RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/06/2026 9:33:16

Alpine, an ITW company
155 Harlem Ave.
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MISSOURI COA #2005000817

02/23/2026

Site Information:	Page 1:
Customer: Kodiak – Premier Building Supply	*Job Number:* PM000108
Job Description: Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie	
Address: 1138 SE Ranchland St Lees Summit, MO	

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 #:* 1YHW96460004	
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, 58 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	054.26.1301.04405	A1	2	054.26.1301.05481	A2
3	054.26.1301.06236	A3	4	054.26.1301.04707	A4
5	054.26.1325.45911	A5	6	054.26.1301.05193	A6
7	054.26.1301.07095	A7	8	054.26.1301.07636	A8
9	054.26.1301.07668	A9	10	054.26.1301.04435	A10
11	054.26.1325.45950	A11	12	054.26.1301.05681	A12
13	054.26.1301.04857	A13	14	054.26.1301.04901	A14
15	054.26.1301.05556	A15	16	054.26.1301.05045	A16
17	054.26.1301.04984	A17	18	054.26.1301.04954	A18
19	054.26.1325.45922	B1	20	054.26.1301.07588	B2
21	054.26.1301.04344	C5	22	054.26.1301.06514	C6
23	054.26.1301.05352	C7	24	054.26.1301.04452	D1
25	054.26.1301.06556	D2	26	054.26.1301.05503	E1
27	054.26.1301.04832	E2	28	054.26.1301.05914	J6
29	054.26.1301.04928	J13	30	054.26.1301.07245	J14
31	054.26.1301.05978	J15	32	054.26.1301.07045	J16
33	054.26.1325.45921	J17	34	054.26.1301.06440	J18
35	054.26.1301.05407	J21	36	054.26.1301.06925	J22
37	054.26.1301.06416	J23	38	054.26.1301.07493	J24
39	054.26.1301.05435	J25	40	054.26.1301.06873	J34
41	054.26.1301.06073	J35	42	054.26.1301.05979	J36
43	054.26.1301.04280	J37	44	054.26.1301.05934	J39
45	054.26.1301.06726	J40	46	054.26.1301.07125	J42

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Site Information:	Page 2:
Customer: Kodiak – Premier Building Supply	*Job Number:* PM000108
Job Description: Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie	
Address:	

Item	Drawing Number	Truss
47	054.26.1301.06472	LAY1
49	054.26.1301.05406	LAY3
51	054.26.1301.04345	M1
53	054.26.1301.06544	M3
55	054.26.1301.06004	M5
57	054.26.1301.07060	V1
59	BRCLBSUB0119	
61	VAL180160118	

Item	Drawing Number	Truss
48	054.26.1301.06030	LAY2
50	054.26.1301.04186	LAY4
52	054.26.1301.06945	M2
54	054.26.1301.06504	M4
56	054.26.1301.04515	M6
58	054.26.1301.07399	V2
60	HIPFRAME0623	
62	160TL	

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.

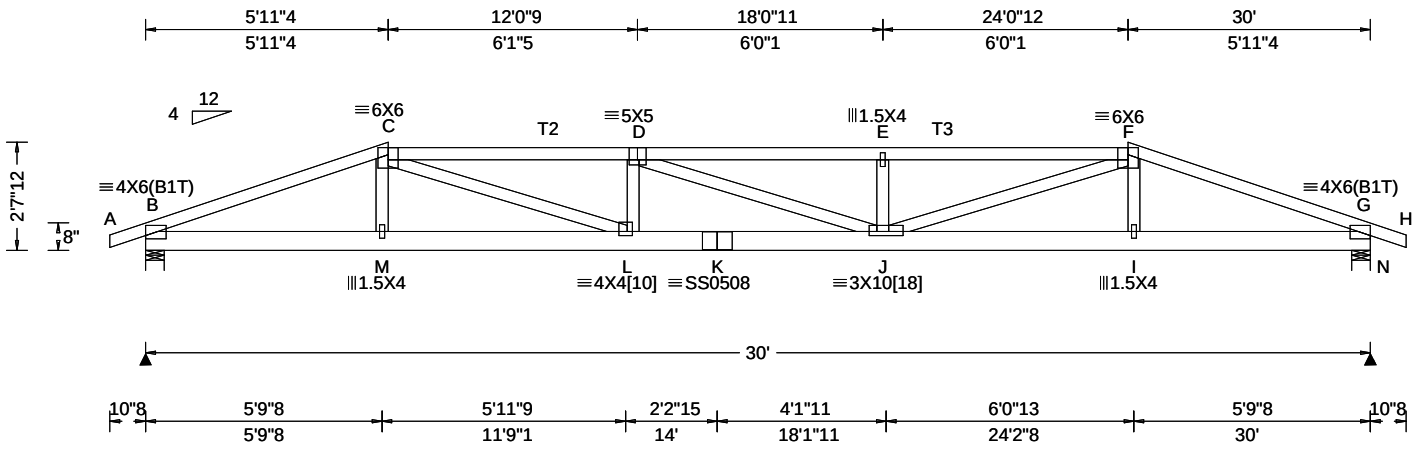
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

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: 10076 / HIPS FROM:	Ply: 2 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A1

Cust: R 9646 JRef:1YHW96460004 T21
DrwNo: 054-26.1301.64405
/ BM 02/23/2026

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: 20.09 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, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.304	E	999	285
VERT(CL): 0.551	E	647	285
HORZ(LL): 0.042	C	-	-
HORZ(TL): 0.076	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.709
Max BC CSI: 0.387
Max Web CSI: 0.459

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2096	/-	/-	/-	/361	/-
N	2097	/-	/-	/-	/361	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
N Brg Wid = 5.5 Min Req = 1.5 (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	444	-2539	E - F	745	-4162
C - D	734	-4131	F - G	445	-2546
D - E	744	-4159			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - M	2393	-419	K - J	4191	-756
M - L	2399	-423	J - I	2404	-424
L - K	4191	-756	I - G	2400	-419

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - L	1847	-331	E - J	166	-466
L - D	166	-467	J - F	1869	-341

Lumber

Top chord: 2x4 SP #2; T2,T3 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
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	30.00
TC: From	71 plf at	30.00 to	71 plf at	30.88
BC: From	10 plf at	0.00 to	10 plf at	30.00

TC: 196 lb Conc. Load at 6.00, 8.00,10.00,12.00 14.00,16.00,18.00,20.00,22.00,24.00
BC: 74 lb Conc. Load at 6.00, 8.00,10.00,12.00 14.00,16.00,18.00,20.00,22.00,24.00

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift		Chord Bite
[10]	4X4	1.50	R	1.25	[18]	3X10	4.25	R	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	24.06
BC	120	0.30	29.70

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
02/23/2026

****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

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155 Harlem Ave
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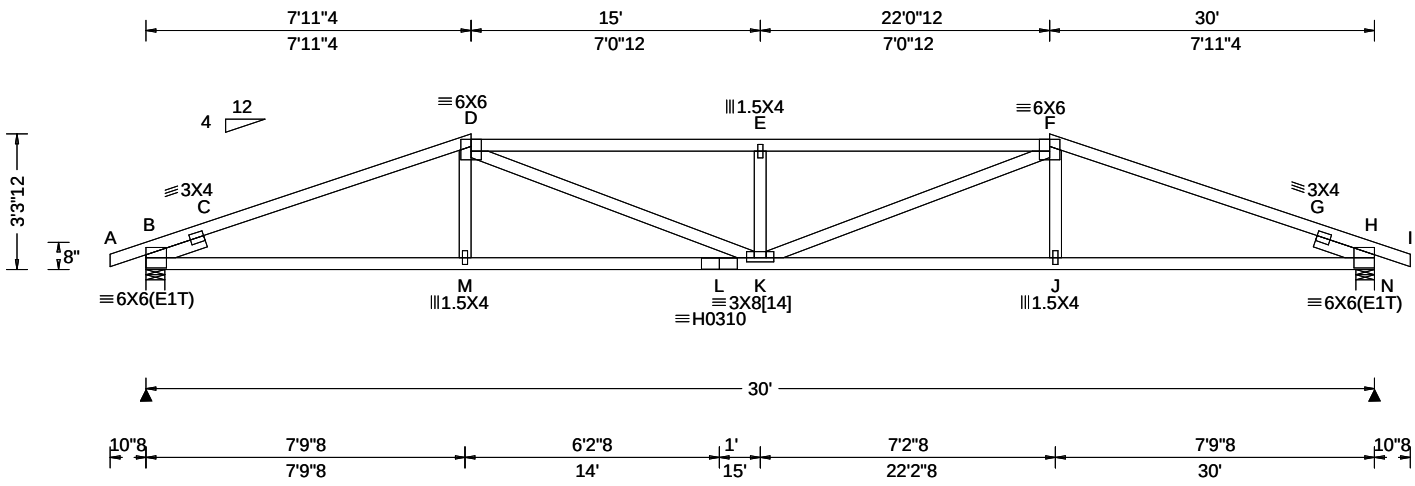
Glenview, IL 60025

SEQN: 9973 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A2	Cust: R 9646 JRef:1YHW96460004 T2 / DrwNo: 054-26-1301-65481 / BM 02/23/2026



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: 20.43 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, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.209	E	999	288
VERT(CL): 0.383	E	940	288
HORZ(LL): 0.048	H	-	-
HORZ(TL): 0.087	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.508
Max BC CSI: 0.384
Max Web CSI: 0.313

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1429	/-	/-	/753	/106	/21
N	1429	/-	/-	/753	/106	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.8 (Support)
N Brg Wid = 5.5 Min Req = 1.8 (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	796	-3144	E - F	852	-3647
C - D	634	-3073	F - G	634	-3073
D - E	852	-3647	G - H	795	-3144

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - M	2853	-530	K - J	2845	-537
M - L	2845	-534	J - H	2853	-533
L - K	2845	-534			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - K	871	-278	K - F	871	-278
E - K	282	-548			

Lumber

Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP 2400f-2.0E;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'
Rt 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
[14]	3X8	S	1.25				

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)
TC	24	7.94	22.06
BC	120	0.00	30.00

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
02/23/2026

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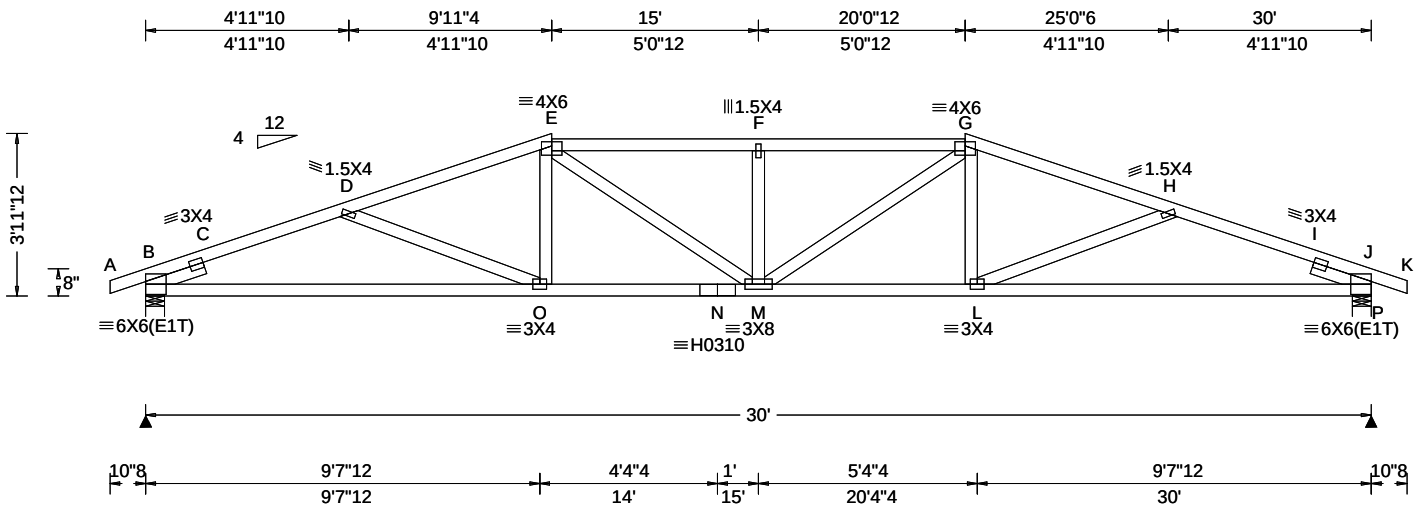
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 9974 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A3

Cust: R 9646 JRef:1YHW96460004 T3 /
Drwng: 054-26.1301.66236
/ BM 02/23/2026



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: 20.76 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, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.204	F	999	288
VERT(CL): 0.366	F	984	288
HORZ(LL): 0.048	J	-	-
HORZ(TL): 0.085	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.505
Max BC CSI: 0.400
Max Web CSI: 0.191

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1429	/-	/-	/755	/42	/27
P	1429	/-	/-	/755	/42	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.8 (Support)
P Brg Wid = 5.5 Min Req = 1.8 (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	639	- 3160	F - G	655	- 2920
C - D	612	- 3104	G - H	539	- 2778
D - E	539	- 2778	H - I	612	- 3104
E - F	655	- 2920	I - J	639	- 3160

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	2892	- 525	M - L	2573	- 415
O - N	2573	- 412	L - J	2892	- 528
N - M	2573	- 412			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - M	425	- 168	M - G	425	- 168
F - M	206	- 436			

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP 2400f-2.0E;
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	20.06
BC	120	0.00	30.00

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
02/23/2026

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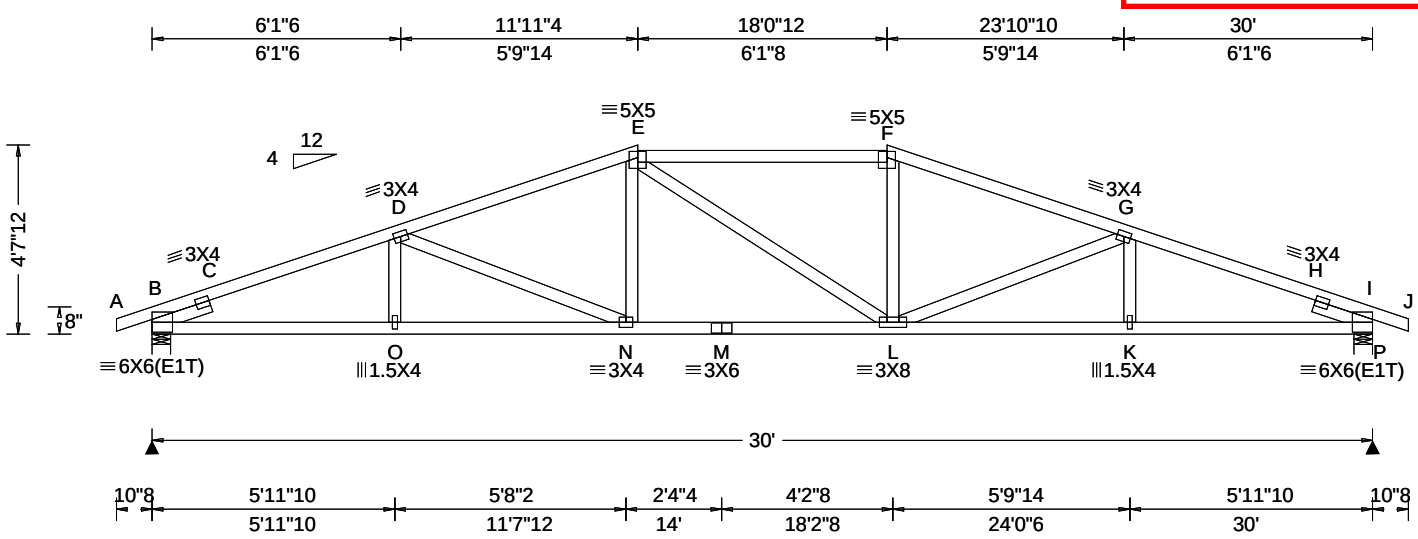
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9975 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A4	Cust: R 9646 JRef: LYHW96460004 T4 / Drwng: 054.26.1301.64707 / BM 02/23/2026



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: 21.09 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): 0.193	E	999	288
VERT(CL): 0.354	N	999	288
HORZ(LL): 0.066	I	-	-
HORZ(TL): 0.120	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.599
Max BC CSI: 0.831
Max Web CSI: 0.362

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1429	/-	/-	/758	/42	/33
P	1429	/-	/-	/758	/42	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.8 (Support)
P Brg Wid = 5.5 Min Req = 1.8 (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	476	-3138	F - G	469	-2543
C - D	478	-3072	G - H	477	-3072
D - E	469	-2552	H - I	475	-3138
E - F	474	-2348			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	2856	-395	M - L	2345	-322
O - N	2852	-397	L - K	2852	-400
N - M	2345	-322	K - I	2856	-397

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - N	84	-527	L - G	84	-534

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	18.06
BC	120	0.00	30.00

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
02/23/2026

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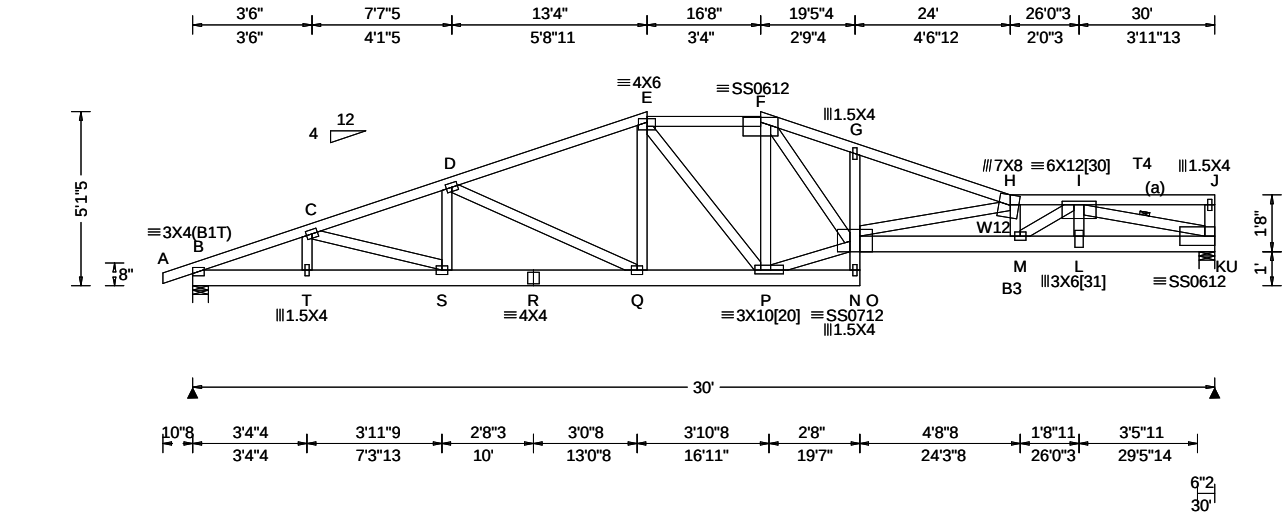
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 11517 / NEJA	Ply: 2	**Job Number:** PM000108	Cust: R 9646 JRef:1YHW96460004 T19
FROM:	Qty: 1	Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie	Drwng: 054-26.1325.45911 BM 02/23/2026
Page 1 of 2		**Truss Label:** A5	

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: 21.33 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, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.302	G	999	286
VERT(CL): 0.544	G	658	286
HORZ(LL): 0.061	K	-	-
HORZ(TL): 0.109	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.566
Max BC CSI: 0.680
Max Web CSI: 0.793

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1897	/-	/-	/-	/154	/42
U	4398	/-	/-	/-	/296	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
U Brg Wid = 5.5 Min Req = 3.1 (Support)
Bearings B & U 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	140	-1851	F - G	246	-3588
C - D	158	-2117	G - H	249	-3647
D - E	139	-1869	H - I	398	-6394
E - F	134	-1908			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - T	1719	-106	Q - P	1738	-104
T - S	1734	-109	N - M	6520	-397
S - R	1995	-128	M - L	5901	-348
R - Q	1995	-128	L - K	5901	-348

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - P	74	-955	H - M	66	-542
F - N	2464	-159	M - I	616	-41
P - N	1950	-114	I - L	1510	-63
N - H	187	-3167	I - K	372	-6162

Lumber

Top chord: 2x4 SP #2; T4 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP #2; B3 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #2; W12 2x4 SP 2400f-2.0E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.00" 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	30.00	
BC: From	20 plf at	0.00 to	20 plf at	26.02	
BC: From	10 plf at	26.02 to	10 plf at	30.00	

BC: 3472 lb Conc. Load at 26.02
BC: 67 lb Conc. Load at 30.00

Plating Notes

All plates are 3X4 except as noted.

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[20]	3X10	4.50	R	1.25	[30]	6X12	S	1.25
[31]	3X6	S		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	13.33	16.67
TC	24	24.00	30.00
BC	120	0.30	19.44
BC	120	19.45	30.00

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

Wind

Wind loads and reactions based on MWFRS.

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

Wind loading based on both gable and hip roof types.

