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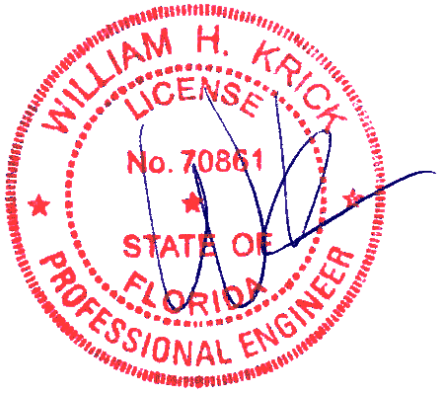
Phone: (800)755-6001
www.alpineitw.com



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COA #0 278

Florida Certificate of Product Approval #FL 1999

05/01/2025

Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	*Job Number:* 25-2571
Job Description: RAPHAEL RESIDENCE	
Address: FL	

Job Engineering Criteria:	
Design Code: FBC 8th Ed. 2023 Res.	*IntelliVIEW Version:* 24.02.00D *JRef #:* 1Y9L2150011
Wind Standard: ASCE 7-22 *Wind Speed (mph):* 130 *Building Type:* Closed	*Design Loading (psf):* 40.00, 55.00

This package contains general notes pages, 58 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	121.25.1345.17400	A01	2	121.25.1345.26887	A02
3	121.25.1345.29720	A03	4	121.25.1345.40733	A04
5	121.25.1345.45697	B01	6	121.25.1345.52747	B02
7	121.25.1345.58450	B03	8	121.25.1346.04950	B04
9	121.25.1346.06443	B05	10	121.25.1346.07810	B06
11	121.25.1346.09110	B07	12	121.25.1346.21947	B08
13	121.25.1346.24490	B09	14	121.25.1346.25880	B10
15	121.25.1346.27180	B11	16	121.25.1346.28370	B12
17	121.25.1346.29607	B13	18	121.25.1346.30850	B14
19	121.25.1346.32233	B15	20	121.25.1346.33500	B16
21	121.25.1346.34803	B17	22	121.25.1346.36103	B18
23	121.25.1346.40203	B19	24	121.25.1346.52070	B20
25	121.25.1346.57070	C01	26	121.25.1352.21560	D01
27	121.25.1347.16127	D02	28	121.25.1347.19717	D03
29	121.25.1347.28387	D04	30	121.25.1352.27060	D05
31	121.25.1347.53133	D06	32	121.25.1359.23000	D07
33	121.25.1347.59000	D08	34	121.25.1348.21127	D09
35	121.25.1348.39130	D10	36	121.25.1349.21800	D11
37	121.25.1349.31813	F01	38	121.25.1349.38820	F02
39	121.25.1349.43960	F03	40	121.25.1349.45913	F04
41	121.25.1353.18327	FT01	42	121.25.1353.25453	FT02
43	121.25.1354.42503	G01	44	121.25.1354.52970	H01
45	121.25.1354.57463	H02	46	121.25.1355.01460	H03
47	121.25.1355.03960	H04	48	121.25.1355.06587	H05
49	121.25.1355.13537	H06	50	121.25.1355.19293	H07

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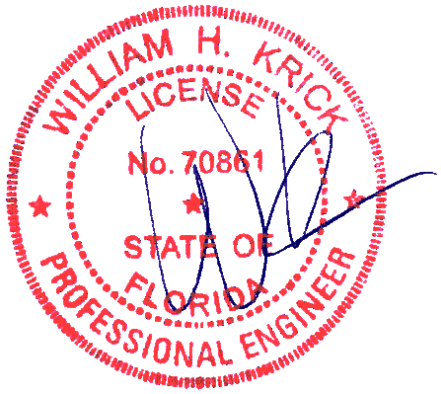

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Site Information:	**Page 2:**
Customer: W. B. Howland Company, Inc.	*Job Number:* 25-2571
Job Description: RAPHAEL RESIDENCE	
Address: FL	

Item	Drawing Number	Truss
51	121.25.1349.57747	J01
53	121.25.1350.02973	V01
55	121.25.1420.08337	V03
57	121.25.1350.23490	V05
59	BRCLBSUB0119	
61	PB160220723	
63	VALTN220723	

Item	Drawing Number	Truss
52	121.25.1350.00907	PB01
54	121.25.1350.07423	V02
56	121.25.1350.21840	V04
58	121.25.1350.25963	V06
60	STRBRIBR1014	
62	VAL180220723	

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)

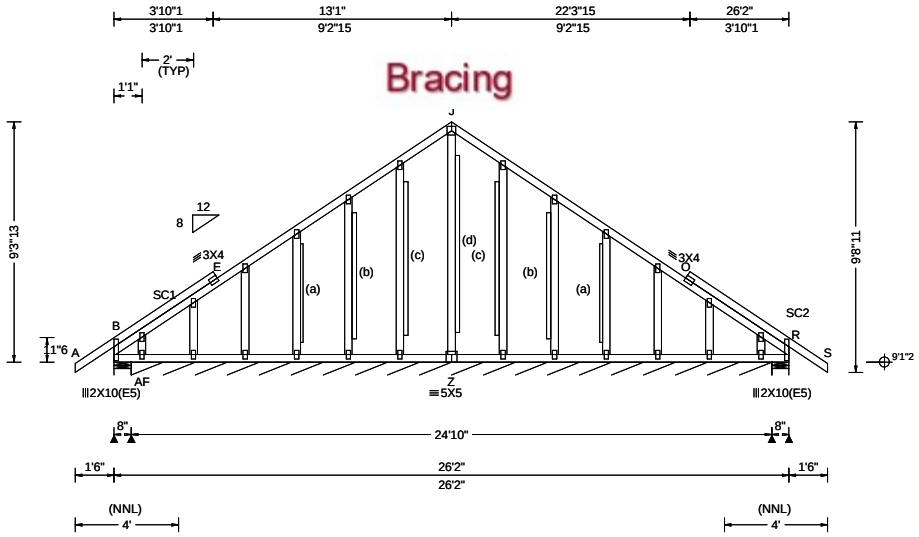
Key to Terms (continued):
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square 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: 810018 GABL FROM: CDM Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** A01	Cust: R 215 JRef:1Y9L2150011 T2 DrwNo: 121.25.1345.17400 AK / WHK 05/01/2025	



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.003 O 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.006 O 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 E - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.009 O - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.245
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.033
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.996
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 24.02.00D.0114.10
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	277	/-	/-	/143	/58	/240
AF*	75	/-	/-	/44	/15	/-
R	277	/-	/-	/109	/30	/-

Wind reactions based on MWFRS
B Brg Wid = 8.0 Min Req = 1.5 (Truss)
AF Brg Wid = 297 Min Req = -
R Brg Wid = 8.0 Min Req = 1.5 (Truss)
Bearings B, AF, & T are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Wind

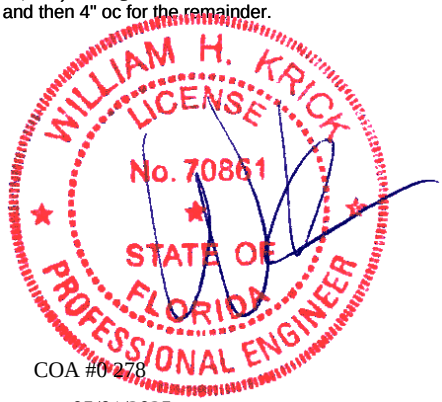
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/526.

Gable Reinforcement

(a) 1x4 SP/DF #2 or better "L" reinforcement. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.
(b) 2x4 "L" reinforcement. Same species and grade as web. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.
(c) 2x6 "L" reinforcement. Any species and grade. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.
(d) 2x6 "L" reinforcement. Same species and grade as web. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.



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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have 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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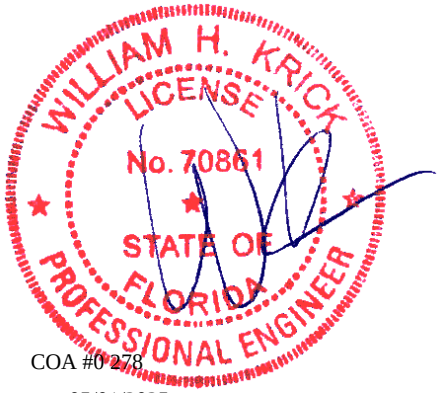
Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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

The overall height of this truss excluding overhang is 9-3-13.



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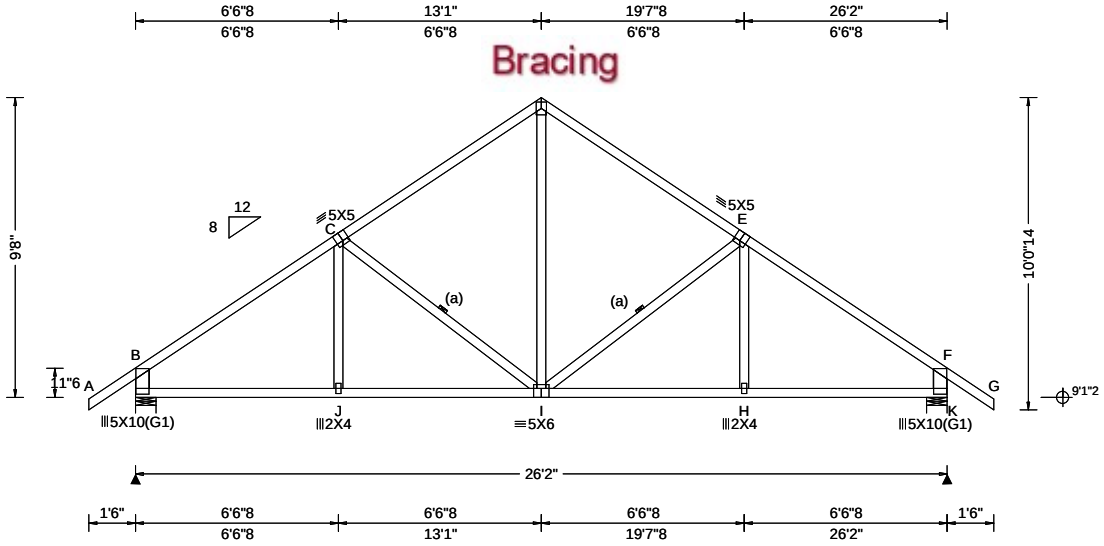
SEQN: 810023 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** A02		Cust: R 215 JRef:1Y9L2150011 T1 DrwNo: 121.25.1345.26887 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.127	I	999	240
VERT(CL): 0.172	I	999	180
HORZ(LL): 0.066	F	-	-
HORZ(TL): 0.089	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.799
Max BC CSI: 0.438
Max Web CSI: 0.391

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1203	/-	/-	/651	/199	/244
K	1203	/-	/-	/651	/199	/-

Wind reactions based on MWFRS
B Brg Wid = 8.0 Min Req = 1.5 (Truss)
K Brg Wid = 8.0 Min Req = 1.5 (Truss)
Bearings B & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	405	-1446	D - E	415	-1068
C - D	415	-1068	E - F	405	-1446

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	1089	-178	I - H	1088	-182
J - I	1088	-179	H - F	1089	-181

Maximum Web Forces Per Ply (lbs)

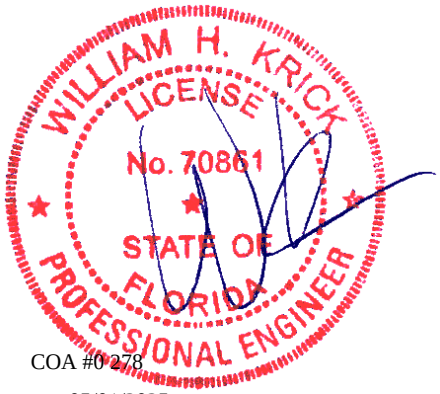
Webs	Tens.	Comp.
D - I	638	-233

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x8 SP #2;Rt Stub Wedge: 2x8 SP #2;

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

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

Additional Notes
The overall height of this truss excluding overhang is 9-8-0.



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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

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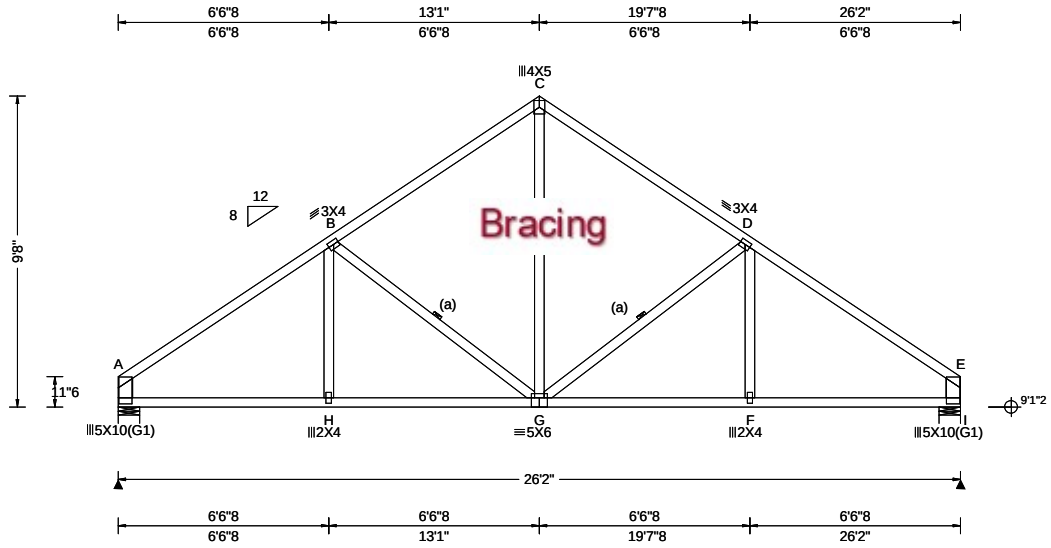
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810026 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** A03		Cust: R 215 JRef:1Y9L2150011 T23 DrwNo: 121.25.1345.29720 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.077	G	999	240
VERT(CL): 0.162	G	999	180
HORZ(LL): 0.039	E	-	-
HORZ(TL): 0.082	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.720
Max BC CSI: 0.418
Max Web CSI: 0.281

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1099	/-	/-	/640	/173	/242
I	1099	/-	/-	/640	/173	/-

Wind reactions based on MWFRS
A Brg Wid = 8.0 Min Req = 1.5 (Truss)
I Brg Wid = 8.0 Min Req = 1.5 (Truss)
Bearings A & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	292	- 1466	C - D	314	- 1079
B - C	314	- 1079	D - E	292	- 1466

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - H	1109	- 144	G - F	1108	- 145
H - G	1108	- 145	F - E	1109	- 144

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - G	187	- 384	G - D	187	- 384
C - G	646	- 168			

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x8 SP #2;Rt Stub Wedge: 2x8 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

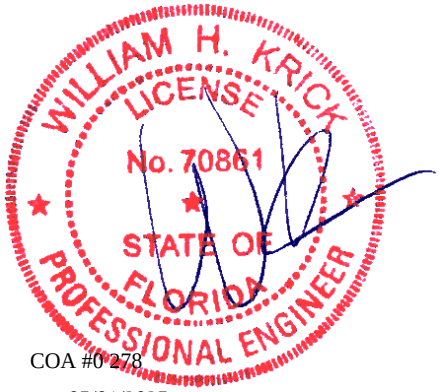
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 9-8-0.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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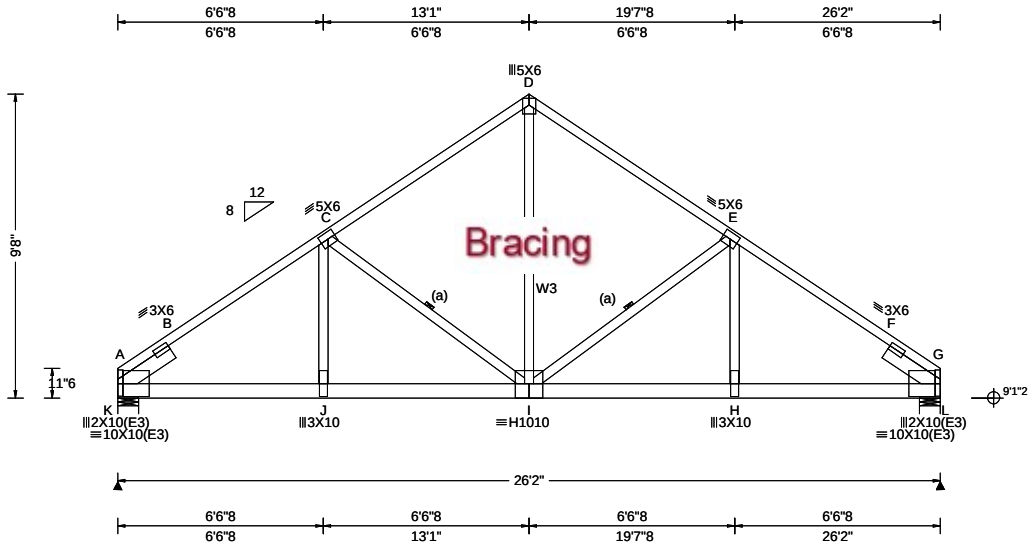
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810199 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** A04		Cust: R 215 JRef:1Y9L2150011 T25 DrwNo: 121.25.1345.40733 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.142	I	999	240
VERT(CL): 0.281	I	999	180
HORZ(LL): 0.049	C	-	-
HORZ(TL): 0.096	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.389
Max BC CSI: 0.693
Max Web CSI: 0.907

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	4407	/-	/-	/-	/691	/-
L	4109	/-	/-	/-	/639	/-

Wind reactions based on MWFRS
K Brg Wid = 8.0 Min Req = 3.6 (Truss)
L Brg Wid = 8.0 Min Req = 3.4 (Truss)
Bearings K & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	940	-5850	D - E	669	-4132
B - C	917	-5786	E - F	912	-5767
C - D	669	-4133	F - G	935	-5832

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - J	4713	-737	I - H	4646	-727
J - I	4663	-732	H - G	4686	-730

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
J - C	1654	-170	I - E	259	-1630
C - I	265	-1652	E - H	1634	-164
D - I	4018	-543			

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W3 2x4 SP #2;
Lt Slider: 2x6 SP #2; block length = 1.998'
Rt Slider: 2x6 SP #2; block length = 1.998'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 64 plf at 0.00 to 64 plf at 26.17
BC: From 10 plf at 0.00 to 10 plf at 23.77
BC: From 20 plf at 23.77 to 20 plf at 26.17
BC: 504 lb Conc. Load at 1.02, 3.02, 5.02, 7.02 9.02,11.02,13.02,13.77,15.77,17.77,19.77,21.77 23.77

Wind

Wind loads and reactions based on MWFRS.

