ(TL): 0.031	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.469
Max BC CSI: 0.886
Max Web CSI: 0.048

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	949	/-	/-	/-	/40	/-
K	949	/-	/-	/-	/40	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
K Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearings B & K Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	61	-1918	E - F	60	-1886
C - D	58	-1885	F - G	63	-1918
D - E	57	-1775			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	1779	-55	I - G	1780	-58
J - I	1756	-61			

Lumber

Top chord: 2x4 SP #2; T2 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'
Rt Slider: 2x4 SP #2; block length = 1.500'

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	71 plf at	-0.88 to	71 plf at	0.00
TC: From	36 plf at	0.00 to	36 plf at	13.00
TC: From	71 plf at	13.00 to	71 plf at	13.88
BC: From	10 plf at	0.00 to	10 plf at	13.00

TC: 132 lb Conc. Load at 4.00, 6.00, 7.00, 9.00
BC: 230 lb Conc. Load at 2.00,11.00
BC: 47 lb Conc. Load at 4.00, 6.00, 7.00, 9.00

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	3.94	9.06
BC	120	0.00	13.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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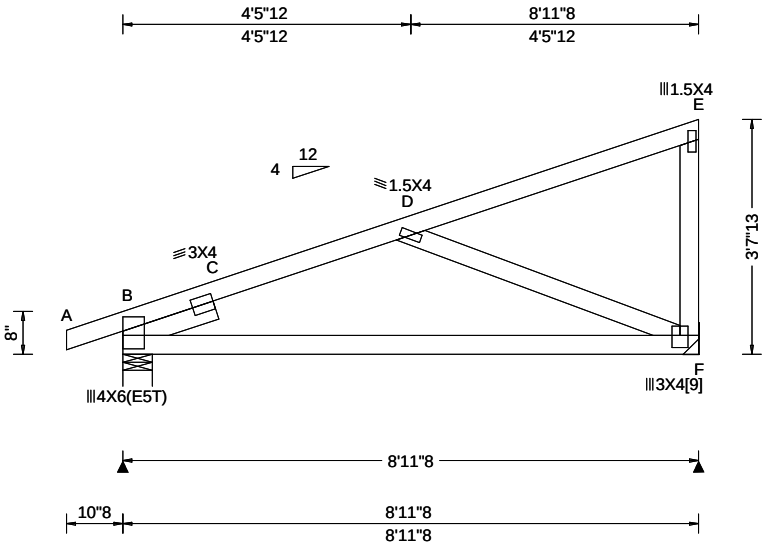
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5787 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** T2	Cust: R 9646 JRef:1YGQ96460003 T2 DrwNo: 012.26.1518.11820 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.024	C	999	240
VERT(CL): 0.055	C	999	180
HORZ(LL): 0.009	C	-	-
HORZ(TL): 0.023	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.458
Max BC CSI: 0.525
Max Web CSI: 0.272

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	473	/-	/-	/231	/-	/82
F	408	/-	/-	/234	/21	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
F Brg Wid = - Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	445	-649	C - D	156	-571

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - F	534	-255

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - F	277	-558

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

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[9]	3X4	S	2.25				

Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	108	0.00	8.96

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

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

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

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817
01/12/2026

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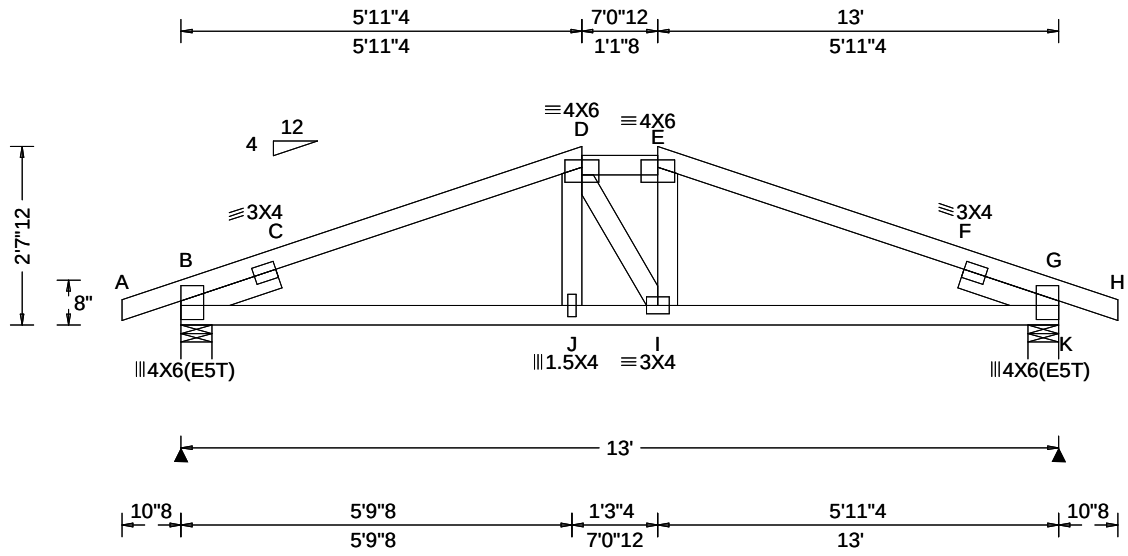
Glenview, IL 60025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 4:05:16

SEQN: 5757 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** A2	Cust: R 9646 JRef:1YGQ96460003 T20 DrwNo: 012.26.1515.32890 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.071	F	999	240
VERT(CL): 0.109	F	999	180
HORZ(LL): 0.027	C	-	-
HORZ(TL): 0.041	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.528
Max BC CSI: 0.448
Max Web CSI: 0.139

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	656	/-	/-	/333	/10	/16
K	656	/-	/-	/333	/10	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
K Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearings B & K Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	377	-1159	E - F	215	-1025
C - D	214	-1027	F - G	381	-1155
D - E	236	-935			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	938	-150	I - G	936	-146
J - I	932	-152			

Lumber

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	5.94	7.06
BC	120	0.00	13.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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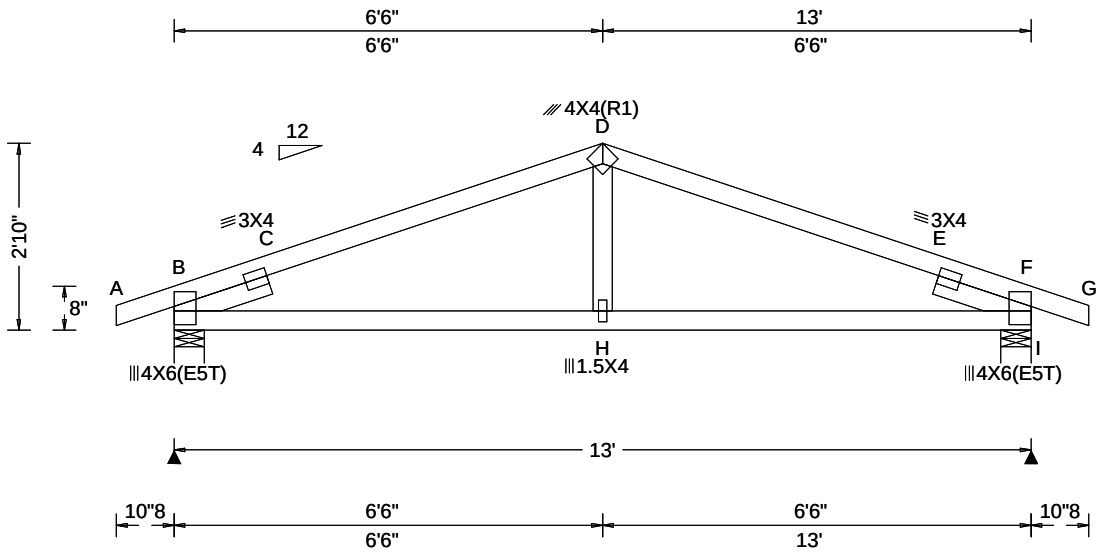
ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5758 COMN FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** A3	Cust: R 9646 JRef:1YGQ96460003 T21 DrwNo: 012.26.1515.34337 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.077	C	999	240
VERT(CL): 0.119	C	999	180
HORZ(LL): 0.030	C	-	-
HORZ(TL): 0.046	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.750
Max BC CSI: 0.539
Max Web CSI: 0.143

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	656	/-	/-	/334	/10	/17
I	656	/-	/-	/334	/10	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
I Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearings B & I Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	387	-1366	D - E	183	-1004
C - D	183	-1004	E - F	387	-1366

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	912	-112	H - F	912	-112

Lumber

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	13.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER

MISSOURI COA #2005000817
01/12/2026

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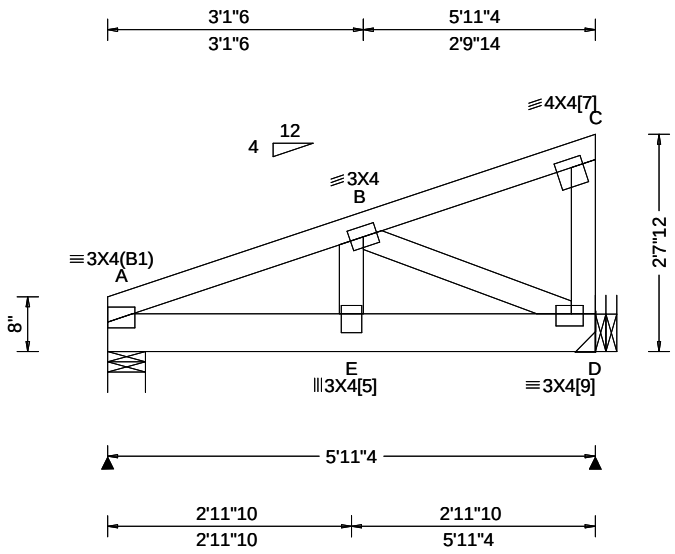
SEQN: 5783 MONO FROM: Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** J6	Cust: R 9646 JRef:1YGQ96460003 T22 DrwNo: 012.26.1517.25800 / BM 01/12/2026	



Loading Criteria (psf)

TCLL: 25.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria

Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf(ASD): NA
Ce: NA Lu: NA
Cs: NA Snow Duration: NA

Building Code:
IRC 2018
Load Std: ASCE 7-16
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	E	999	240
VERT(CL): 0.032	E	999	180
HORZ(LL): -0.005	C	-	-
HORZ(TL): 0.009	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.320
Max BC CSI: 0.593
Max Web CSI: 0.225

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	860	/-	/-	/-	/31	/-
D	805	/-	/-	/-	/29	/-

Wind reactions based on MWFRS
A Brg Wid = 5.5 Min Req = 1.5 (Support)
D Brg Wid = - Min Req = -
Bearing A Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	45	-1303

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	1194	-37	E - D	1137	-39

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - B	752	0	B - D	42	-1241

Lumber

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

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 71 plf at 0.00 to 71 plf at 5.94
BC: From 10 plf at 0.00 to 10 plf at 5.94
BC: 592 lb Conc. Load at 1.94, 3.94

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift		Chord Bite
[5]	3X4	S		2.75	[7]	4X4	1.92	L	1.25
[9]	3X4	1.75	R	1.75					

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	68	0.30	5.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads and reactions based on MWFRS.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER

MISSOURI COA #2005000817
01/12/2026

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Hangers / Ties

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

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

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

Bearing at location x=5'8"4 uses the following support conditions: 5'8"4
Bearing D (5'8"4, 9'1"2) LUS24
Supporting Member: (2)2x6 SP #2
(4) 0.148"x3" nails into supporting member,
(2) 0.148"x3" nails into supported member.