MISSOURI COA #2005000817
02/23/2026

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

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

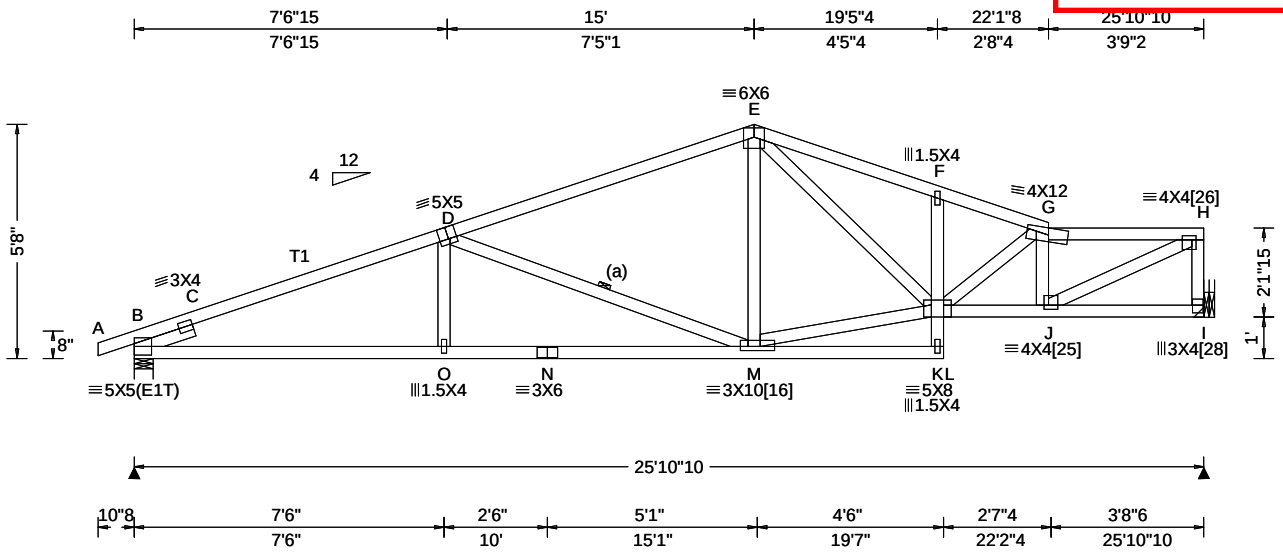
Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817

02/23/2026

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

SEQN: 9976 / SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A6	Cust: R 9646 JRef:1YHW96460004 T5 / DrwNo: 054-26-1301-65193 / BM 02/23/2026



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: 21.60 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): 0.121	D	999	248
VERT(CL): 0.221	D	999	248
HORZ(LL): 0.040	I	-	-
HORZ(TL): 0.072	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.775
Max BC CSI: 0.809
Max Web CSI: 0.537

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1242	/-	/-	/658	/-	/84
I	1179	/-	/-	/642	/20	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.6 (Support)
I 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	474	- 2597	E - F	398	- 2222
C - D	310	- 2531	F - G	360	- 2256
D - E	257	- 1606	G - H	325	- 1977

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	2342	- 328	N - M	2336	- 331
O - N	2336	- 331	K - J	1979	- 325

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - M	154	- 963	J - H	2189	- 357
E - K	872	- 171	G - J	229	- 1026
M - K	1423	- 184	H - I	232	- 1136

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift		Chord Bite
[16]	3X10	4.25	R	1.25	[25]	4X4	2.75	R	1.25
[26]	4X4	1.25	R	1.25	[28]	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)
TC	24	22.13	25.89
BC	120	0.00	19.44
BC	77	19.45	25.89

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
02/23/2026

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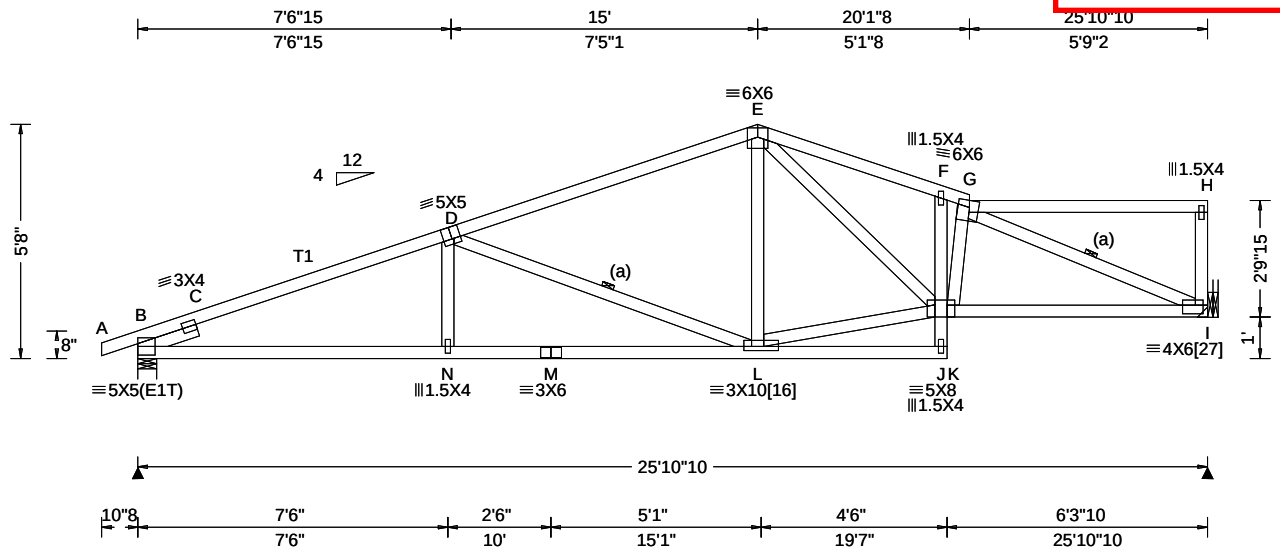
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9977 / SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A7	Cust: R 9646 JRef:1YHW96460004 T42 DrwNo: 054-26.1301.67095 BM 02/23/2026



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: 21.60 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): 0.124	D	999	248
VERT(CL): 0.227	D	999	248
HORZ(LL): 0.049	I	-	-
HORZ(TL): 0.089	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.777
Max BC CSI: 0.808
Max Web CSI: 0.483

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1242	/-	/-	/657	/-	/94
I	1179	/-	/-	/641	/37	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.6 (Support)
I 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	478	- 2597	E - F	439	- 2230
C - D	323	- 2532	F - G	450	- 2349
D - E	272	- 1606			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	2342	- 364	M - L	2336	- 366
N - M	2336	- 366	J - I	2187	- 430

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - L	152	- 964	L - J	1430	- 215
E - J	881	- 206	G - I	466	- 2367

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[16]	3X10	4.25 R	1.25	[27]	4X6	2.25 R	2.50

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	20.13	25.89
BC	120	0.00	19.44
BC	77	19.45	25.89

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.

Snow

Overhang designed for 2.00X TC LL.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

Top Chord overhang(s) may be field trimmed.

MISSOURI COA #2005000817
02/23/2026

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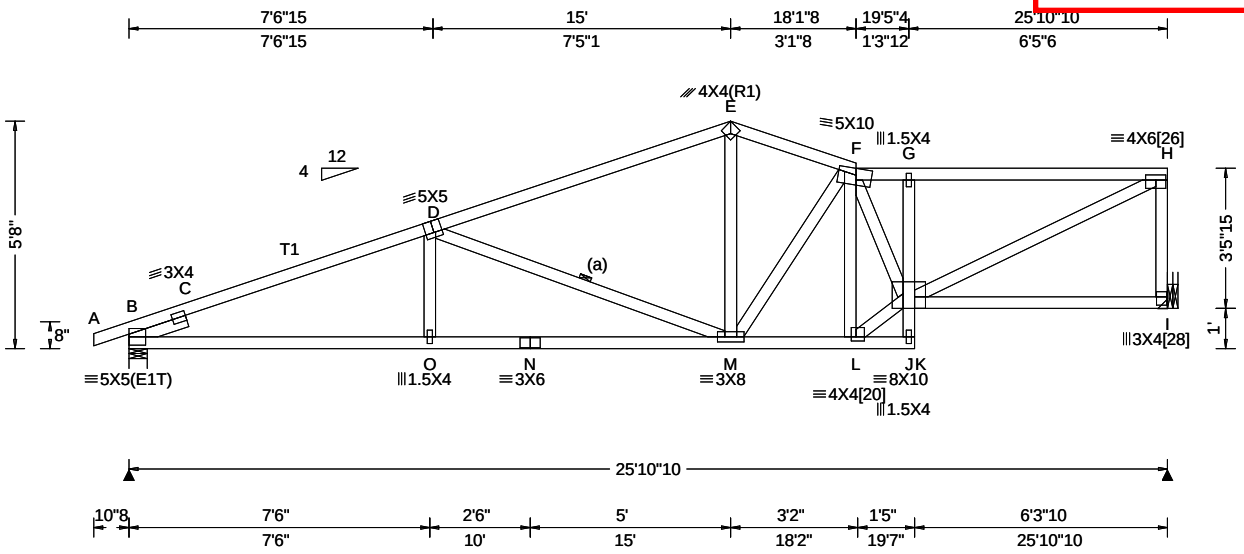
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10118 / SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A8

Cust: R 9646 JRef: 1YHW96460004 T15
Drwng: 054-26.1301.67636
BM 02/23/2026



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: 21.60 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): 0.123	D	999	248
VERT(CL): 0.226	D	999	248
HORZ(LL): 0.041	I	-	-
HORZ(TL): 0.074	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.902
Max BC CSI: 0.808
Max Web CSI: 0.528

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1242	/-	/-	/656	/27	/113
I	1179	/-	/-	/640	/53	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.6 (Support)
I 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	486	-2599	E - F	303	-1535
C - D	345	-2534	F - G	443	-1965
D - E	295	-1602	G - H	439	-1971

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	2344	-408	N - M	2338	-410
O - N	2338	-410	M - L	1503	-306

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - M	152	-970	L - J	1962	-387
E - M	561	-35	G - J	301	-588
F - L	264	-1271	J - H	2150	-479
F - J	1145	-331	H - I	311	-1112

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[20]	4X4	2.50	R	1.25	[26]	4X6	S	1.50
[28]	3X4	S		2.50				

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	18.13	25.89
BC	120	0.00	19.44
BC	77	19.44	25.89

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
02/23/2026

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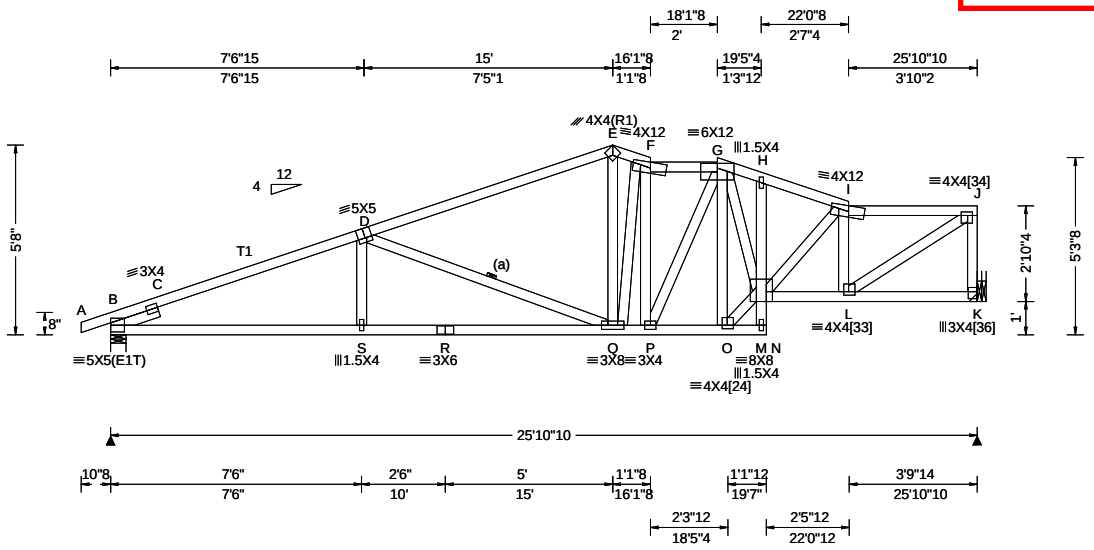
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10114 / SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A9

Cust: R 9646 JRef: LYHW96460004 T14
DrwNo: 054-26.1301.67668
I BM 02/23/2026



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: 21.60 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): 0.119	D	999	248
VERT(CL): 0.218	D	999	248
HORZ(LL): 0.046	K	-	-
HORZ(TL): 0.084	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.774
Max BC CSI: 0.808
Max Web CSI: 0.547

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1242	/-	/-	/657	/29	/96
K	1179	/-	/-	/641	/42	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.6 (Support)
K 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	487	- 2597	F - G	305	- 1444
C - D	344	- 2532	G - H	368	- 1758
D - E	293	- 1606	H - I	358	- 1846
E - F	297	- 1481	I - J	290	- 1495

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - S	2342	- 383	Q - P	1444	- 254
S - R	2336	- 386	P - O	1315	- 237
R - Q	2336	- 386	M - L	1499	- 291

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - Q	153	- 964	O - M	1820	- 324
E - Q	541	- 35	I - L	265	- 1041
F - P	40	- 411	L - J	1782	- 343
G - O	252	- 1248	J - K	263	- 1140
G - M	1318	- 259			

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift		Chord Bite
[24]	4X4	2.25	R	1.25	[33]	4X4	2.25	R	1.25
[34]	4X4	1.75	R	1.25	[36]	3X4	S		2.50

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	16.13	18.13
TC	24	22.04	25.89
BC	120	0.00	19.44
BC	77	19.45	25.89

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
02/23/2026

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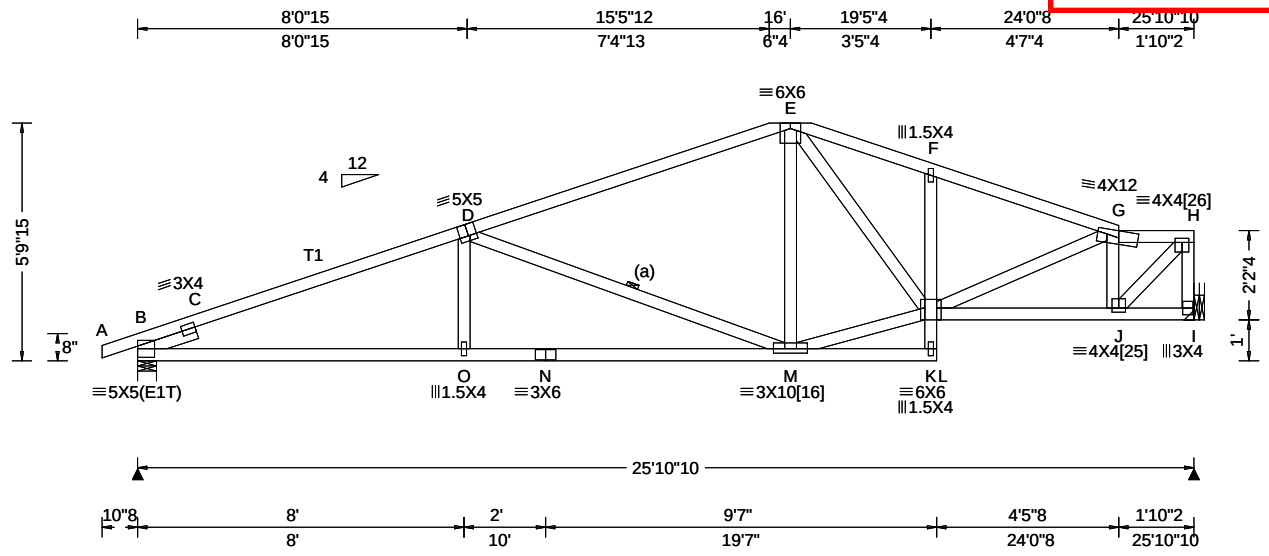
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9966 / SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A10

Cust: R 9646 JRef: LYHW96460004 T30
DrwNo: 054-26.1301.64435
BM 02/23/2026



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: 21.68 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): 0.112	D	999	248
VERT(CL): 0.206	D	999	248
HORZ(LL): 0.042	C	-	-
HORZ(TL): 0.069	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.917
Max BC CSI: 0.856
Max Web CSI: 0.378

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1242	/-	/-	/647	/-	/86
I	1179	/-	/-	/625	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.6 (Support)
I 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	507	- 2578	E - F	290	- 1798
C - D	275	- 2510	F - G	252	- 1850
D - E	209	- 1487	G - H	149	- 1080

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	2319	- 294	N - M	2313	- 296
O - N	2313	- 296	K - J	1080	- 150

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - M	174	- 1065	G - J	214	- 1063
E - K	602	- 107	J - H	1542	- 212
M - K	1358	- 134	H - I	173	- 1170
K - G	665	- 66			

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[16]	3X10	S	1.25	[25]	4X4	S	1.25
[26]	4X4	S	1.25				

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)
TC	24	24.04	25.89
BC	120	0.00	19.44
BC	77	19.45	25.89

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
02/23/2026

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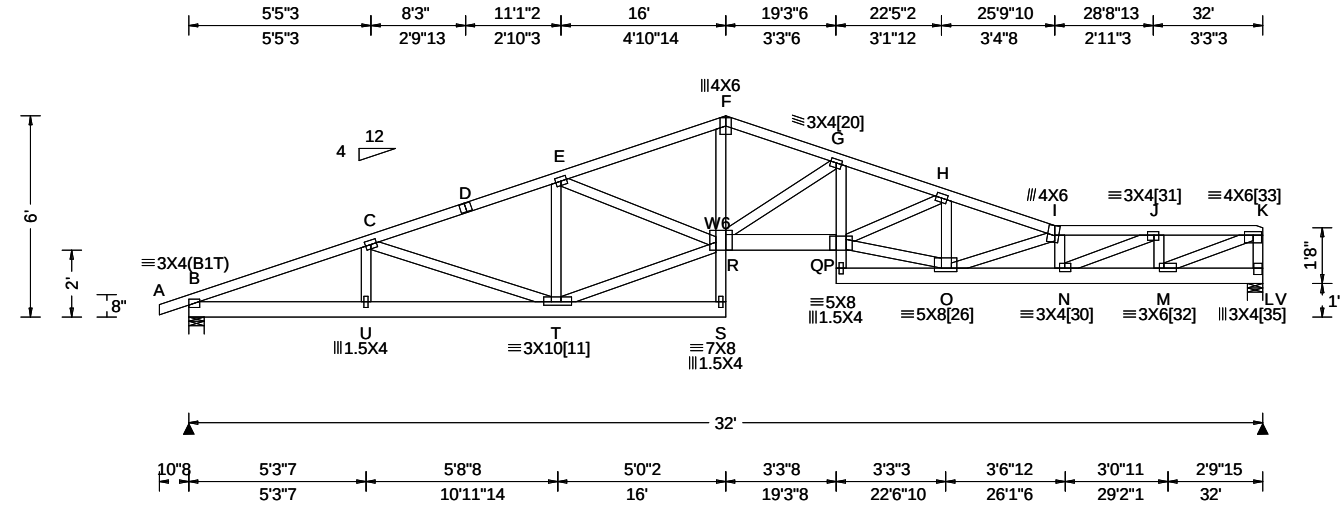
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 11518 / SPEC FROM: Page 1 of 2	Ply: 2 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A11	Cust: R 9646 JRef:1YHW96460004 T23 DrwNo: 054-26.1325.45950 BM 02/23/2026

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: 21.77 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.20 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): 0.258	P	999	305
VERT(CL): 0.466	P	820	305
HORZ(LL): 0.068	L	-	-
HORZ(TL): 0.122	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.466
Max BC CSI: 0.843
Max Web CSI: 0.629

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1640	/-	/-	/-	/146	/42
V	2243	/-	/-	/-	/200	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
V Brg Wid = 5.5 Min Req = 1.6 (Support)
Bearings B & V 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	147	- 1728	G - H	240	- 2890
C - D	140	- 1615	H - I	230	- 2651
D - E	132	- 1583	I - J	319	- 3545
E - F	170	- 2051	J - K	212	- 2276
F - G	166	- 2016			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - U	1604	- 111	O - N	3641	- 313
U - T	1608	- 113	N - M	2423	- 212
R - P	2726	- 205			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
T - E	74	- 500	O - I	125	- 1234
T - R	1618	- 115	I - N	51	- 456
E - R	426	- 29	N - J	1260	- 101
R - F	1124	- 64	J - M	80	- 700
R - G	86	- 1007	M - K	2493	- 223
G - P	756	- 44	K - L	105	- 1094
P - O	2562	- 202			

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x6 SP #2;
Webs: 2x4 SP #2; W6 2x4 SP 2400f-2.0E;

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	31.80	
BC: From	20 plf at	0.00 to	20 plf at	26.02	
BC: From	10 plf at	26.02 to	10 plf at	28.00	
BC: From	20 plf at	28.00 to	20 plf at	31.80	
BC: From	90 plf at	31.80 to	90 plf at	32.00	

BC: 925 lb Conc. Load at 28.00

Plating Notes

All plates are 3X4 except as noted.

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift		Chord Bite
[11]	3X10	2.75	L	1.25	[20]	3X4	S		1.25
[26]	5X8	2.00	R	1.25	[30]	3X4	2.25	R	1.25
[31]	3X4	1.75	R	1.25	[32]	3X6	4.50	R	1.25
[33]	4X6	S		1.25	[35]	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)
TC	24	25.80	32.00
BC	120	0.30	15.85
BC	42	15.91	19.40
BC	120	19.44	32.00

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

Wind

Wind loads and reactions based on MWFRS.