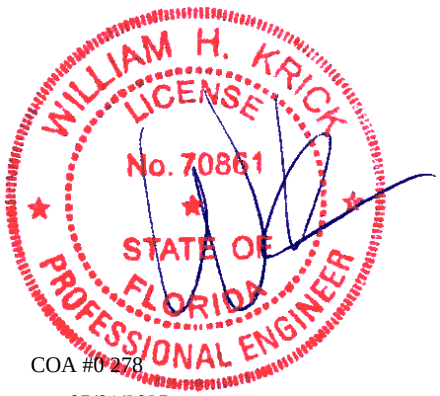
Wind loading based on both gable and hip roof types.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 3.50" if used)
Bearing 2 located at 25.5' (blocking >= 3.50" if used)

Additional Notes

The overall height of this truss excluding overhang is 9-8-0.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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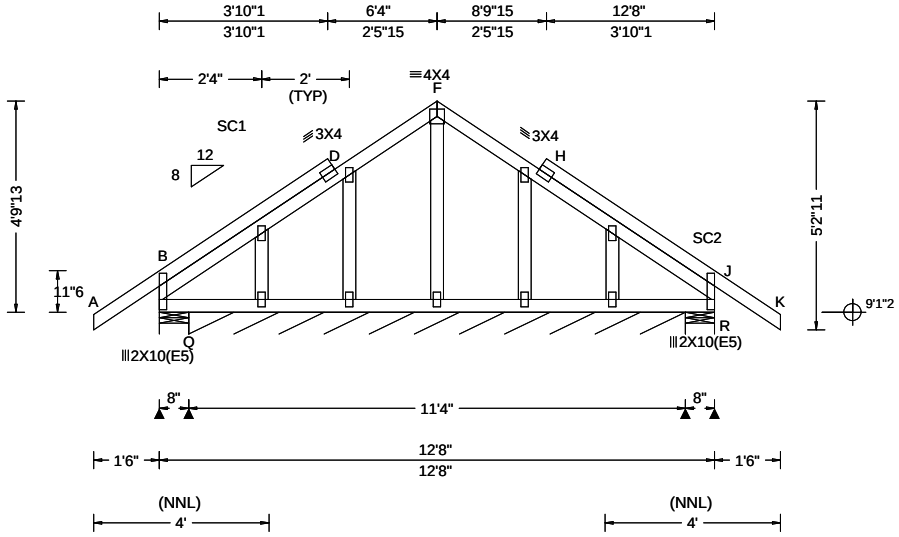
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810106 GABL FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B01	Cust: R 215 JRef:1Y9L2150011 T4 DrwNo: 121.25.1345.45697 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	H	999	240
VERT(CL): 0.002	H	999	180
HORZ(LL): 0.000	D	-	-
HORZ(TL): 0.002	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.244
Max BC CSI: 0.041
Max Web CSI: 0.706

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	280	/-	/-	/104	/70	/114
Q*	63	/-	/-	/39	/6	/-
R	280	/-	/-	/104	/70	/-

Wind reactions based on MWFRS
B Brg Wid = 8.0 Min Req = 1.5 (Truss)
Q Brg Wid = 135 Min Req = -
R Brg Wid = 8.0 Min Req = 1.5 (Truss)
Bearings B, Q, & R are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Wind

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

Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/305.

Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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

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

COA #0 278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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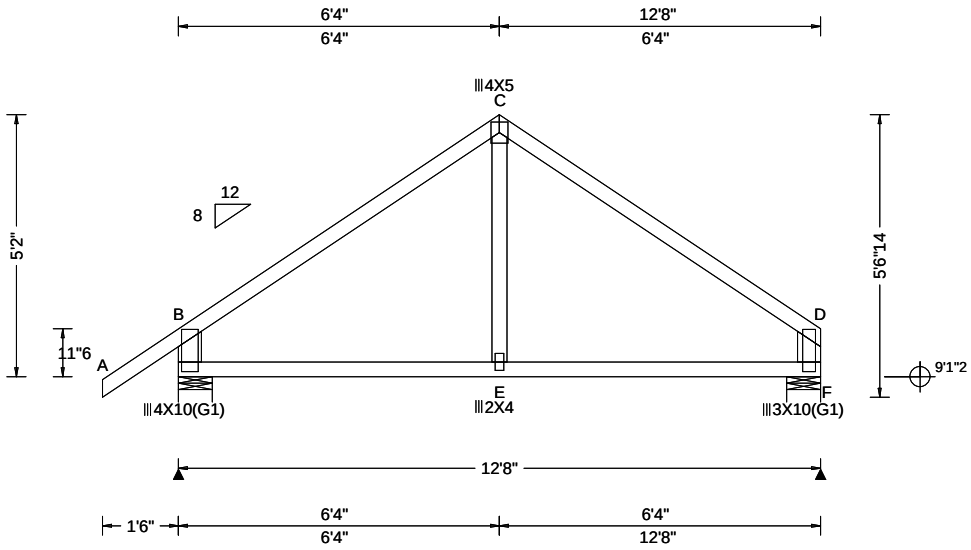
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810008 COMN FROM: CDM	Ply: 1 Qty: 9	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B02	Cust: R 215 JRef:1Y9L2150011 T3 DrwNo: 121.25.1345.52747 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.009	E	999	240
VERT(CL): 0.019	E	999	180
HORZ(LL): 0.004	D	-	-
HORZ(TL): 0.022	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.445
Max BC CSI: 0.330
Max Web CSI: 0.099

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	642	/-	/-	/318	/108	/135
F	526	/-	/-	/305	/82	/-

Wind reactions based on MWFRS
B Brg Wid = 8.0 Min Req = 1.5 (Truss)
F Brg Wid = 8.0 Min Req = 1.5 (Truss)
Bearings B & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	295	-584	C - D	289	-580

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - E	390	-101	E - D	390	-101

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x8 SP #2;Rt Stub Wedge: 2x8 SP #2;

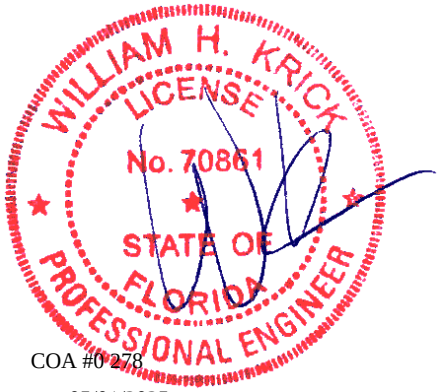
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5-2-0.



COA #0278

05/01/2025

Florida Certificate of Product Approval #FL 1999

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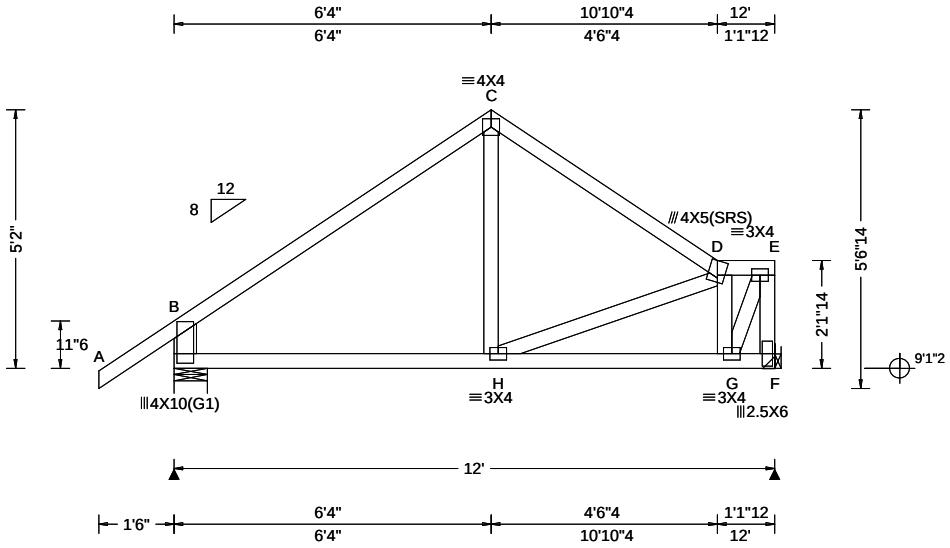
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810028 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B03		Cust: R 215 JRef:1Y9L2150011 T42 DrwNo: 121.25.1345.58450 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	C	999	240
VERT(CL): 0.014	H	999	180
HORZ(LL): 0.003	F	-	-
HORZ(TL): 0.023	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.427
Max BC CSI: 0.308
Max Web CSI: 0.211

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	614	/-	/-	/306	/99	/133
F	498	/-	/-	/272	/84	/-

Wind reactions based on MWFRS
B Brg Wid = 8.0 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	192	-533	C - D	213	-484

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - G	269	-455	E - F	217	-499
G - E	555	-233			

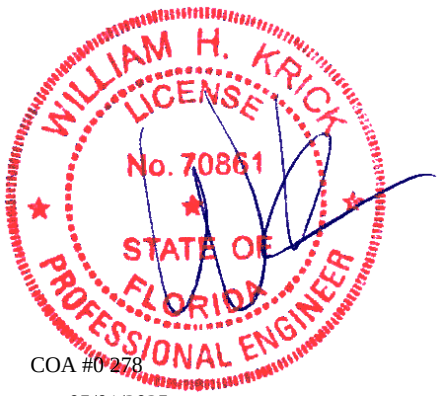
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x8 SP #2;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 5-2-0.



COA #0 278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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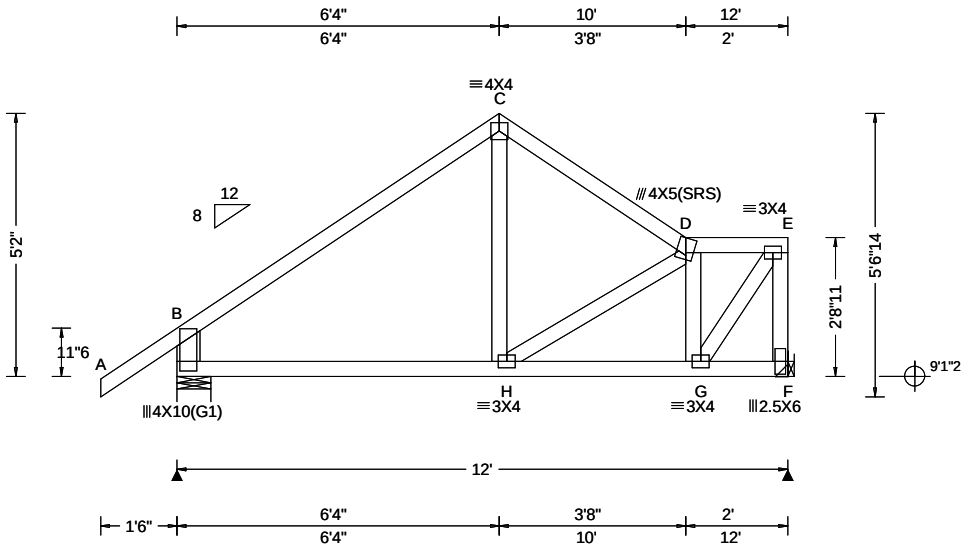
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810030 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B04	Cust: R 215 JRef:1Y9L2150011 T22 DrwNo: 121.25.1346.04950 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	H	999	240
VERT(CL): 0.013	H	999	180
HORZ(LL): 0.003	F	-	-
HORZ(TL): 0.014	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.432
Max BC CSI: 0.304
Max Web CSI: 0.199

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	614	/-	/-	/308	/96	/132
F	498	/-	/-	/277	/90	/-

Wind reactions based on MWFRS
B Brg Wid = 8.0 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	201	-530	C - D	225	-461

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - G	243	-388	E - F	282	-480
G - E	522	-251			

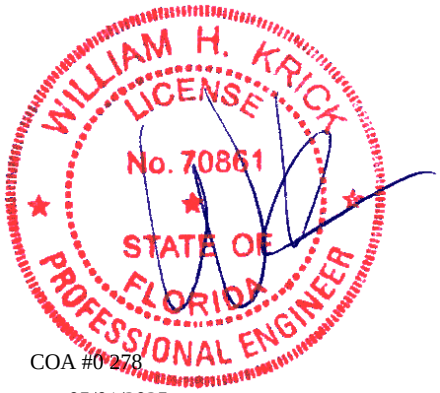
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x8 SP #2;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 5-2-0.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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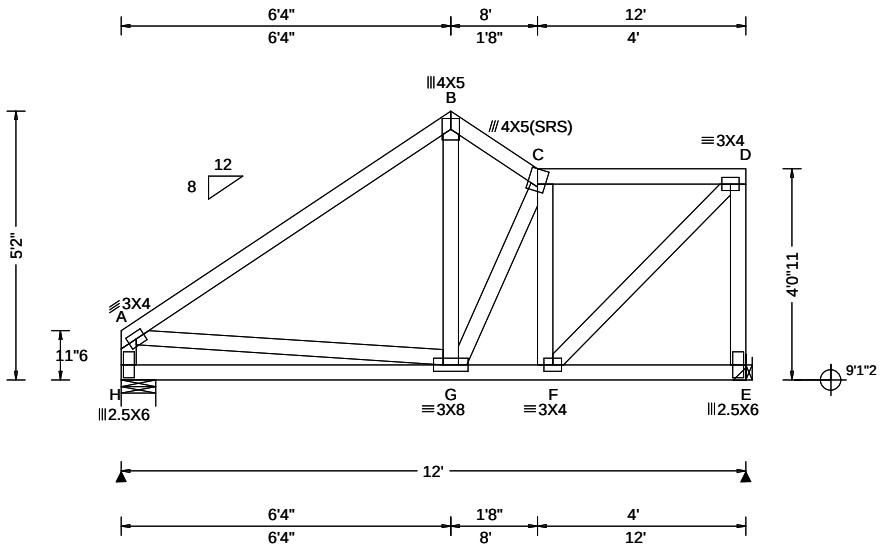
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810032 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B05		Cust: R 215 JRef:1Y9L2150011 T33 DrwNo: 121.25.1346.06443 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	G	999	240
VERT(CL): 0.016	G	999	180
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.003	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.562
Max BC CSI: 0.343
Max Web CSI: 0.196

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	504	/-	/-	/306	/0	/110
E	504	/-	/-	/288	/68	/-

Wind reactions based on MWFRS
H Brg Wid = 8.0 Min Req = 1.5 (Truss)
E Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	203	-537	B - C	253	-415

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	209	-449	D - E	388	-468
F - D	488	-311			

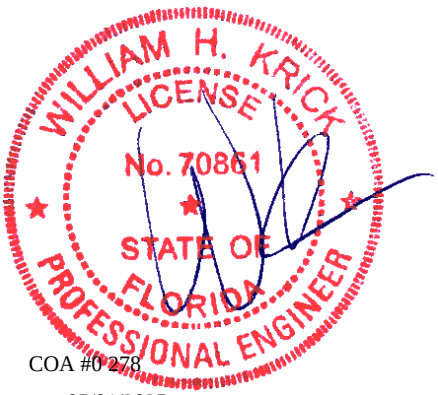
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 5-2-0.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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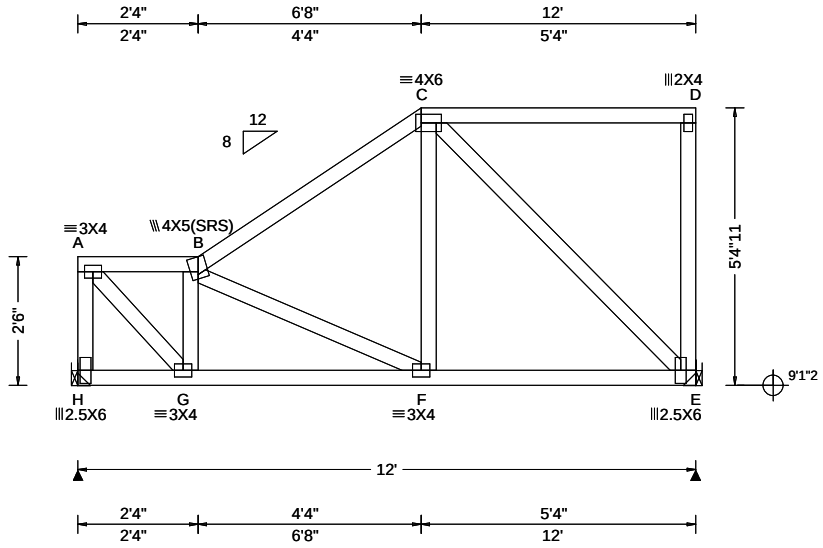
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810034 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B06	Cust: R 215 JRef:1Y9L2150011 T31 DrwNo: 121.25.1346.07810 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.009	F	999	240
VERT(CL): 0.016	F	999	180
HORZ(LL): 0.004	A	-	-
HORZ(TL): 0.007	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.610
Max BC CSI: 0.327
Max Web CSI: 0.406

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	504	/-	/-	/282	/38	/74
E	504	/-	/-	/289	/96	/-

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.	Chords	Tens.	Comp.
A - B	223	- 417	B - C	222	- 454

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	468	- 412

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	304	- 488	G - B	281	- 392
A - G	612	- 325	C - E	326	- 421

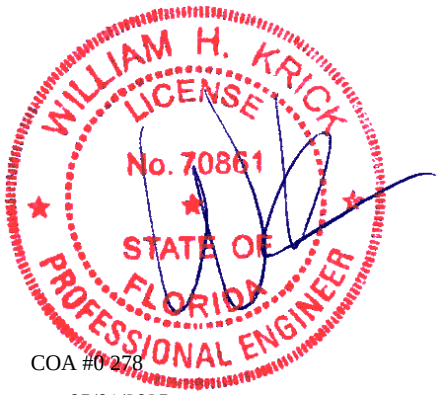
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 5-4-11.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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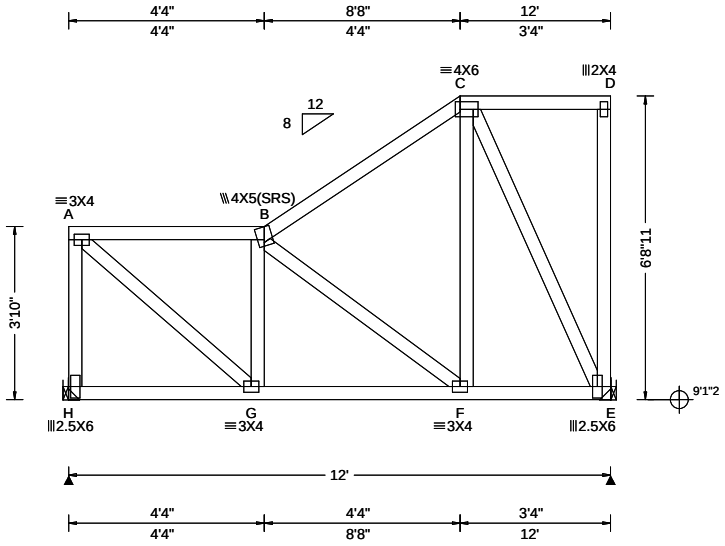
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810039 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B07		Cust: R 215 JRef:1Y9L2150011 T28 DrwNo: 121.25.1346.09110 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.010	B	999	240
VERT(CL): 0.019	B	999	180
HORZ(LL): 0.004	A	-	-
HORZ(TL): 0.006	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.254
Max BC CSI: 0.209
Max Web CSI: 0.402

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	504	/-	/-	/264	/38	/74
E	504	/-	/-	/307	/96	/-

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	199	- 412

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	433	- 369

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	335	- 470	C - E	323	- 420
A - G	540	- 257			

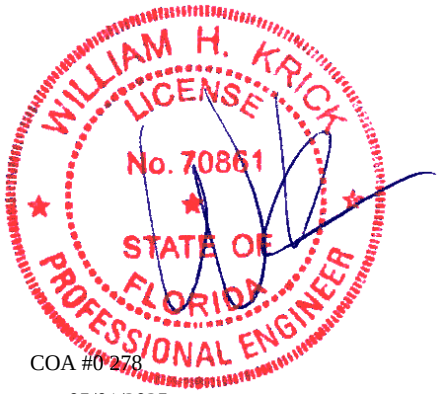
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 6-8-11.