MISSOURI COA #2005000817
01/12/2026

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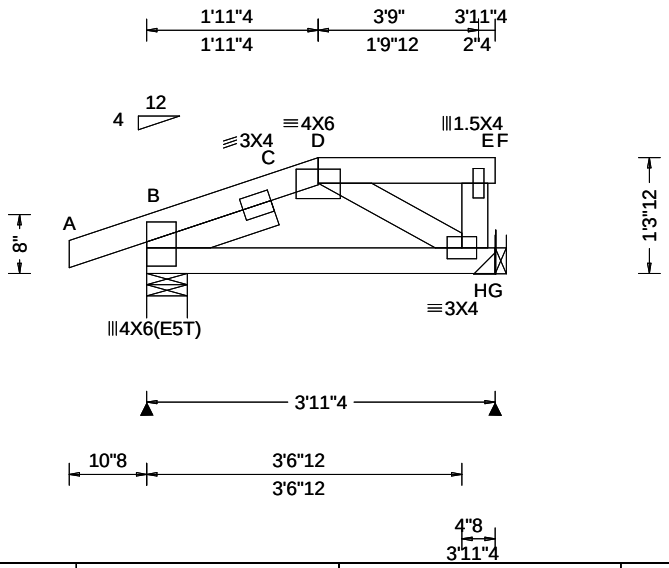
SEQN: 5780 NEJA FROM: Page 1 of 2	Ply: 1 Qty: 2	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** J3	Cust: R 9646 JRef:1YGQ96460003 T23 DrwNo: 012.26.1517.08460 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.003	C	999	240
VERT(CL): 0.006	C	999	180
HORZ(LL): 0.001	C	-	-
HORZ(TL): 0.002	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.100
Max BC CSI: 0.188
Max Web CSI: 0.033

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	291	/-	/-	/-	/17	/-
G	230	/-	/-	/-	/2	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
G Brg Wid = - Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

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

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	71 plf at	-0.88 to	71 plf at	3.94
BC: From	20 plf at	0.00 to	20 plf at	3.94
TC:	71 lb Conc. Load at	1.95		
BC:	23 lb Conc. Load at	1.95		

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	1.94	3.94
BC	47	0.00	3.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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

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

Bearing at location x=3'8"4 ,y=9'1"2 uses the following support conditions: 3'8"4
Bearing H (3'8"4, 9'1"2) LUS24
Supporting Member: (1)2x4 SP #2
(4) 0.148"x3" nails into supporting member,
(2) 0.148"x3" nails into supported member.

MISSOURI COA #2005000817
01/12/2026

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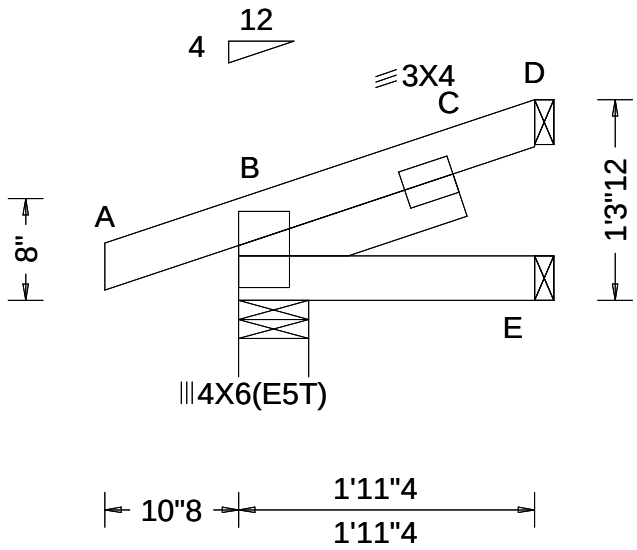
SEQN: 5781 JACK FROM:	Ply: 1 Qty: 4	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** J4	Cust: R 9646 JRef:1YGQ96460003 T24 DrwNo: 012.26.1517.11237 / BM 01/12/2026



Loading Criteria (psf)
TCLL: 25.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): NA			
VERT(CL): NA			
HORZ(LL): 0.001	C	-	-
HORZ(TL): 0.002	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.100
Max BC CSI: 0.024
Max Web CSI: 0.008

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	170	/-	/-	/65	/-	/21
E	20	/-	/-	/19	/-	/-
D	68	/-2	/-	/31	/16	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

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

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	23	0.00	1.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817
01/12/2026

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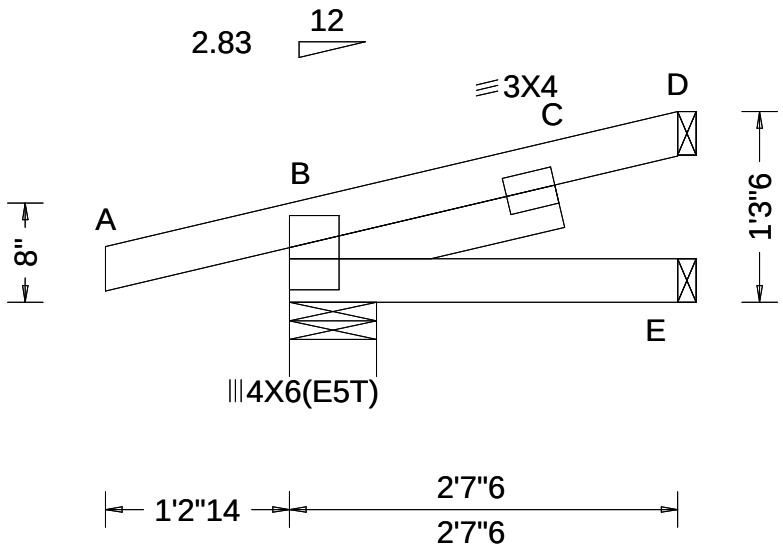
SEQN: 5779 HIP_ FROM:	Ply: 1 Qty: 3	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** J1	Cust: R 9646 JRef:1YGQ96460003 T25 DrwNo: 012.26.1516.58427 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	NA		
VERT(CL):	NA		
HORZ(LL):	-0.000 C	-	-
HORZ(TL):	0.000 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.039
Max BC CSI: 0.004
Max Web CSI: 0.003

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	56	/-	/-	/-	/7	/-
E	2	/-	/-	/2	/-	/-
D	3	/-4	/-	/3	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 7.0 Min Req = 1.5 (Support)
E Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.853'

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	31	0.00	2.62

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Additional Notes
Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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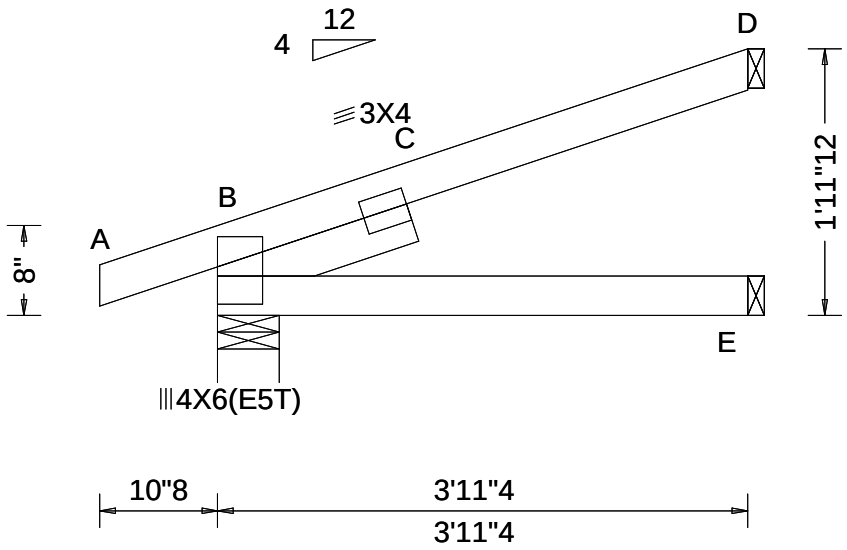
ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5786 EJAC FROM:	Ply: 1 Qty: 4	**Job Number:** PM000129 Sienna Farmhouse Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** LAY1	Cust: R 9646 JRef:1YGQ96460003 T26 DrwNo: 012.26.1517.48677 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	NA		
VERT(CL):	NA		
HORZ(LL):	0.013 C	-	-
HORZ(TL):	0.020 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.322
Max BC CSI: 0.157
Max Web CSI: 0.077

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	248	/-	/-	/111	/-	/38
E	47	/-	/-	/41	/-	/-
D	132	/-	/-	/62	/29	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	333	-398

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

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	47	0.00	3.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817
01/12/2026

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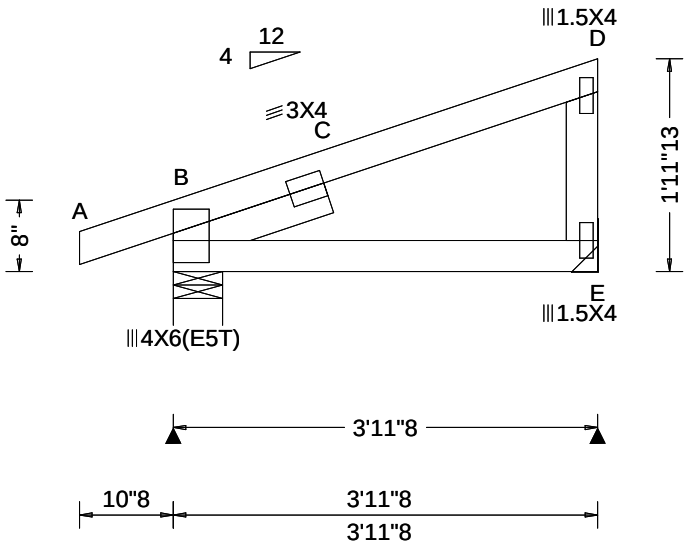
ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5769 MONO FROM:	Ply: 1 Qty: 5	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** D2	Cust: R 9646 JRef:1YGQ96460003 T27 DrwNo: 012.26.1515.51217 / BM 01/12/2026



Loading Criteria (psf)
TCLL: 25.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): NA			
VERT(CL): NA			
HORZ(LL): 0.012	C	-	-
HORZ(TL): 0.019	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.302
Max BC CSI: 0.145
Max Web CSI: 0.075

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	249	/-	/-	/112	/-	/38
E	180	/-	/-	/103	/11	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = - Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	317	-390