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

Wind loading based on both gable and hip roof types.

MISSOURI COA #2005000817
02/23/2026

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

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

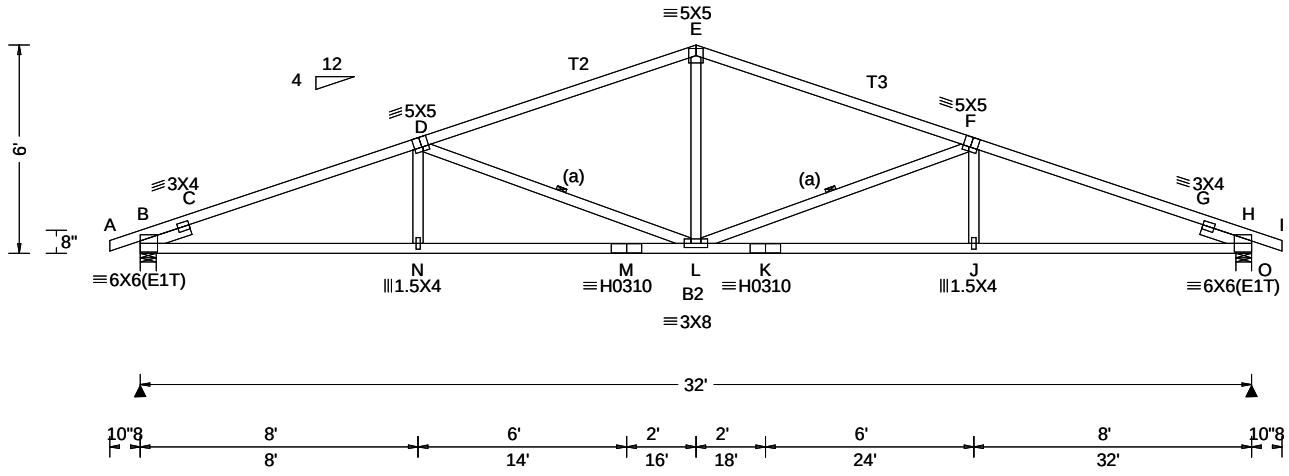
STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER

MISSOURI COA #2005000817
02/23/2026

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

SEQN: 9967 / COMN FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A12

Cust: R 9646 JRef: LYHW96460004 T26
DrwNo: 054-26-1301-65681
BM 02/23/2026



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: 21.77 ft
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.20 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, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.175	L	999	307
VERT(CL): 0.323	L	999	307
HORZ(LL): 0.058	H	-	-
HORZ(TL): 0.106	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.858
Max BC CSI: 0.878
Max Web CSI: 0.336

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1520	/-	/-	/812	/-	/46
O	1520	/-	/-	/812	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.9 (Support)
O Brg Wid = 5.5 Min Req = 1.9 (Support)
Bearings B & O 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	586	- 3347	E - F	339	- 2323
C - D	391	- 3274	F - G	391	- 3274
D - E	339	- 2323	G - H	586	- 3347

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	3036	- 299	L - K	3030	- 304
N - M	3030	- 301	K - J	3030	- 304
M - L	3030	- 301	J - H	3036	- 301

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - L	162	- 979	L - F	162	- 979
E - L	865	- 22			

Lumber

Top chord: 2x4 SP 2400f-2.0E; T2,T3 2x4 SP #2;
Bot chord: 2x4 SP 2400f-2.0E; B2 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'

Bracing

(a) Continuous lateral restraint equally spaced on member.

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	32.00

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
02/23/2026

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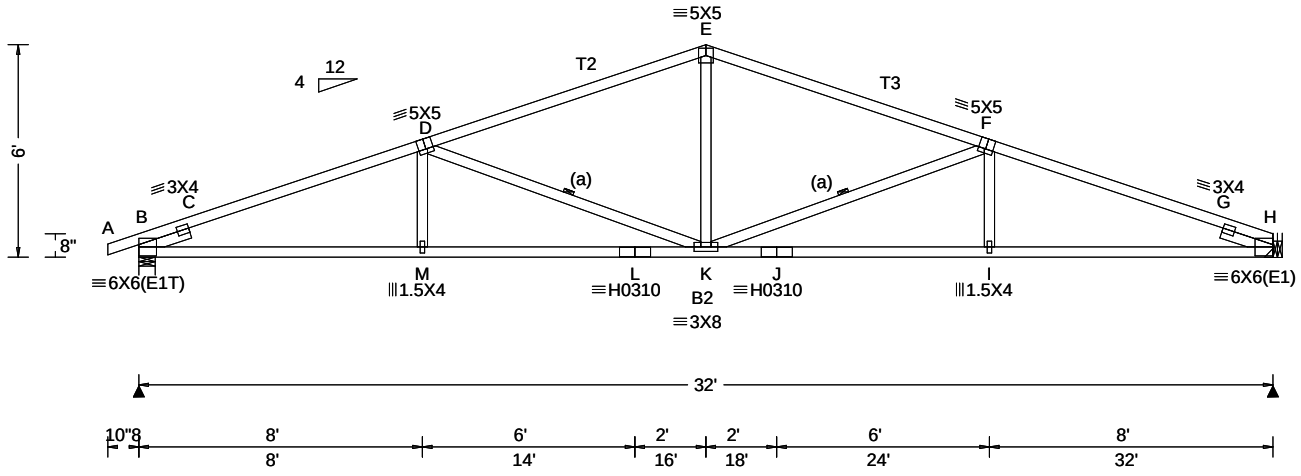
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9968 / COMN FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A13

Cust: R 9646 JRef: LYHW96460004 T38
DrwNo: 054-26-1301-64857
BM 02/23/2026



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: 21.77 ft
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.20 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, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.175	K	999	307
VERT(CL): 0.323	K	999	307
HORZ(LL): 0.058	H	-	-
HORZ(TL): 0.106	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.858
Max BC CSI: 0.878
Max Web CSI: 0.336

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1520	/-	/-	/812	/-	/51
H	1457	/-	/-	/797	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.9 (Support)
H 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	586	- 3347	E - F	341	- 2323
C - D	392	- 3274	F - G	399	- 3274
D - E	339	- 2323	G - H	629	- 3313

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - M	3036	- 314	K - J	3030	- 317
M - L	3030	- 316	J - I	3030	- 317
L - K	3030	- 316	I - H	3036	- 314

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - K	162	- 979	K - F	164	- 979
E - K	865	- 24			

Lumber

Top chord: 2x4 SP 2400f-2.0E; T2,T3 2x4 SP #2;
Bot chord: 2x4 SP 2400f-2.0E; B2 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'

Bracing

(a) Continuous lateral restraint equally spaced on member.

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	32.00

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.

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
02/23/2026

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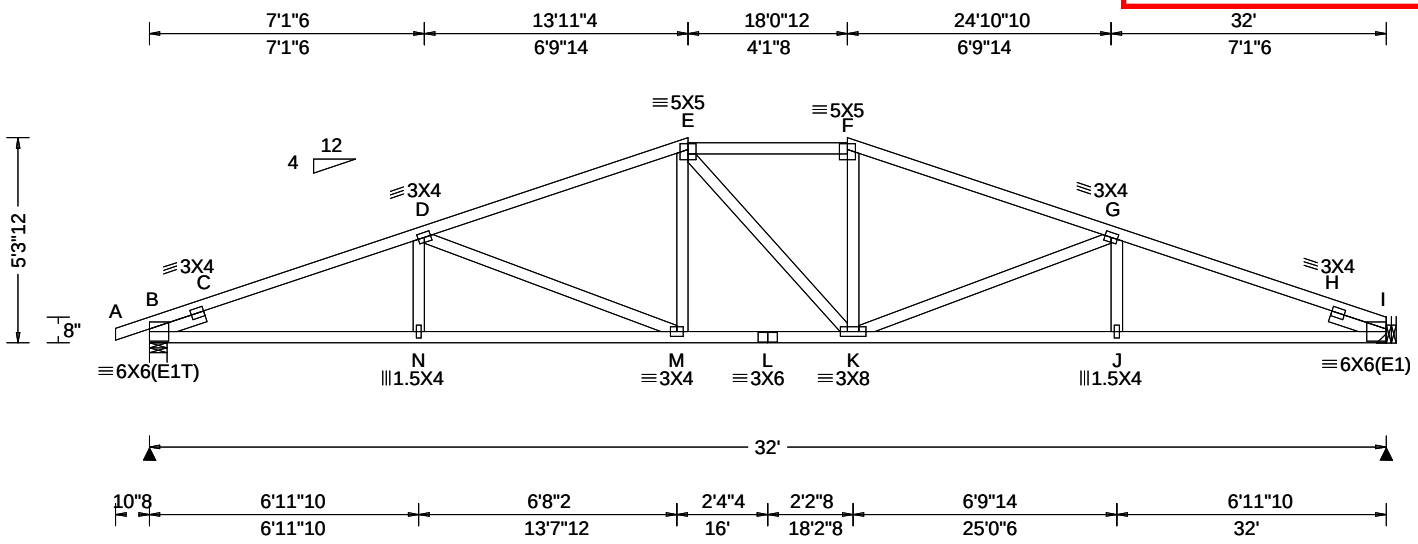
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9969 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A14	Cust: R 9646 JRef: 1YHW96460004 T12 Drwng: 054-26-1301-64901 BM 02/23/2026



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: 21.43 ft
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.20 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): 0.222	M	999	307
VERT(CL): 0.407	M	942	307
HORZ(LL): 0.077	I	-	-
HORZ(TL): 0.141	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.951
Max BC CSI: 0.945
Max Web CSI: 0.710

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1520	/-	/-	/810	/-	/45
I	1457	/-	/-	/794	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.9 (Support)
I 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	535	- 3387	F - G	435	- 2572
C - D	470	- 3316	G - H	472	- 3316
D - E	438	- 2582	H - I	574	- 3354
E - F	443	- 2358			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	3082	- 395	L - K	2355	- 282
N - M	3077	- 397	K - J	3077	- 396
M - L	2355	- 282	J - I	3082	- 394

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - M	126	- 756	F - K	397	0
M - E	398	0	K - G	133	- 764

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	13.94	18.06
BC	120	0.00	32.00

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.

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
02/23/2026

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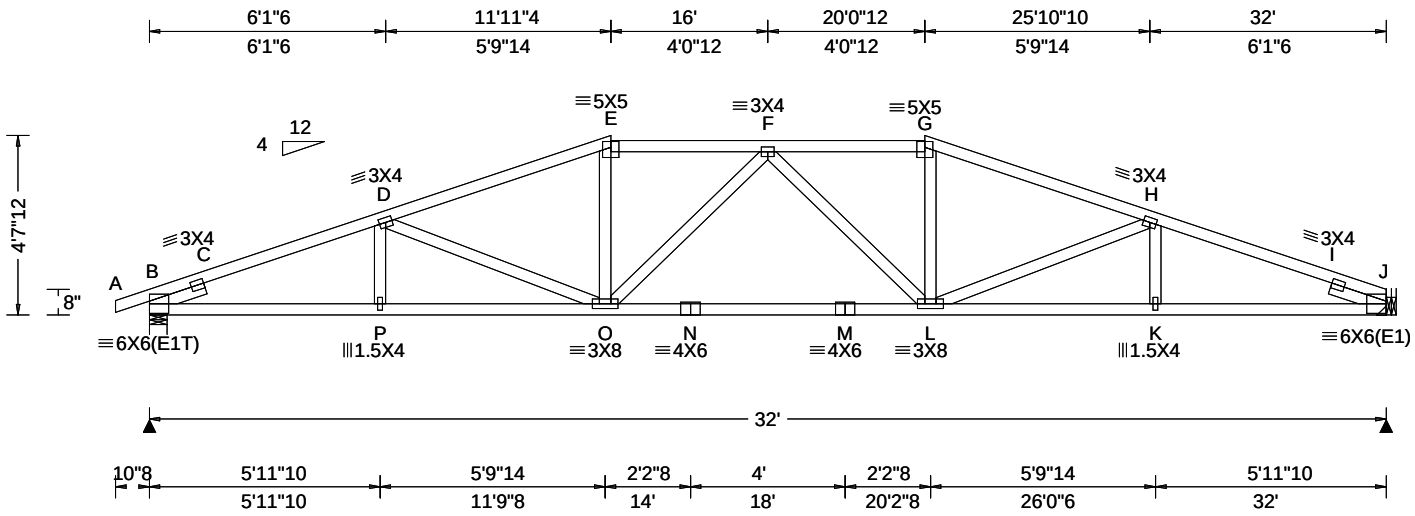
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 9970 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A15	Cust: R 9646 JRef: LYHW96460004 T29 DrwNo: 054-26-1301-65556 BM 02/23/2026



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: 21.09 ft
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.20 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): 0.240	F	999	307
VERT(CL): 0.438	F	876	307
HORZ(LL): 0.078	J	-	-
HORZ(TL): 0.141	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.632
Max BC CSI: 0.894
Max Web CSI: 0.347

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1520	/-	/-	/807	/4	/39
J	1457	/-	/-	/791	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.9 (Support)
J 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	533	- 3380	F - G	516	- 2594
C - D	537	- 3315	G - H	516	- 2809
D - E	517	- 2809	H - I	537	- 3315
E - F	518	- 2594	I - J	557	- 3352

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	3084	- 464	M - L	2756	- 444
P - O	3081	- 466	L - K	3081	- 466
O - N	2756	- 444	K - J	3084	- 464
N - M	2756	- 444			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - O	97	- 511	G - L	518	- 31
O - E	518	- 29	L - H	103	- 511

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	20.06
BC	120	0.00	32.00

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.

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
02/23/2026

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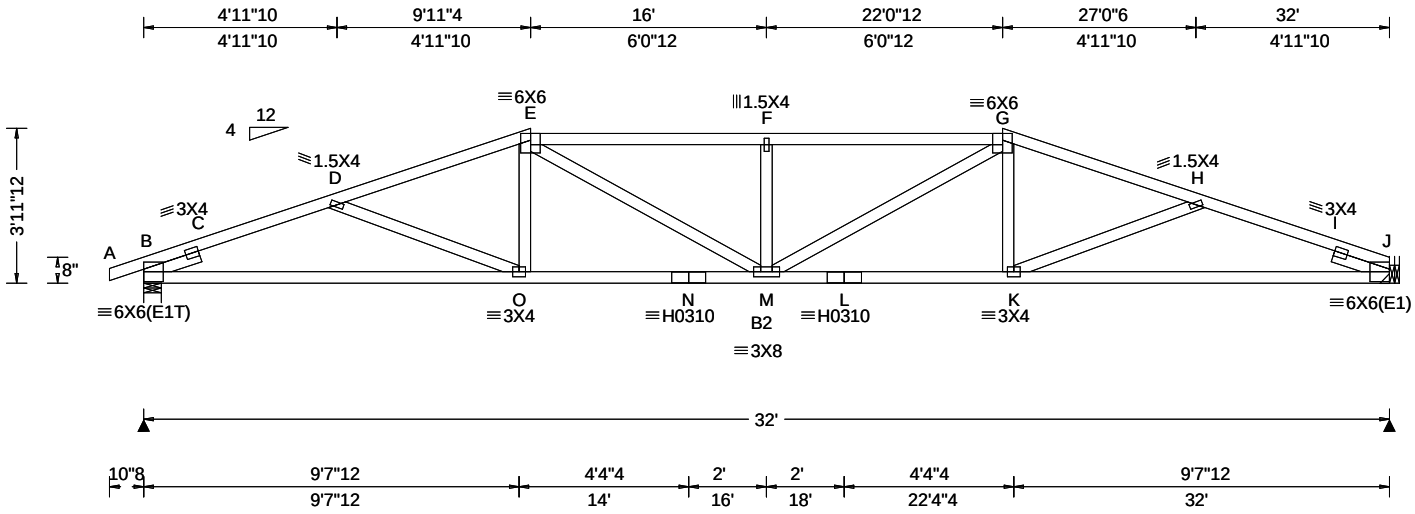
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9971 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A16	Cust: R 9646 JRef: LYHW96460004 T25 Drwng: 054-26.1301.65045 BM 02/23/2026



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: 20.76 ft
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.20 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, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.256	F	999	307
VERT(CL): 0.459	F	835	307
HORZ(LL): 0.058	J	-	-
HORZ(TL): 0.104	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.743
Max BC CSI: 0.715
Max Web CSI: 0.206

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1520	/-	/-	/804	/51	/33
J	1457	/-	/-	/789	/48	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.9 (Support)
J 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	664	-3401	F - G	739	-3347
C - D	658	-3345	G - H	590	-3045
D - E	591	-3045	H - I	659	-3345
E - F	739	-3347	I - J	691	-3382

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	3117	-581	M - L	2831	-474
O - N	2831	-476	L - K	2831	-474
N - M	2831	-476	K - J	3117	-581

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - M	600	-201	M - G	598	-201
F - M	238	-520			

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP 2400f-2.0E; B2 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	22.06
BC	120	0.00	32.00

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.

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
02/23/2026

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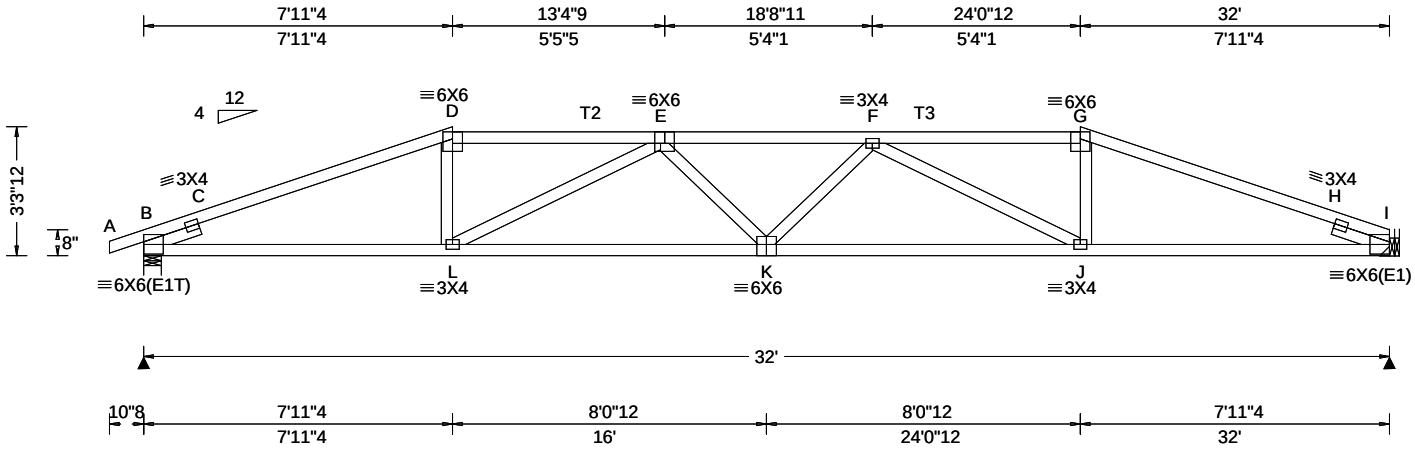
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9972 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A17	Cust: R 9646 JRef: 1YHW96460004 T24 DrwNo: 054-26-1301-64984 BM 02/23/2026



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: 20.43 ft
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.20 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): 0.277	K	999	307
VERT(CL): 0.510	K	752	307
HORZ(LL): 0.063	I	-	-
HORZ(TL): 0.115	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.837
Max BC CSI: 0.433
Max Web CSI: 0.677

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1520	/-	/-	/801	/51	/27
I	1457	/-	/-	/789	/49	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.9 (Support)
I 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	824	-3382	F - G	661	-3074
C - D	661	-3311	G - H	660	-3310
D - E	661	-3075	H - I	829	-3348
E - F	859	-4012			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	3074	-567	K - J	3944	-812
L - K	3941	-811	J - I	3074	-566

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - L	605	-42	F - J	320	-991
L - E	319	-992	G - J	605	-43

Lumber

Top chord: 2x4 SP 2400f-2.0E; T2,T3 2x4 SP #2;
Bot chord: 2x4 SP 2400f-2.0E;
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	24.06
BC	120	0.00	32.00

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.