COA #0278
05/01/2025
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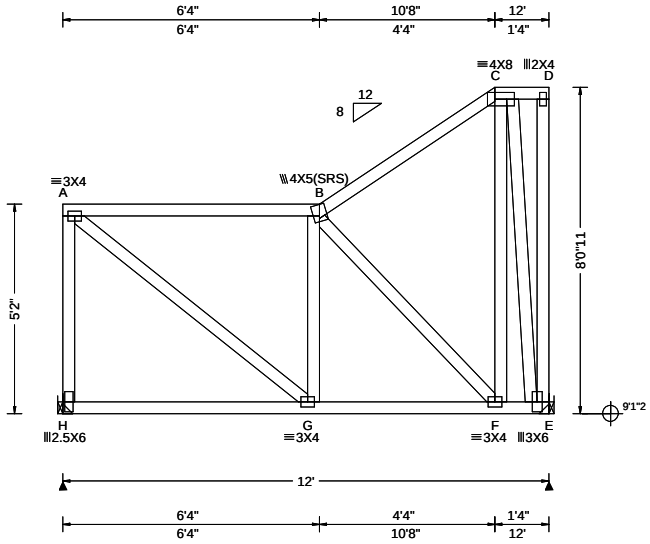
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810041 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B08	Cust: R 215 JRef:1Y9L2150011 T32 DrwNo: 121.25.1346.21947 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.71 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.010	B	999	240
VERT(CL): 0.021	B	999	180
HORZ(LL): -0.004	D	-	-
HORZ(TL): 0.009	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.649
Max BC CSI: 0.343
Max Web CSI: 0.532

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	504	/-	/-	/253	/46	/74
E	504	/-	/-	/326	/99	/-

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

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	368	- 455	B - F	388	- 428
A - G	453	- 195	C - E	348	- 454

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

Wind

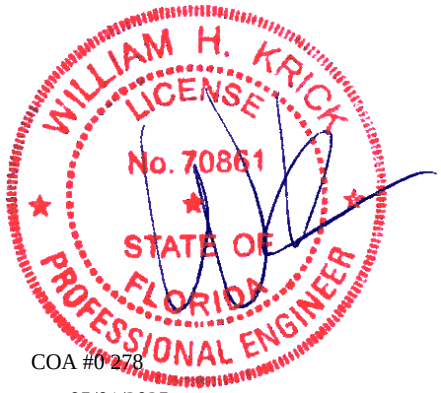
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 8-0-11.



COA #0278

05/01/2025

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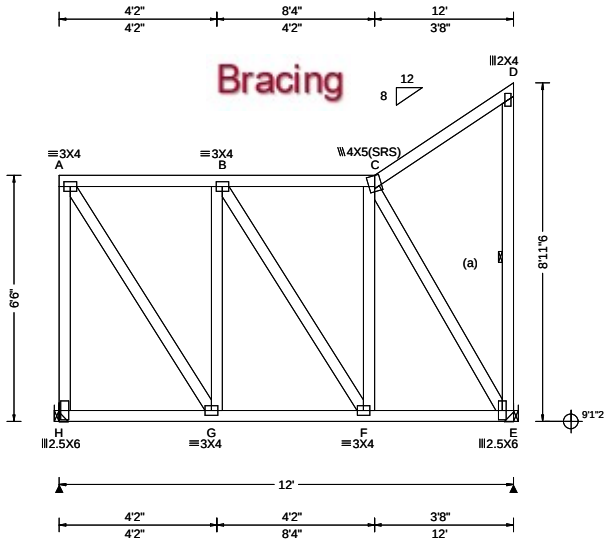
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810043 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B09	Cust: R 215 JRef:1Y9L2150011 T27 DrwNo: 121.25.1346.24490 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.82 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	B	999	240
VERT(CL): 0.015	B	999	180
HORZ(LL): -0.004	D	-	-
HORZ(TL): 0.009	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.284
Max BC CSI: 0.174
Max Web CSI: 0.398

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	504	/-	/-	/260	/72	/63
E	504	/-	/-	/326	/104	/-

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

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	403	- 471	C - E	370	- 412
A - G	433	- 296			

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 8-11-6.

COA #0278

05/01/2025

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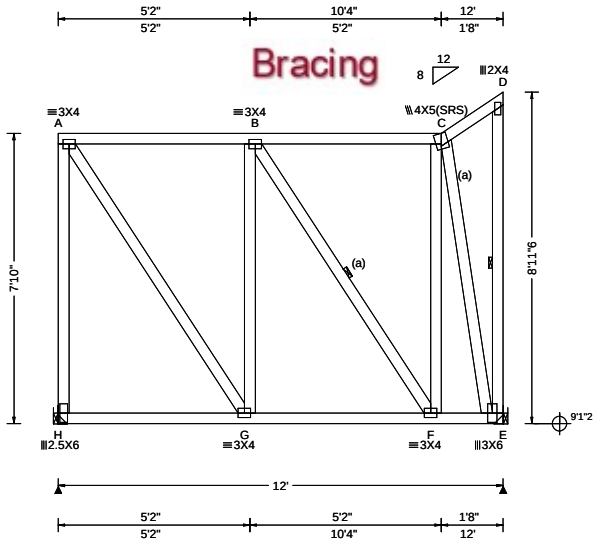
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810045 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B10	Cust: R 215 JRef:1Y9L2150011 T21 DrwNo: 121.25.1346.25880 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 17.48 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.009	B	999	240
VERT(CL): 0.017	B	999	180
HORZ(LL): -0.004	D	-	-
HORZ(TL): 0.006	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.448
Max BC CSI: 0.259
Max Web CSI: 0.527

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	504	/-	/-	/254	/100	/28
E	504	/-	/-	/285	/108	/-

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

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	474	-465	C - E	415	-452
A - G	400	-341			

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

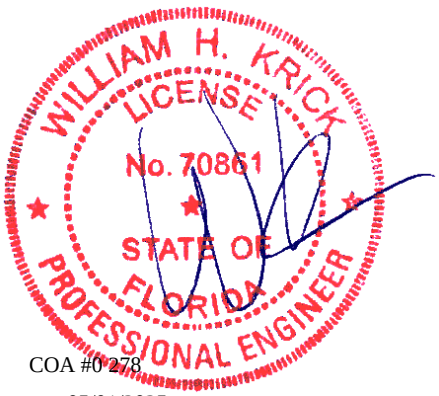
Bracing
(a) Continuous lateral restraint equally spaced on member.

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 8-11-6.



COA #0 278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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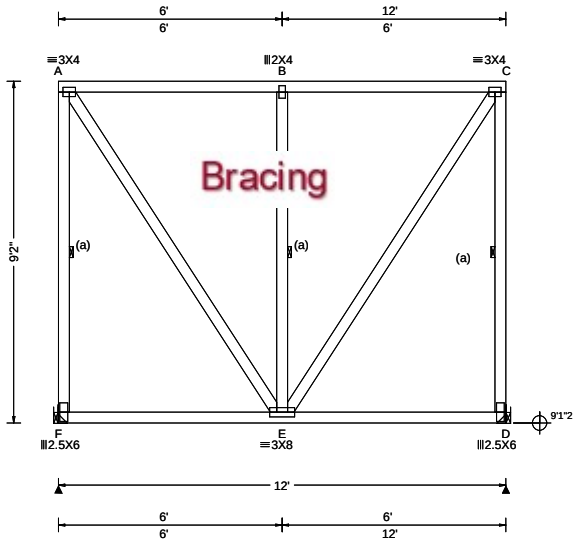
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810047 FLAT FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B11	Cust: R 215 JRef:1Y9L2150011 T20 DrwNo: 121.25.1346.27180 AK / WHK 05/01/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 18.26 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: NA
Loc. from endwall: not in 25.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	240
VERT(CL): 0.023	B	999	180
HORZ(LL): -0.001	C	-	-
HORZ(TL): 0.002	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.642
Max BC CSI: 0.427
Max Web CSI: 0.600

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	480	/-	/-	/246	/119	/-
D	480	/-	/-	/246	/119	/-

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

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - F	398	-434	C - D	398	-434
B - E	541	-447			

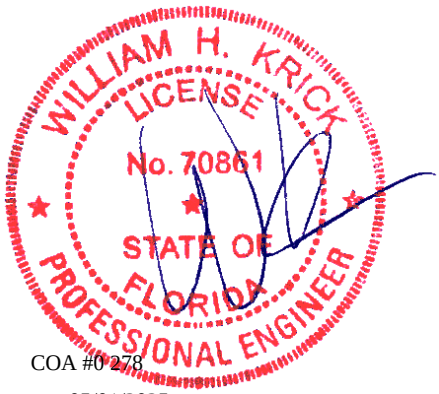
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals not exposed to wind pressure.

Additional Notes
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 9-2-0.



COA #0278
05/01/2025
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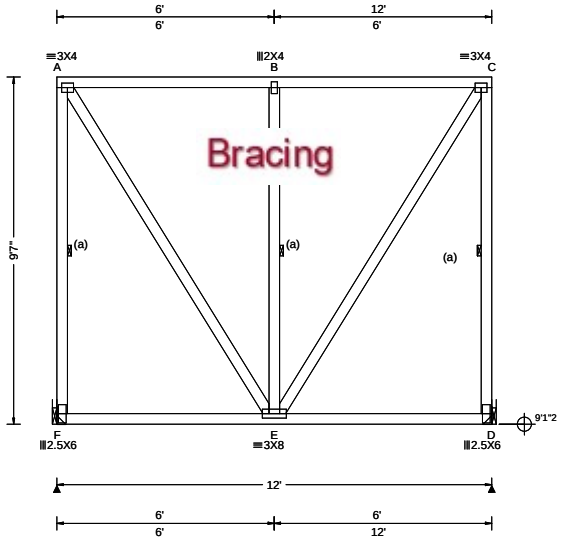
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810197 FLAT FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B12	Cust: R 215 JRef:1Y9L2150011 T34 DrwNo: 121.25.1346.28370 AK / WHK 05/01/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 18.68 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: NA
Loc. from endwall: not in 25.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	240
VERT(CL): 0.024	B	999	180
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.002	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.641
Max BC CSI: 0.427
Max Web CSI: 0.638

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	480	/-	/-	/246	/122	/-
D	480	/-	/-	/246	/122	/-

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

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - F	401	-434	C - D	401	-434
B - E	545	-447			

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals not exposed to wind pressure.

Additional Notes
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 9-7-0.

COA #0 278
05/01/2025
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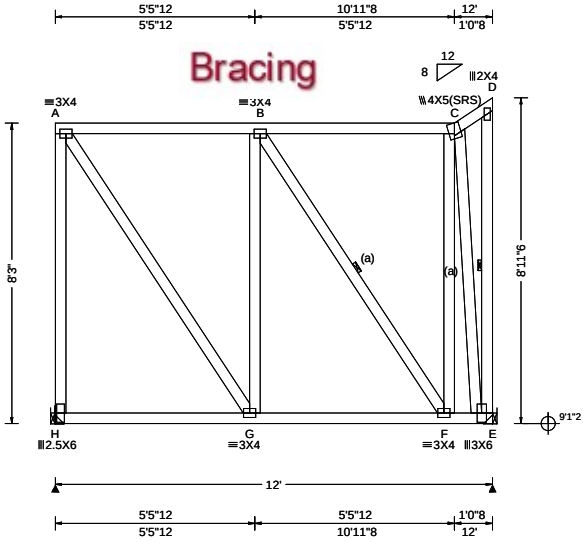
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810049 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B13	Cust: R 215 JRef:1Y9L2150011 T35 DrwNo: 121.25.1346.29607 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 17.69 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.009	B	999	240
VERT(CL): 0.018	B	999	180
HORZ(LL): -0.002	D	-	-
HORZ(TL): 0.005	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.507
Max BC CSI: 0.300
Max Web CSI: 0.611

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	504	/-	/-	/252	/107	/17
E	504	/-	/-	/271	/110	/-

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

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	494	-462	C - E	426	-475
A - G	390	-353			

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

Wind

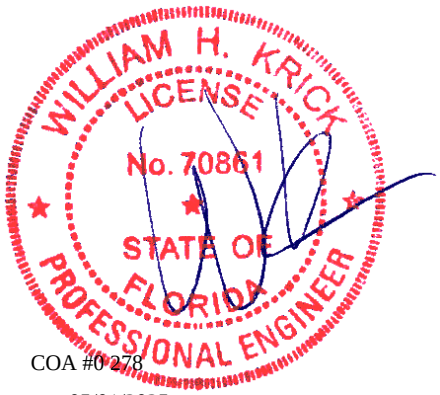
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 8-11-6.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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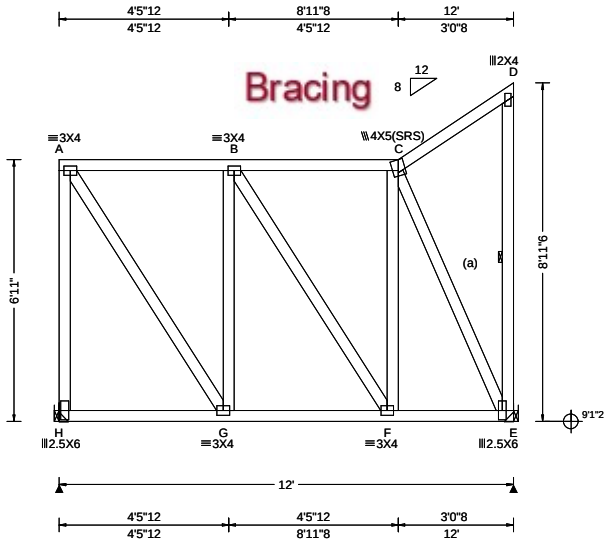
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 810051 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B14	Cust: R 215 JRef:1Y9L2150011 T36 DrwNo: 121.25.1346.30850 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 17.03 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	B	999	240
VERT(CL): 0.015	B	999	180
HORZ(LL): -0.004	D	-	-
HORZ(TL): 0.008	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.331
Max BC CSI: 0.186
Max Web CSI: 0.415

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	504	/-	/-	/259	/82	/52
E	504	/-	/-	/314	/105	/-

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

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	427	-469	C - E	382	-419
A - G	423	-312			

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

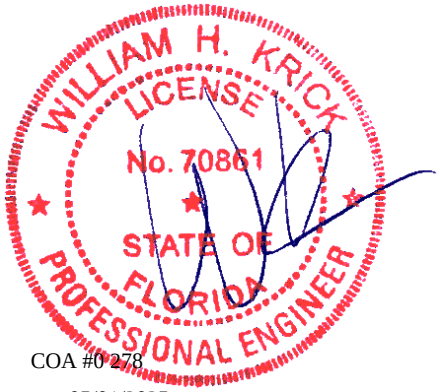
Bracing
(a) Continuous lateral restraint equally spaced on member.

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 8-11-6.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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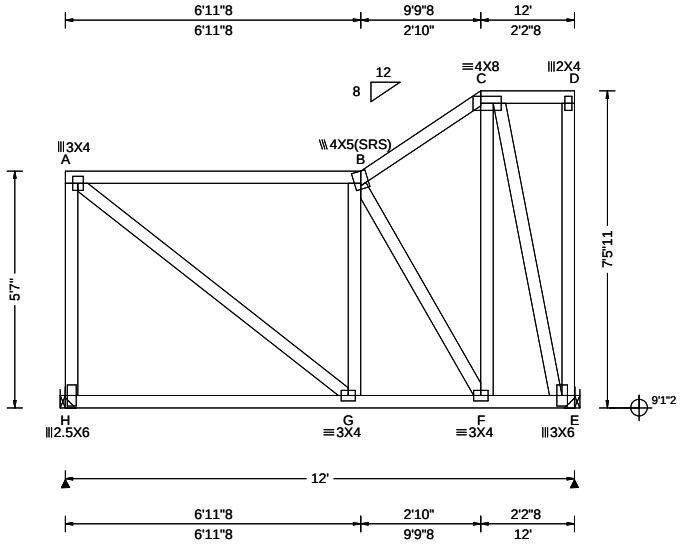
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810055 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B15	Cust: R 215 JRef:1Y9L2150011 T38 DrwNo: 121.25.1346.32233 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.62 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.010	B	999	240
VERT(CL): 0.020	B	999	180
HORZ(LL): -0.004	D	-	-
HORZ(TL): 0.009	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.781
Max BC CSI: 0.454
Max Web CSI: 0.440

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	504	/-	/-	/250	/63	/48
E	504	/-	/-	/297	/98	/-

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

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	416	-449	C - F	407	-340
A - G	417	-235	C - E	374	-424
B - F	407	-440			

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

Wind

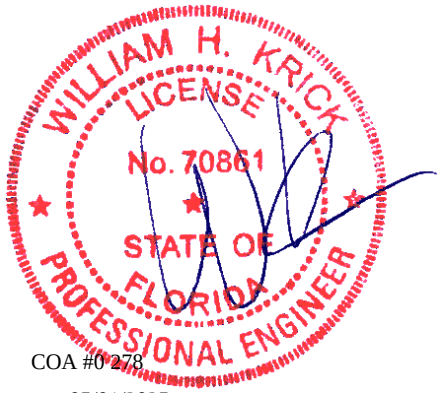
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 7-5-11.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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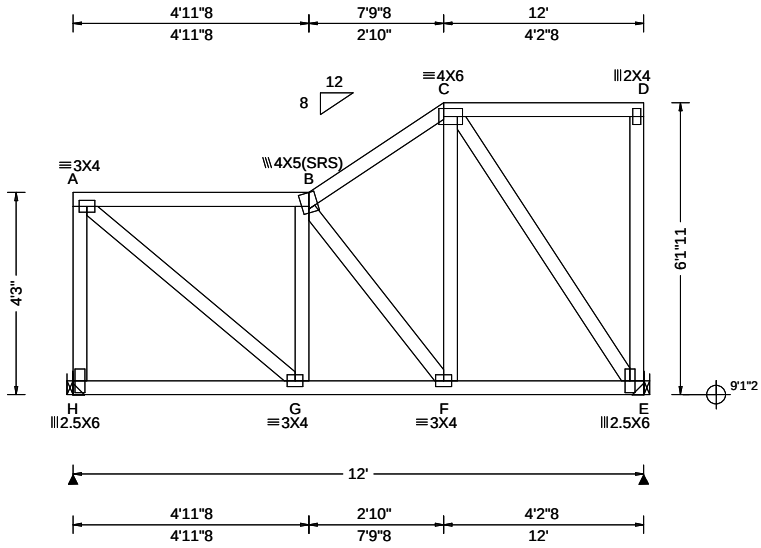
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810057 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B16	Cust: R 215 JRef:1Y9L2150011 T37 DrwNo: 121.25.1346.33500 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.009	B	999	240
VERT(CL): 0.019	B	999	180
HORZ(LL): 0.002	A	-	-
HORZ(TL): 0.005	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.365
Max BC CSI: 0.191
Max Web CSI: 0.383

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	504	/-	/-	/258	/57	/48
E	504	/-	/-	/285	/94	/-

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	236	- 385

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	402	- 360

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	393	- 462	C - E	349	- 411
A - G	495	- 299			

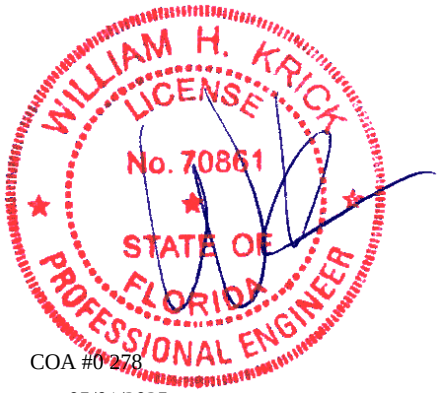
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 6-1-11.