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

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	48	0.00	3.96

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

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

Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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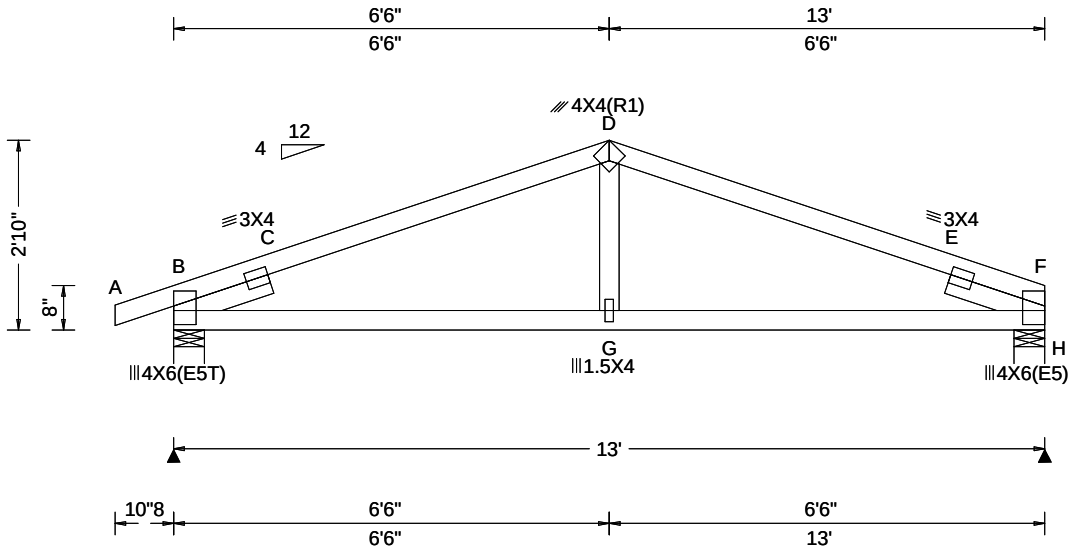
ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5759 COMN FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** A4	Cust: R 9646 JRef:1YGQ96460003 T28 DrwNo: 012.26.1515.35707 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.077	E	999	240
VERT(CL): 0.119	E	999	180
HORZ(LL): 0.030	C	-	-
HORZ(TL): 0.046	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.750
Max BC CSI: 0.539
Max Web CSI: 0.143

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	656	/-	/-	/334	/10	/21
H	592	/-	/-	/317	/8	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
H Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearings B & H Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	387	- 1368	D - E	185	- 1004
C - D	184	- 1004	E - F	401	- 1356

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	912	- 127	G - F	912	- 127

Lumber

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	13.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER

MISSOURI COA #2005000817
01/12/2026

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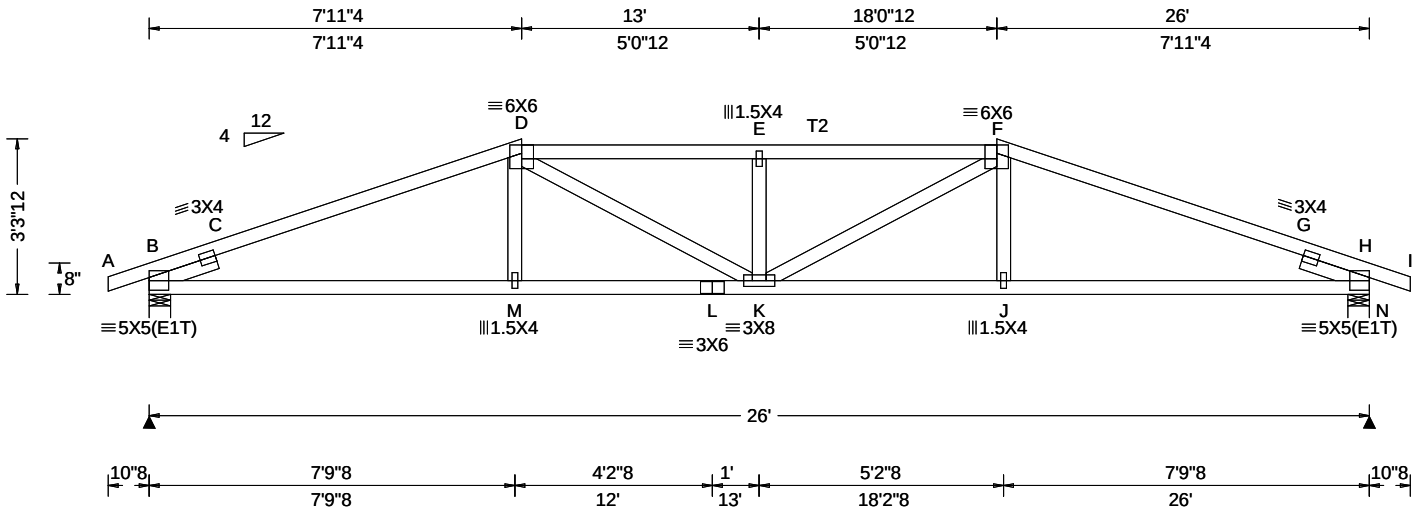
ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 4:05:16

SEQN: 5762 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** B2		Cust: R 9646 JRef:1YGQ96460003 T29 DrwNo: 012.26.1515.40773 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.158	E	999	249
VERT(CL): 0.290	E	999	249
HORZ(LL): 0.049	H	-	-
HORZ(TL): 0.090	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.877
Max Web CSI: 0.253

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1247	/-	/-	/646	/-	/21
N	1247	/-	/-	/646	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.6 (Support)
N Brg Wid = 5.5 Min Req = 1.6 (Support)
Bearings B & N Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	627	- 2601	E - F	544	- 2689
C - D	436	- 2535	F - G	436	- 2535
D - E	545	- 2689	G - H	626	- 2601

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - M	2344	- 350	K - J	2336	- 352
M - L	2336	- 354	J - H	2344	- 349
L - K	2336	- 354			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - K	412	- 159	K - F	412	- 159

Lumber

Top chord: 2x4 SP 2400f-2.0E; T2 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'
Rt Slider: 2x4 SP #2; block length = 1.500'

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	7.94	18.06
BC	120	0.00	26.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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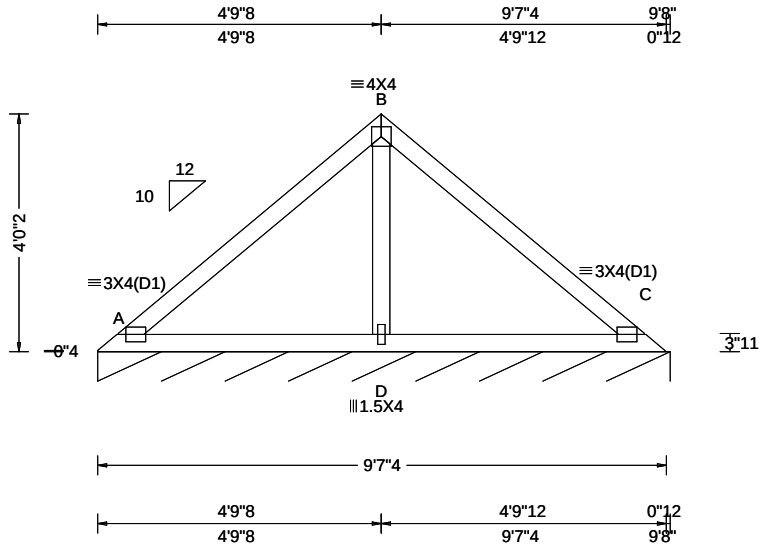
ALPINE
An ITW Company
165 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 4:05:16

SEQN: 5789 VAL FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** V4	Cust: R 9646 JRef:1YGQ96460003 T3 DrwNo: 012.26.1518.16890 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 21.76 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.013	C	999	240
VERT(CL): 0.024	C	999	180
HORZ(LL): -0.008	C	-	-
HORZ(TL): 0.014	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.412
Max BC CSI: 0.677
Max Web CSI: 0.147

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	95	/-	/-	/52	/3	/6

Wind reactions based on MWFRS
C Brg Wid = 115 Min Req = -
Bearing A Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - D	194	-602

Lumber

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	115	0.00	9.60

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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 VAL180160118 for valley details.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER

MISSOURI COA #2005000817
01/12/2026

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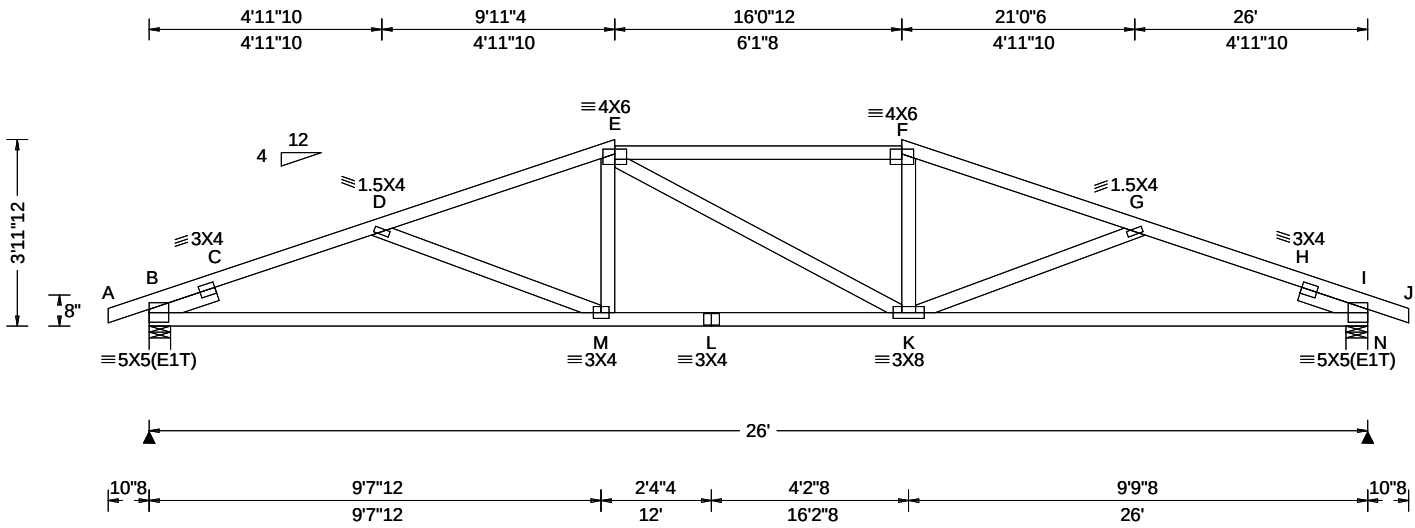
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 4:05:17

SEQN: 5763 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** B3	Cust: R 9646 JRef:1YGQ96460003 T30 DrwNo: 012.26.1515.42410 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.146	E	999	249
VERT(CL): 0.261	E	999	249
HORZ(LL): 0.051	I	-	-
HORZ(TL): 0.091	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.657
Max BC CSI: 0.928
Max Web CSI: 0.183

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1247	/-	/-	/648	/-	/27
N	1247	/-	/-	/648	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.6 (Support)
N Brg Wid = 5.5 Min Req = 1.6 (Support)
Bearings B & N Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	569	- 2660	F - G	344	- 2253
C - D	400	- 2608	G - H	401	- 2608
D - E	344	- 2260	H - I	579	- 2659
E - F	353	- 2086			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - M	2430	- 332	L - K	2082	- 241
M - L	2082	- 241	K - I	2430	- 331

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

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	9.94	16.06
BC	120	0.00	26.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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.

Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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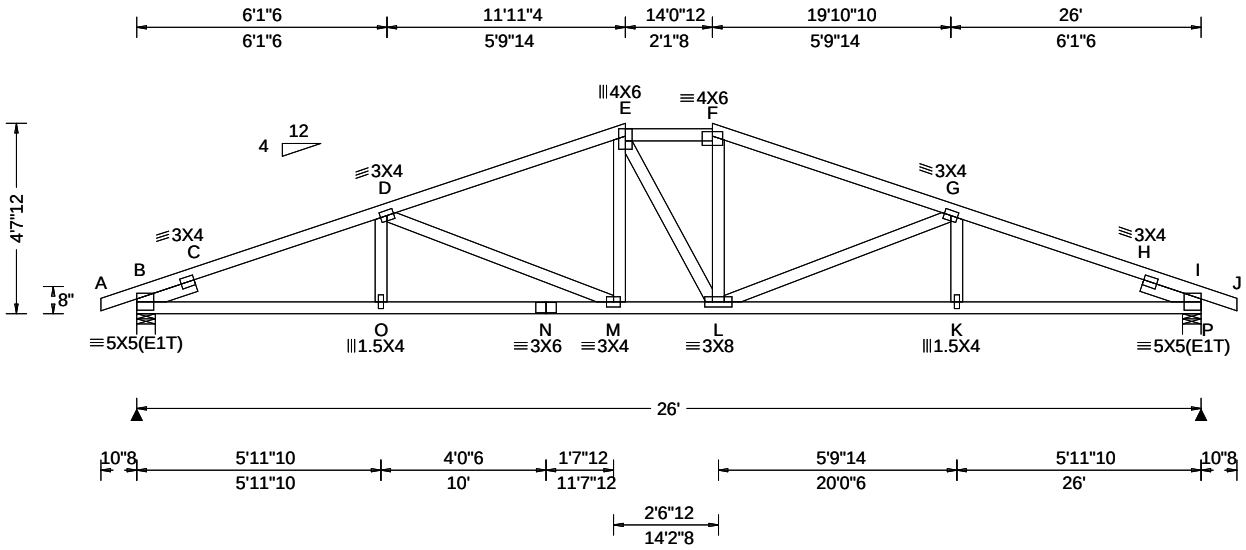
SEQN: 5764 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** B4		Cust: R 9646 JRef:1YGQ96460003 T31 DrwNo: 012.26.1515.44140 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.139	M	999	249
VERT(CL): 0.256	M	999	249
HORZ(LL): 0.049	I	-	-
HORZ(TL): 0.089	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.653
Max BC CSI: 0.726
Max Web CSI: 0.425

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1247	/-	/-	/651	/-	/33
P	1247	/-	/-	/651	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.6 (Support)
P Brg Wid = 5.5 Min Req = 1.6 (Support)
Bearings B & P Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	306	- 2663	F - G	253	- 1992
C - D	261	- 2598	G - H	261	- 2598
D - E	254	- 2001	H - I	305	- 2663
E - F	263	- 1819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	2412	- 200	M - L	1816	- 128
O - N	2408	- 202	L - K	2407	- 201
N - M	2408	- 202	K - I	2412	- 198

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - M	81	- 620	L - G	81	- 626

Lumber

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	11.94	14.06
BC	120	0.00	26.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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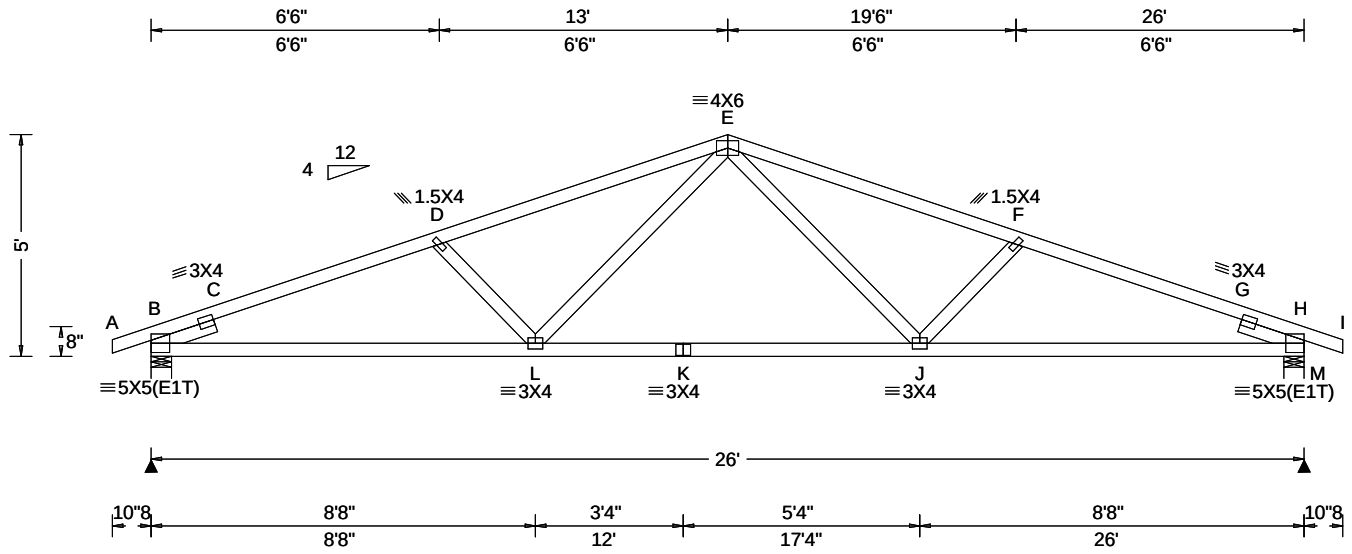
02/12/2026 4:05:17

SEQN: 5765 COMN FROM:	Ply: 1 Qty: 8	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** B5	Cust: R 9646 JRef:1YGQ96460003 T32 DrwNo: 012.26.1515.45833 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.139	E	999	249
VERT(CL): 0.252	E	999	249
HORZ(LL): 0.046	H	-	-
HORZ(TL): 0.083	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.775
Max BC CSI: 0.875
Max Web CSI: 0.159

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1247	/-	/-	/652	/-	/36
M	1247	/-	/-	/652	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.6 (Support)
M Brg Wid = 5.5 Min Req = 1.6 (Support)
Bearings B & M Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	418	- 2650	E - F	214	- 2299
C - D	244	- 2587	F - G	244	- 2587
D - E	214	- 2299	G - H	418	- 2650

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	2402	- 180	K - J	1671	- 81
L - K	1671	- 81	J - H	2401	- 179

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - L	147	- 440	E - J	648	- 1
L - E	648	- 1	J - F	147	- 440

Lumber

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	26.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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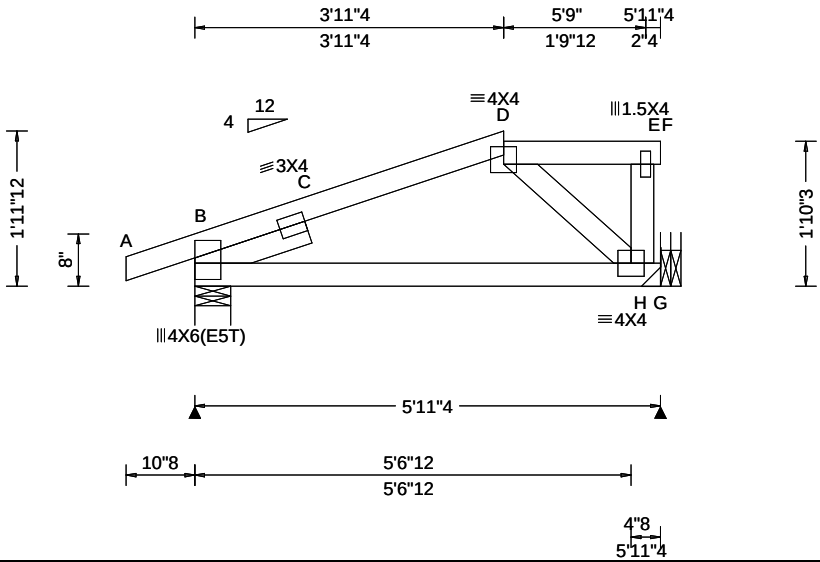
SEQN: 5785 MHJA FROM: Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** J8	Cust: R 9646 JRef:1YGQ96460003 T33 DrwNo: 012.26.1517.29330 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.030	C	999	240
VERT(CL): 0.050	C	999	180
HORZ(LL): 0.012	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.345
Max BC CSI: 0.249
Max Web CSI: 0.109

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	333	/-	/-	/158	/0	/38
G	274	/-	/-	/150	/10	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
G Brg Wid = - Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Lumber

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	3.94	5.94
BC	71	0.00	5.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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Hangers / Ties

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

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

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

Bearing at location x=5'8"4 uses the following support conditions: 5'8"4
Bearing H (5'8"4, 9'1"2) LUS24
Supporting Member: (2)2x6 SP 2400f-2.0E
(4) 0.148"x3" nails into supporting member,
(2) 0.148"x3" nails into supported member.

MISSOURI COA #2005000817
01/12/2026

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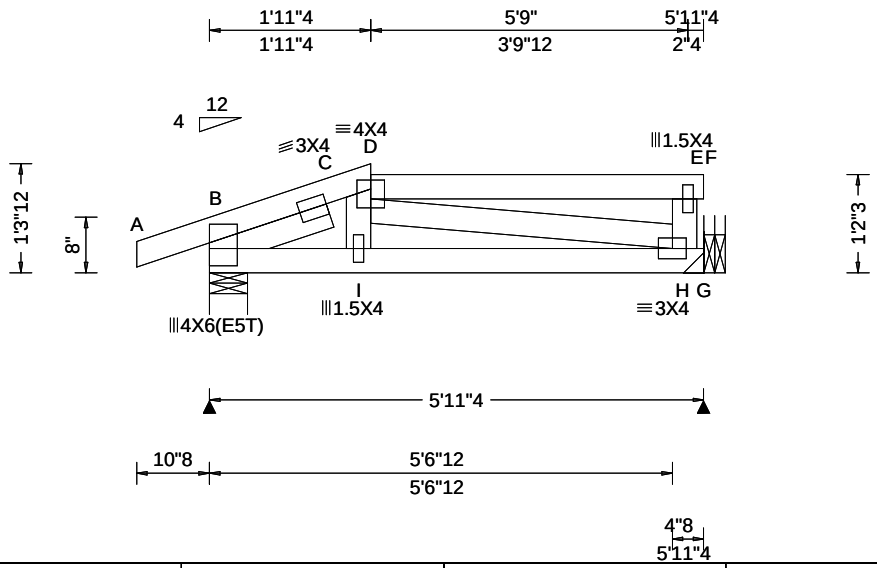
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5784 NEJA FROM: Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** J7	Cust: R 9646 JRef:1YGQ96460003 T34 DrwNo: 012.26.1517.27723 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.006	C	999	240
VERT(CL): 0.011	D	999	180
HORZ(LL): 0.002	C	-	-
HORZ(TL): 0.003	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.364
Max BC CSI: 0.206
Max Web CSI: 0.112

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	348	/-	/-	/-	/29	/-
G	240	/-	/-	/-	/8	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
G Brg Wid = - Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	3	-477	C - D	0	-442

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	419	0	I - H	412	-5

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - H	3	-398

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

Additional Notes
Top Chord overhang(s) may be field trimmed.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	71 plf at	-0.88 to	71 plf at	1.94
TC: From	36 plf at	1.94 to	36 plf at	5.94
BC: From	10 plf at	0.00 to	10 plf at	5.94
TC:	71 lb Conc. Load at	1.95		
TC:	68 lb Conc. Load at	4.00		
BC:	23 lb Conc. Load at	1.95		
BC:	20 lb Conc. Load at	4.00		

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	1.94	5.94
BC	71	0.00	5.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Snow
Overhang designed for 2.00X TC LL.

MISSOURI COA #2005000817
01/12/2026

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Hangers / Ties

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

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

Bearing at location x=5'8"4 uses the following support conditions: 5'8"4
Bearing H (5'8"4, 9'1"2) LUS24
Supporting Member: (2)2x6 SP 2400f-2.0E
(4) 0.148"x3" nails into supporting member,
(2) 0.148"x3" nails into supported member.