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
02/23/2026

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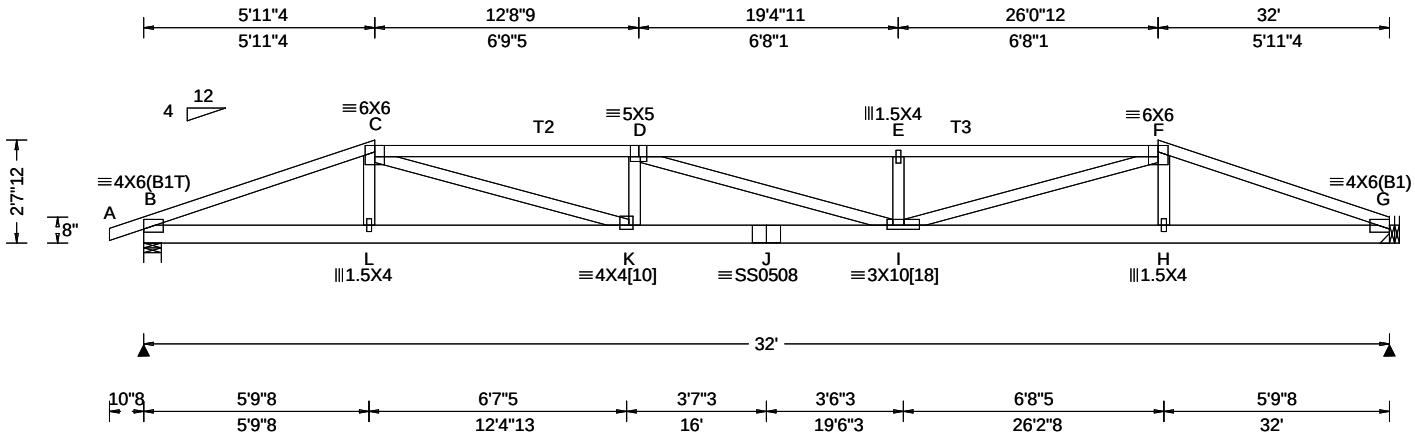
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10079 / HIPS FROM:	Ply: 2 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** A18	Cust: R 9646 JRef:1YHW96460004 T6 / Drwng: 054-26.1301.64954 / BM 02/23/2026

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: 20.09 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.20 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, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.390	E	977	304
VERT(CL): 0.704	E	540	304
HORZ(LL): 0.052	C	-	-
HORZ(TL): 0.093	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.804
Max BC CSI: 0.431
Max Web CSI: 0.547

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2280	/-	/-	/-	/389	/-
G	2213	/-	/-	/-	/373	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.6 (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	486	-2804	E - F	852	-4795
C - D	839	-4758	F - G	491	-2830
D - E	851	-4792			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	2646	-459	J - I	4825	-863
L - K	2651	-464	I - H	2675	-468
K - J	4825	-863	H - G	2671	-463

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	2220	-395	E - I	183	-513
K - D	183	-516	I - F	2229	-403

Lumber

Top chord: 2x4 SP #2; T2,T3 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
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 32.00
BC: From 10 plf at 0.00 to 10 plf at 32.00
TC: 196 lb Conc. Load at 6.00, 8.00,10.00,12.00 14.00,16.00,18.00,20.00,22.00,24.00,26.00
BC: 74 lb Conc. Load at 6.00, 8.00,10.00,12.00 14.00,16.00,18.00,20.00,22.00,24.00,26.00

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[10]	4X4	1.25 R	1.25	[18]	3X10	4.75 R	1.25

Hangers / Ties

(J) Hanger Support Required, by others

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	26.06
BC	120	0.30	31.70

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
02/23/2026

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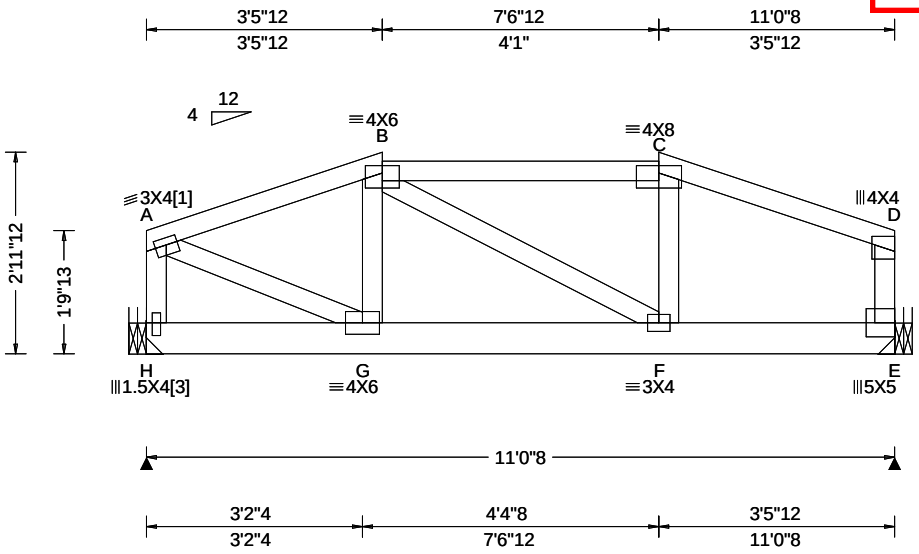
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 11516 / COMN FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** B1

Cust: R 9646 JRef: LYHW96460004 T34
DrwNo: 054-26-1325-45922
BM 02/23/2026



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: 31.41 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): 0.235	C	564	240
VERT(CL): 0.427	F	310	180
HORZ(LL): 0.152	D	-	-
HORZ(TL): 0.276	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.454
Max BC CSI: 0.703
Max Web CSI: 0.411

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	925	/-	/-	/-	/91	/45
E	925	/-	/-	/-	/97	/-

Wind reactions based on MWFRS
H Brg Wid = - Min Req = -
E Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	107	- 1191

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	1058	- 100

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	100	- 935	G - B	475	0
A - G	1212	- 76	B - F	94	- 975

Lumber
Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
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 11.04
BC: From 20 plf at 0.00 to 20 plf at 11.04
TC: 140 lb Conc. Load at 1.54, 9.50
TC: 128 lb Conc. Load at 3.54, 5.50, 7.50
BC: 39 lb Conc. Load at 1.54, 9.50
BC: 33 lb Conc. Load at 3.54, 5.50, 7.50

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[1]	3X4	S	1.25	[3]	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)
TC	24	3.48	7.56
BC	107	0.00	11.04

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 and reactions based on MWFRS.
Left end vertical exposed to wind pressure. Deflection meets L/180.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

MISSOURI COA #2005000817
02/23/2026

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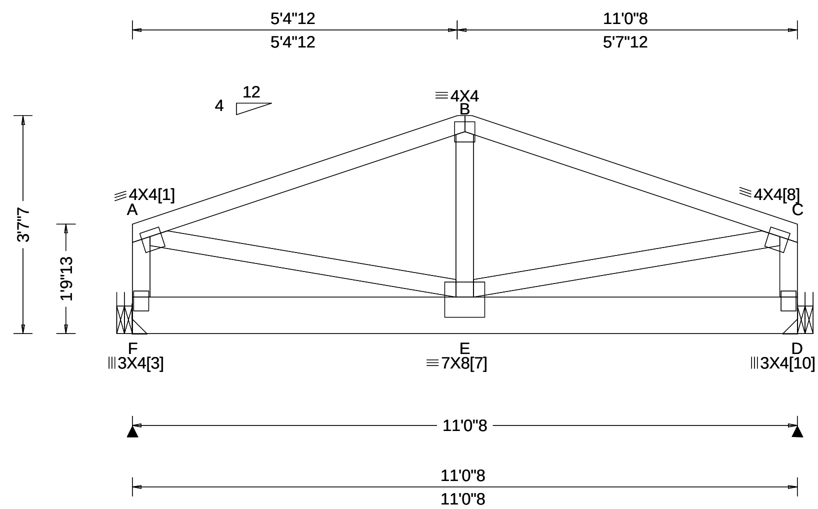
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/06/2026 9:33:23

SEQN: 10121 / HIPS FROM:	Ply: 2 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** B2	Cust: R 9646 JRef: 1YHW96460004 T28 / DrwNo: 054.26.1301.07588 / BM 02/23/2026

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: 31.73 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):	0.040	E	999	240
VERT(CL):	0.072	E	999	180
HORZ(LL):	0.001	C	-	-
HORZ(TL):	0.001	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.388
Max BC CSI: 0.442
Max Web CSI: 0.471

VIEW Ver: 25.02.00B.1125.14

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	3472	/-	/-	/-	/168	/43
D	3428	/-	/-	/-	/159	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	109	- 2028	B - C	111	- 2028

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - F	84	- 1180	B - E	1046	0
A - E	1921	- 82	C - D	87	- 1180
E - C	1921	- 94			

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: 2 Rows @ 5.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 71 plf at 0.00 to 71 plf at 11.04
BC: From 20 plf at 0.00 to 20 plf at 11.04
BC: 1179 lb Conc. Load at 1.48, 3.48, 5.48, 7.48
9.48

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift		Chord Bite
[1]	4X4	2.25	R	1.25	[3]	3X4	S		2.75
[7]	7X8	S		4.00	[8]	4X4	1.75	R	1.25
[10]	3X4	S		2.75					

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	11.04

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 and reactions based on MWFRS.

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

MISSOURI COA #2005000817
02/23/2026

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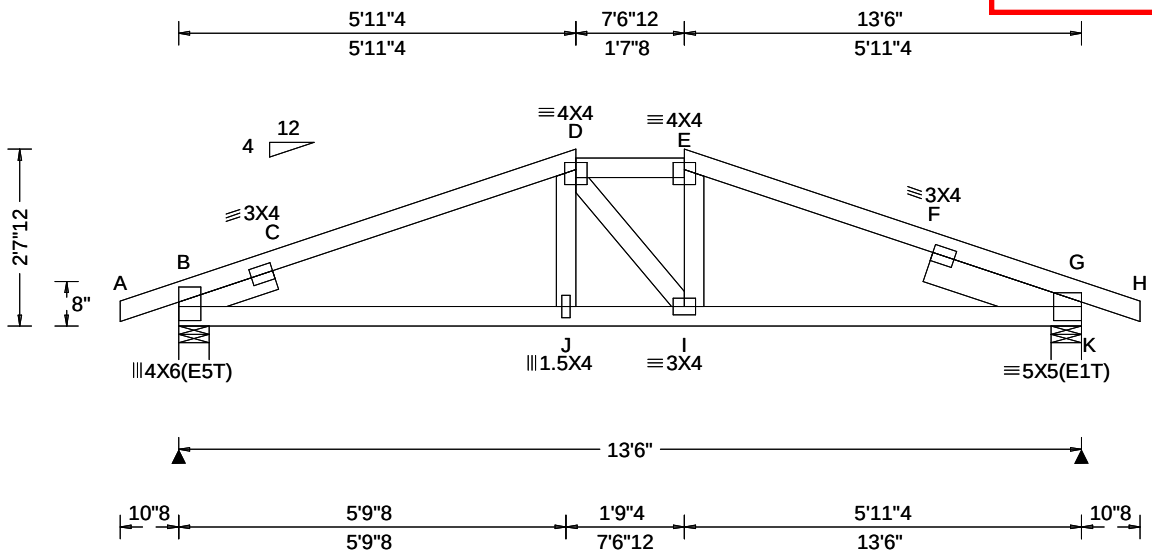
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10097 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** C5	Cust: R 9646 JRef: LYHW96460004 T13 DrwNo: 054-26-1301-64344 BM 02/23/2026



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: 29.52 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): 0.054	F	999	240
VERT(CL): 0.082	F	999	180
HORZ(LL): -0.015	F	-	-
HORZ(TL): 0.022	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.284
Max BC CSI: 0.490
Max Web CSI: 0.086

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	640	/-	/-	/-	/134	/-
K	640	/-	/-	/-	/134	/-

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	255	-1279	E - F	246	-1254
C - D	248	-1261	F - G	256	-1281
D - E	228	-1172			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	1170	-227	I - G	1173	-228
J - I	1153	-225			

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: 2x6 SP #2; block length = 2.366'

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	13.50	
TC: From	71 plf at	13.50 to	71 plf at	14.38	
BC: From	10 plf at	0.00 to	10 plf at	13.50	

TC: 196 lb Conc. Load at 6.00, 7.50
BC: 74 lb Conc. Load at 6.00, 7.50

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	7.56
BC	120	0.00	13.50

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
02/23/2026

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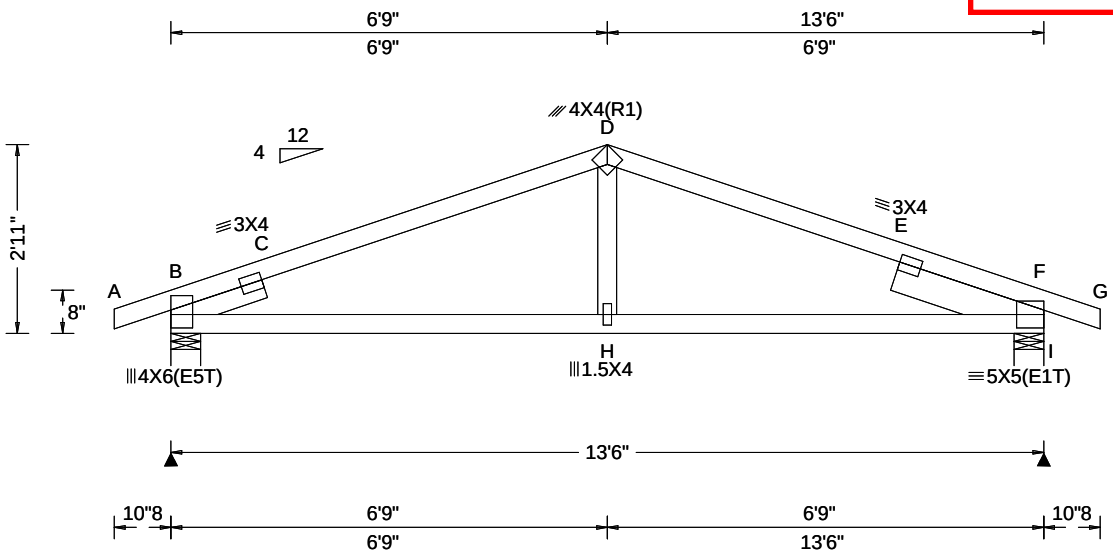
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9987 / COMN FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** C6	Cust: R 9646 JRef: LYHW96460004 T8 / DrwNo: 054-26-1301-06514 BM 02/23/2026



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: 29.66 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): 0.131	E	999	240
VERT(CL): 0.198	E	816	180
HORZ(LL): -0.039	E	-	-
HORZ(TL): 0.056	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.838
Max BC CSI: 0.578
Max Web CSI: 0.177

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	679	/-	/-	/357	/112	/17
I	679	/-	/-	/357	/112	/-

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	527	- 1447	D - E	285	- 1032
C - D	285	- 1051	E - F	493	- 1396

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	954	- 191	H - F	954	- 191

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: 2x6 SP #2; block length = 2.366'

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	13.50

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
02/23/2026

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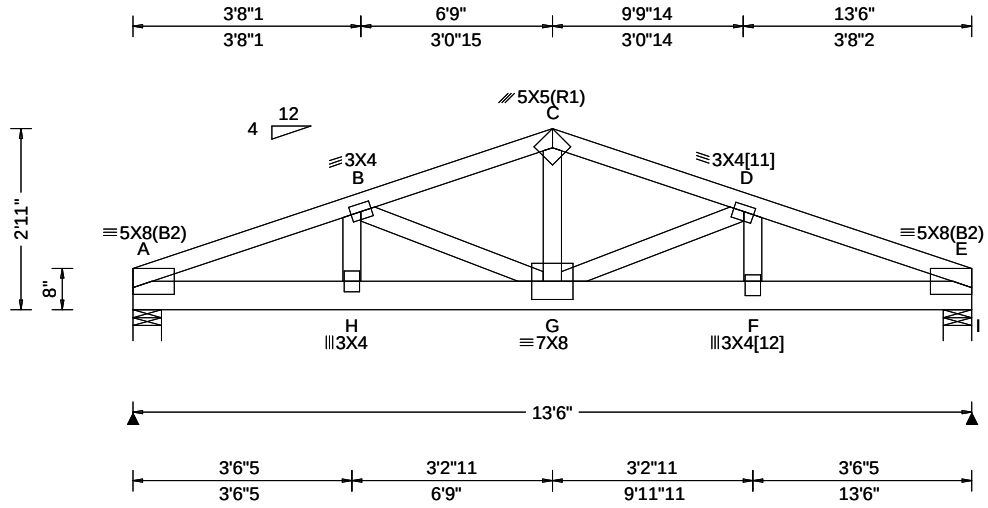
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10100 / COMN FROM:	Ply: 2 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** C7	Cust: R 9646 JRef: LYHW96460004 T18 Drwng: 054-26-1301-65352 TBM 02/23/2026

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: 29.80 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): 0.117	G	999	240
VERT(CL): 0.212	G	748	180
HORZ(LL): 0.030	E	-	-
HORZ(TL): 0.054	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.675
Max BC CSI: 0.738
Max Web CSI: 0.564

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	5652	/-	/-	/-	/173	/-
I	5228	/-	/-	/-	/457	/-

Wind reactions based on MWFRS
A Brg Wid = 5.5 Min Req = 3.9 (Support)
I Brg Wid = 5.5 Min Req = 3.6 (Support)
Bearings A & I 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	187	-4806	C - D	219	-4125
B - C	220	-4127	D - E	397	-5034

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - H	4485	-169	G - F	4643	-360
H - G	4444	-173	F - E	4696	-366

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	606	0	G - D	173	-792
B - G	0	-571	D - F	794	-102
C - G	2300	-85			

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

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 71 plf at 0.00 to 71 plf at 13.50
BC: From 20 plf at 0.00 to 20 plf at 13.50
BC: 1457 lb Conc. Load at 1.00, 3.00, 5.00, 7.00
BC: 1520 lb Conc. Load at 9.00
BC: 2213 lb Conc. Load at 10.93
BC: 88 lb Conc. Load at 13.00

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[11]	3X4	S	1.25	[12]	3X4	S	2.75

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	0.30	13.20

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.

MISSOURI COA #2005000817
02/23/2026

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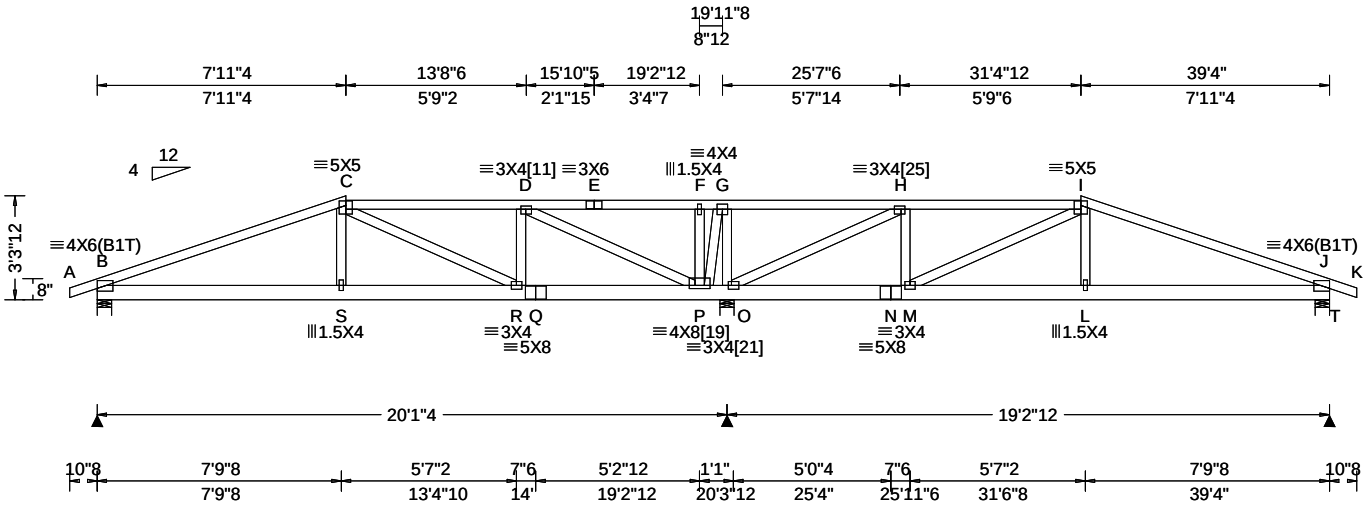
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 10049 / HIPS FROM:	Ply: 2 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** D1

Cust: R 9646 JRef: LYHW96460004 T27
DrwNo: 054-26-1301-64452
I BM 02/23/2026

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: 20.36 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.93 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): 0.055	S	999	240
VERT(CL): 0.098	S	999	193
HORZ(LL): 0.021	J	-	-
HORZ(TL): 0.038	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.916
Max BC CSI: 0.858
Max Web CSI: 0.557

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	945	/-	/-	/-	/58	/-
O	4920	/-	/-	/-	/250	/-
T	797	/-	/-	/-	/50	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
O Brg Wid = 5.5 Min Req = 3.4 (Support)
T Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearings B, O, & T 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	53	-1034	F - G	893	-44
C - D	37	-792	G - H	1307	-66
D - E	893	-44	H - I	18	-434
E - F	893	-44	I - J	42	-836

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - S	963	-46	O - N	398	-24
S - R	960	-49	N - M	398	-24
R - Q	761	-43	M - L	771	-39
Q - P	761	-43	L - J	775	-36
P - O	56	-1167			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - P	97	-1792	O - H	102	-1842
P - G	1121	-48	M - I	24	-417
G - O	101	-1352			

Lumber

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

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @11.25" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / 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 39.33
TC: From 71 plf at 39.33 to 71 plf at 40.21
BC: From 10 plf at 0.00 to 10 plf at 39.33
TC: 268 lb Conc. Load at 8.00,10.00,12.00,14.00 16.00,18.00,19.33,21.33,23.33,25.33,27.33,29.33 31.33
BC: 93 lb Conc. Load at 8.00,10.00,12.00,14.00 16.00,18.00,19.33,21.33,23.33,25.33,27.33,29.33 31.33

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift		Chord Bite
[11]	3X4	2.25	R	1.25	[19]	4X8	S		1.25
[21]	3X4	2.75	R	1.50	[25]	3X4	1.50	R	1.25

Snow

Overhang designed for 2.00X TC LL.