COA #0278
05/01/2025
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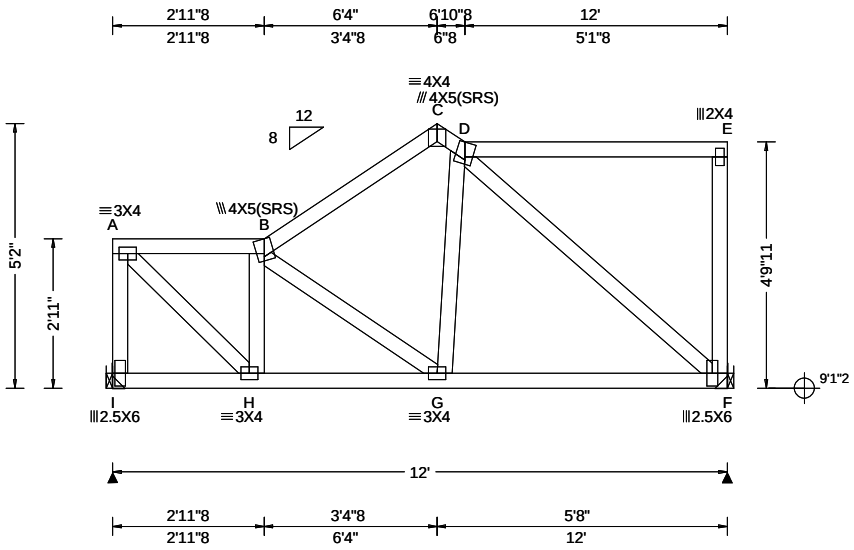
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810061 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B17		Cust: R 215 JRef:1Y9L2150011 T39 DrwNo: 121.25.1346.34803 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.025	G	999	240
VERT(CL): 0.047	G	999	180
HORZ(LL): -0.013	E	-	-
HORZ(TL): 0.025	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.495
Max BC CSI: 0.331
Max Web CSI: 0.390

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	504	/-	/-	/269	/45	/58
F	504	/-	/-	/280	/86	/-

Wind reactions based on MWFRS
I Brg Wid = - Min Req = -
F 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	226	- 394	B - C	255	- 458

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
H - G	430	- 361

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - I	348	- 479	D - F	361	- 447
A - H	548	- 311			

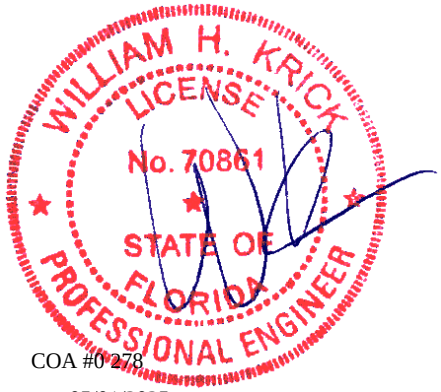
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 5-2-0.



COA #0 278
05/01/2025
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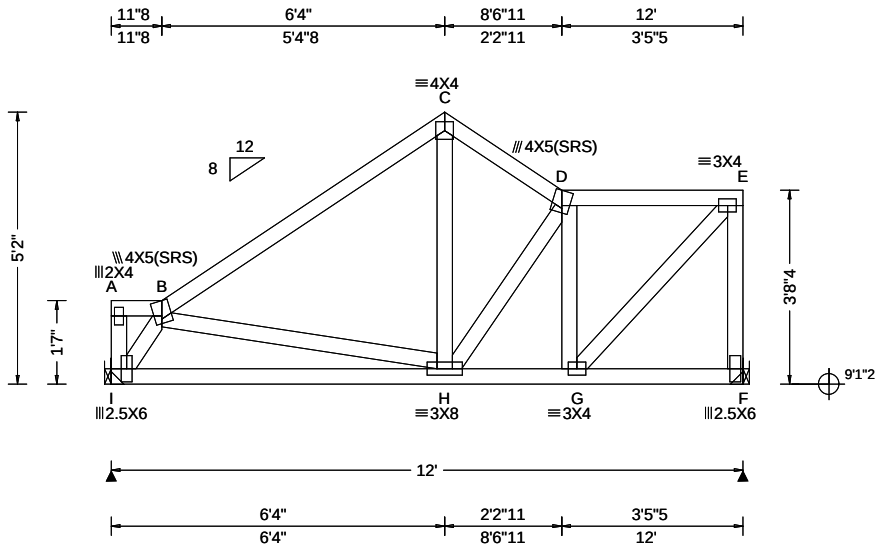
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810063 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B18	Cust: R 215 JRef:1Y9L2150011 T40 DrwNo: 121.25.1346.36103 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.011	H	999	240
VERT(CL): 0.015	H	999	180
HORZ(LL): 0.004	A	-	-
HORZ(TL): 0.005	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.434
Max BC CSI: 0.356
Max Web CSI: 0.191

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
I	504	/-	/-		/286	/10	/94
F	504	/-	/-		/284	/57	/-

Wind reactions based on MWFRS
I Brg Wid = - Min Req = -
F 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.
B - C	203	-505	C - D	244	-434

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - B	269	-523	E - F	362	-472
G - E	501	-297			

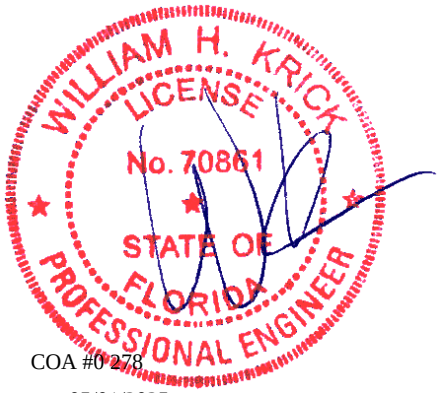
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 5-2-0.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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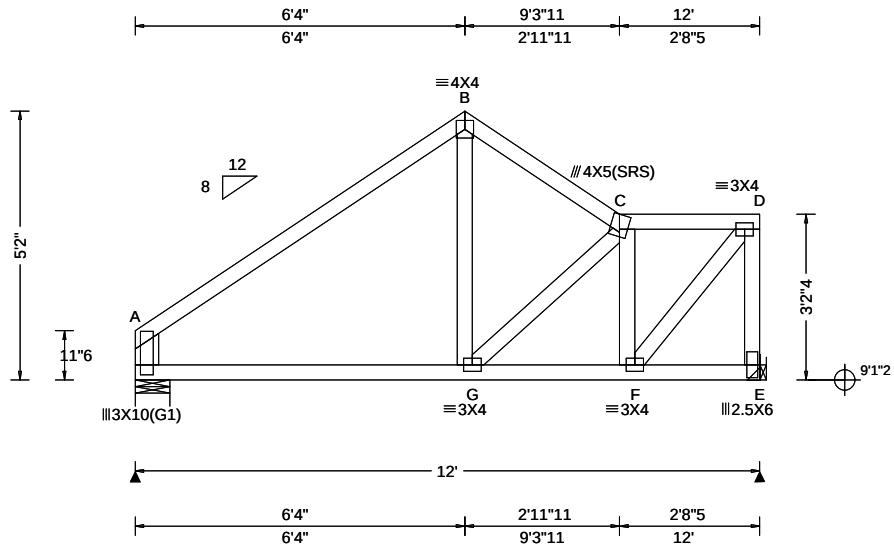
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810067 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B19	Cust: R 215 JRef:1Y9L2150011 T29 DrwNo: 121.25.1346.40203 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	C	999	240
VERT(CL): 0.015	G	999	180
HORZ(LL): 0.006	A	-	-
HORZ(TL): 0.014	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.406
Max BC CSI: 0.312
Max Web CSI: 0.196

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
A	504	/-	/-		/299	/66	/112
E	504	/-	/-		/282	/95	/-

Wind reactions based on MWFRS
A Brg Wid = 8.0 Min Req = 1.5 (Truss)
E Brg Wid = - Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	212	- 539	B - C	239	- 454

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - D	513	- 273	D - E	324	- 477

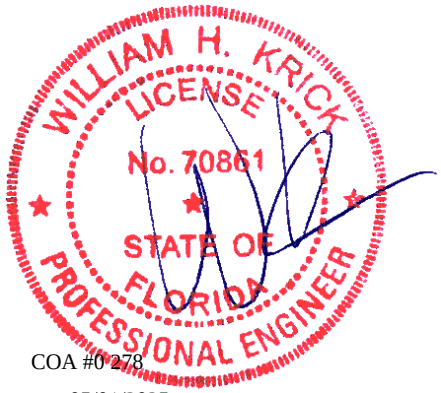
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x8 SP #2;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 5-2-0.



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05/01/2025
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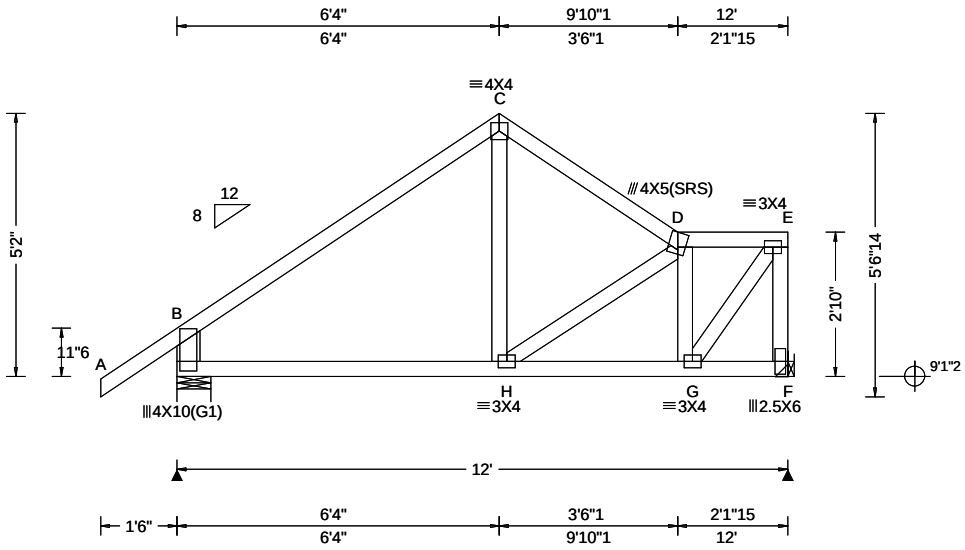
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810069 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** B20	Cust: R 215 JRef:1Y9L2150011 T41 DrwNo: 121.25.1346.52070 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	H	999	240
VERT(CL): 0.013	H	999	180
HORZ(LL): 0.003	F	-	-
HORZ(TL): 0.014	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.433
Max BC CSI: 0.304
Max Web CSI: 0.197

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	614	/-	/-	/309	/95	/132
F	498	/-	/-	/278	/91	/-

Wind reactions based on MWFRS
B Brg Wid = 8.0 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	203	-530	C - D	227	-456

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - G	242	-380	E - F	292	-478
G - E	518	-256			

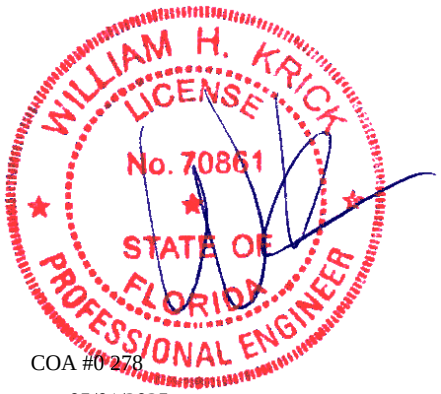
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x8 SP #2;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 5-2-0.



COA #0278
05/01/2025
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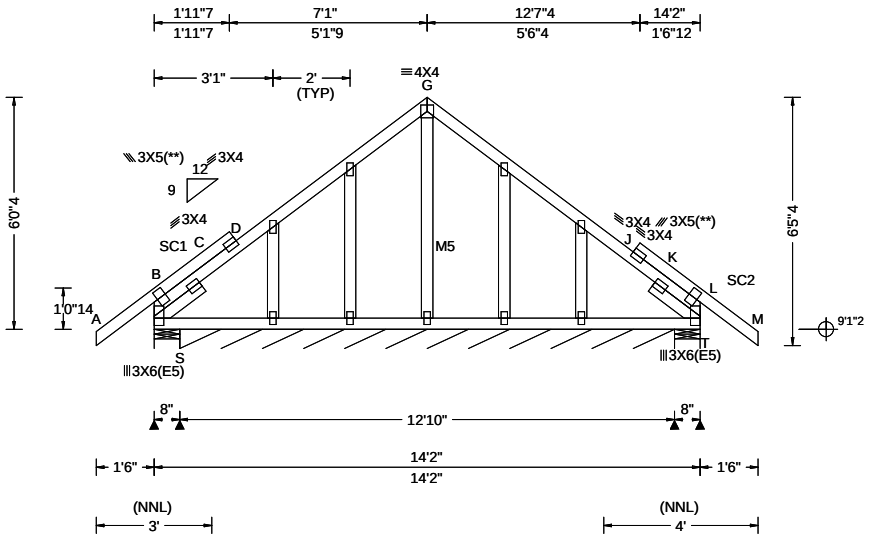
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 809995 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** C01		Cust: R 215 JRef:1Y9L2150011 T6 DrwNo: 121.25.1346.57070 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#	
VERT(LL):	0.002	J	999	240
VERT(CL):	0.007	J	999	180
HORZ(LL):	-0.002	J	-	-
HORZ(TL):	0.006	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.245
Max BC CSI: 0.063
Max Web CSI: 0.945

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	276	/-	/-	/131	/38	/152
S*	67	/-	/-	/42	/13	/-
T	276	/-	/-	/106	/27	/-

Wind reactions based on MWFRS
B Brg Wid = 8.0 Min Req = 1.5 (Truss)
S Brg Wid = 153 Min Req = -
T Brg Wid = 8.0 Min Req = 1.5 (Truss)
Bearings B, S, & T are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; M5 2x4 SP #2;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;
Lt Slider: 2x4 SP #3; block length = 1.500'
Rt Slider: 2x4 SP #3; block length = 1.500'

Plating Notes

All plates are 2X4 except as noted.

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

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Wind

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

Wind loading based on both gable and hip roof types.

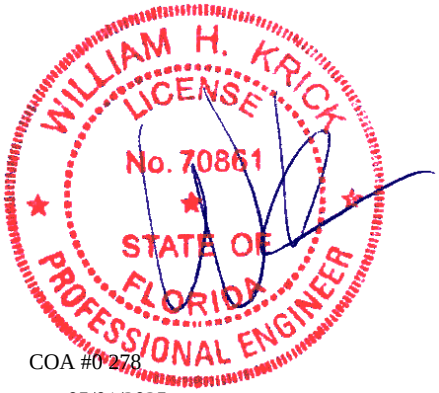
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/139.

Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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

The overall height of this truss excluding overhang is 6-0-4.



COA #0 278
05/01/2025
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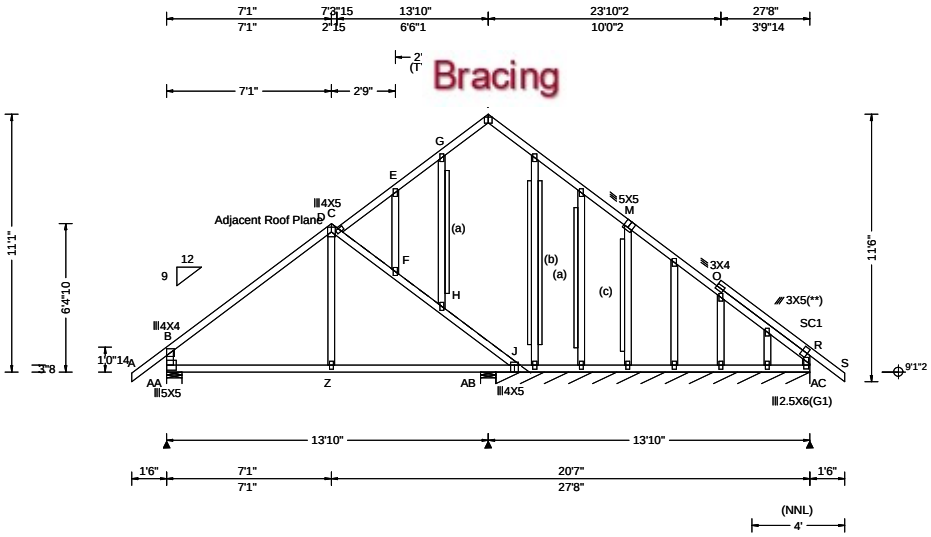
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810001 GABL FROM: CDM Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** D01		Cust: R 215 JRef:1Y9L2150011 T7 DrwNo: 121.25.1352.21560 AK / WHK 05/01/2025	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.156	E	999	240
VERT(CL): 0.313	E	529	180
HORZ(LL): -0.115	H	-	-
HORZ(TL): 0.241	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.502
Max BC CSI: 0.375
Max Web CSI: 0.936

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AA	753	/-	/-	/420	/102	/304
AB	315	/-	/-	/180	/-	/-
AC	*118	/-	/-	/65	/28	/-

Wind reactions based on MWFRS
AA Brg Wid = 8.0 Min Req = 1.5 (Truss)
AB Brg Wid = 8.0 Min Req = 1.5 (Truss)
AC Brg Wid = 162 Min Req = -
Bearings AA, AB, & AB are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	175	- 681	H - J	293	- 530
D - F	223	- 418	O - R	235	- 380
F - H	314	- 484			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AA- Z	541	- 209	Z - J	1075	- 422

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.
AA- B	259	- 695

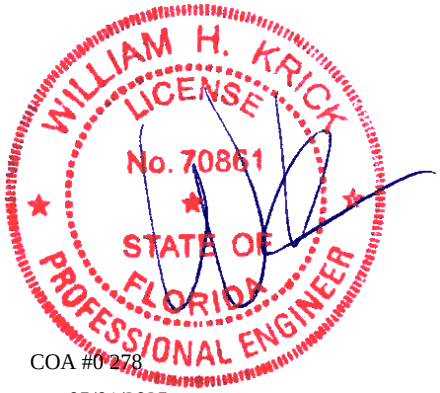
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Rt Stub Wedge: 2x4 SP #3;

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

Loading
Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/224.
Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).

Gable Reinforcement
(a) 2x6 "L" reinforcement. Any species and grade. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.
(b) Two 2x6 "L" reinforcements. Any species and grade. 80% length of web member. Attach one to each narrow face of web with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 6" oc for the remainder.
(c) 2x4 "L" reinforcement. Same species and grade as web. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.



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05/01/2025
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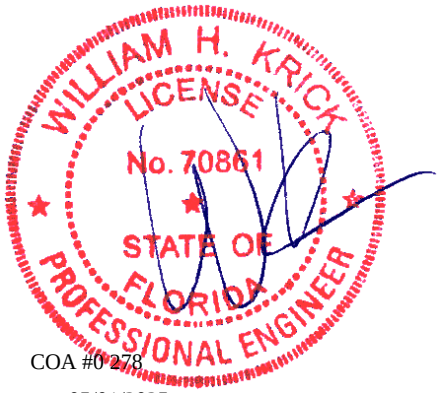
Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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

The overall height of this truss excluding overhang is 11-1-0.