MISSOURI COA #2005000817
01/12/2026

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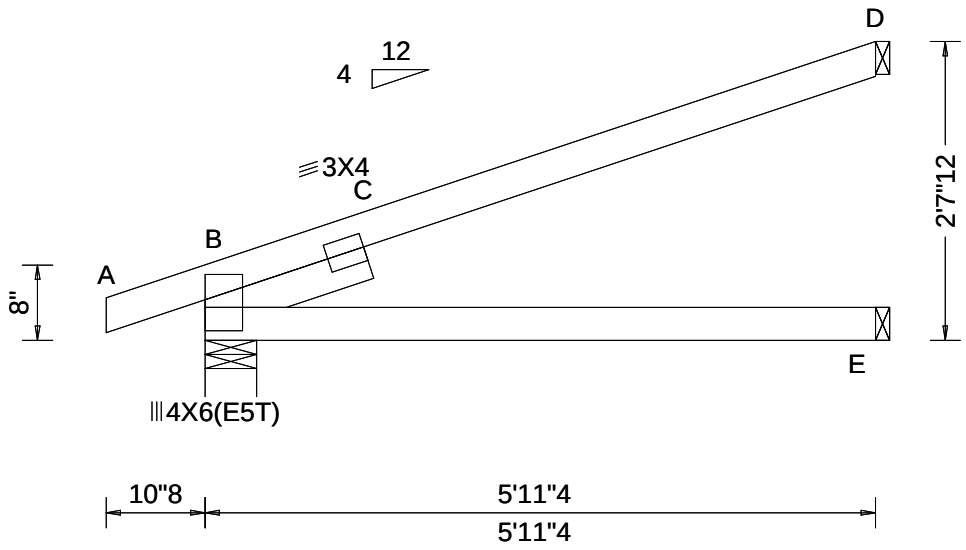
SEQN: 5782 EJAC FROM:	Ply: 1 Qty: 4	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** J5	Cust: R 9646 JRef:1YGQ96460003 T35 DrwNo: 012.26.1517.19407 / BM 01/12/2026



Loading Criteria (psf)
TCLL: 25.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): NA			
VERT(CL): NA			
HORZ(LL): 0.042	C	-	-
HORZ(TL): 0.066	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.752
Max BC CSI: 0.425
Max Web CSI: 0.195

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	337	/-	/-	/159	/-	/56
E	74	/-	/-	/63	/-	/-
D	196	/-	/-	/92	/42	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	920	-1032

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

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	71	0.00	5.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817
01/12/2026

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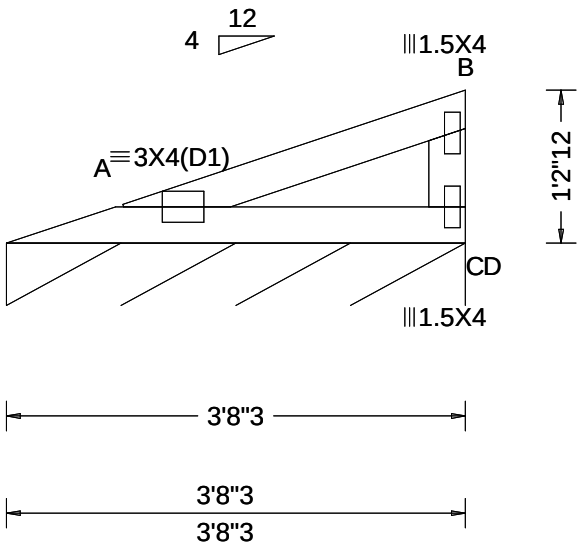
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5788 VAL FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** V1	Cust: R 9646 JRef:1YGQ96460003 T36 DrwNo: 012.26.1518.14240 / BM 01/12/2026



Loading Criteria (psf)
TCLL: 25.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): NA			
VERT(CL): NA			
HORZ(LL): 0.002	A	-	-
HORZ(TL): 0.004	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.175
Max BC CSI: 0.160
Max Web CSI: 0.021

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	91	/-	/-	/43	/-	/7

Wind reactions based on MWFRS
D Brg Wid = 44.2 Min Req = -
Bearing A Fcperp = 425psi.
Members not listed have forces less than 375#

Lumber

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	44	0.00	3.68

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Right end vertical exposed to wind pressure. Deflection does not meet L/180.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWG VAL180160118 for valley details.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER

MISSOURI COA #2005000817
01/12/2026

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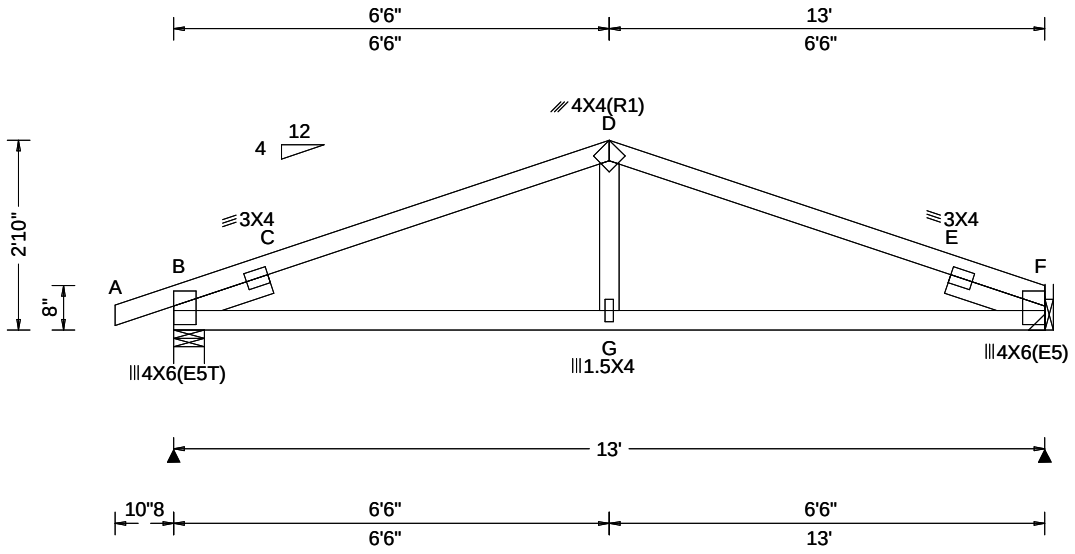
Glenview, IL 60025

SEQN: 5760 COMN FROM: Page 1 of 2	Ply: 1 Qty: 2	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** A5	Cust: R 9646 JRef:1YGQ96460003 T37 DrwNo: 012.26.1515.37377 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.077	E	999	240
VERT(CL): 0.119	E	999	180
HORZ(LL): 0.030	C	-	-
HORZ(TL): 0.046	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.750
Max BC CSI: 0.539
Max Web CSI: 0.143

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	656	/-	/-	/334	/10	/21
F	592	/-	/-	/317	/8	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
F Brg Wid = - Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	387	- 1368	D - E	185	- 1004
C - D	184	- 1004	E - F	401	- 1356

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	912	- 127	G - F	912	- 127

Lumber

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	13.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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

Bearing at location x=12'9" uses the following support conditions: 12'9"
Bearing F (12'9", 9'1"2) LUS24
Supporting Member: (1)2x6 SP #2
(4) 0.148"x3" nails into supporting member,
(2) 0.148"x3" nails into supported member.

MISSOURI COA #2005000817
01/12/2026

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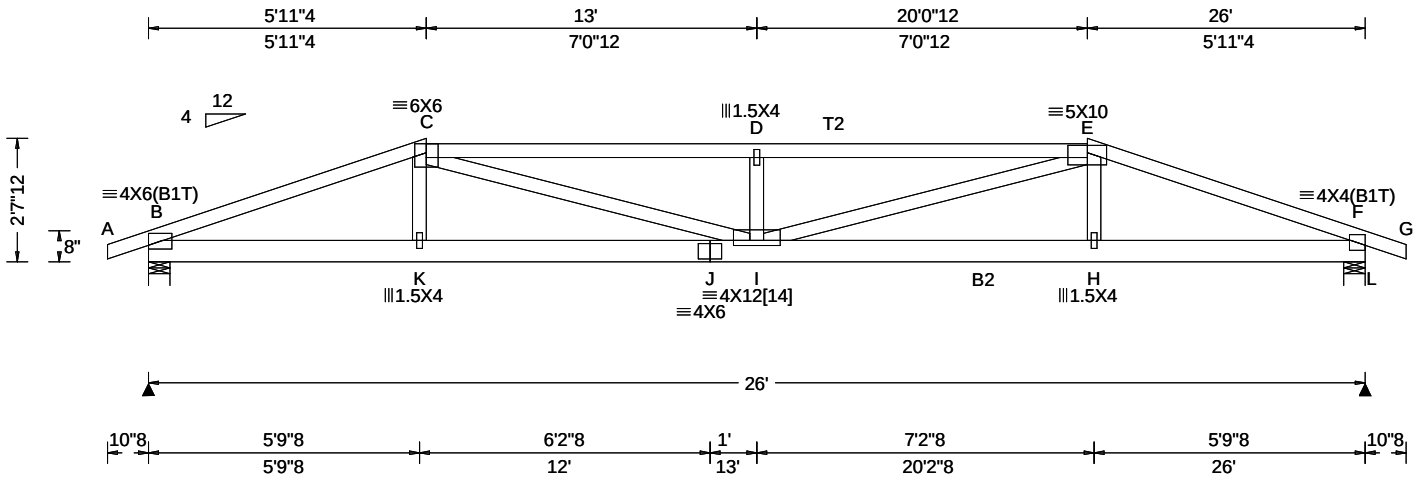
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5761 HIPS FROM:	Ply: 2 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** B1	Cust: R 9646 JRef:1YGQ96460003 T38 DrwNo: 012.26.1515.39097 / BM 01/12/2026	

2 Complete Trusses Required



Loading Criteria (psf)

TCLL: 25.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria

Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 15.00 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf(ASD): NA
Ce: NA Lu: NA
Cs: NA Snow Duration: NA

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.253	D	999	246
VERT(CL): 0.459	D	672	246
HORZ(LL): 0.034	F	-	-
HORZ(TL): 0.062	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.698
Max BC CSI: 0.816
Max Web CSI: 0.473

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2371	/-	/-	/-	/93	/-
L	1932	/-	/-	/-	/65	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.7 (Support)
L Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearings B & L Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	92	- 2664	D - E	135	- 3883
C - D	135	- 3884	E - F	66	- 2190

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2514	- 86	I - H	2048	- 60
K - J	2507	- 89	H - F	2045	- 57
J - I	2507	- 89			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - I	1446	- 47	I - E	1927	- 78
D - I	82	- 466			

Lumber

Top chord: 2x4 SP #2; T2 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E; B2 2x6 SP #2;
Webs: 2x4 SP #2;

Nailnote

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

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	71 plf at	-0.88 to	71 plf at	0.00
TC: From	36 plf at	0.00 to	36 plf at	12.94
TC: From	71 plf at	12.94 to	71 plf at	26.88
BC: From	10 plf at	0.00 to	10 plf at	12.94
BC: From	20 plf at	12.94 to	20 plf at	26.00

TC: 196 lb Conc. Load at 6.00, 8.00,10.00,12.00
BC: 240 lb Conc. Load at 2.00
BC: 274 lb Conc. Load at 4.00
BC: 74 lb Conc. Load at 6.00, 8.00,10.00,12.00
BC: 805 lb Conc. Load at 12.94

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[14]	4X12	S	1.25				

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	5.94	20.06
BC	120	0.30	25.70