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	31.40
BC	120	0.30	39.04

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
02/23/2026

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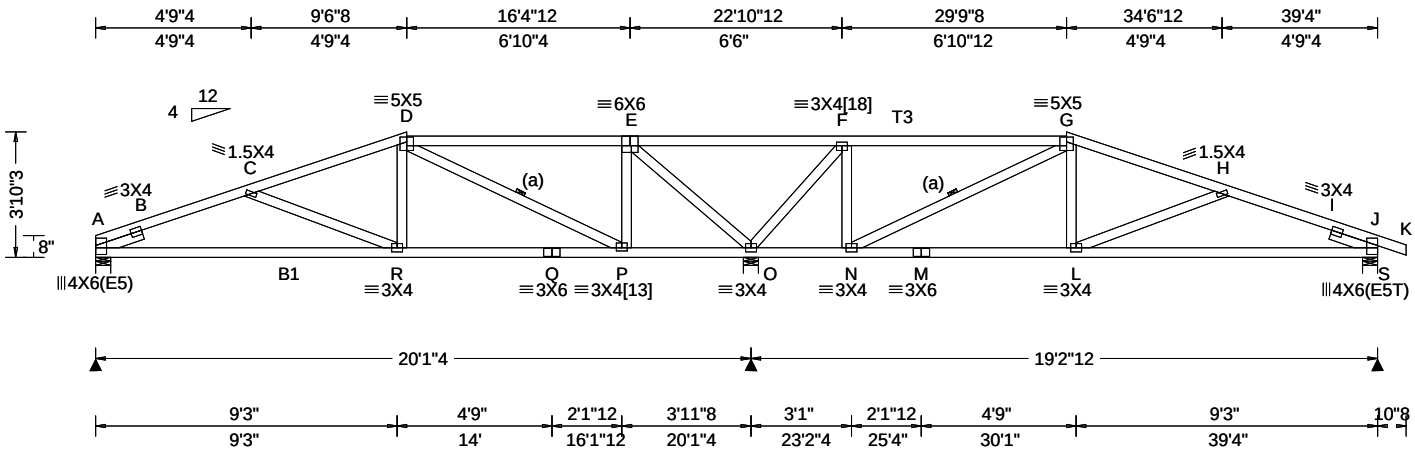
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10070 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** D2

Cust: R 9646 JRef:1YHW96460004 T37
Drwng: 054-26.1301.66556
BM 02/23/2026



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: 20.63 ft
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.93 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): 0.053	B	999	240
VERT(CL): 0.098	B	999	193
HORZ(LL): 0.023	J	-	-
HORZ(TL): 0.042	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.728
Max BC CSI: 0.998
Max Web CSI: 0.740

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	835	/-	/-	/-	/24	/-
O	2300	/-	/-	/-	/112	/-
S	781	/-	/-	/-	/42	/-

Wind reactions based on MWFRS
A Brg Wid = 5.5 Min Req = 1.5 (Support)
O Brg Wid = 5.5 Min Req = 2.9 (Support)
S Brg Wid = 5.5 Min Req = 1.5 (Support)
Bearings A, O, & S 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	586	- 2612	F - G	389	- 29
B - C	77	- 1433	G - H	14	- 975
C - D	28	- 1161	H - I	96	- 1372
E - F	1319	- 86	I - J	339	- 1421

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - R	1363	- 70	N - M	854	- 10
R - Q	1026	- 26	M - L	854	- 10
Q - P	1026	- 26	L - J	1274	- 82
O - N	26	- 421			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - D	533	0	O - F	96	- 1423
D - P	51	- 1267	F - N	613	0
P - E	611	0	N - G	44	- 1143
E - O	97	- 1604	L - H	85	- 443

Lumber

Top chord: 2x4 SP #2; T3 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2; B1 2x4 SP 2400f-2.0E;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'
Rt Slider: 2x4 SP #2; block length = 1.500'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

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

TC: From	36 plf at	0.00 to	36 plf at	6.06
TC: From	71 plf at	6.06 to	71 plf at	40.21
BC: From	10 plf at	0.00 to	10 plf at	6.06
BC: From	20 plf at	6.06 to	20 plf at	39.33

TC: 66 lb Conc. Load at 2.06
BC: 93 lb Conc. Load at 2.06
BC: 157 lb Conc. Load at 4.06, 6.06

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[13]	3X4	S	1.25	[18]	3X4	S	1.25

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)
TC	24	9.54	29.79
BC	84	0.00	39.33

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 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
02/23/2026

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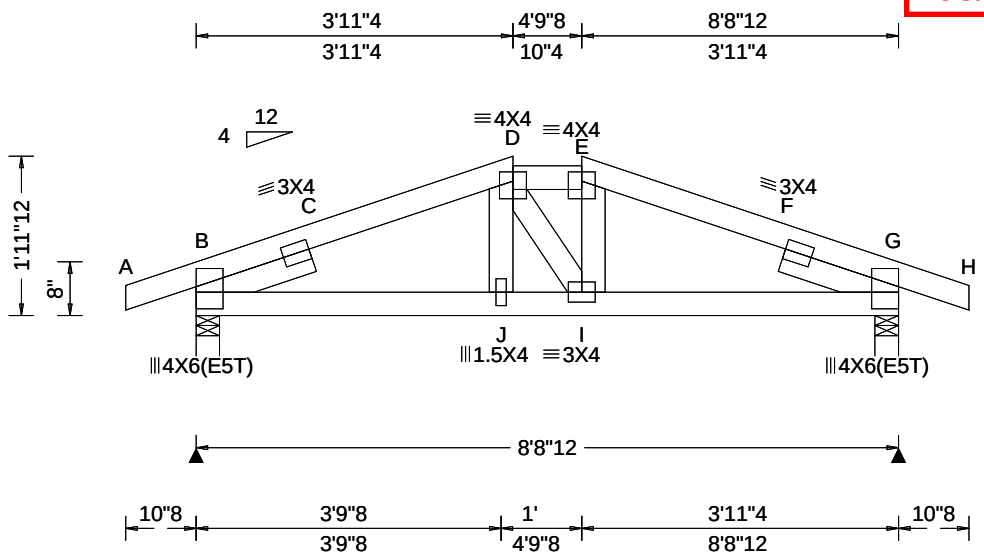
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10031 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** E1	Cust: R 9646 JRef:1YHW96460004 T31 DrwNo: 054-26.1301.65503 BM 02/23/2026



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: 23.21 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): 0.040	F	999	240
VERT(CL): 0.063	F	999	180
HORZ(LL): 0.015	C	-	-
HORZ(TL): 0.024	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.561
Max BC CSI: 0.459
Max Web CSI: 0.097

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	645	/-	/-	/-	/89	/-
G	645	/-	/-	/-	/89	/-

Wind reactions based on MWFRS
B Brg Wid = 3.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings B & G Fcperp = 565psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	141	-986	E - F	107	-932
C - D	106	-935	F - G	143	-983
D - E	94	-844			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	849	-94	I - G	846	-95
J - I	842	-95			

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'

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 71 plf at -0.88 to 71 plf at 9.61
BC: From 10 plf at 0.00 to 10 plf at 8.73
TC: 87 lb Conc. Load at 2.00, 6.73
BC: 139 lb Conc. Load at 2.00, 6.73

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	4.79
BC	105	0.00	8.73

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
02/23/2026

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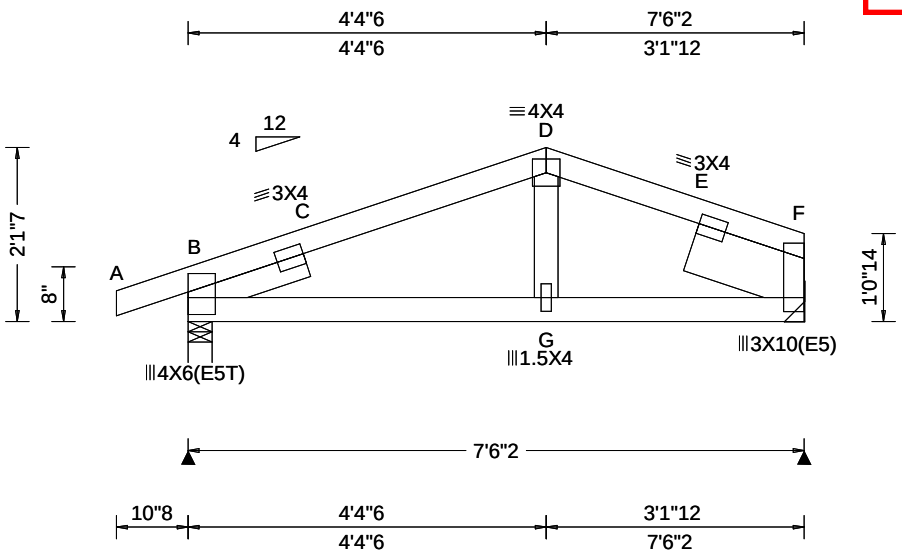
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9980 / SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** E2	Cust: R 9646 JRef: IYHW96460004 T41 DrwNo: 054-26-1301-64832 BM 02/23/2026



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): 0.034	C	999	240
VERT(CL): 0.054	C	999	180
HORZ(LL): 0.014	C	-	-
HORZ(TL): 0.022	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.307
Max BC CSI: 0.237
Max Web CSI: 0.089

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	408	/-	/-	/200	/6	/20
F	342	/-	/-	/183	/5	/-

Wind reactions based on MWFRS
B Brg Wid = 3.5 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	264	-536	D - E	170	-430
C - D	156	-427	E - F	176	-480

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	384	-129	G - F	384	-129

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: 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	90	0.00	7.51

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
02/23/2026

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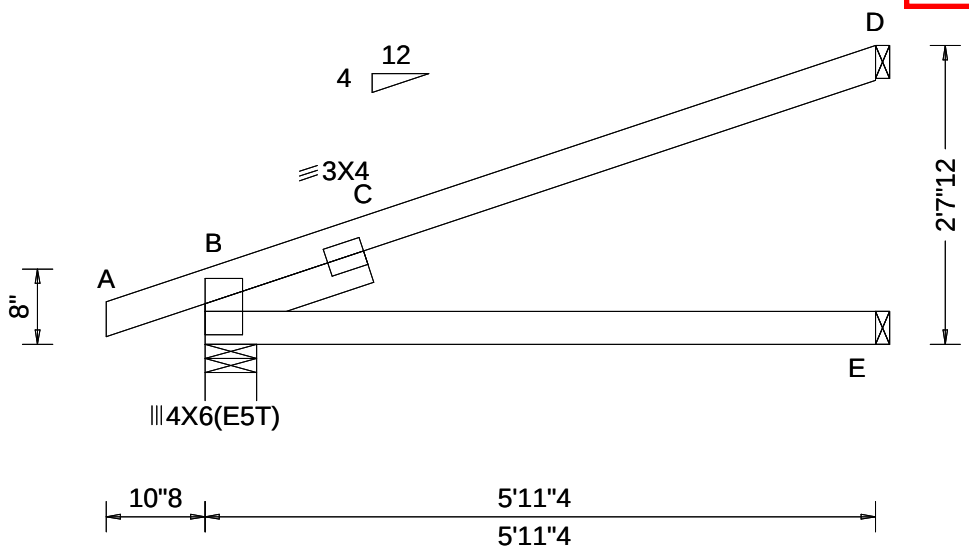
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10003 / EJAC FROM:	Ply: 1 Qty: 23	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J6

Cust: R 9646 JRef:1YHW96460004 T11
DrwNo: 054-26.1301.65914
BM 02/23/2026



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: 29.52 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: 0.237

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	337	/-	/-	/162	/39	/85
E	74	/-	/-	/63	/-	/-
D	196	/-	/-	/91	/82	/-

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	1027	-1151

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
02/23/2026

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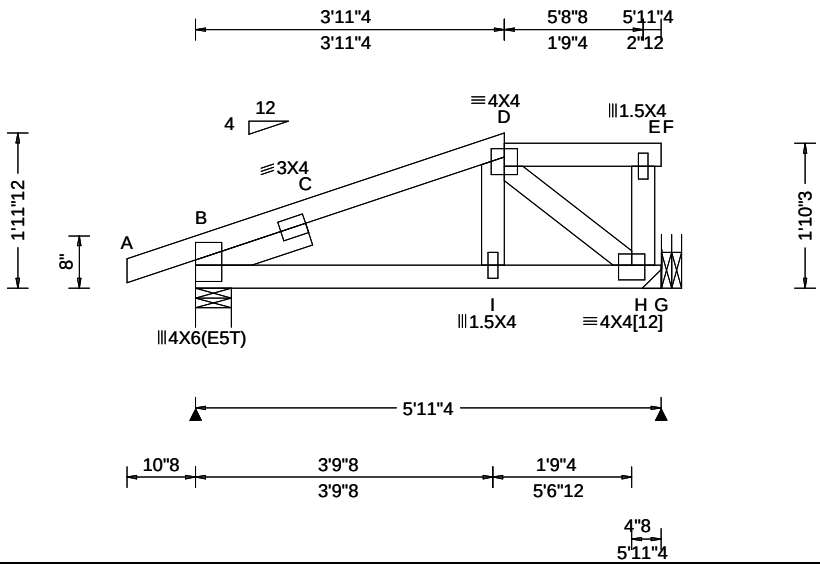
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9989 / MHJA FROM:	Ply: 1 Qty: 6	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J13

Cust: R 9646 JRef:1YHW96460004 T7 /
DrwNo: 054-26.1301.64928
BM 02/23/2026



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: 29.19 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): 0.029	C	999	240
VERT(CL): 0.043	C	999	180
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.017	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.175
Max Web CSI: 0.128

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	333	/-	/-	/162	/46	/58
G	274	/-	/-	/152	/52	/-

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.
B - C	426	-570

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.

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[12]	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)
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.

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.

MISSOURI COA #2005000817
02/23/2026

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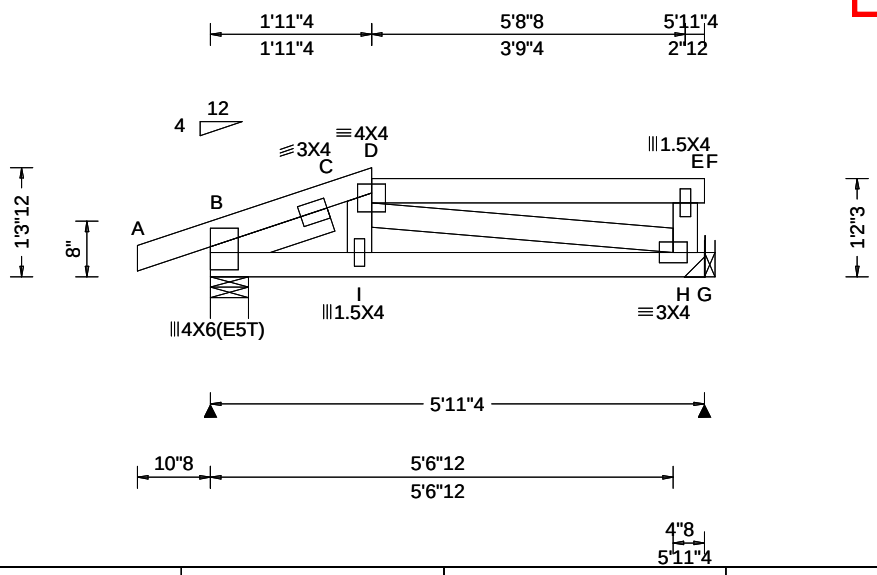
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10073 / NEJA FROM:	Ply: 1 Qty: 6	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J14	Cust: R 9646 JRef:1YHW96460004 T22 Drwng: 054.26.1301.67245 BM 02/23/2026



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: 28.85 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	D	999	240
VERT(CL): 0.012	D	999	180
HORZ(LL): 0.002	C	-	-
HORZ(TL): 0.003	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.182
Max BC CSI: 0.366
Max Web CSI: 0.118

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	348	/-	/-	/-	/82	/-
G	240	/-	/-	/-	/42	/-

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	84	-522	C - D	71	-487

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	458	-68	I - H	434	-67

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - H	64	-422

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	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: 23 lb Conc. Load at 1.95
TC: 20 lb Conc. Load at 4.00
BC: 71 lb Conc. Load at 1.95
BC: 68 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.

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

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.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817
02/23/2026

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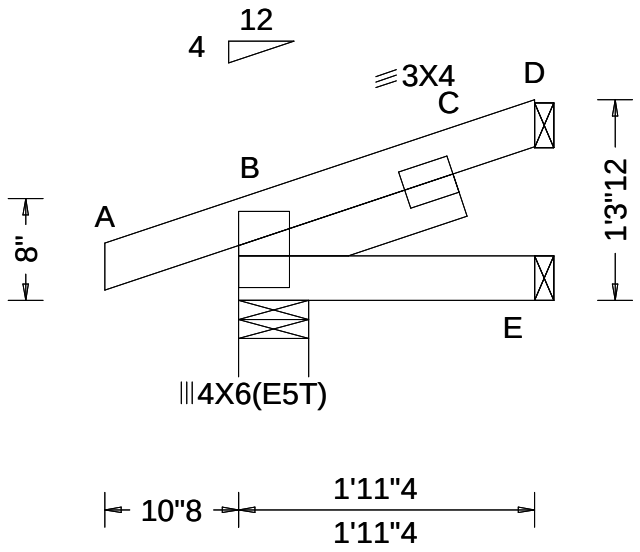
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10013 / JACK FROM:	Ply: 1 Qty: 19	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J15

Cust: R 9646 JRef:1YHW96460004 T71
DrwNo: 054-26-1301-65978
BM 02/23/2026



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: 28.85 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	/-	/-	/66	/18	/32
E	20	/-	/-	/19	/-	/-
D	68	/-2	/-	/31	/28	/-

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
02/23/2026

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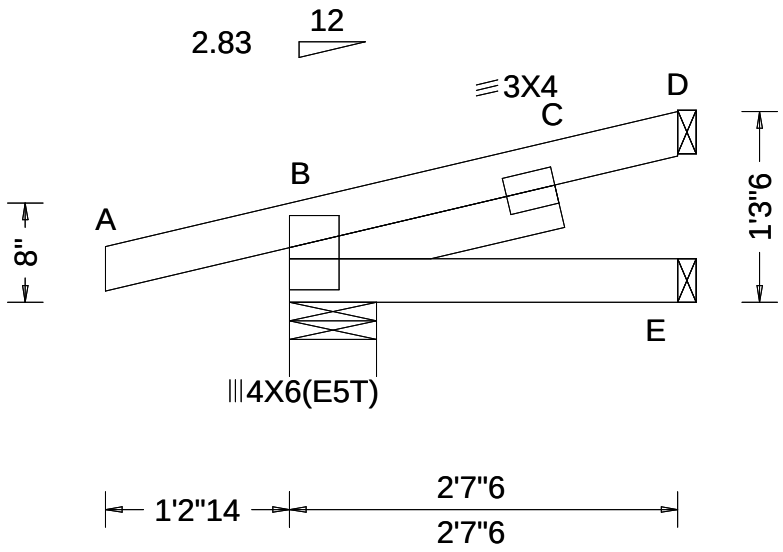
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10016 / HIP_ FROM:	Ply: 1 Qty: 10	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J16

Cust: R 9646 JRef:1YHW96460004 T61
DrwNo: 054-26.1301.67045
BM 02/23/2026



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: 28.84 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	/-	/-	/-	/16	/-
E	2	/-	/-	/2	/-	/-
D	3	/-4	/-	/4	/-	/-

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
02/23/2026

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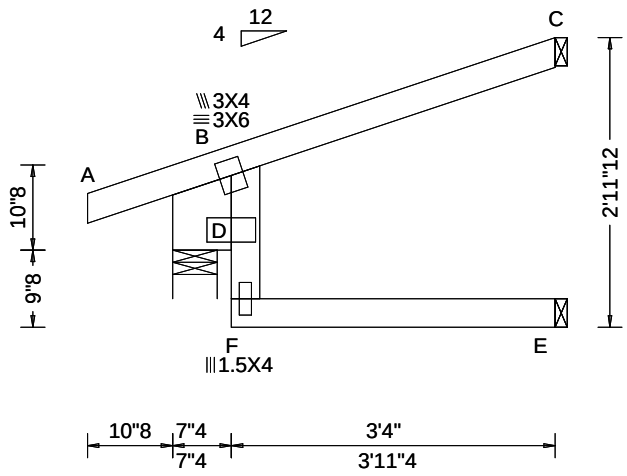
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 11509 / SPEC FROM:	Ply: 1 Qty: 3	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J17	Cust: R 9646 JRef:1YHW96460004 T39 7 DrwNo: 054-26.1325.45921 BM 02/23/2026



▲

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: 21.76 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):	0.006	B	999	240
VERT(CL):	0.009	F	999	180
HORZ(LL):	0.002	B	-	-
HORZ(TL):	0.003	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.283
Max BC CSI: 0.086
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
D	261	/-	/-	/115	/34	/-
E	33	/-	/-	/33	/-	/10
C	128	/-	/-	/51	/9	/64

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearing D Fcperp = 565psi.
Members not listed have forces less than 375#

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

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	40	0.00	3.33

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
02/23/2026

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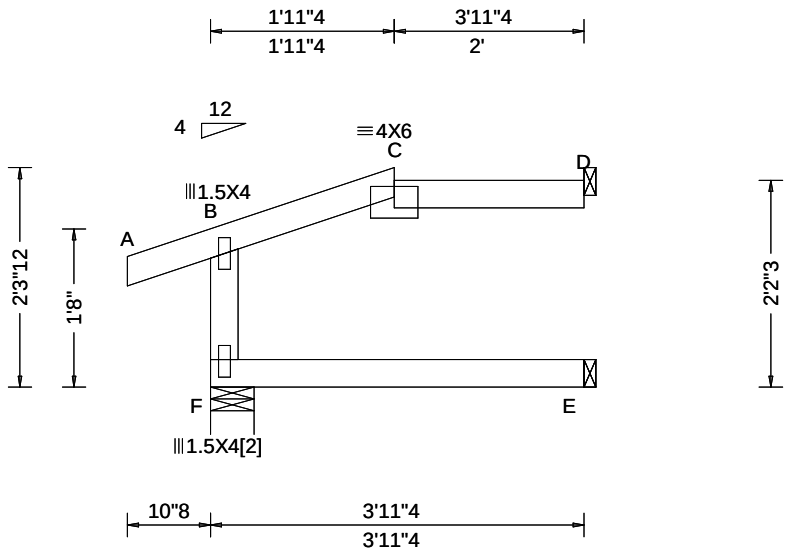
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10022 / EJAC FROM:	Ply: 1 Qty: 2	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J18

Cust: R 9646 JRef: LYHW96460004 T35
DrwNo: 054-26-1301-66440
BM 02/23/2026



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: 30.85 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): 0.055	C	856	240
VERT(CL): 0.078	C	602	180
HORZ(LL): -0.018	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.310
Max BC CSI: 0.123
Max Web CSI: 0.055

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	248	/-	/-	/116	/36	/-
E	39	/-	/-	/39	/-	/20
D	140	/-	/-	/57	/46	/41

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing F 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;

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[2]	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)
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 based on MWFRS.