COA #0278

05/01/2025

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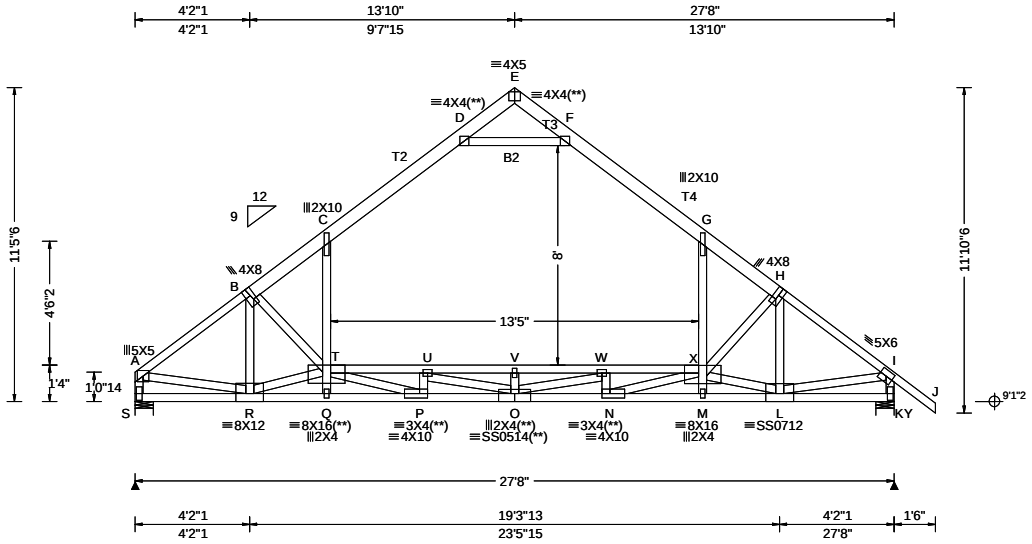
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810133 ATIC FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** D02		Cust: R 215 JRef:1Y9L2150011 T8 DrwNo: 121.25.1347.16127 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.554	V	599	240
VERT(CL): 1.076	V	308	180
HORZ(LL): 0.284	C	-	-
HORZ(TL): 0.551	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.815
Max BC CSI: 0.609
Max Web CSI: 0.900

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	2119	/-	/-	/688	/174	/323
Y	2230	/-	/-	/704	/199	/-

Wind reactions based on MWFRS
S Brg Wid = 8.0 Min Req = 1.8 (Truss)
Y Brg Wid = 8.0 Min Req = 1.8 (Truss)
Bearings S & Y are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	390	- 2749	E - F	1034	- 143
B - C	336	- 2415	F - G	372	- 1629
C - D	373	- 1630	G - H	335	- 2418
D - E	1032	- 142	H - I	391	- 2737

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	3474	- 594	O - N	5257	- 361
Q - P	3524	- 604	N - M	3592	- 635
P - O	5278	- 365	M - L	3534	- 623

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - S	312	- 2075	O - W	801	- 231
A - R	2160	- 236	V - W	330	- 4248
B - T	307	- 959	W - N	127	- 476
R - T	457	- 1532	W - X	398	- 3670
C - T	1241	0	N - X	2098	- 280
T - P	2152	- 211	X - G	1250	- 7
T - U	403	- 3697	X - L	554	- 1608
P - U	104	- 534	X - H	301	- 938
U - O	783	- 224	L - I	2150	- 186
U - V	330	- 4248	I - K	394	- 2187
D - F	644	- 2848			

Lumber
Top chord: 2x4 SP M-31; T2,T4 2x6 SP 2400f-2.0E; T3 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #3;

Plating Notes
All plates are 2.5X6 except as noted.
(**) 7 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading
Attic room loading from 7-1-8 to 20-6-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

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

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

Additional Notes
The overall height of this truss excluding overhang is 11-5-6.

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****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
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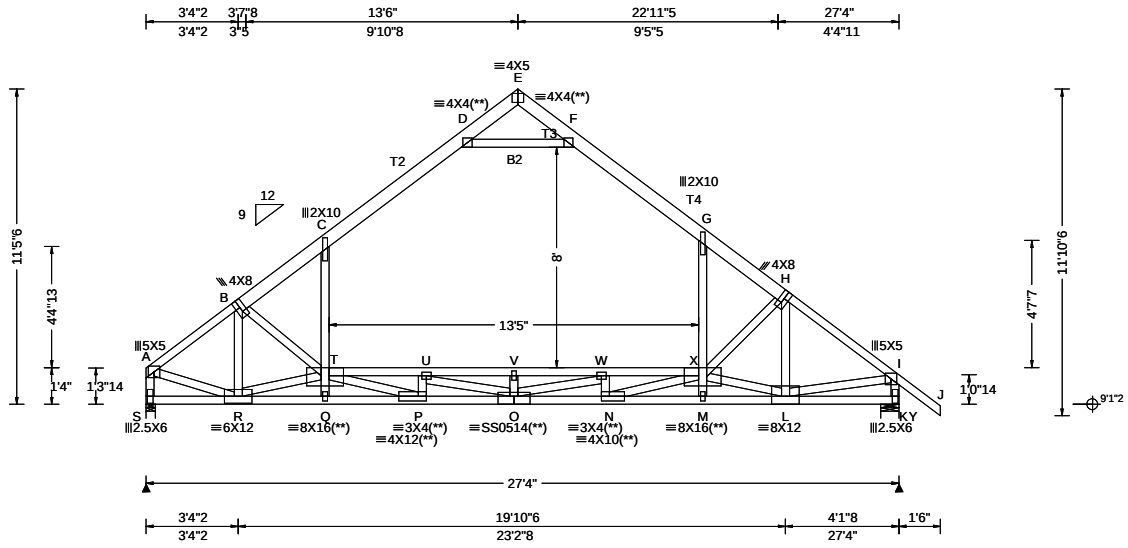
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810137 ATIC FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** D03		Cust: R 215 JRef:1Y9L2150011 T10 DrwNo: 121.25.1347.19717 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.831	V	394	240
VERT(CL): 0.981	V	334	180
HORZ(LL): 0.450	C	-	-
HORZ(TL): 0.527	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.776
Max BC CSI: 0.612
Max Web CSI: 0.903

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	2126	/-	/-	/676	/0	/322
Y	2195	/-	/-	/697	/5	/-

Wind reactions based on MWFRS
S Brg Wid = 4.0 Min Req = 1.8 (Truss)
Y Brg Wid = 8.0 Min Req = 1.8 (Truss)
Bearings S & Y are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	242	- 2477	E - F	975	- 96
B - C	205	- 2247	F - G	275	- 1552
C - D	276	- 1589	G - H	221	- 2280
D - E	954	- 95	H - I	262	- 2684

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	3517	- 551	O - N	5451	- 210
Q - P	3576	- 563	N - M	3835	- 445
P - O	5358	- 209	M - L	3772	- 436

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - S	213	- 2091	O - W	769	- 238
A - R	2029	- 147	V - W	214	- 4484
B - T	199	- 698	W - N	128	- 472
R - T	428	- 1757	W - X	279	- 3944
C - T	1033	- 21	N - X	2026	- 269
T - P	2165	- 211	X - G	1134	- 16
T - U	282	- 3835	X - L	526	- 1892
P - U	105	- 524	X - H	220	- 936
U - O	858	- 214	L - I	2108	- 102
U - V	214	- 4484	I - K	286	- 2152
D - F	464	- 2689			

Lumber

Top chord: 2x4 SP #2; T2,T4 2x6 SP 2400f-2.0E;
T3 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #3;

Plating Notes

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

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

Loading

Attic room loading from 6-7-12 to 20-0-12: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

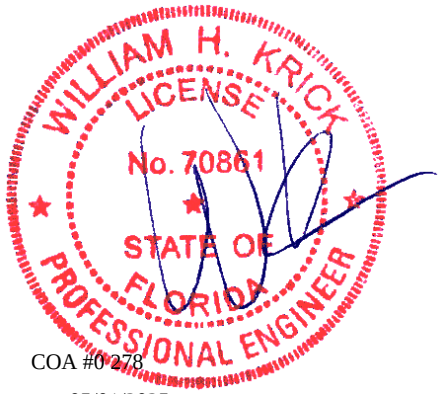
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 11-5-6.



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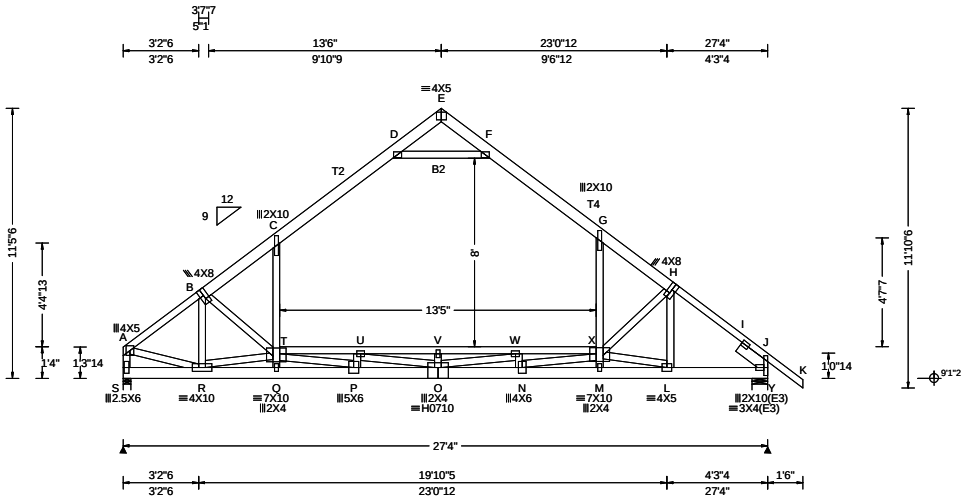
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810221 ATIC FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** D04	Cust: R 215 JRef:1Y9L2150011 T48 DrwNo: 121.25.1347.28387 AK / WHK 05/01/2025	

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.533 V 614 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 1.048 V 312 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.260 C - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.510 C - -
NCBCLL: 0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.878
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.502
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.749
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, HS	VIEW Ver: 24.02.00D.0114.10
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	3376	/-	/-	/-	/177	/-
Y	3877	/-	/-	/-	/213	/-

Wind reactions based on MWFRS
S Brg Wid = 4.0 Min Req = 1.5 (Truss)
Y Brg Wid = 8.0 Min Req = 1.6 (Truss)
Bearings S & Y are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	107	- 2022	F - G	104	- 1153
B - C	99	- 1897	G - H	98	- 1894
C - D	106	- 1185	H - I	113	- 2480
D - E	968	- 1	I - J	122	- 2517
E - F	992	- 1			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	2935	- 105	N - M	3810	- 109
Q - P	2988	- 105	M - L	3745	- 108
P - O	4977	- 29	L - J	1897	- 81
O - N	5444	- 30			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - S	95	- 1650	D - F	69	- 2447
A - R	1665	- 79	O - W	389	0
B - T	17	- 540	V - W	0	- 4596
R - T	31	- 1356	W - X	0	- 4205
C - T	1125	0	N - X	1652	0
T - Q	378	0	X - G	1173	0
T - P	1967	0	X - L	30	- 1877
T - U	0	- 3693	X - H	10	- 989
U - O	876	0	L - H	618	0
U - V	0	- 4596			

Lumber

Top chord: 2x4 SP #2; T2,T4 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E; B2 2x4 SP #2;
Webs: 2x4 SP #3;
Rt Slider: 2x6 SP #2; block length = 1.500'

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Plating Notes

All plates are 3X4 except as noted.

Loading

Attic room loading from 6-7-12 to 20-0-12: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

Wind loads and reactions based on MWFRS.

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 11-5-6.

COA #0 278
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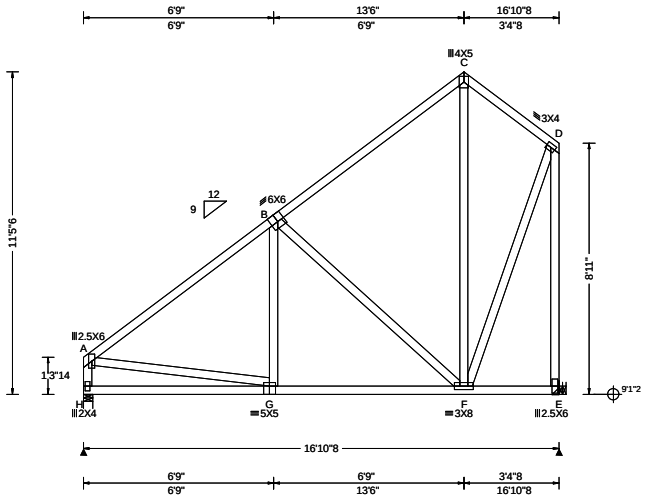
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810158 COMN	Ply: 2	**Job Number:** 25-2571	Cust: R 215 JRef:1Y9L2150011 T46
FROM: CDM	Qty: 1	RAPHAEL RESIDENCE	DrwNo: 121.25.1352.27060
Page 1 of 2		**Truss Label:** D05	AK / WHK 05/01/2025

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.018 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.037 G 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.005 B - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.011 B - -
NCBCLL: 0.00	Mean Height: 15.48 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.910
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.455
Spacing: 60.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: No	Max Web CSI: 0.525
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 11.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 24.02.00D.0114.10
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	1793	/-	/-	/1079	/-	/677
E	1793	/-	/-	/1285	/159	/-

Wind reactions based on MWFRS
H Brg Wid = 4.0 Min Req = 1.5 (Truss)
E Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	80	- 986	B - C	139	- 481

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	317	- 395	G - F	675	- 292

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	113	- 828	F - D	656	- 181
A - G	600	0	D - E	283	- 874
B - F	305	- 589			

Lumber

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

Nailnote

Nail Schedule:0.131"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.

Purlins

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

Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 11-5-6.

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

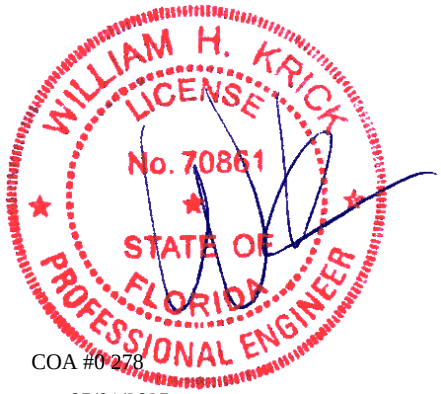
Hangers / Ties

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

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

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

Bearing at location x=16'7"8 uses the following support conditions: 16'7"8
Bearing E (16'7"8, 9'1"2) HGUS26-2
Supporting Member: (2)2x6 SP #2
(20) 0.148"x3" nails into supporting member,
(6) 0.148"x3" nails into supported member.



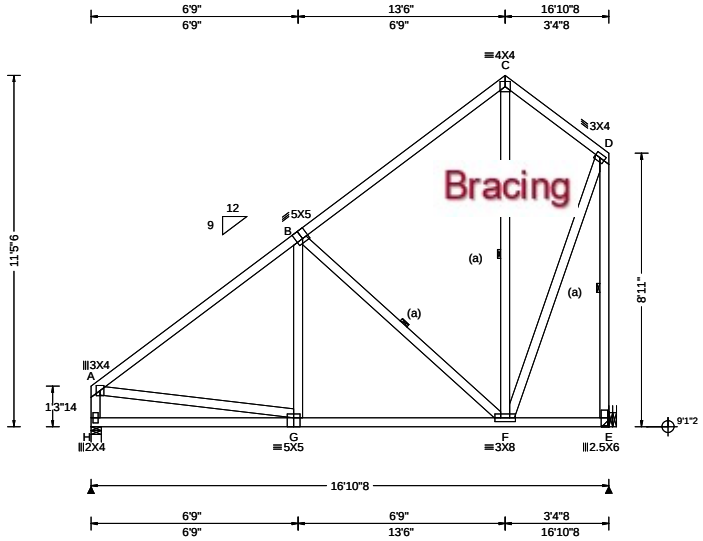
COA #0 278

05/01/2025

Florida Certificate of Product Approval #FL 1999

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

SEQN: 810207 COMN FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** D06	Cust: R 215 JRef:1Y9L2150011 T44 DrwNo: 121.25.1347.53133 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.48 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.017	G	999	240
VERT(CL): 0.034	G	999	180
HORZ(LL): 0.005	B	-	-
HORZ(TL): 0.012	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.628
Max BC CSI: 0.439
Max Web CSI: 0.315

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	767	/-	/-	/432	/-	/271
E	763	/-	/-	/514	/64	/-

Wind reactions based on MWFRS
H Brg Wid = 4.0 Min Req = 1.5 (Truss)
E Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	64	- 865	B - C	111	- 406

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	599	- 233

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	90	- 718	F - D	570	- 145
A - G	545	0	D - E	226	- 754
B - F	244	- 528			

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

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

Bearing at location x=16'7"8 uses the following support conditions: 16'7"8
Bearing E (16'7"8, 9'1"2) LUS26
Supporting Member: (2)2x6 SP #2
(4) 0.148"x3" nails into supporting member,
(3) 0.148"x3" nails into supported member.

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

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes
The overall height of this truss excluding overhang is 11-5-6.

COA #0278
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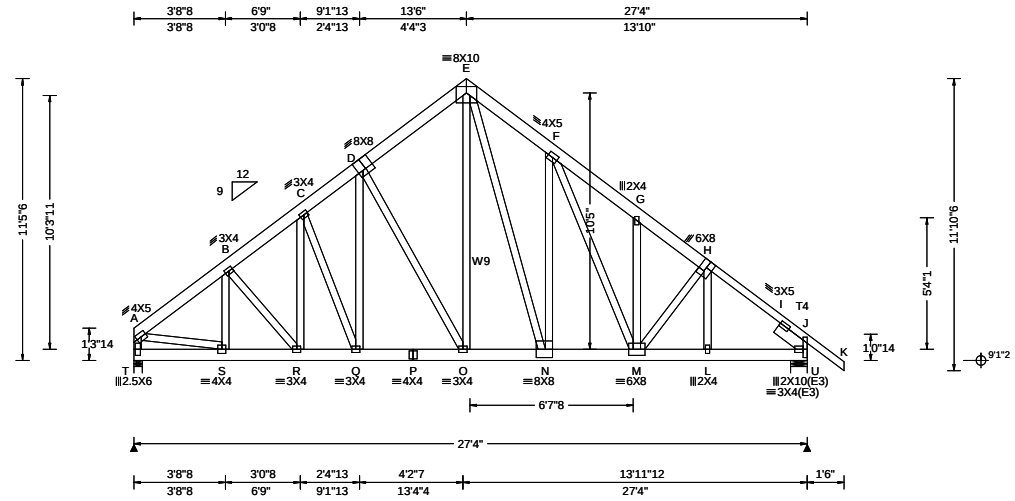
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810247 ATIC FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** D07		Cust: R 215 JRef:1Y9L2150011 T19 DrwNo: 121.25.1359.23000 AK / WHK 05/01/2025	

2 Complete Trusses Required



Loading Criteria (psf)

TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria

Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.087	G	999	240
VERT(CL): 0.180	G	999	180
HORZ(LL): 0.043	I	-	-
HORZ(TL): 0.090	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.418
Max BC CSI: 0.742
Max Web CSI: 0.895

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	2863	/-	/-	/-	/177	/-
U	5132	/-	/-	/-	/213	/-

Wind reactions based on MWFRS
T Brg Wid = 4.0 Min Req = 1.7 (Truss)
U Brg Wid = 8.0 Min Req = 3.0 (Truss)
Bearings T & U are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	110	-1761	F - G	108	-3167
B - C	108	-1879	G - H	106	-3081
C - D	95	-1867	H - I	112	-3296
D - E	85	-1818	I - J	121	-3341
E - F	94	-2583			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1392	-81	O - N	1433	-56
R - Q	1481	-77	N - M	2090	-69
Q - P	1472	-71	M - L	2499	-80
P - O	1472	-71	L - J	2511	-80

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - T	95	-1404	N - F	52	-772
A - S	1398	-80	F - M	1075	-23
E - N	2188	-37			

Lumber

Top chord: 2x6 SP #2; T4 2x4 SP M-31;
Bot chord: 2x6 SP #2;
Webs: 2x4 SP #3; W9 2x4 SP #2;
Rt Slider: 2x6 SP #2; block length = 1.500'

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 7.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

Wind loads and reactions based on MWFRS.