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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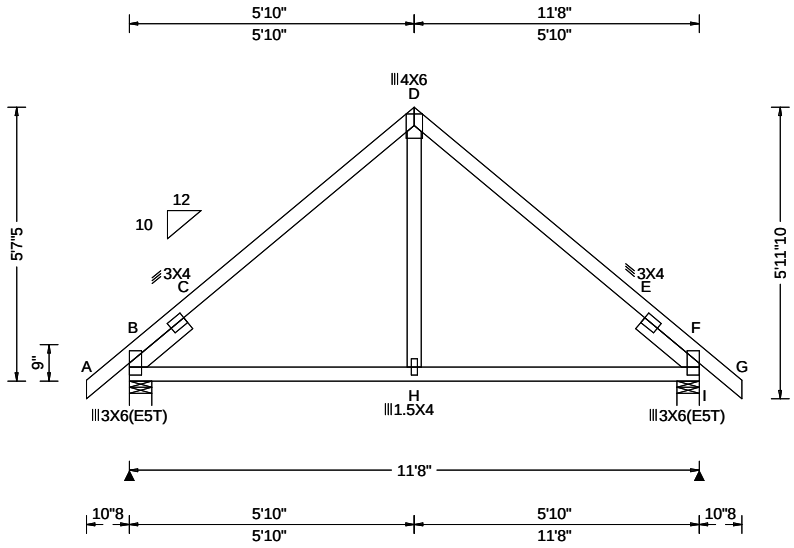
Glenview, IL 60025

SEQN: 5777 COMN FROM:	Ply: 1 Qty: 2	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** G2	Cust: R 9646 JRef:1YGQ96460003 T4 DrwNo: 012.26.1516.46767 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 20.90 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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	E	999	240
VERT(CL): 0.082	E	999	180
HORZ(LL): 0.046	C	-	-
HORZ(TL): 0.075	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.685
Max BC CSI: 0.405
Max Web CSI: 0.165

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	629	/-	/-	/342	/24	/82
I	629	/-	/-	/342	/24	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
I Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearings B & I Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	678	-1063	D - E	149	-574
C - D	150	-574	E - F	676	-1062

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	378	0	H - F	378	0

Lumber

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	11.67

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER

MISSOURI COA #2005000817
01/12/2026

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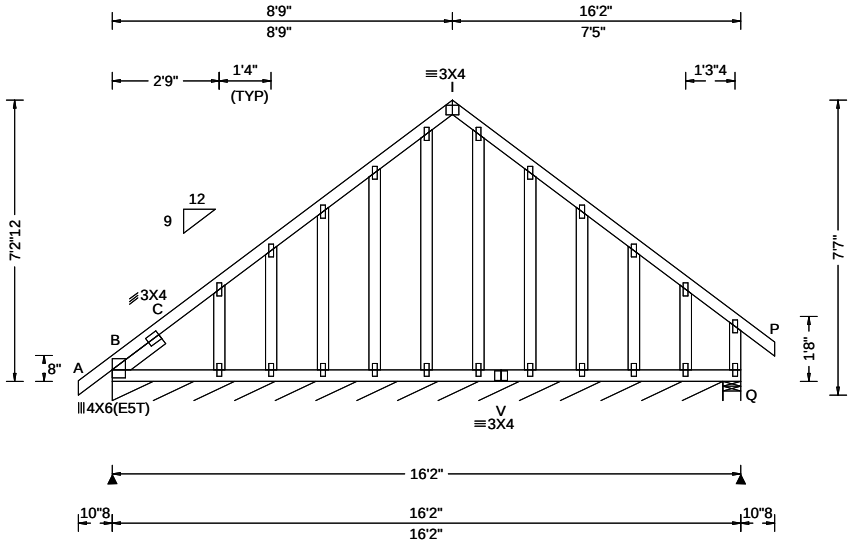
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 4:05:17

SEQN: 5771 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** E1	Cust: R 9646 JRef:1YGQ96460003 T41 DrwNo: 012.26.1516.14750 / BM 01/12/2026	



Loading Criteria (psf)
TCLL: 25.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 21.70 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.006	C	999	240
VERT(CL): 0.015	I	999	180
HORZ(LL): 0.005	C	-	-
HORZ(TL): 0.032	O	-	-

Creep Factor: 2.0
Max TC CSI: 0.199
Max BC CSI: 0.052
Max Web CSI: 0.196

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	129	/-	/-	/69	/9	/14
Q	210	/-	/-	/99	/53	/-

Wind reactions based on MWFRS
B Brg Wid = 188 Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearings B & Q Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - I	474	-225	I - P	472	-196

Lumber

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

Plating Notes

All plates are 1.5X4 except as noted.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	16.17

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 3.00 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.

Right end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

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

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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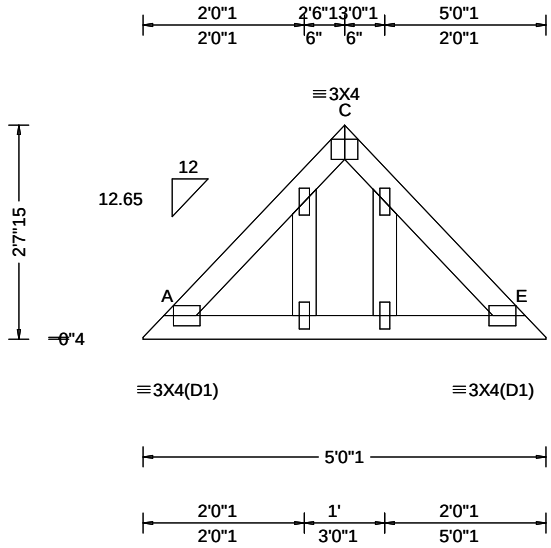
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5792 HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** LAY1	Cust: R 9646 JRef:1YGQ96460003 T5 DrwNo: 012.26.1517.57490 / BM 01/12/2026



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 5.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 35.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: I Enclosure: Part. Enc. EXP: C Kzt: NA TCDL: 3.0 psf BCDL: 6.0 psf Mean Height: 0.00 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.55 Wind Duration: 0.00	Pg: 25.0 Ct: - CAT: - Pf(ASD): 16.8 Ce: - Lu: - Cs: - Snow Duration: - Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 - - 240 VERT(CL): 0.000 E 999 180 HORZ(LL): 0.000 - - - HORZ(TL): 0.000 E - - Creep Factor: 2.0 Max TC CSI: 0.001 Max BC CSI: 0.001 Max Web CSI: 0.000 VIEW Ver: 25.02.00B.1125.14

Lumber

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

Plating Notes

All plates are 1.5X4 except as noted.

Additional Notes

This "Hip Frame" may be used in place of purlins on the hip plane to brace the flat top chord of hip trusses. See detail drawing HIPFRAME0623, HIPFR18000623, or HIPFRSCAB0623 for additional information.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER

MISSOURI COA #2005000817
01/12/2026

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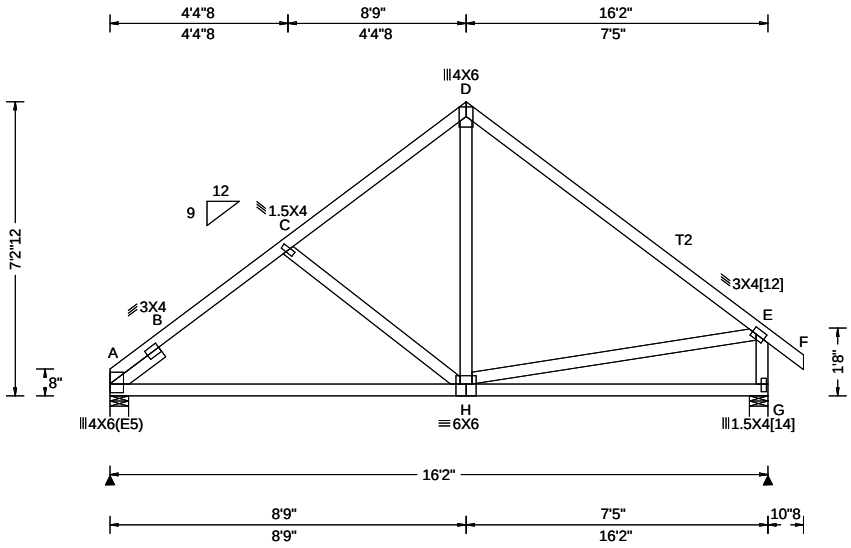
Glenview, IL 60025

SEQN: 5773 COMN FROM:	Ply: 1 Qty: 2	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** E2	Cust: R 9646 JRef:1YGQ96460003 T6 DrwNo: 012.26.1516.21580 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 22.03 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.032	B	999	240
VERT(CL): 0.065	B	999	180
HORZ(LL): 0.025	B	-	-
HORZ(TL): 0.050	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.574
Max BC CSI: 0.603
Max Web CSI: 0.188

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	768	/-	/-	/450	/43	/126
G	835	/-	/-	/454	/47	/-

Wind reactions based on MWFRS
A Brg Wid = 5.5 Min Req = 1.5 (Support)
G Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearings A & G Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	442	-1028	C - D	199	-712
B - C	197	-914	D - E	163	-786

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - H	696	-100

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - E	447	0	E - G	185	-779

Lumber

Top chord: 2x4 SP #2; T2 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[12]	3X4	2.75 R	1.75	[14]	1.5X4	S	2.25

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	16.17

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

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

Wind

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

Right end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER

MISSOURI COA #2005000817
01/12/2026

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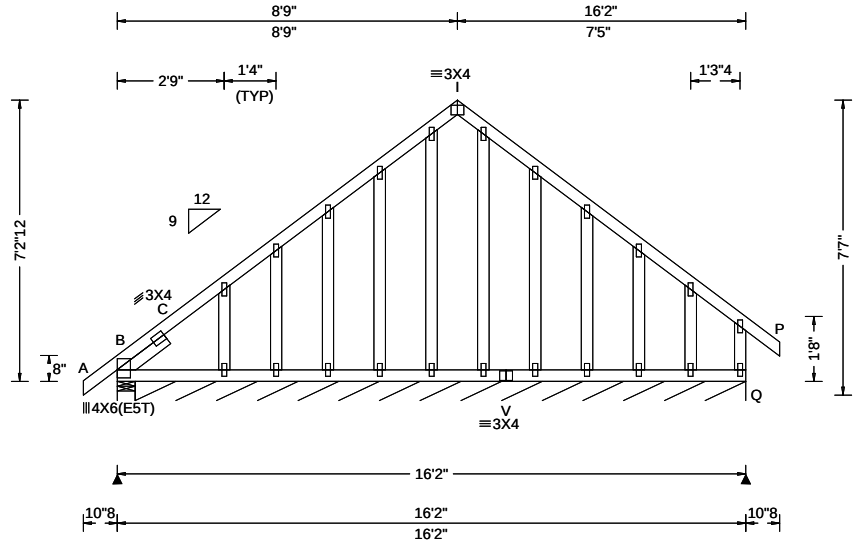
Glenview, IL 60025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 4:05:17

SEQN: 5772 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** E1	Cust: R 9646 JRef:1YGQ96460003 T7 DrwNo: 012.26.1516.18317 / BM 01/12/2026	



Loading Criteria (psf)
TCLL: 25.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 21.70 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.006	C	999	240
VERT(CL): 0.015	I	999	180
HORZ(LL): 0.005	C	-	-
HORZ(TL): 0.032	O	-	-

Creep Factor: 2.0
Max TC CSI: 0.199
Max BC CSI: 0.052
Max Web CSI: 0.196

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	254	/-	/-	/209	/90	/220
Q*	126	/-	/-	/72	/10	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
Q Brg Wid = 188 Min Req = -
Bearings B & B Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - I	474	-225	I - P	472	-196

Lumber

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

Plating Notes

All plates are 1.5X4 except as noted.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	16.17

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 3.00 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.