Left 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
02/23/2026

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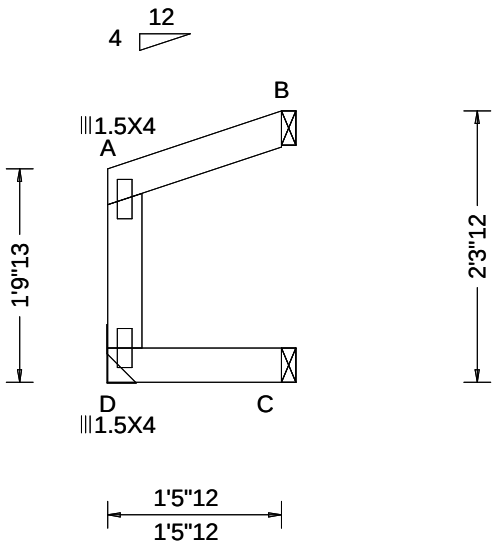
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9994 / JACK FROM:	Ply: 1 Qty: 2	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J21

Cust: R 9646 JRef: 1YHW96460004 T47
DrwNo: 054-26-1301-65407
BM 02/23/2026



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: 31.08 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):	0.000	A	999	240
VERT(CL):	0.000	A	999	180
HORZ(LL):	0.000	A	-	-
HORZ(TL):	0.000	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.041
Max BC CSI: 0.015
Max Web CSI: 0.038

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	67	/-	/-	/47	/21	/-
C	15	/-	/-	/15	/-	/23
B	53	/-	/-	/22	/11	/45

Wind reactions based on MWFRS
D Brg Wid = - Min Req = -
C Brg Wid = 1.5 Min Req = -
B Brg Wid = 1.5 Min Req = -
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	18	0.00	1.48

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.

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

Wind loading based on both gable and hip roof types.

MISSOURI COA #2005000817
02/23/2026

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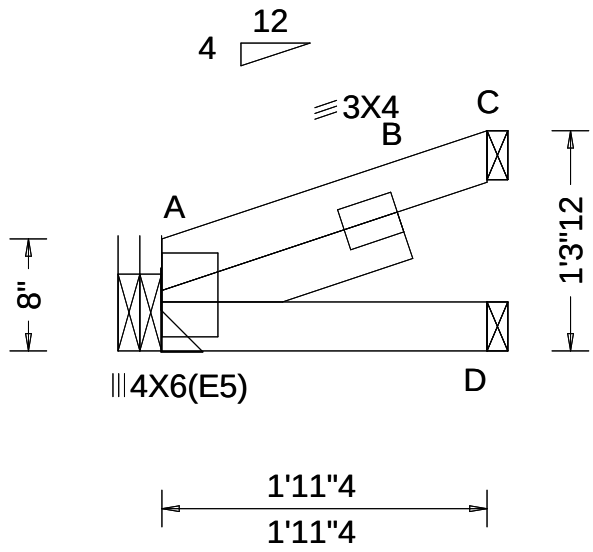
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9995 / JACK FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J22

Cust: R 9646 JRef:1YHW96460004 T60 7
DrwNo: 054-26.1301.66925
BM 02/23/2026



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: 29.00 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): 0.001	B	-	-
HORZ(TL): 0.002	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.080
Max BC CSI: 0.024
Max Web CSI: 0.007

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	88	/-	/-	/47	/-	/18
D	20	/-	/-	/19	/-	/-
C	68	/-	/-	/32	/19	/-

Wind reactions based on MWFRS
A Brg Wid = - Min Req = -
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
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.

Hangers / Ties

(J) Hanger Support Required, by others

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
02/23/2026

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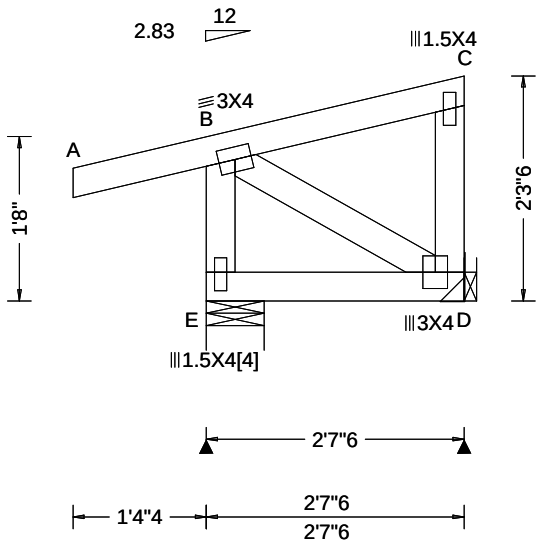
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9996 / MONO FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J23

Cust: R 9646 JRef:1YHW96460004 T17
DrwNo: 054-26-1301-66416
TBM 02/23/2026



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: 30.83 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):	0.000	B	999	240
VERT(CL):	0.001	B	999	180
HORZ(LL):	-0.000	C	-	-
HORZ(TL):	0.001	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.239
Max BC CSI: 0.047
Max Web CSI: 0.047

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	258	/-	/-	/91	/41	/72
D	118	/-	/-	/77	/46	/-

Wind reactions based on MWFRS
E Brg Wid = 7.0 Min Req = 1.5 (Support)
D Brg Wid = - Min Req = -
Bearing E 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;

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[4]	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	31	0.00	2.62

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

Wind
Wind loads based on MWFRS.
Left end vertical exposed to wind pressure. Deflection meets L/180.
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
02/23/2026

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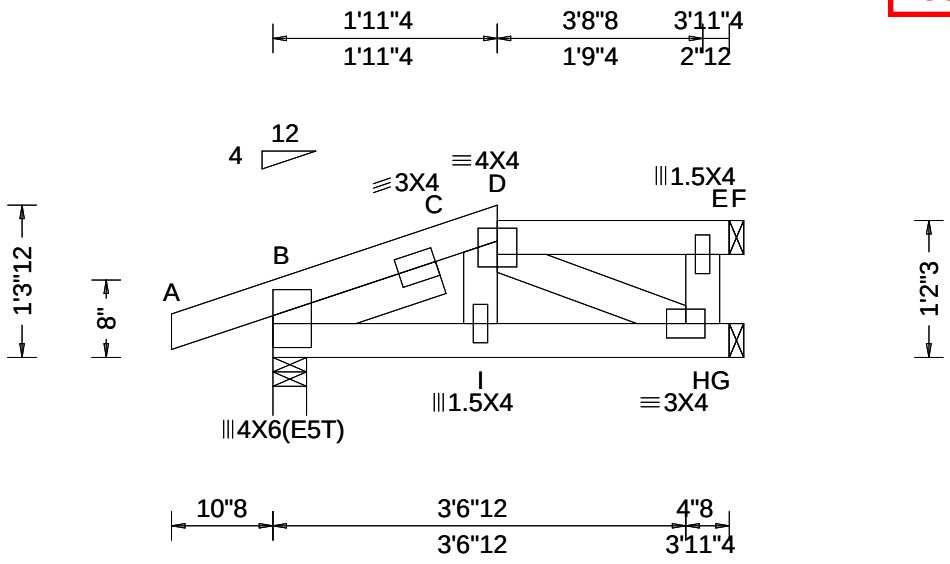
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10009 / NEJA FROM:	Ply: 1 Qty: 2	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J24

Cust: R 9646 JRef:1YHW96460004 T1 /
DrwNo: 054-26-1301-67493 /
BM 02/23/2026



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): 0.005	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: 0.119
Max Web CSI: 0.041

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	296	/-	/-	/-	/19	/-
G	139	/-	/-	/-	/13	/-
F	87	/-	/-	/9	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 3.5 Min Req = 1.5 (Support)
G Brg Wid = 1.5 Min Req = -
F 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;
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.

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
02/23/2026

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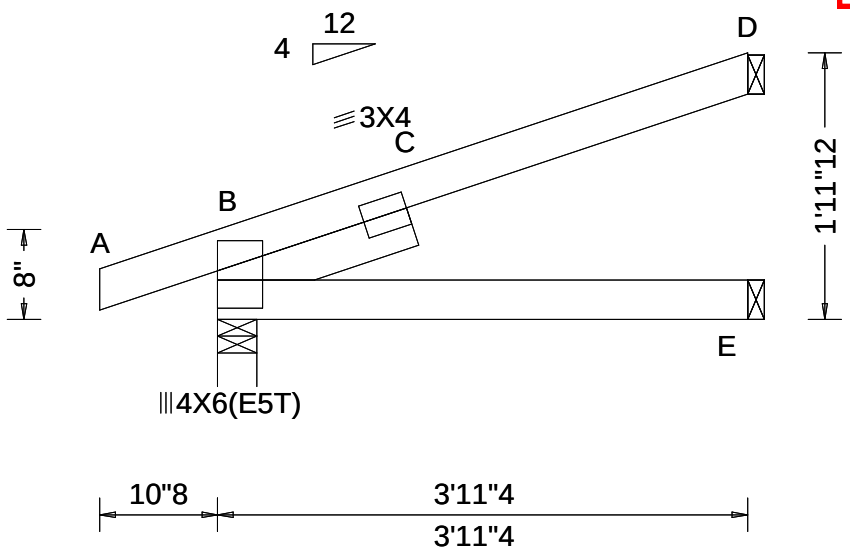
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10028 / EJAC FROM:	Ply: 1 Qty: 2	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J25

Cust: R 9646 JRef:1YHW96460004 T65
DrwNo: 054-26.1301.65435
BM 02/23/2026



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: 23.21 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: 0.086

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	248	/-	/-	/113	/15	/50
E	47	/-	/-	/41	/-	/-
D	132	/-	/-	/62	/44	/-

Wind reactions based on MWFRS
B Brg Wid = 3.5 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	357	- 427

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
02/23/2026

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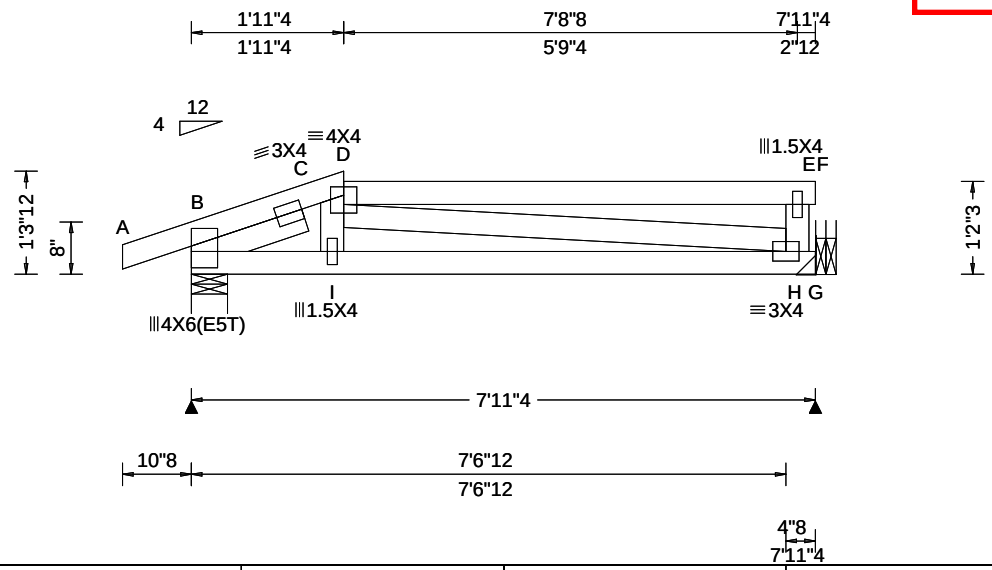
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10046 / NEJA FROM:	Ply: 1 Qty: 2	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J34

Cust: R 9646 JRef: 1YHW96460004 T36
DrwNo: 054-26.1301.66873
BM 02/23/2026



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: 19.36 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): 0.012	D	999	240
VERT(CL): 0.023	D	999	180
HORZ(LL): 0.004	D	-	-
HORZ(TL): 0.008	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.934
Max BC CSI: 0.295
Max Web CSI: 0.327

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	439	/-	/-	/-	/66	/-
G	327	/-	/-	/-	/40	/-

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	59	-678	C - D	50	-642

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	605	-49	I - H	604	-54

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - H	42	-529

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 1.94
TC: From 36 plf at 1.94 to 36 plf at 7.94
BC: From 10 plf at 0.00 to 10 plf at 7.94
TC: 23 lb Conc. Load at 1.95
TC: 20 lb Conc. Load at 4.00, 6.00
BC: 71 lb Conc. Load at 1.95
BC: 68 lb Conc. Load at 4.00, 6.00

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	7.94
BC	95	0.00	7.94

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 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
02/23/2026

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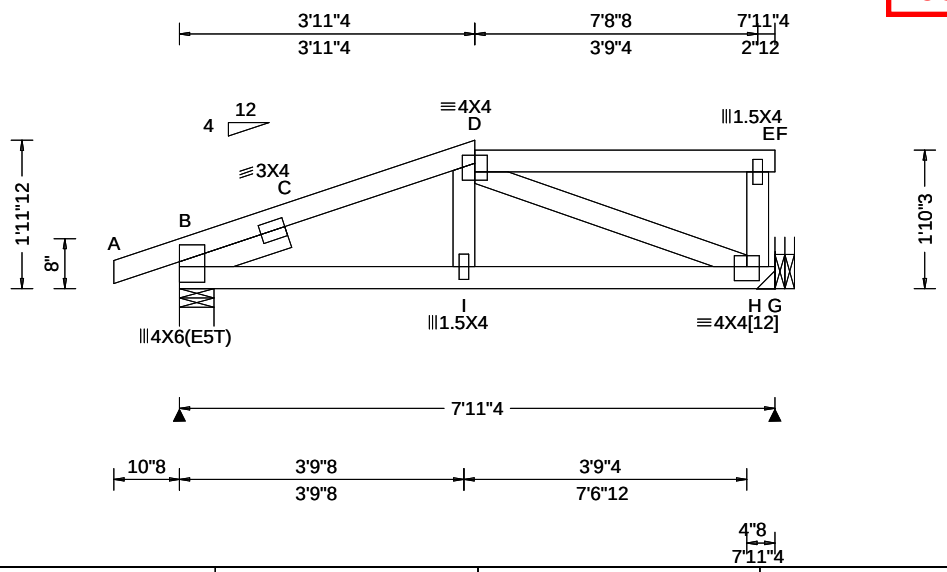
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10034 / MHJA FROM:	Ply: 1 Qty: 2	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J35

Cust: R 9646 JRef:1YHW96460004 T32
DrwNo: 054-26-1301-66073
BM 02/23/2026



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: 19.70 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): 0.044	C	999	180
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.017	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.319
Max BC CSI: 0.213
Max Web CSI: 0.145

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	423	/-	/-	/208	/23	/45
G	365	/-	/-	/198	/29	/-

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	286	- 593	C - D	198	- 505

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	459	- 220	I - H	450	- 224

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - H	233	- 471

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.

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[12]	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)
TC	24	3.94	7.94
BC	95	0.00	7.94

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.

MISSOURI COA #2005000817
02/23/2026

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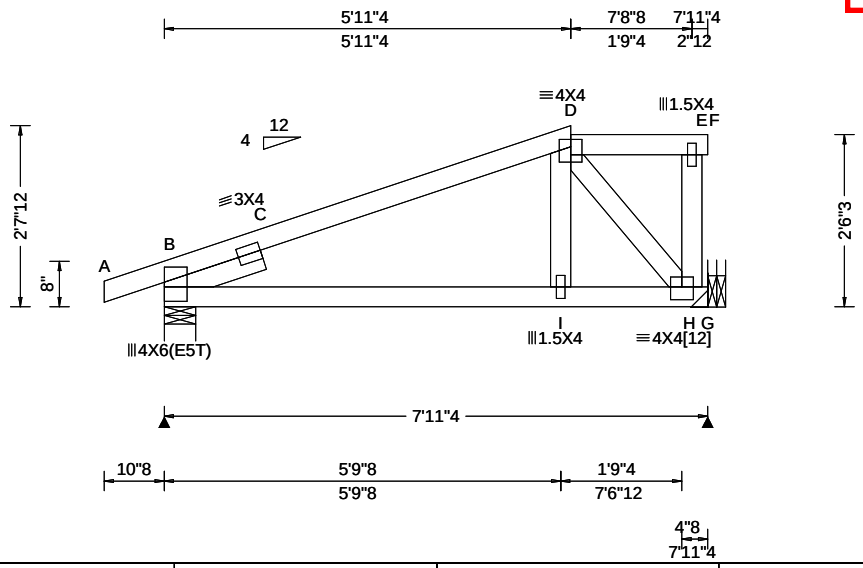
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10037 / MHJA FROM:	Ply: 1 Qty: 2	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J36

Cust: R 9646 JRef:1YHW96460004 T33
DrwNo: 054-26.1301.65979
BM 02/23/2026



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: 20.03 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): 0.097	C	975	240
VERT(CL): 0.146	C	646	180
HORZ(LL): 0.038	C	-	-
HORZ(TL): 0.057	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.716
Max BC CSI: 0.378
Max Web CSI: 0.213

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	423	/-	/-	/208	/19	/66
G	365	/-	/-	/203	/35	/-

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.
B - C	959	-1239

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - H	184	-412

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.

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[12]	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)
TC	24	5.94	7.94
BC	95	0.00	7.94

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.