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 11-5-6.

It is the responsibility of the building designer and truss fabricator to review this dwg prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans, specifications and fabricator's truss layout.

Special loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 65 plf at 0.00 to 65 plf at 28.83
PLT: From 25 plf at 13.65 to 25 plf at 20.27
PLT: From 100 plf at 13.65 to 100 plf at 20.27
BC: From 20 plf at 0.00 to 20 plf at 27.33
BC: From 5 plf at 27.33 to 5 plf at 28.83
BC: 206 lb Conc. Load at 13.65
BC: 2101 lb Conc. Load at 17.00
BC: 570 lb Conc. Load at 18.98,20.98,22.98,24.98
BC: 107 lb Conc. Load at 20.27

COA #0278
05/01/2025
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ALPINE
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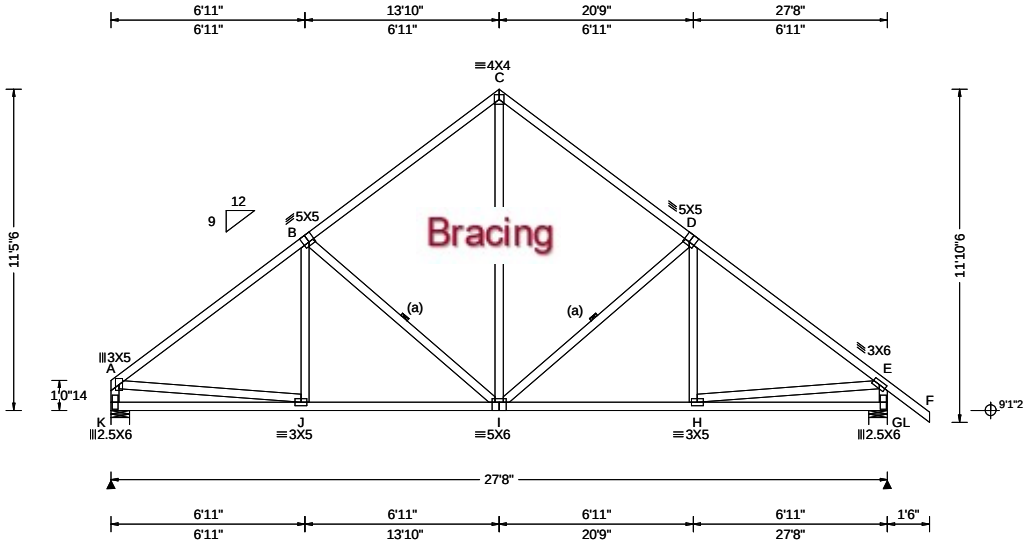
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810123 ATIC FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** D08		Cust: R 215 JRef:1Y9L2150011 T43 DrwNo: 121.25.1347.59000 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.052	I	999	240
VERT(CL): 0.101	I	999	180
HORZ(LL): 0.019	B	-	-
HORZ(TL): 0.036	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.737
Max BC CSI: 0.539
Max Web CSI: 0.512

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1267	/-	/-	/688	/1	/324
L	1377	/-	/-	/704	/6	/-

Wind reactions based on MWFRS
K Brg Wid = 8.0 Min Req = 1.5 (Truss)
L Brg Wid = 8.0 Min Req = 1.6 (Truss)
Bearings K & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	274	- 1618	C - D	333	- 1175
B - C	333	- 1176	D - E	274	- 1613

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	401	- 298	I - H	1189	- 75
J - I	1199	- 93			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - K	230	- 1214	I - D	213	- 480
A - J	1102	- 72	H - E	1115	- 41
B - I	216	- 492	E - G	300	- 1325
C - I	820	- 215			

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 11-5-6.

COA #0278
05/01/2025
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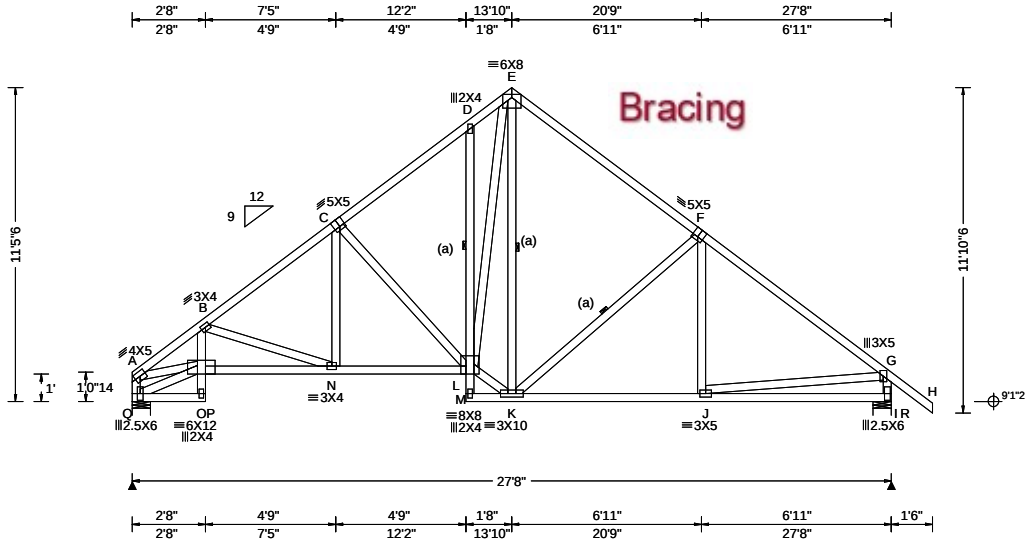
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 809979 COMN FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** D09		Cust: R 215 JRef:1Y9L2150011 T26 DrwNo: 121.25.1348.21127 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.073	D	999	240
VERT(CL): 0.147	D	999	180
HORZ(LL): 0.053	G	-	-
HORZ(TL): 0.107	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.617
Max BC CSI: 0.545
Max Web CSI: 0.715

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1201	/-	/-	/688	/176	/324
R	1349	/-	/-	/704	/201	/-

Wind reactions based on MWFRS
Q Brg Wid = 8.0 Min Req = 1.5 (Truss)
R Brg Wid = 8.0 Min Req = 1.6 (Truss)
Bearings Q & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	378	- 2372	D - E	400	- 1173
B - C	311	- 1684	E - F	333	- 1131
C - D	334	- 1300	F - G	275	- 1574

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	1899	- 289	K - J	1159	- 77
N - L	1274	- 88			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Q	200	- 1155	L - E	1069	- 184
A - O	1876	- 267	L - K	971	0
O - B	462	- 107	K - F	218	- 492
B - N	213	- 655	J - G	1087	- 43
C - L	183	- 465	G - I	300	- 1297

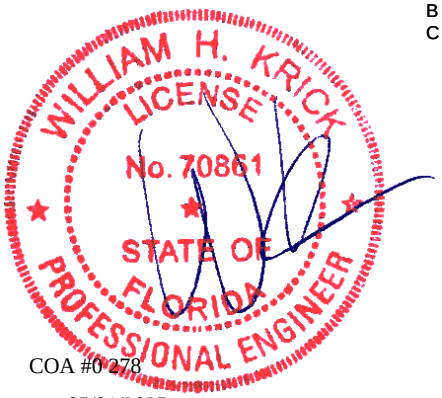
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 11-5-6.



COA #0278
05/01/2025
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ALPINE
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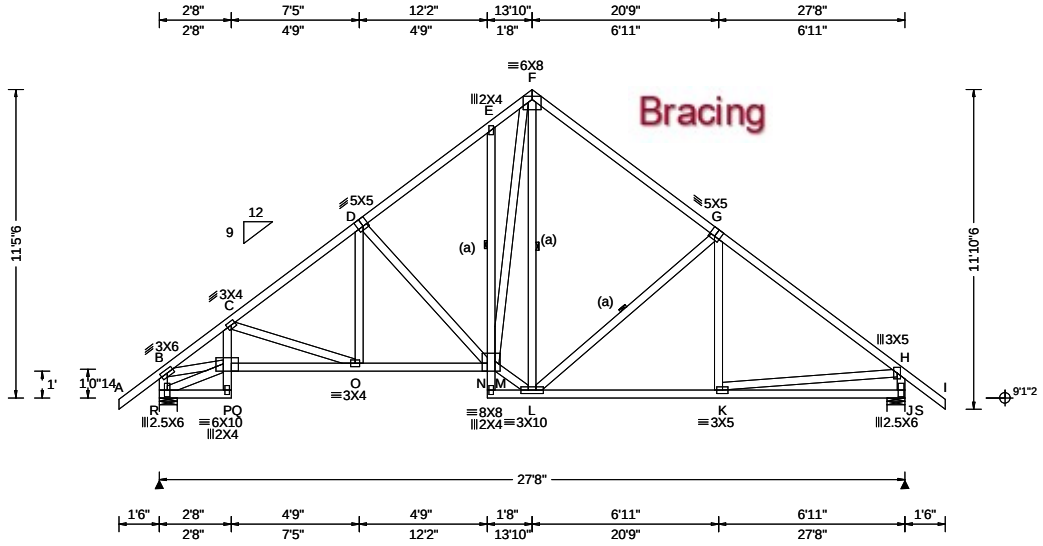
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 809976 COMN FROM: CDM	Ply: 1 Qty: 5	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** D10		Cust: R 215 JRef:1Y9L2150011 T24 DrwNo: 121.25.1348.39130 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.071	E	999	240
VERT(CL): 0.143	E	999	180
HORZ(LL): 0.050	H	-	-
HORZ(TL): 0.101	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.617
Max BC CSI: 0.545
Max Web CSI: 0.675

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	1309	/-	/-	/703	/201	/307
S	1347	/-	/-	/703	/201	/-

Wind reactions based on MWFRS
R Brg Wid = 8.0 Min Req = 1.5 (Truss)
S Brg Wid = 8.0 Min Req = 1.6 (Truss)
Bearings R & S are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	538	-2256	E - F	537	-1167
C - D	448	-1669	F - G	445	-1127
D - E	458	-1294	G - H	397	-1570

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1788	-337	L - K	1156	-149
O - M	1264	-137			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - R	392	-1260	M - F	1059	-235
B - P	1773	-332	M - L	967	0
P - C	400	-102	L - G	286	-492
C - O	212	-583	K - H	1084	-105
D - M	243	-456	H - J	405	-1294

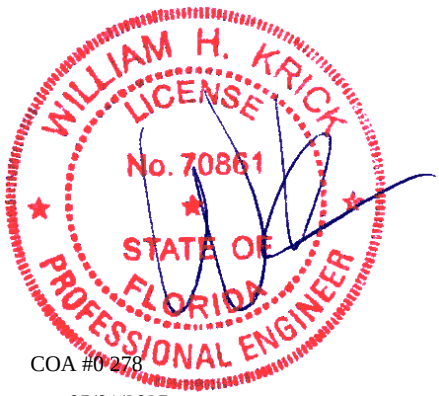
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 11-5-6.



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05/01/2025
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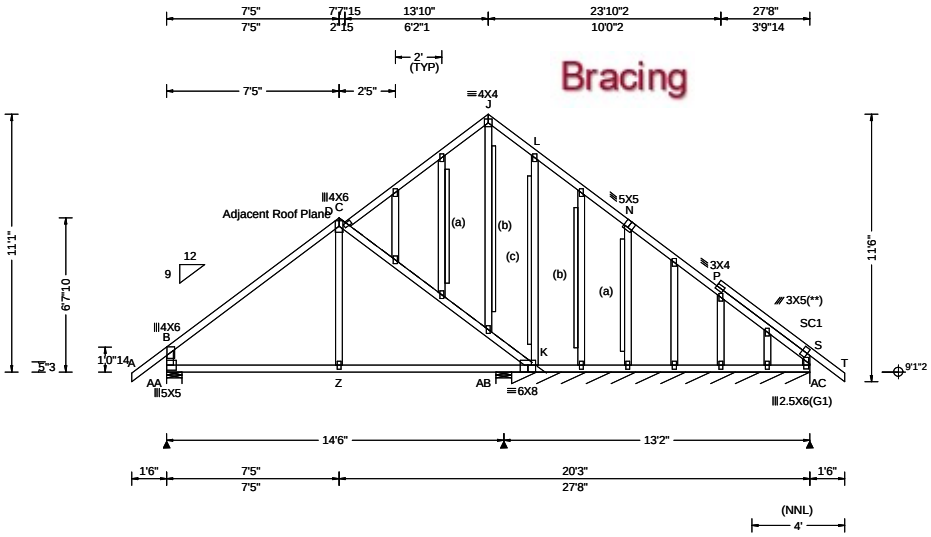
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 809986 GABL FROM: CDM Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** D11	Cust: R 215 JRef:1Y9L2150011 T14 DrwNo: 121.25.1349.21800 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.151	G	999	240
VERT(CL): 0.310	G	561	180
HORZ(LL): -0.114	B	-	-
HORZ(TL): 0.238	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.551
Max BC CSI: 0.417
Max Web CSI: 0.846

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AA	770	/-	/-	/437	/111	/304
AB	304	/-	/-	/172	/-	/-
AC	*123	/-	/-	/68	/28	/-

Wind reactions based on MWFRS
AA Brg Wid = 8.0 Min Req = 1.5 (Truss)
AB Brg Wid = 8.0 Min Req = 1.5 (Truss)
AC Brg Wid = 153 Min Req = -
Bearings AA, AB, & AB are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	186	- 697	D - K	315	- 540
C - D	189	- 376			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AA- Z	549	- 210	Z - K	1098	- 420

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B -AA	277	- 678

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.
K - L	2	- 381

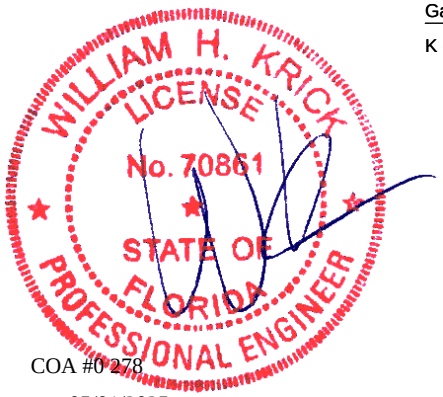
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Rt Stub Wedge: 2x4 SP #3;

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

Loading
Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/224.
Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).

Gable Reinforcement
(a) 2x4 "L" reinforcement. Same species and grade as web. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.
(b) 2x6 "L" reinforcement. Any species and grade. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.
(c) 2x6 "L" reinforcement. Same species and grade as web. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.



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

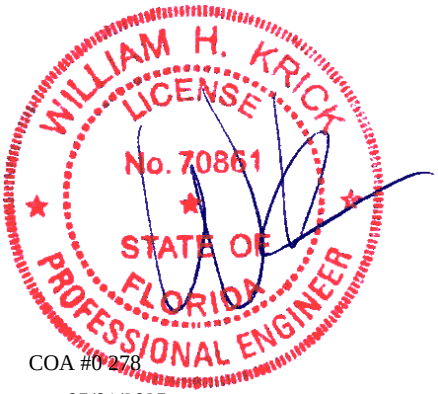
SEQN: 809986 GABL	Ply: 1	**Job Number:** 25-2571	Cust: R 215 JRef:1Y9L2150011 T14
FROM: CDM	Qty: 1	RAPHAEL RESIDENCE	DrwNo: 121.25.1349.21800
Page 2 of 2		**Truss Label:** D11	AK / WHK 05/01/2025

Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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

The overall height of this truss excluding overhang is 11-1-0.