Right end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

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

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
01/12/2026

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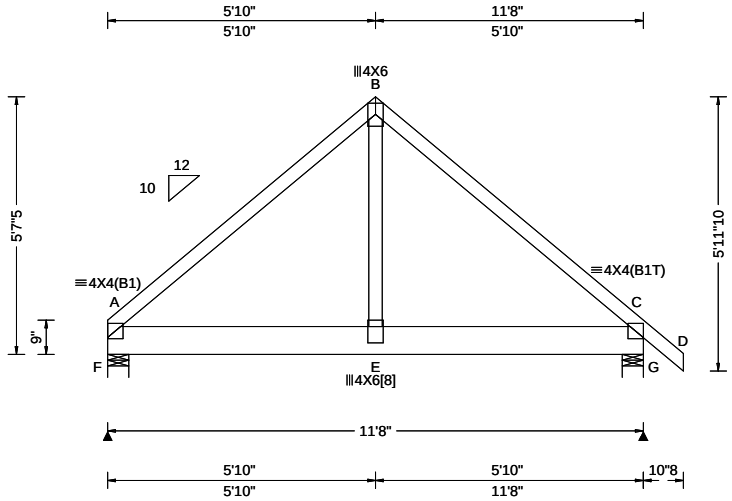
North Building, 4th Floor
Glenview, IL 60025

SEQN: 5778 COMN FROM:	Ply: 2 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** G3	Cust: R 9646 JRef:1YGQ96460003 T8 DrwNo: 012.26.1516.49417 / BM 01/12/2026

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 25.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 20.90 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
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): 0.019	E	999	240
VERT(CL): 0.034	E	999	180
HORZ(LL): 0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.264
Max BC CSI: 0.323
Max Web CSI: 0.299

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	2478	/-	/-	/-	/169	/-
G	2435	/-	/-	/-	/178	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.7 (Support)
G Brg Wid = 5.5 Min Req = 1.7 (Support)
Bearings F & G Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	89	-1188	B - C	89	-1188

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	859	-58	E - C	859	-58

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - E	1219	-49

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

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 76 plf at 0.00 to 76 plf at 12.54
BC: From 10 plf at 0.00 to 10 plf at 11.67
BC: 768 lb Conc. Load at 1.67, 3.67, 5.67, 7.67 9.67

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[8]	4X6	S	4.25				

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.28	11.39

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER

MISSOURI COA #2005000817
01/12/2026

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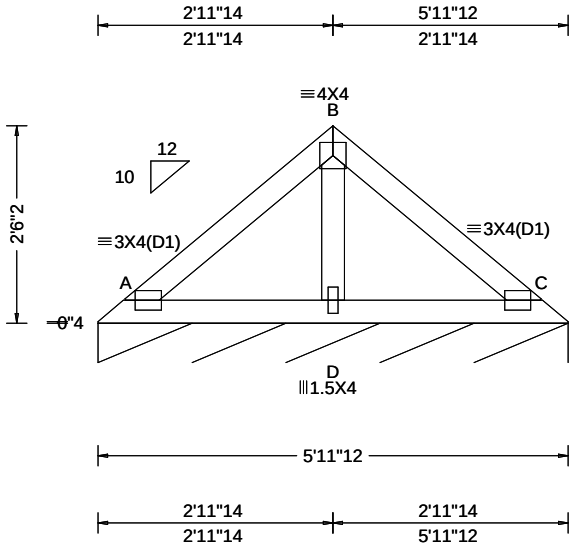
North Building, 4th Floor
Glenview, IL 60025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 4:05:18

SEQN: 5790 VAL FROM:	Ply: 1 Qty: 1	**Job Number:** PM000129 Customer - Clayton Properties Plan Name - Sienna Elevation - Farmhouse **Truss Label:** V5	Cust: R 9646 JRef:1YGQ96460003 T9 DrwNo: 012.26.1518.19463 / BM 01/12/2026



Loading Criteria (psf)

TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Speed: 115 mph
Risk Category: II
Enclosure: Part. Enc.
EXP: B Kzt: NA
TCDL: 6.0 psf
BCDL: 6.0 psf
Mean Height: 22.51 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.55
Wind Duration: 1.60

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

Building Code:
IRC 2018
Load Std: ASCE 7-16
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	C	999	240
VERT(CL): 0.005	C	999	180
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.003	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.136
Max BC CSI: 0.102
Max Web CSI: 0.038

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	95	/-	/-	/51	/2	/6

Wind reactions based on MWFRS
C Brg Wid = 71.7 Min Req = -
Bearing A Fcperp = 425psi.
Members not listed have forces less than 375#

Lumber

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	72	0.00	5.98

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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 VAL180160118 for valley details.

MISSOURI COA #2005000817
01/12/2026

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Glenview, IL 60025

Gable Stud Reinforcement Detail

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

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

Max Gable Vertical Length

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

Bracing Group Species and Grades:

Group A:

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

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

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

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

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

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

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

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

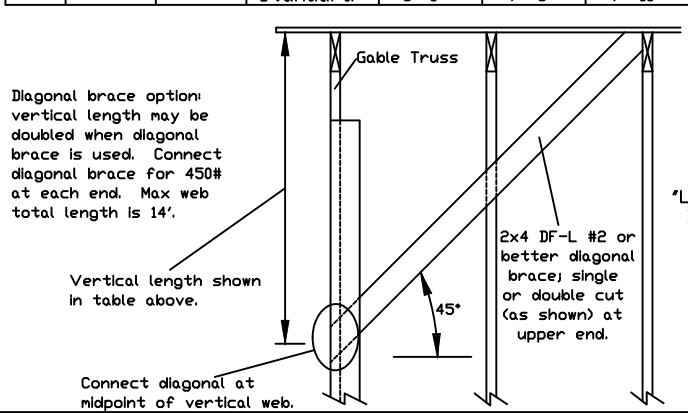
"L" bracing must be a minimum of 80% of web member length.

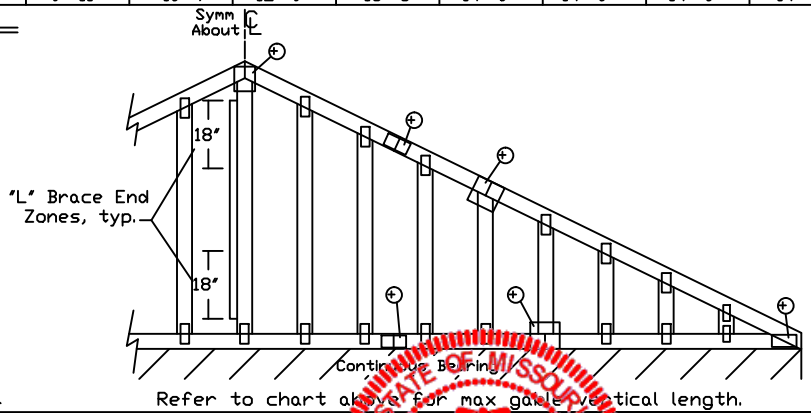
Gable Vertical Plate Sizes

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

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

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





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.sbcacomponents.com; ICC: www.iccsafe.org

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

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817

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

MAX. TOT. LD. 60 PSF
01/12/2026
MAX. SPACING 24.0"

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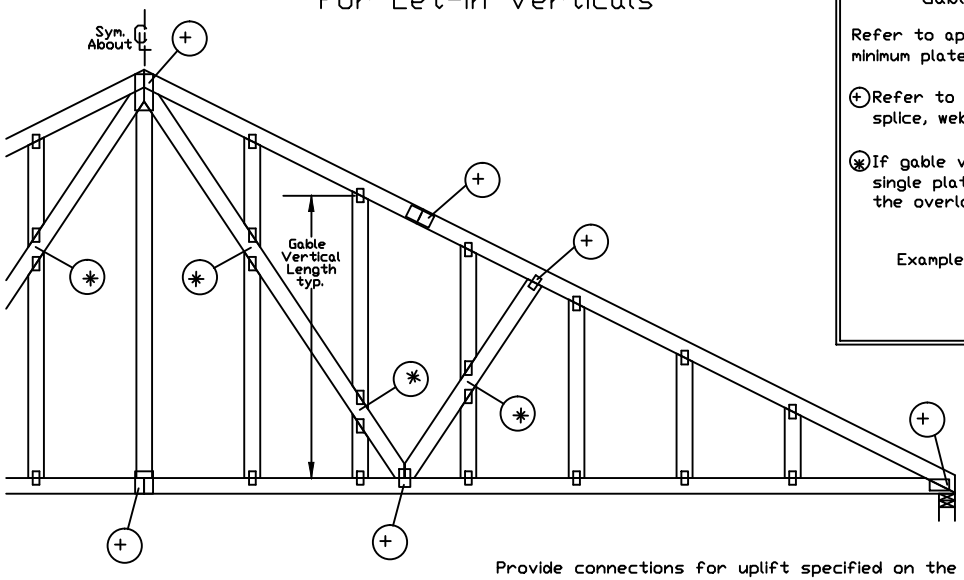
Gable Detail
For Let-in Verticals



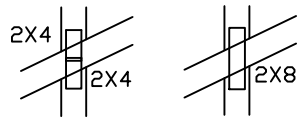
Gable Truss Plate Sizes

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

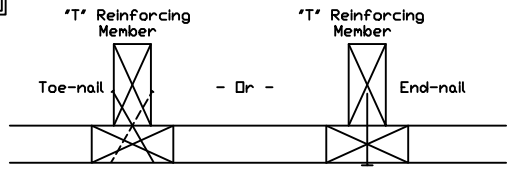
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

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

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

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

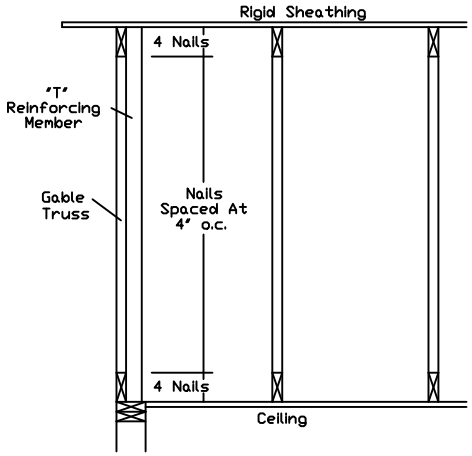
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

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

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

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

See appropriate Alpine gable detail for maximum allowable 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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BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817

01/12/2026

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

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

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Gable Stud Reinforcement Detail

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

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

Max Gable Vertical Length

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

Bracing Group Species and Grades:

Group A:

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

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

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

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

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

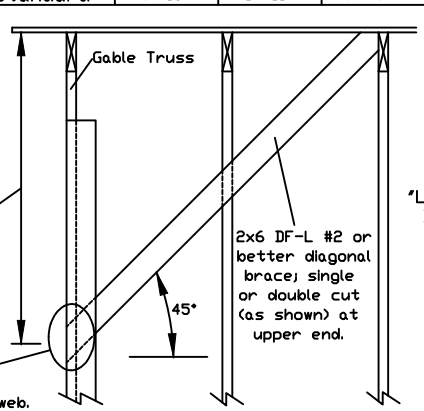
Attach "L" braces with 10d (0.128"x3.0" min) nails.