MISSOURI COA #2005000817
02/23/2026

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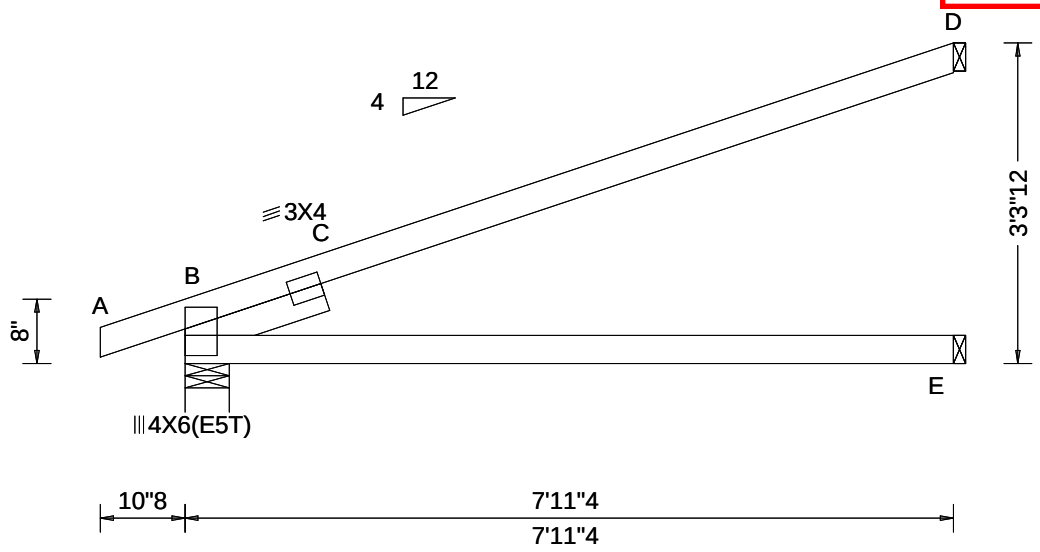
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9981 / EJAC FROM:	Ply: 1 Qty: 13	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J37

Cust: R 9646 JRef:1YHW96460004 T55
DrwNo: 054-26.1301.64280
BM 02/23/2026



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 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): 0.072	C	-	-
HORZ(TL): 0.116	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.669
Max BC CSI: 0.535
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
B	427	/-	/-	/207	/-	/73
E	93	/-	/-	/81	/-	/-
D	268	/-	/-	/127	/56	/-

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	1373	-1524

Lumber
Top chord: 2x4 SP 2400f-2.0E;
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	95	0.00	7.94

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
02/23/2026

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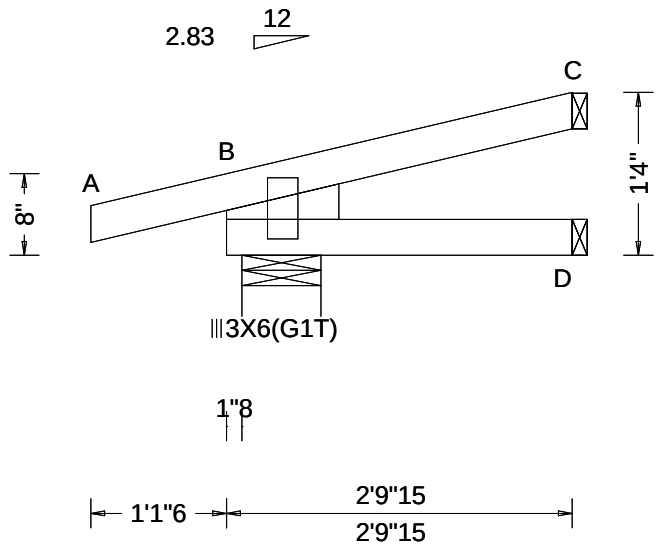
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10063 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J39

Cust: R 9646 JRef:1YHW96460004 T40 7
DrwNo: 054-26.1301.65934
BM 02/23/2026



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: 19.39 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: 0.073
Max BC CSI: 0.067
Max Web CSI: 0.000

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	222	/-	/-	/91	/22	/26
D	33	/-	/-	/28	/-	/-
C	96	/-	/-	/41	/25	/-

Wind reactions based on MWFRS
B Brg Wid = 7.8 Min Req = 1.5 (Support)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Lt Stub Wedge: 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	34	0.00	2.83

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

Wind
Wind loads based on MWFRS.
Left cantilever is exposed to wind
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
02/23/2026

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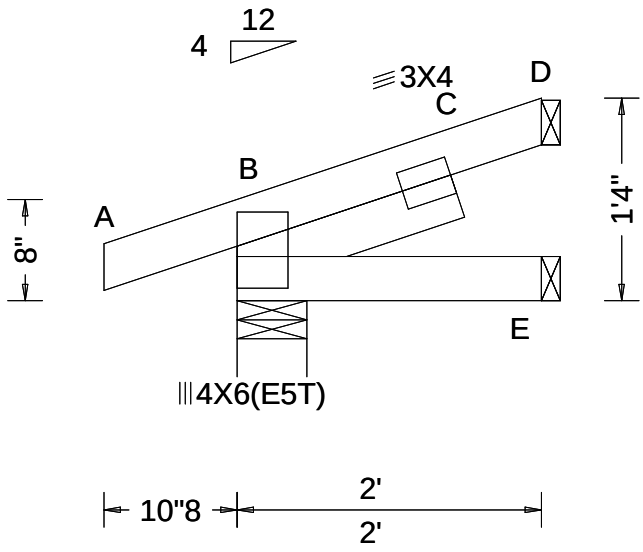
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10057 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J40

Cust: R 9646 JRef:1YHW96460004 T9 /
DrwNo: 054-26.1301.06726
/ BM 02/23/2026



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: 19.38 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: 0.026
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	/-	/-	/67	/5	/25
D	70	/0	/-	/32	/21	/-
E	21	/-	/-	/20	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
D Brg Wid = 1.5 Min Req = -
E 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	24	0.00	2.00

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
02/23/2026

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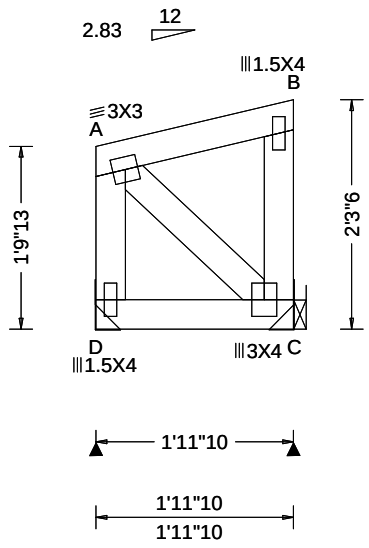
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10002 / MONO FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** J42

Cust: R 9646 JRef: LYHW96460004 T45
DrwNo: 054-26.1301.67.125
BM 02/23/2026



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: 31.06 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):	0.000	B	999	240
VERT(CL):	0.000	B	999	180
HORZ(LL):	-0.000	A	-	-
HORZ(TL):	0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.070
Max BC CSI: 0.026
Max Web CSI: 0.028

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	89	/-	/-	/46	/3	/65
C	89	/-	/-	/75	/52	/-

Wind reactions based on MWFRS
D Brg Wid = - Min Req = -
C Brg Wid = - Min Req = -
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	24	0.00	1.97

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

Wind

Wind loads based on MWFRS.

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

MISSOURI COA #2005000817
02/23/2026

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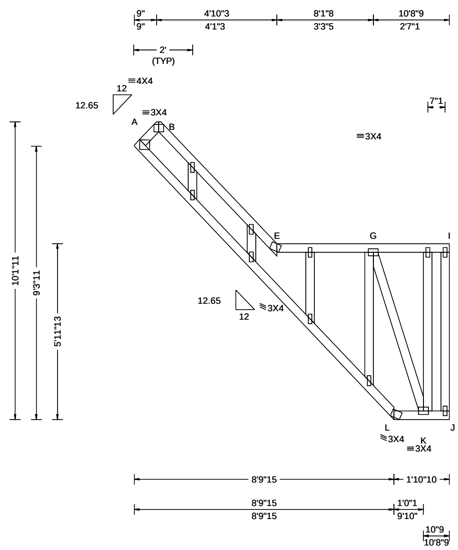
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/06/2026 9:33:30

SEQN: 10103 / HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** LAY1	Cust: R 9646 JRef: 1YHW96460004 T58 / 7 DrwNo: 054.26.1301.06472 / BM 02/23/2026



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
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 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 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: 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: 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): 0.050 C 999 180 HORZ(LL): 0.000 - - - HORZ(TL): 0.051 P - - Creep Factor: 2.0 Max TC CSI: 0.045 Max BC CSI: 0.057 Max Web CSI: 0.020 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

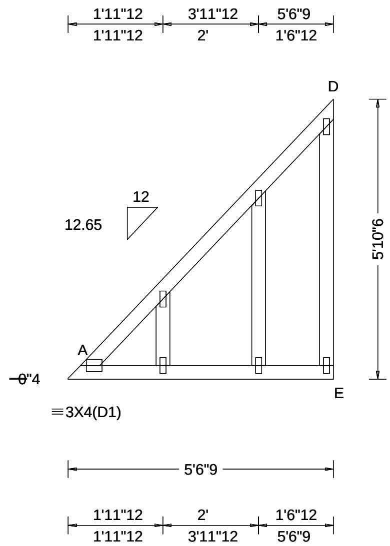
This "Hip Frame" may be used in place of purlins on the hip plane to brace the flat top chord of hip trusses. See detail drawing HIPFRAME0623, HIPFR18000623, or HIPFRSCAB0623 for additional information.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER
PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817
02/23/2026

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/06/2026 9:33:30

SEQN: 10106 / HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** LAY2	Cust: R 9646 JRef: 1YHW96460004 T49 DrwNo: 054.26.1301.06030 / BM 02/23/2026



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
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 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 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: 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	PP Deflection in loc L/defl L/# VERT(LL): 0.000 - - 240 VERT(CL): 0.000 A 999 180 HORZ(LL): 0.000 - - - HORZ(TL): 0.000 A - - Creep Factor: 2.0 Max TC CSI: 0.000 Max BC CSI: 0.000 Max Web CSI: 0.001 VIEW Ver: 25.02.00B.1125.14

Lumber

Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP 2400f-2.0E;
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
02/23/2026

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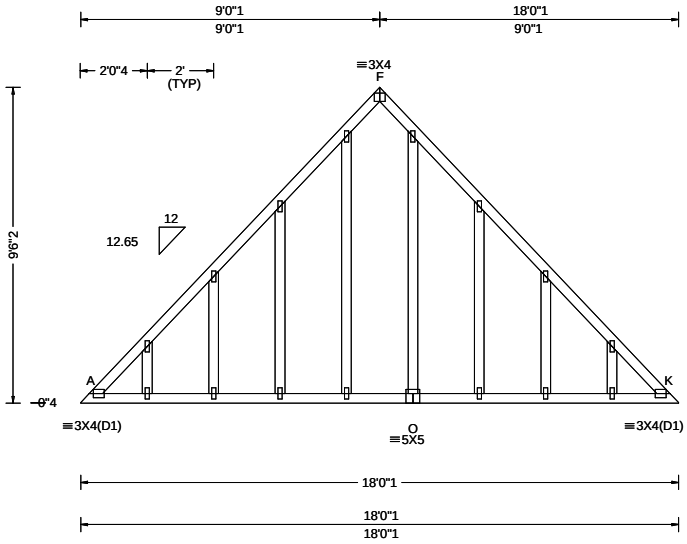
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10085 / HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** LAY3

Cust: R 9646 JRef: TYHW96460004 T62
DrwNo: 054-26-1301-65406
BM 02/23/2026



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
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 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 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: 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	PP Deflection in loc L/defl L/# VERT(LL): 0.000 - - 240 VERT(CL): 0.000 F 999 180 HORZ(LL): 0.000 - - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.001 Max BC CSI: 0.001 Max Web CSI: 0.002 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
02/23/2026

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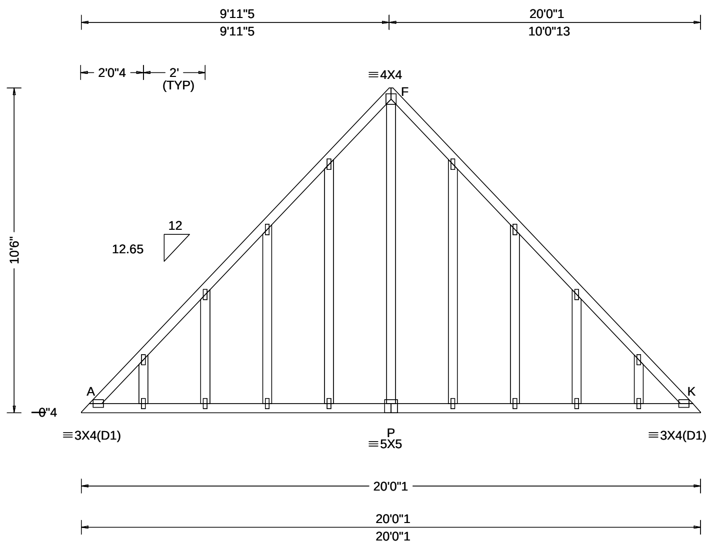
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10082/ HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** LAY4	Cust: R 9646 JRef: 1YHW96460004 T73 7 DrwNo: 054.26.1301.64186 / BM 02/23/2026



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
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 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 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: 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	PP Deflection in loc L/defl L/# VERT(LL): 0.000 - - 240 VERT(CL): 0.000 E 999 189 HORZ(LL): 0.000 - - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.001 Max BC CSI: 0.001 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
02/23/2026

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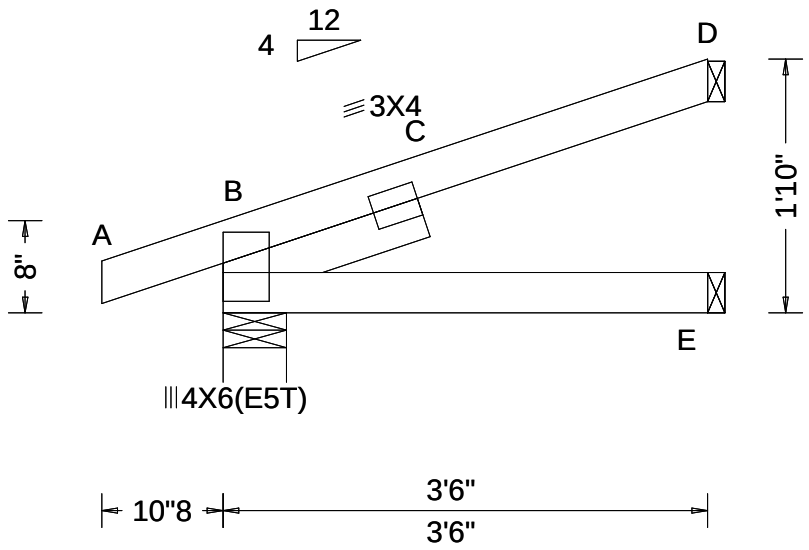
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9982 / MONO FROM:	Ply: 1 Qty: 3	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** M1

Cust: R 9646 JRef: 1YHW96460004 T48 7
DrwNo: 054-26-1301-64345
BM 02/23/2026



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): 0.009	C	-	-
HORZ(TL): 0.014	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.259
Max BC CSI: 0.117
Max Web CSI: 0.056

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	229	/-	/-	/101	/-	/34
D	118	/-	/-	/55	/26	/-
E	41	/-	/-	/36	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
D Brg Wid = 1.5 Min Req = -
E 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	42	0.00	3.50

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
02/23/2026

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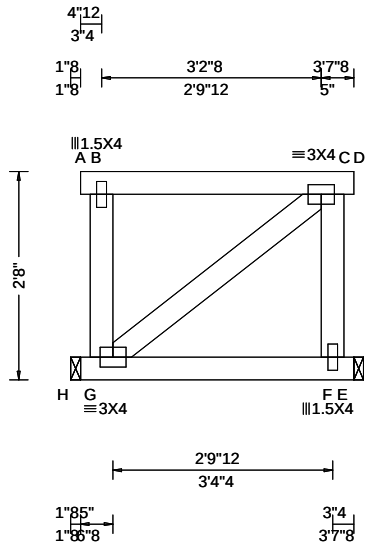
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9983 / FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** M2

Cust: R 9646 JRef:1YHW96460004 T50 7
DrwNo: 054-26-1301-66945
BM 02/23/2026



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: NA
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): 0.001	B	999	240
VERT(CL): 0.003	B	999	180
HORZ(LL): 0.000	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.198
Max BC CSI: 0.098
Max Web CSI: 0.058

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	157	/-	/-	/84	/5	/51
E	157	/-	/-	/101	/20	/-

Wind reactions based on MWFRS
H Brg Wid = 1.5 Min Req = -
E Brg Wid = 1.5 Min Req = -
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	42	0.00	3.50

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.

Snow
Snow loading based on an unobstructed roof.
Complete drainage required.

Additional Notes
Truss must be installed as shown with top chord up.

MISSOURI COA #2005000817
02/23/2026

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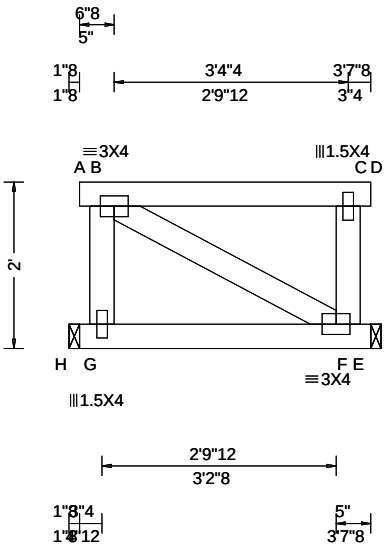
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 9984 / FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** M3

Cust: R 9646 JRef:1YHW96460004 T64
DrwNo: 054-26.1301.66544
BM 02/23/2026



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: NA
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): 0.001	C	999	240
VERT(CL): 0.002	C	999	180
HORZ(LL): -0.000	C	-	-
HORZ(TL): 0.000	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.199
Max BC CSI: 0.099
Max Web CSI: 0.040

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	157	/-	/-	/84	/5	/35
E	157	/-	/-	/92	/12	/-

Wind reactions based on MWFRS
H Brg Wid = 1.5 Min Req = -
E Brg Wid = 1.5 Min Req = -
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	42	0.00	3.50

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.

Snow
Snow loading based on an unobstructed roof.
Complete drainage required.

Additional Notes
Truss must be installed as shown with top chord up.

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

MISSOURI COA #2005000817
02/23/2026

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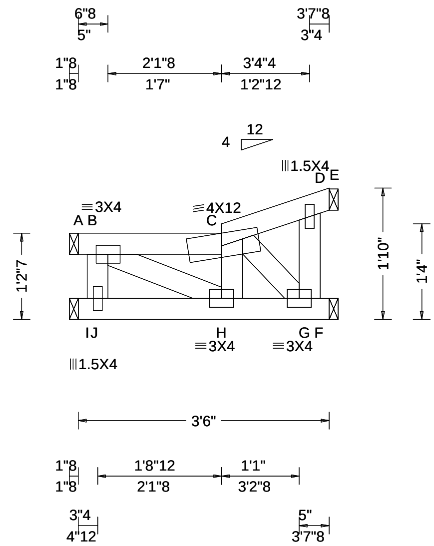
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/06/2026 9:33:32

SEQN: 9985 / HIPM FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** M4

Cust: R 9646 JRef: 1YHW96460004 T66 / DrwNo: 054.26.1301.06504 / BM 02/23/2026



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
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 "	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	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	PP Deflection in loc L/defl L/# VERT(LL): 0.001 C 999 240 VERT(CL): 0.003 C 999 180 HORZ(LL): -0.001 E - - HORZ(TL): 0.001 E - - Creep Factor: 2.0 Max TC CSI: 0.065 Max BC CSI: 0.062 Max Web CSI: 0.040 VIEW Ver: 25.02.00B.1125.14

▲ Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
J	93	/-	/-	/42	/8	/27
A	66	/-	/-	/40	/-	/-
F	93	/-	/-	/52	/7	/-
E	66	/-	/-	/39	/2	/-

Wind reactions based on MWFRS
J Brg Wid = 1.5 Min Req = -
A Brg Wid = 1.5 Min Req = -
F Brg Wid = 1.5 Min Req = -
E Brg Wid = 1.5 Min Req = -
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)
TC	24	0.00	2.00
BC	42	0.00	3.50

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

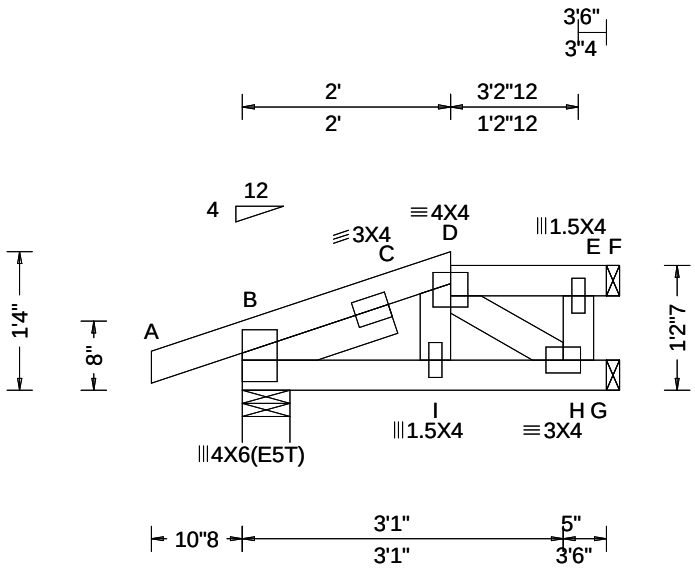
Provide for complete drainage of roof.

STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER
PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817
02/23/2026

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

SEQN: 10110 / HIPM FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** M5

Cust: R 9646 JRef: LYHW96460004 T44
DrwNo: 054-26.1301.66004
BM 02/23/2026



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: 19.38 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	C	999	240
VERT(CL): 0.004	C	999	180
HORZ(LL): 0.001	C	-	-
HORZ(TL): 0.001	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.100
Max BC CSI: 0.063
Max Web CSI: 0.022

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	229	/-	/-	/-	/27	/-
G	89	/-	/-	/-	/8	/-
F	70	/-	/-	/-	/0	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Support)
G Brg Wid = 1.5 Min Req = -
F 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;
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	2.00	3.50
BC	42	0.00	3.50

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.