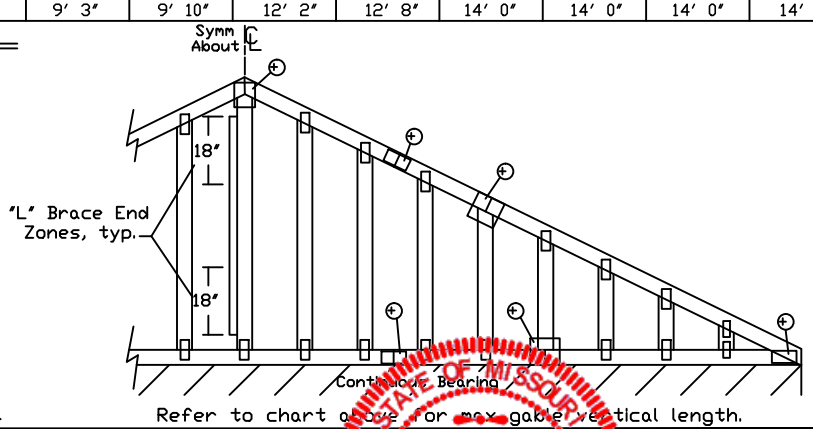
* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

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

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

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





Refer to chart above for max gable vertical length.

Gable Vertical Plate Sizes

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

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

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

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Glenview, IL 60025

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For more information see this job's general notes page and these web sites:
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STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817

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

MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

01/12/2026

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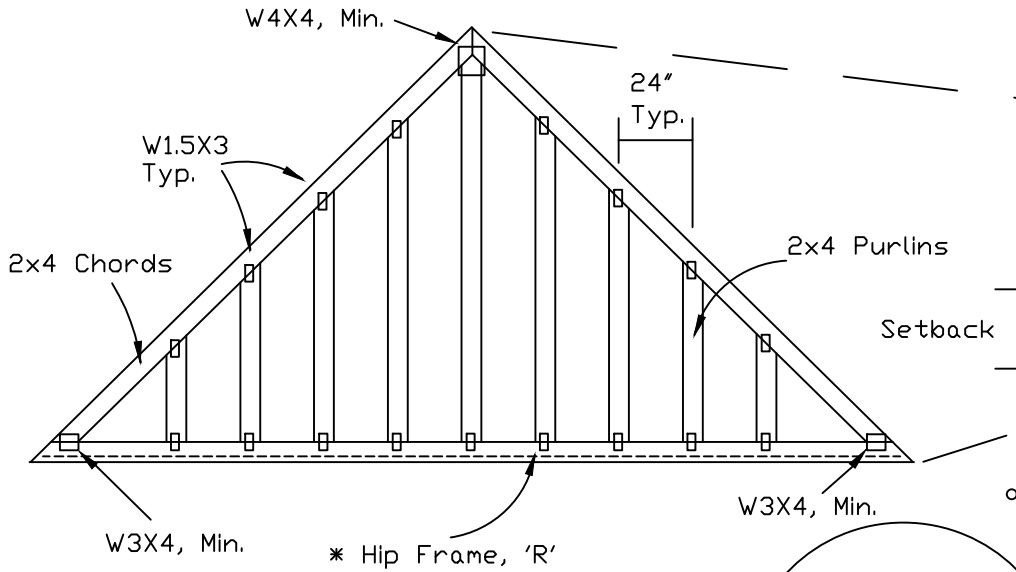
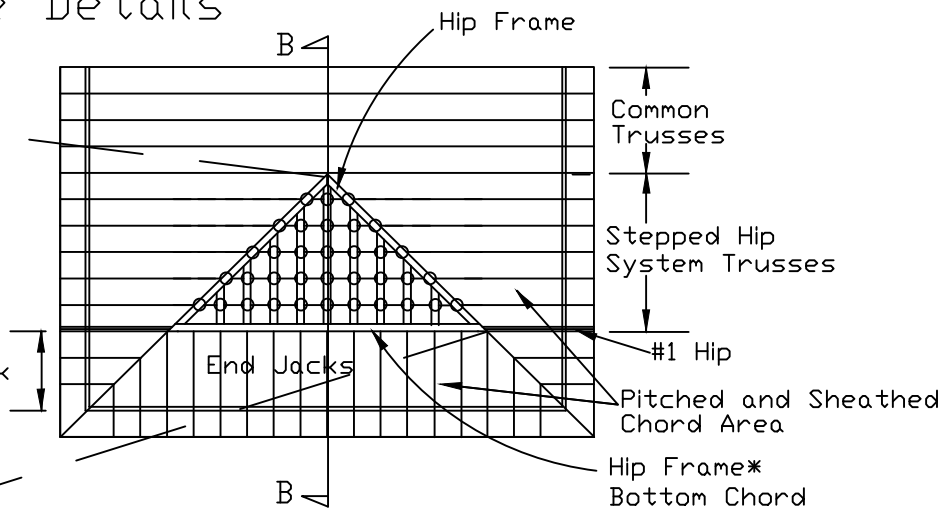
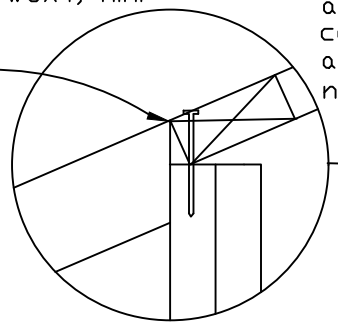
* Hip Frame Details





o- Attach hip frame to flat chords of stepped hips at all overlapping points with 2-10d (0.148"x3") common nails. Bottom chord of hip frame to be attached to #1 hip with 10d common (0.148"x3") nails @ 6" o.c. maximum spacing.



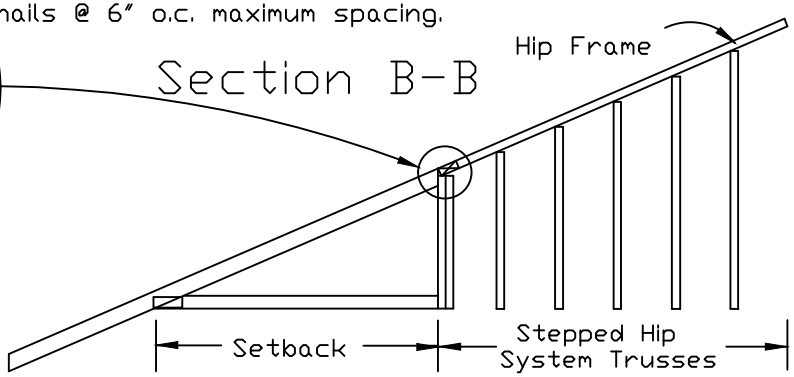
Hip frame stops at plumb cut of jacks to maintain pitch continuity.

* Hip frame lumber is SPF, So. Pine, HF, or DFL Standard, Stud grade, or better.

See Engineer's sealed design for setback, lumber, plating, loading, and duration factor required.

'R' Hip frame chords may be trimmed up to 2" to fit. purlins must be intact and properly attached.

Section B-B



Use this detail for:
ASCE 7-22, 140 mph, 30' M.H., Enclosed, Exp C, or
ASCE 7-22, 120 mph, 30' M.H., Enclosed, Exp D, or
ASCE 7-10 & ASCE 7-16, 140 mph, 30' M.H., Enclosed, Exp C, or
ASCE 7-10 & ASCE 7-16, 120 mph, 30' M.H., Enclosed, Exp D, or
ASCE 7-05, 110 mph, 30' M.H., Enclosed, Cat II, Exp C,
Residential, Wind TC DL=4.2 psf, Kzt=1.00

Hip Frame - provided by truss manufacturer. Hip frame is designed to provide bracing for flat top chords of hip frame system where indicated. Structural panels must be properly attached directly to Hip frame purlins.

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North Building, 4th Floor
Glenview, IL 60025

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817

01/12/2026

REF	HIP FRAME
DATE	06/23/2023
DRWG	HIPFRAME0623

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
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Valley Detail - ASCE 7-16: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

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

** Attach each valley to every supporting truss with:
535# connection or with (1) Simpson H2.5A or equivalent connector for
ASCE 7-16 180 mph. 30' Mean Height, Part. Enc. Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
Or
ASCE 7-16 160 mph. 30' Mean Height, Part. Enc. Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

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

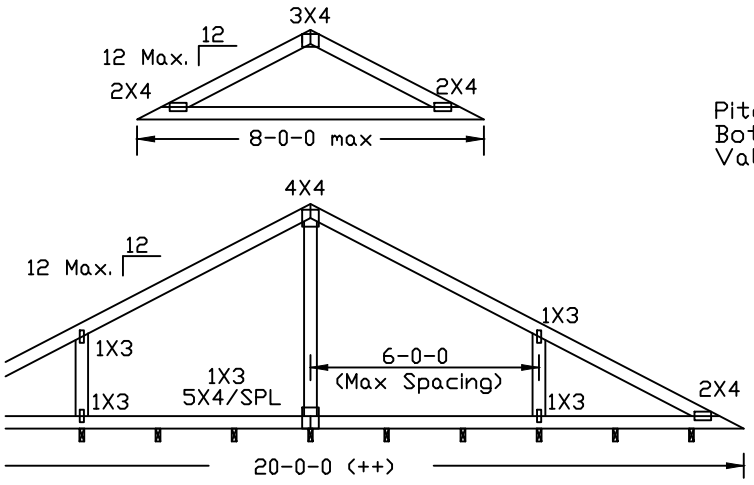
All plates shown are Alpine Wave Plates.

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

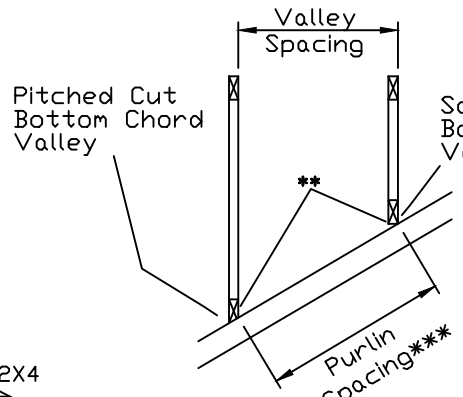
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed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

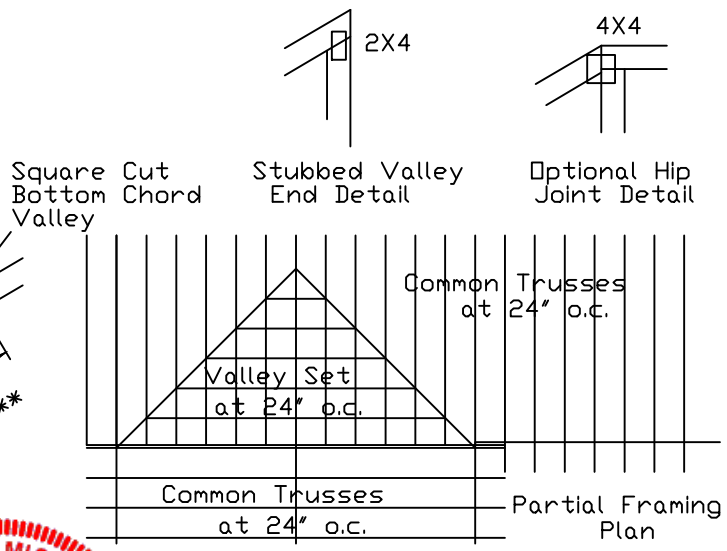
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

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



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





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155 Harlem Ave
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Glenview, IL 60025

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817

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

REF	VALLEY DETAIL
DATE	01/26/2018
DRWG	VAL180160118

RELEASE FOR CONSTRUCTION
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01/12/2026