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02/23/2026

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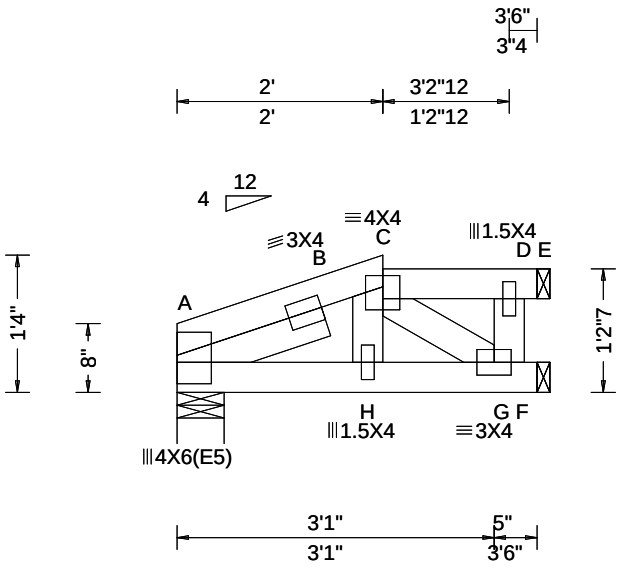
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10067 / HIPM FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** M6

Cust: R 9646 JRef:1YHW96460004 T20 7
DrwNo: 054-26.1301.64515
BM 02/23/2026



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: 19.52 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): 0.004	B	999	180
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.066
Max BC CSI: 0.063
Max Web CSI: 0.022

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	159	/-	/-	/-	/10	/-
F	89	/-	/-	/-	/9	/-
E	70	/-	/-	/-	/1	/-

Wind reactions based on MWFRS
A Brg Wid = 5.5 Min Req = 1.5 (Support)
F Brg Wid = 1.5 Min Req = -
E Brg Wid = 1.5 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;
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	2.00	3.50
BC	42	0.00	3.50

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.

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

MISSOURI COA #2005000817
02/23/2026

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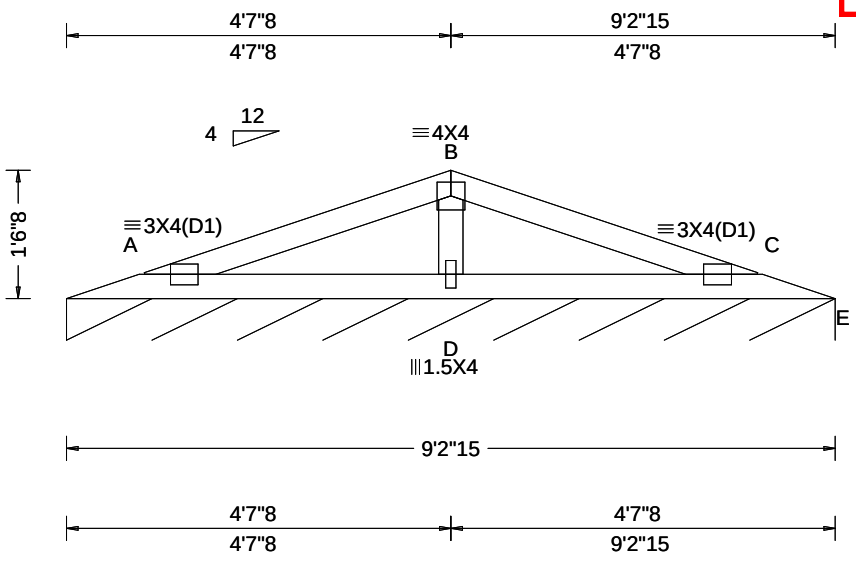
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10004 / VAL FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** V1

Cust: R 9646 JRef: 1YHW96460004 T10
DrwNo: 054-26.1301.67060
BM 02/23/2026



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: 30.31 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): 0.018	C	999	240
VERT(CL): 0.032	C	999	180
HORZ(LL): -0.005	C	-	-
HORZ(TL): 0.009	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.276
Max BC CSI: 0.975
Max Web CSI: 0.049

VIEW Ver: 25.02.00B.1125.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	91	/-	/-	/44	/9	/1

Wind reactions based on MWFRS
E Brg Wid = 110 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	208	- 413

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	111	0.00	9.25

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.

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02/23/2026

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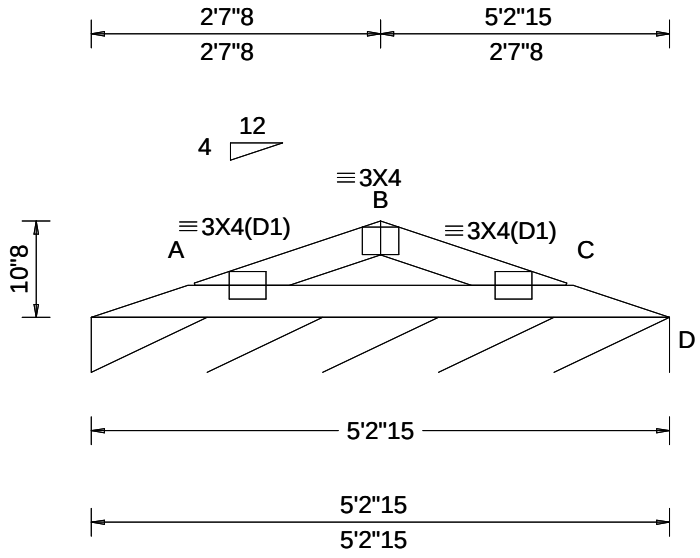
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 10005 / VAL FROM:	Ply: 1 Qty: 1	**Job Number:** PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie **Truss Label:** V2

Cust: R 9646 JRef: 1YHW96460004 T57
DrwNo: 054-26.1301.67399
BM 02/23/2026



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: 30.65 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): 0.015	C	999	240
VERT(CL): 0.028	C	999	180
HORZ(LL): -0.005	A	-	-
HORZ(TL): 0.008	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.160
Max BC CSI: 0.227
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
D*	91	/-	/-	/39	/4	/1

Wind reactions based on MWFRS
D Brg Wid = 63.0 Min Req = -
Bearing A 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	218	-439	B - C	216	-439

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - C	442	-193

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	63	0.00	5.25

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.

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02/23/2026

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Glenview, IL 60025

CLR Reinforcing Member Substitution

This detail is to be used for ANSI/TPI 1-2014 standards and older when a Continuous Lateral Restraint (CLR)is is specified on a truss design and an alternative web reinforcement method is desired.

Notes:

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

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

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

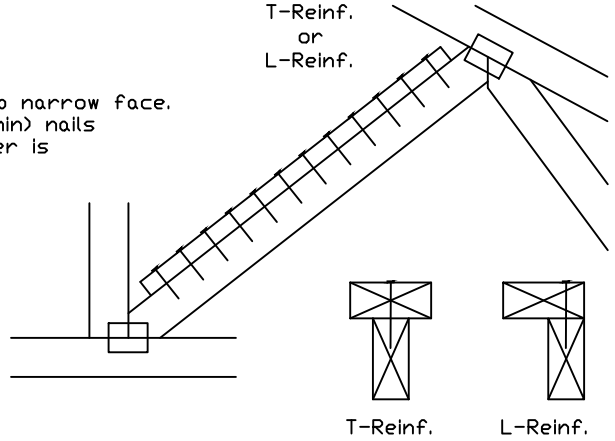
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

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

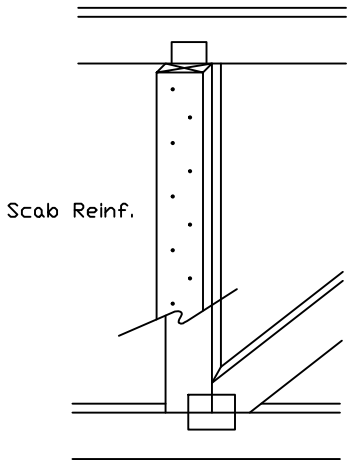
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.131"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.131"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Rev: 01/23/26

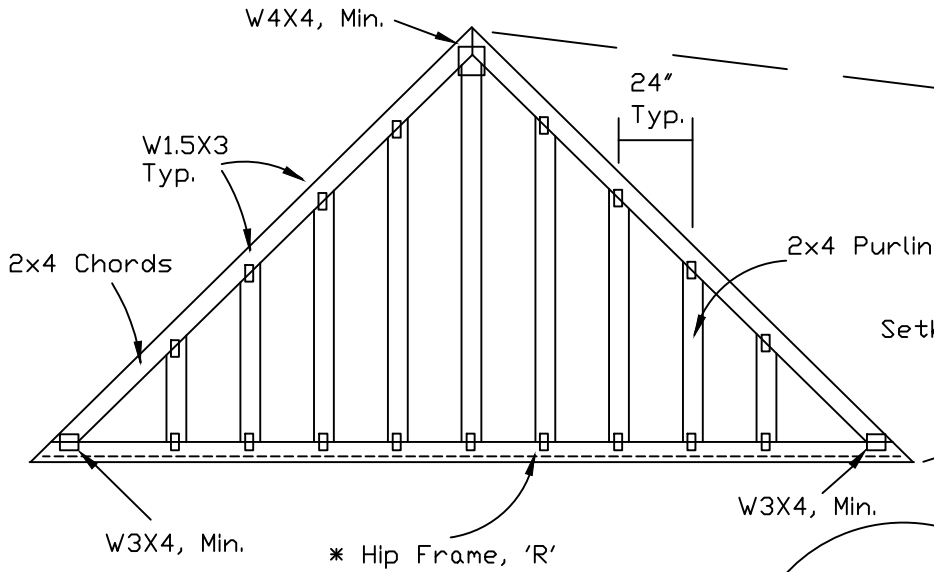
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

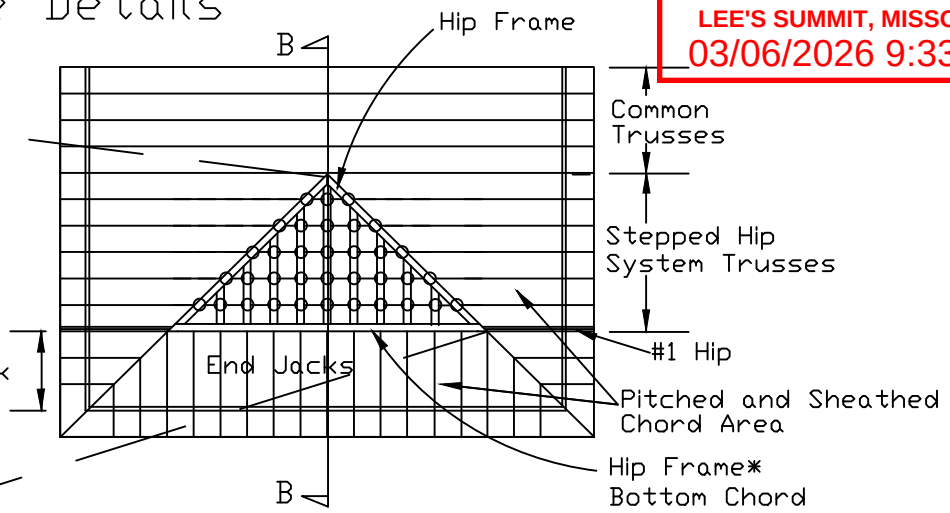
STATE OF MISSOURI
BRADLEY E. MORRIS
NUMBER PE-2002019611
PROFESSIONAL ENGINEER
MISSOURI COA #2005000817

02/28/2026

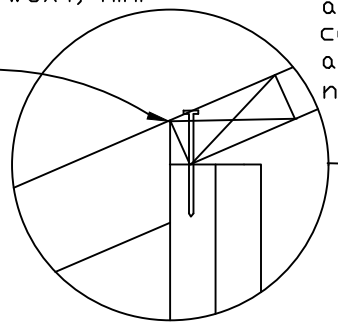
TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
SPACING			

* 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.



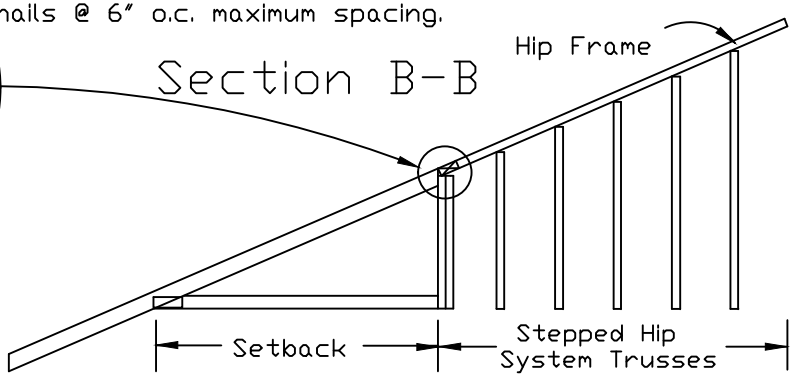
Hip frame stops at plumb cut of jacks to maintain pitch continuity.

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

02/23/2026

REF	HIP FRAME
DATE	06/23/2023
DRWG	HIPFRAME0623

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.

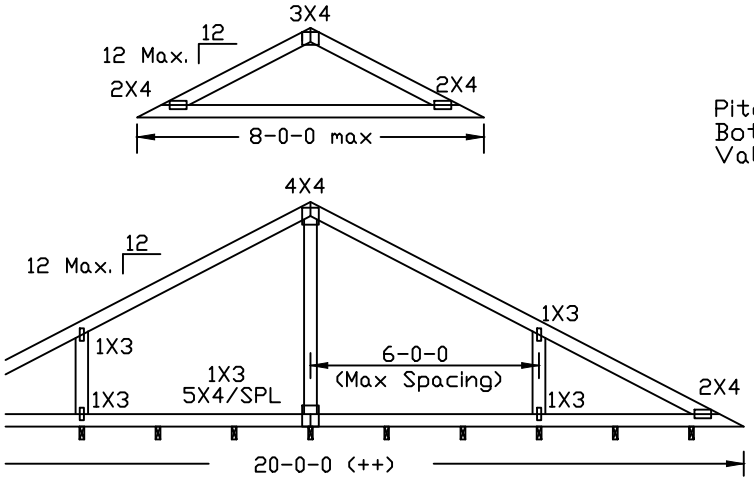
All plates shown are Alpine Wave Plates.

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.

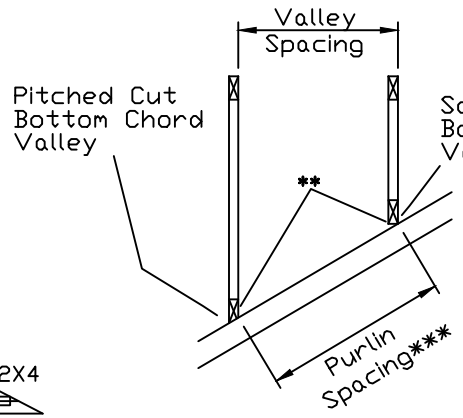
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed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

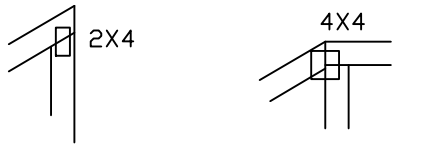
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

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

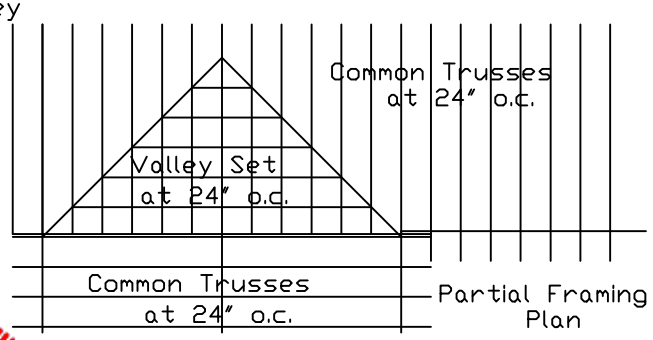


Supporting trusses at 24" o.c. maximum spacing.





Square Cut Bottom Chord Valley
Stubbed Valley End Detail
Optional Hip Joint Detail



Partial Framing Plan

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

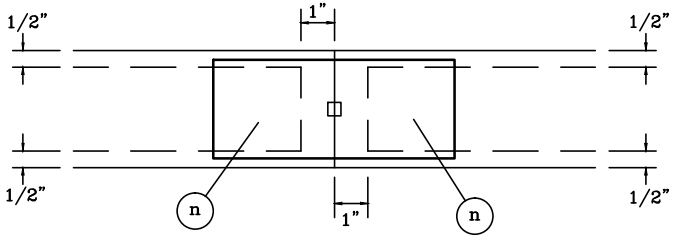
TC LL	30	30	40	PSF
TC DL	20	15	7	PSF
BC DL	10	10	10	PSF
BC LL	0	0	0	PSF
TOT. LD.	60	55	57	PSF
DUR.FAC.	1.25	1.33	1.15	1.15
SPACING		24.0"		

REF	VALLEY DETAIL
DATE	01/26/2018
DRWG	VAL180160118

02/26/2026

TRULOX INFORMATION DETAIL

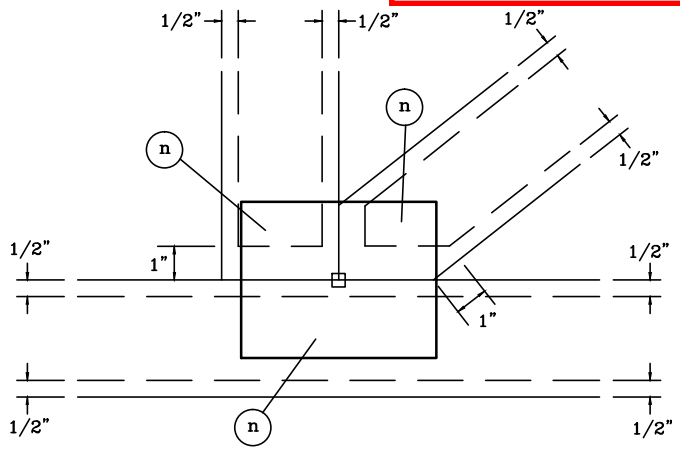
TYPICAL OFF PANEL SPLICE



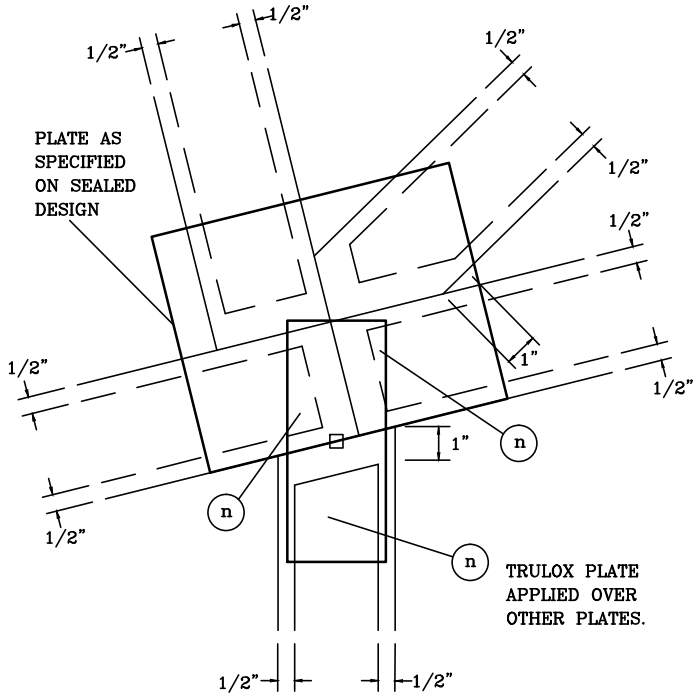
DO NOT APPLY NAILS WITHIN 1/2" OF LUMBER EDGES OR 1" OF LUMBER ENDS ON EACH FACE, AS SHOWN BY DASHED LINES.

NAILS MUST NOT SPLIT LUMBER.

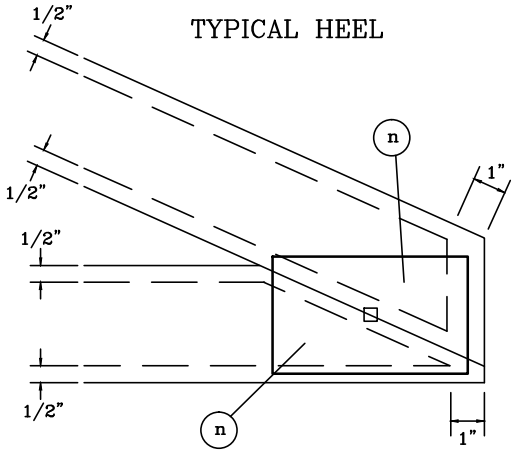
TYPICAL PANEL POINT WITHOUT SPLICE



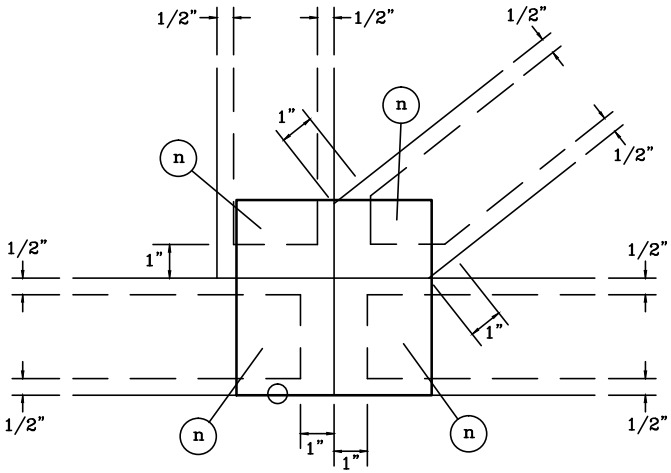
TYPICAL FILLER



TYPICAL HEEL



TYPICAL PANEL POINT SPLICE



NOTES:
(n) IS THE REQUIRED NUMBER OF 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY AS SPECIFIED ON THE SEALED DESIGN REFERENCING THIS DETAIL.
○ LOCATES PLATE CORNER OR FLUSH EDGE.
□ LOCATES PLATE CENTER.

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MISSOURI COA #2005000817

02/23/2026

TRULOX PLATING

160 TL

PAGE 1 OF 1

DATE 10/01/14