COA #0278

05/01/2025

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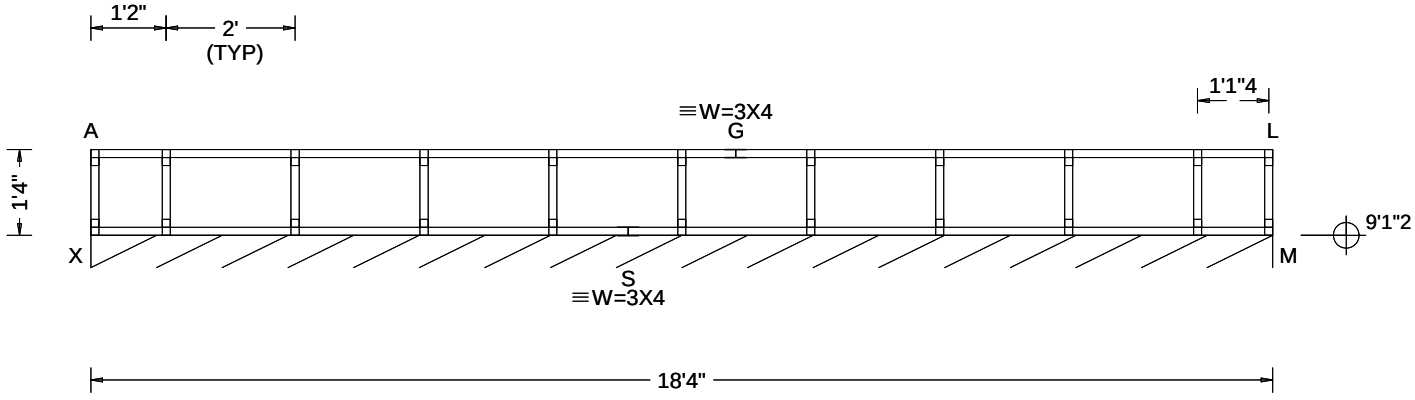
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810147 SY42 FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** F01	Cust: R 215 JRef:1Y9L2150011 T16 DrwNo: 121.25.1349.31813 AK / WHK 05/01/2025



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 24.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 J 999 480 VERT(CL): 0.000 J 999 360 HORZ(LL): -0.000 L - - HORZ(TL): 0.000 L - - Creep Factor: 2.0 Max TC CSI: 0.177 Max BC CSI: 0.043 Max Web CSI: 0.047 VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
M*	110	/-	/-	/-	/-	/-
M	Brg Wid = 220		Min Req = -			

Bearing X is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

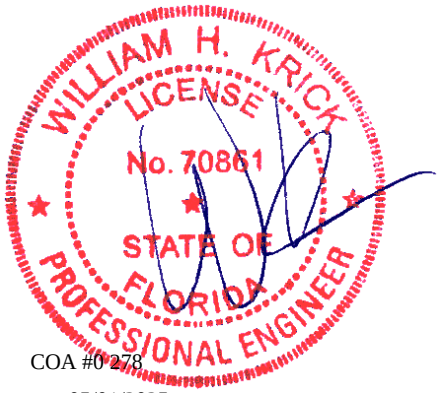
All plates are 1.5X3 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

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



COA #0 278

05/01/2025

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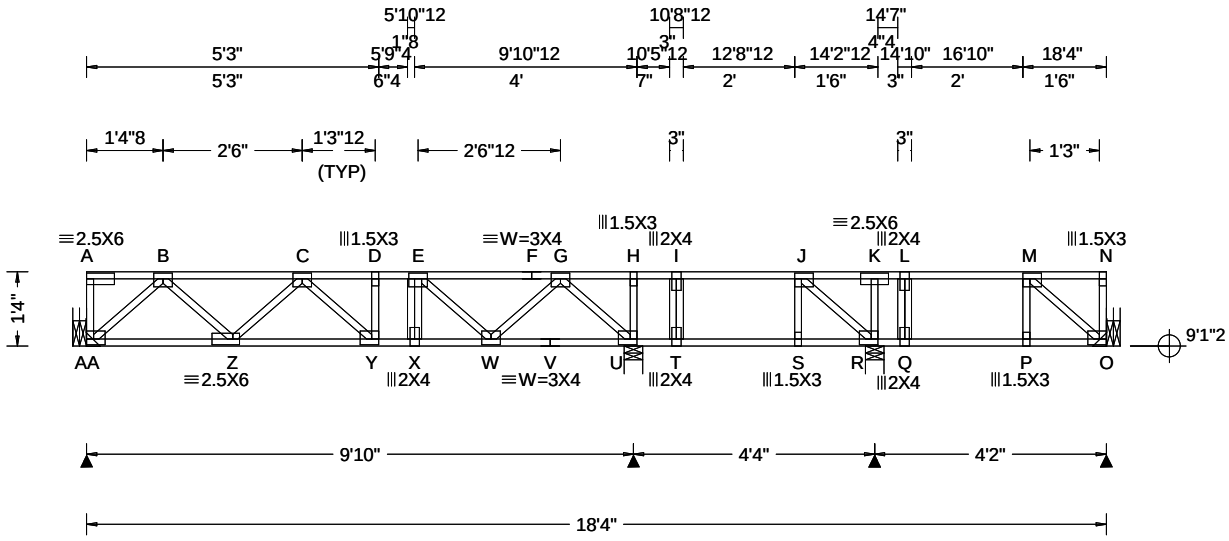
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810211 SY42 FROM: CDM	Ply: 1 Qty: 5	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** F02		Cust: R 215 JRef:1Y9L2150011 T47 DrwNo: 121.25.1349.38820 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	40.00
TCDL:	10.00
BCLL:	0.00
BCDL:	5.00
Des Ld:	55.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	X	999	480
VERT(CL): 0.058	Y	999	360
HORZ(LL): 0.014	O	-	-
HORZ(TL): 0.019	O	-	-

Creep Factor: 2.0
Max TC CSI: 0.364
Max BC CSI: 0.435
Max Web CSI: 0.202

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AA	570 /-	/-	/-	/-	/-
U	713 /-	/-	/-	/-	/-
R	472 /-	/-	/-	/-	/-
O	278 /-	/-	/-	/-	/-

AA Brg Wid = - Min Req = -
U Brg Wid = 4.0 Min Req = 1.5 (Truss)
R Brg Wid = 4.0 Min Req = 1.5 (Truss)
O Brg Wid = - Min Req = -
Bearings U & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-894	F - G	0	-976
C - D	0	-1219	G - H	0	-385
D - E	0	-1220	H - I	0	-393
E - F	0	-976	I - J	0	-393

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AA- Z	589	0	V - U	749	0
Z - Y	1171	0	U - T	393	0
Y - X	1220	0	T - S	393	0
X - W	1220	0	S - R	394	0
W - V	749	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AA- B	0	-785	Z - C	0	-385
B - Z	423	0	G - U	0	-635

Lumber

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

Plating Notes

All plates are 3X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Additional Notes

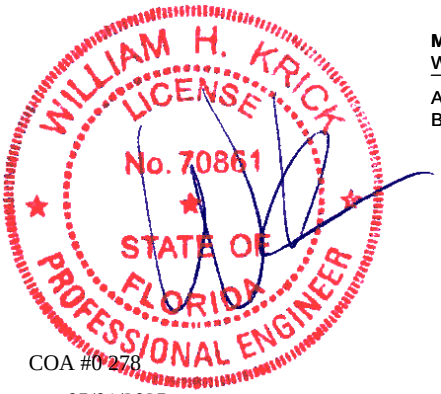
See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

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

Note: Truss not designed to be installed in reverse orientation. Truss must be installed as shown.

It is the responsibility of the building designer and truss fabricator to review this dwg prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans, specifications and fabricator's truss layout.



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05/01/2025
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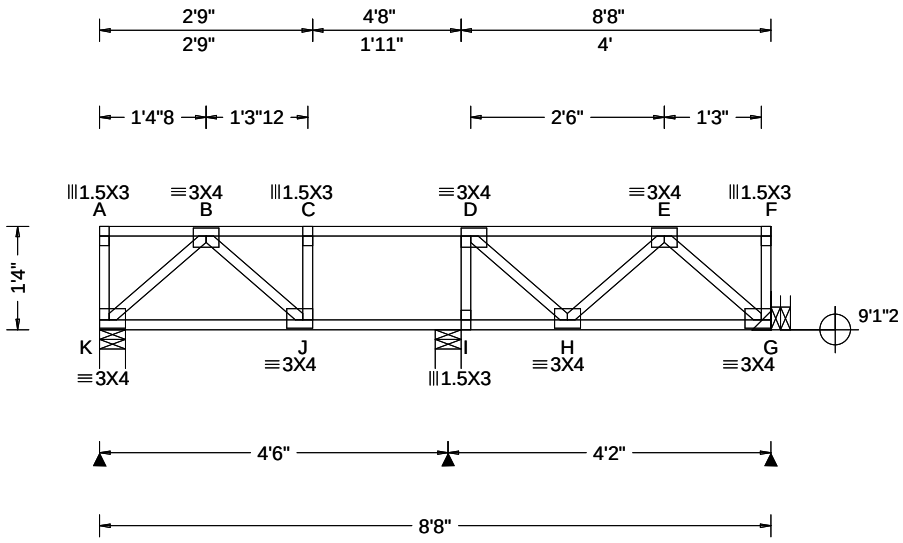
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 810156 SY42 FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** F03		Cust: R 215 JRef:1Y9L2150011 T52 DrwNo: 121.25.1349.43960 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	40.00
TCDL:	10.00
BCLL:	0.00
BCDL:	5.00
Des Ld:	55.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.039	C	999	360
HORZ(LL): 0.007	B	-	-
HORZ(TL): 0.012	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.338
Max BC CSI: 0.336
Max Web CSI: 0.106

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	370	/-	/-	/-	/-	/-
I	303	/-	/-	/-	/-	/-
G	344	/-	/-	/-	/-	/-

K Brg Wid = 4.0 Min Req = 1.5 (Truss)
I Brg Wid = 4.0 Min Req = 1.5 (Truss)
G Brg Wid = - Min Req = -
Bearings K & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-478	D - E	0	-414
C - D	0	-486			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	972	0	I - H	487	0

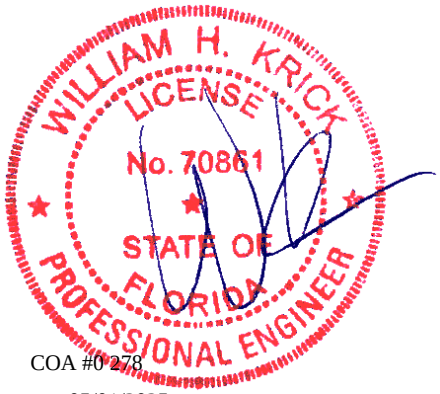
Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	0	-447	E - G	0	-436

Lumber
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

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

Additional Notes
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 1-4-0.
Note: Truss not designed to be installed in reverse orientation. Truss must be installed as shown.



COA #0 278
05/01/2025
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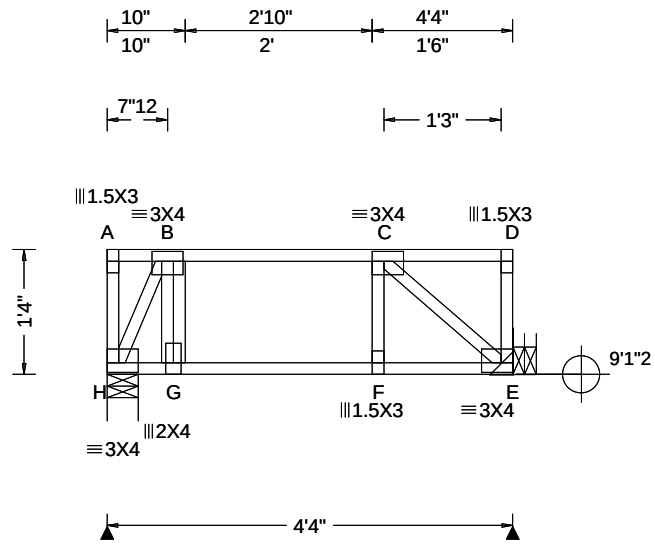
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810154 SY42 FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** F04	Cust: R 215 JRef:1Y9L2150011 T12 DrwNo: 121.25.1349.45913 AK / WHK 05/01/2025	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 24.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.019 F 999 480 VERT(CL): 0.026 F 999 360 HORZ(LL): -0.013 C - - HORZ(TL): 0.017 C - - Creep Factor: 2.0 Max TC CSI: 0.302 Max BC CSI: 0.209 Max Web CSI: 0.086 VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	238	/-	/-	/-	/-	/-
E	238	/-	/-	/-	/-	/-

H Brg Wid = 4.0 Min Req = 1.5 (Truss)
E Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

Additional Notes

Truss must be installed as shown with top chord up.

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

COA #0 278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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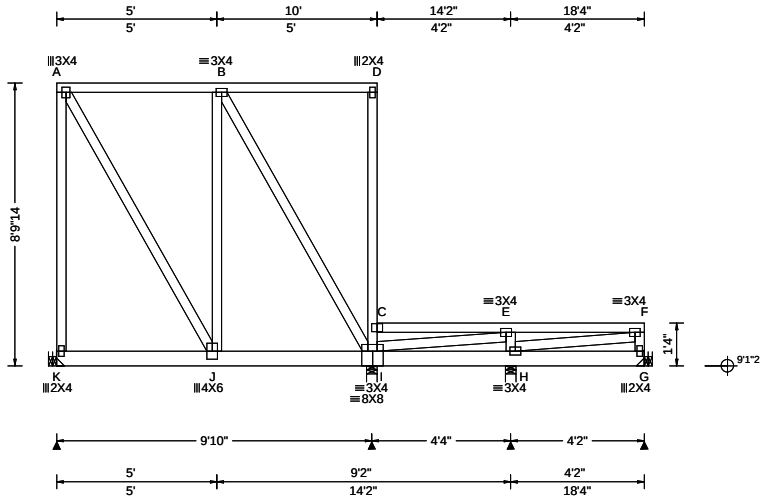
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810161 FLAT FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** FT01	Cust: R 215 JRef:1Y9L2150011 T50 DrwNo: 121.25.1353.18327 AK / WHK 05/01/2025	

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.020	J	999	480
VERT(CL): 0.027	J	999	360
HORZ(LL): -0.005	B	-	-
HORZ(TL): 0.006	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.509
Max BC CSI: 0.726
Max Web CSI: 0.597

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	2101	/-	/-	/-	/-	/-
I	4158	/-	/-	/-	/-	/-
H	554	/-	/-	/-	/-	/-
G	205	/-	/-	/-	/-	/-

K Brg Wid = - Min Req = -
I Brg Wid = 4.0 Min Req = 2.5
H Brg Wid = 4.0 Min Req = 1.5 (Truss)
G Brg Wid = - Min Req = -
Bearings I & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	0	-412

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
J - I	398	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - K	0	-817	J - B	408	-136
A - J	827	0	B - I	0	-821

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x6 SP #2;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 100 plf at 0.00 to 100 plf at 18.33
BC: From 5 plf at 0.00 to 5 plf at 9.50
BC: From 10 plf at 9.50 to 10 plf at 18.33
BC: 763 lb Conc. Load at 1.73, 3.73, 5.73, 7.73
BC: 1793 lb Conc. Load at 9.50

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

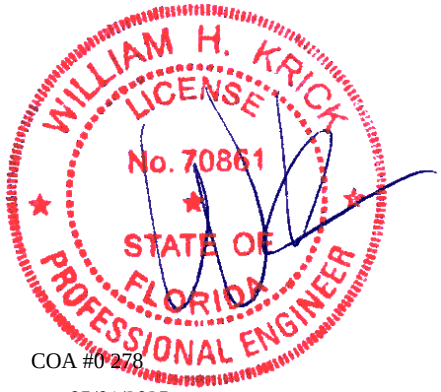
It is the responsibility of the building designer and truss fabricator to review this dwg prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans, specifications and fabricator's truss layout.

Additional Notes

Left end vertical not designed to be exposed to wind pressure.

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 8-9-14.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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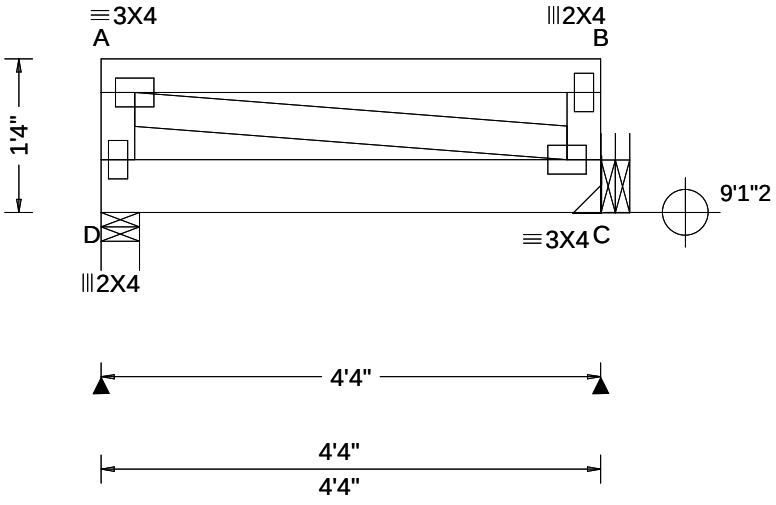
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810193 FLAT FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** FT02	Cust: R 215 JRef:1Y9L2150011 T59 DrwNo: 121.25.1353.25453 AK / WHK 05/01/2025	

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 24.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 480 VERT(CL): 0.000 A 999 360 HORZ(LL): 0.000 C - - HORZ(TL): 0.000 C - - Creep Factor: 2.0 Max TC CSI: 0.745 Max BC CSI: 0.033 Max Web CSI: 0.143 VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	472	/-	/-	/-	/-	/-
C	318	/-	/-	/-	/-	/-

D Brg Wid = 4.0 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x6 SP #2;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 50 plf at 0.00 to 50 plf at 4.33
BC: From 5 plf at 0.00 to 5 plf at 4.33
BC: 276 lb Conc. Load at 0.73, 2.40

Hangers / Ties

(J) Hanger Support Required, by others

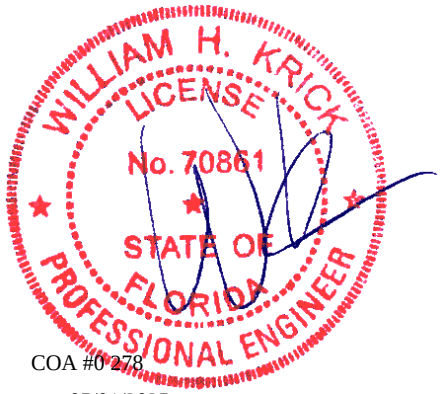
Purlins

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

Additional Notes

Truss must be installed as shown with top chord up.

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



COA #0 278

05/01/2025

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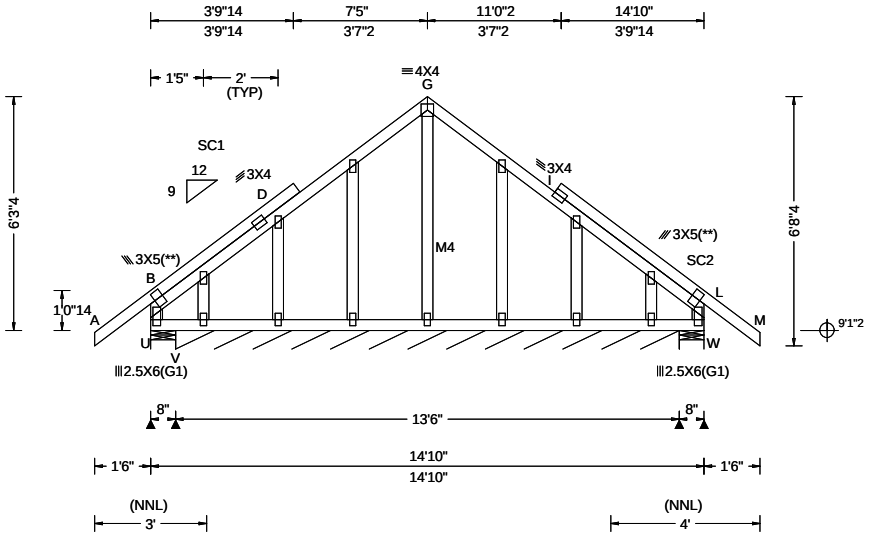
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 809981 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** G01		Cust: R 215 JRef:1Y9L2150011 T11 DrwNo: 121.25.1354.42503 AK / WHK 05/01/2025	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.003 I 999 240 VERT(CL): 0.005 I 999 180 HORZ(LL): -0.002 I - - HORZ(TL): 0.005 I - - Creep Factor: 2.0 Max TC CSI: 0.248 Max BC CSI: 0.030 Max Web CSI: 0.977 VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
U	258	/-	/-	/113	/49	/157
V*	69	/-	/-	/43	/8	/-
W	288	/-	/-	/103	/36	/-

Wind reactions based on MWFRS
U Brg Wid = 8.0 Min Req = 1.5 (Truss)
V Brg Wid = 161 Min Req = -
W Brg Wid = 8.0 Min Req = 1.5 (Truss)
Bearings U, V, & W are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; M4 2x4 SP M-31;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;
Lt Stub Wedge: 2x4 SP #3;Rt Stub Wedge: 2x4 SP #3;

Plating Notes

All plates are 2X4 except as noted.

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

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Wind

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

Wind loading based on both gable and hip roof types.

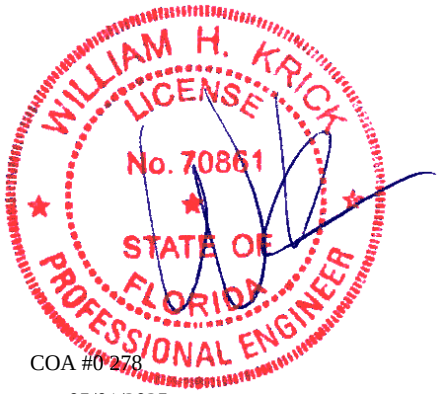
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/120.

Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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

The overall height of this truss excluding overhang is 6-3-4.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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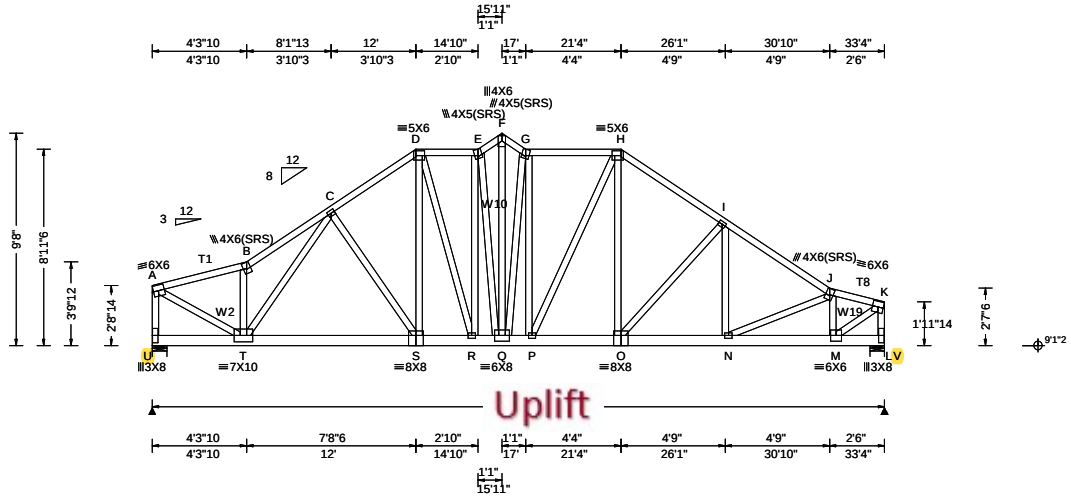
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 810205 COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** H01	Cust: R 215 JRef:1Y9L2150011 T54 DrwNo: 121.25.1354.52970 AK / WHK 05/01/2025		

2 Complete Trusses Required



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.115 G 999 240
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.230 G 999 180
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.037 B - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.075 B - -
NCBCLL:	0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.268
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.421
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.626
		C&C Dist a: 3.33 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 24.02.00D.0114.10
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
U	5304	/-	/-	/-	/998	/-
V	5081	/-	/-	/-	/960	/-

Wind reactions based on MWFRS
U Brg Wid = 8.0 Min Req = 2.2 (Truss)
V Brg Wid = 8.0 Min Req = 2.1 (Truss)
Bearings U & V are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	555	- 2945	F - G	536	- 2648
B - C	660	- 3496	G - H	502	- 2494
C - D	571	- 2860	H - I	563	- 2811
D - E	492	- 2447	I - J	642	- 3293
E - F	533	- 2636	J - K	476	- 2520

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
T - S	2543	- 499	P - O	2322	- 462
S - R	2364	- 469	O - N	2703	- 525
R - Q	2461	- 495	N - M	2615	- 496
Q - P	2499	- 504			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - U	449	- 2358	Q - G	215	- 1066
A - T	3268	- 613	P - H	403	- 95
T - B	253	- 1269	H - O	1076	- 187
T - C	654	- 84	O - I	97	- 582
D - S	1189	- 204	I - N	625	- 87
R - E	95	- 408	J - M	278	- 1328
E - Q	147	- 759	M - K	3013	- 568
F - Q	2386	- 482	K - L	454	- 2395

Lumber

Top chord: 2x4 SP M-31; T1,T8 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2,W10,W19 2x4 SP M-31;

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 5.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	30 plf at	0.00 to	30 plf at	4.30	
TC: From	32 plf at	4.30 to	32 plf at	12.00	
TC: From	30 plf at	12.00 to	30 plf at	14.83	
TC: From	32 plf at	14.83 to	32 plf at	17.00	
TC: From	30 plf at	17.00 to	30 plf at	21.33	
TC: From	32 plf at	21.33 to	32 plf at	30.83	
TC: From	30 plf at	30.83 to	30 plf at	33.33	
BC: From	10 plf at	0.00 to	10 plf at	33.33	

BC: 498 lb Conc. Load at 0.44,30.60,32.60
BC: 504 lb Conc. Load at 1.85, 3.85, 5.85, 7.85 9.85,11.85,13.85,18.60,20.60,22.60,24.60,26.60 28.60
BC: 480 lb Conc. Load at 15.85,16.60

Plating Notes

All plates are 3X4 except as noted.

Purlins

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

Wind

Wind loads and reactions based on MWFRS.
End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 9-8-0.

COA #0278
05/01/2025
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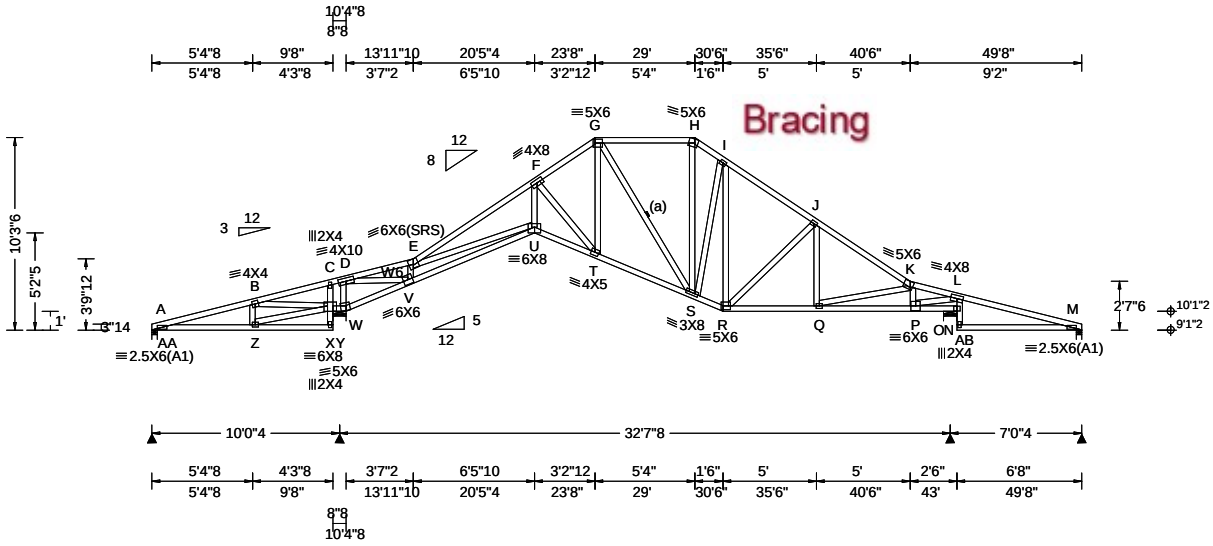
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 812281 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** H02		Cust: R 215 JRef:1Y9L2150011 T13 DrwNo: 121.25.1354.57463 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.97 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.204	U	999	240
VERT(CL): 0.426	U	920	180
HORZ(LL): 0.130	P	-	-
HORZ(TL): 0.273	P	-	-

Creep Factor: 2.0
Max TC CSI: 0.951
Max BC CSI: 0.635
Max Web CSI: 0.961

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
AA	200	/-138	/-		/53	/76	/256
X	2283	/-	/-		/1399	/16	/-
AB	1612	/-	/-		/964	/24	/-
M	212	/-	/-		/101	/19	/-

Wind reactions based on MWFRS
AA Brg Wid = 3.5 Min Req = 1.5 (Truss)
X Brg Wid = 8.5 Min Req = 2.7 (Truss)
AB Brg Wid = 8.5 Min Req = 1.9 (Truss)
M Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings AA, X, AB, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	900	- 173	G - H	465	- 1089
B - C	2552	- 544	H - I	526	- 1313
C - D	2650	- 543	I - J	502	- 1419
D - E	171	- 502	J - K	510	- 1843
E - F	610	- 3166	K - L	475	- 1793
F - G	529	- 1695			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - Z	195	- 856	T - S	1475	- 122
X - W	641	- 2595	S - R	1204	- 136
W - V	701	- 2799	R - Q	1463	- 252
V - U	862	- 143	Q - P	1851	- 390
U - T	2709	- 331	P - N	101	- 438

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - X	560	- 1934	T - G	1077	- 130
Z - X	182	- 784	G - S	98	- 482
D - W	331	- 1187	S - H	484	- 119
D - V	2994	- 659	R - J	212	- 500
V - E	437	- 1473	Q - K	162	- 391
E - U	1864	- 201	K - P	190	- 627
U - F	1910	- 165	P - L	2250	- 460
F - T	320	- 1849	L - N	458	- 1479

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W6 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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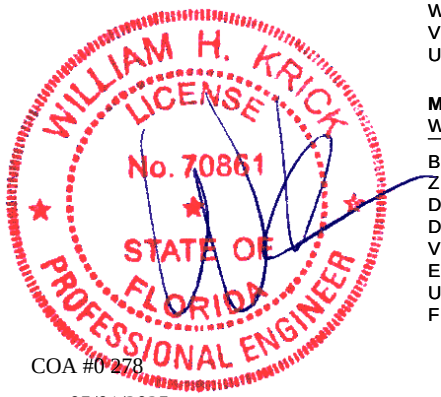
The overall height of this truss excluding overhang is 10-3-6.



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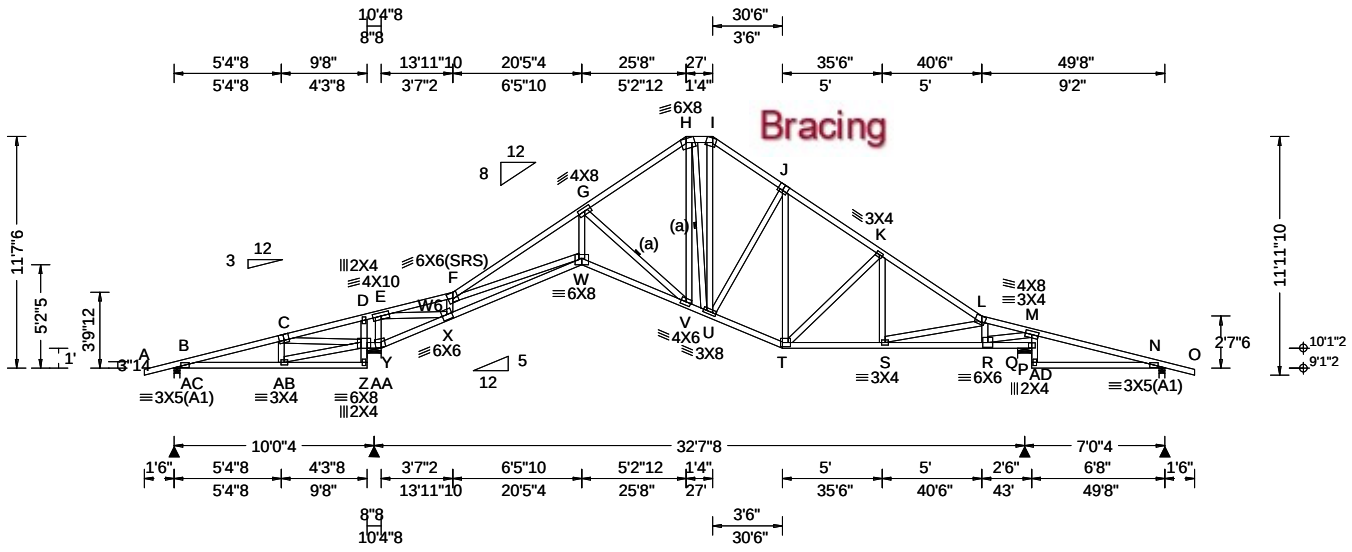
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 812279 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** H03	Cust: R 215 JRef:1Y9L2150011 T60 DrwNo: 121.25.1355.01460 AK / WHK 05/01/2025	



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.219 W 999 240
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.454 W 864 180
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.141 R - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.291 R - -
NCBCLL:	10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.907
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.688
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.910
		C&C Dist a: 4.97 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	VIEW Ver: 24.02.00D.0114.10
		GCpi: 0.18	WAVE	
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AC	301	/-105	/-	/64	/143	/292
Z	2291	/-	/-	/1427	/8	/-
AD	1604	/-	/-	/971	/18	/-
N	322	/-	/-	/115	/82	/-

Wind reactions based on MWFRS
AC Brg Wid = 3.5 Min Req = 1.5 (Truss)
Z Brg Wid = 8.5 Min Req = 2.7 (Truss)
AD Brg Wid = 8.5 Min Req = 1.9 (Truss)
N Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings AC, Z, AD, & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	974	- 157	H - I	374	- 1024
C - D	2609	- 428	I - J	410	- 1287
D - E	2709	- 418	J - K	429	- 1425
E - F	150	- 426	K - L	441	- 1847
F - G	423	- 3187	L - M	438	- 1792
G - H	397	- 1388			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B -AB	159	- 930	V - U	1150	0
Z - Y	535	- 2653	U - T	1218	- 57
Y - X	586	- 2860	T - S	1466	- 171
X - W	780	- 101	S - R	1852	- 334
W - V	2742	- 152	R - P	91	- 460

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - Z	413	- 1912	V - H	812	- 60
AB- Z	150	- 859	H - U	133	- 375
E - Y	280	- 1188	U - I	547	- 175
E - X	2976	- 526	T - K	211	- 493
X - F	363	- 1467	S - L	187	- 390
F - W	1964	- 77	L - R	173	- 634
W - G	1946	- 31	R - M	2272	- 403
G - V	257	- 1984	M - P	402	- 1477

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W6 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 5X6 except as noted.

Purlins

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

Wind

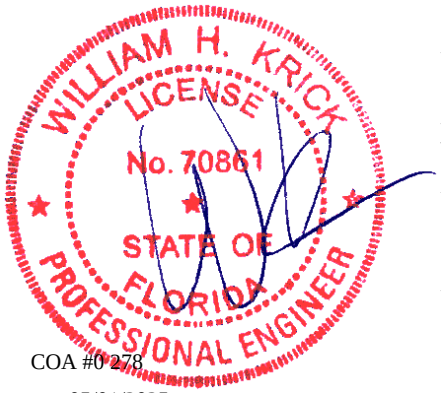
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

The overall height of this truss excluding overhang is 11-7-6.



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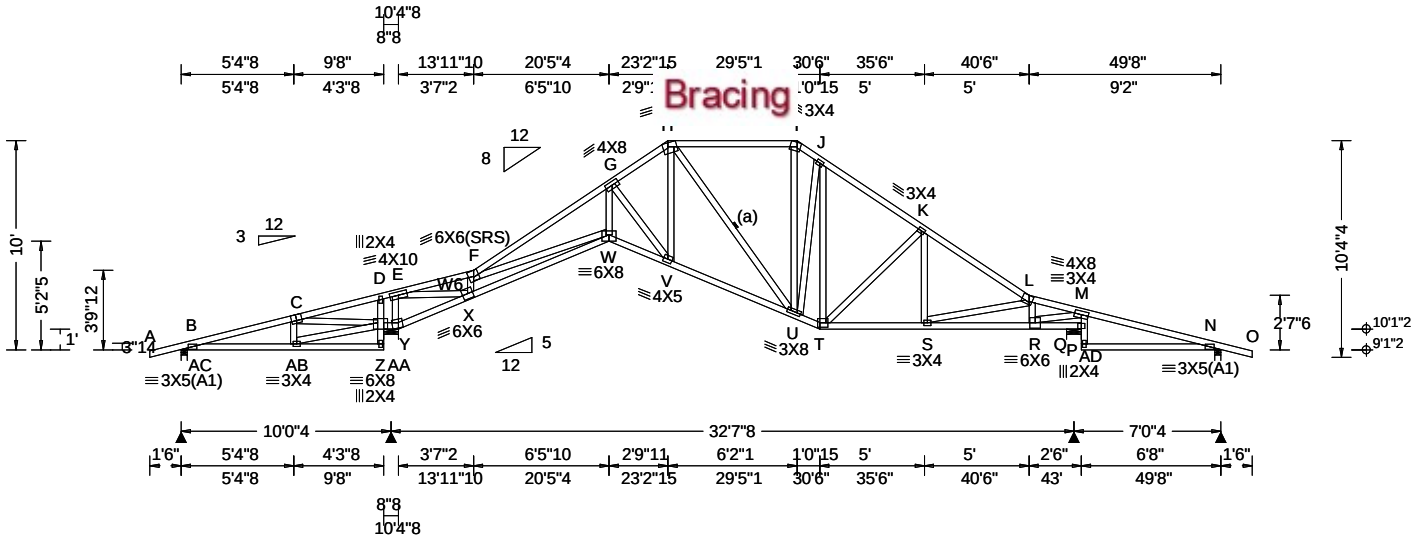
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 812276 COMN FROM: CDM	Ply: 1 Qty: 7	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** H04	Cust: R 215 JRef:1Y9L2150011 T9 DrwNo: 121.25.1355.03960 AK / WHK 05/01/2025



Loading Criteria (psf)		**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL:	20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.207 W 999 240
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.429 W 915 180
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.133 R - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.275 R - -
NCBCLL:	10.00	Mean Height: 15.10 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.968
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.672
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.888
		C&C Dist a: 4.97 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	VIEW Ver: 24.02.00D.0114.10
		GCpi: 0.18	WAVE	
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AC	302	/-100	/-	/66	/147	/294
Z	2284	/-	/-	/1424	/-	/-
AD	1605	/-	/-	/973	/5	/-
N	322	/-	/-	/116	/84	/-

Wind reactions based on MWFRS
AC Brg Wid = 3.5 Min Req = 1.5 (Truss)
Z Brg Wid = 8.5 Min Req = 2.7 (Truss)
AD Brg Wid = 8.5 Min Req = 1.9 (Truss)
N Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings AC, Z, AD, & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	927	- 150	H - I	365	- 1119
C - D	2566	- 383	I - J	417	- 1314
D - E	2662	- 371	J - K	392	- 1433
E - F	162	- 512	K - L	405	- 1857
F - G	351	- 3195	L - M	408	- 1806
G - H	372	- 1809			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B -AB	119	- 883	V - U	1592	0
Z - Y	485	- 2609	U - T	1221	0
Y - X	532	- 2813	T - S	1474	- 135
X - W	875	- 98	S - R	1865	- 302
W - V	2730	- 41	R - P	80	- 445

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - Z	390	- 1887	V - H	1157	- 67
AB- Z	112	- 811	H - U	127	- 573
E - Y	261	- 1186	U - I	441	- 137
E - X	3018	- 482	T - K	215	- 500
X - F	343	- 1485	S - L	185	- 395
F - W	1874	0	L - R	160	- 633
W - G	1916	0	R - M	2271	- 363
G - V	197	- 1827	M - P	390	- 1478

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W6 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 5X6 except as noted.

Purlins

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

Wind

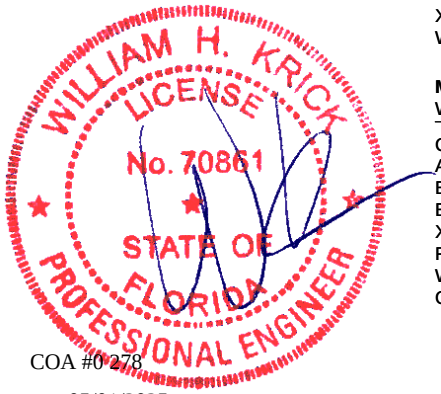
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



COA #0278

05/01/2025

Florida Certificate of Product Approval #FL 1999

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

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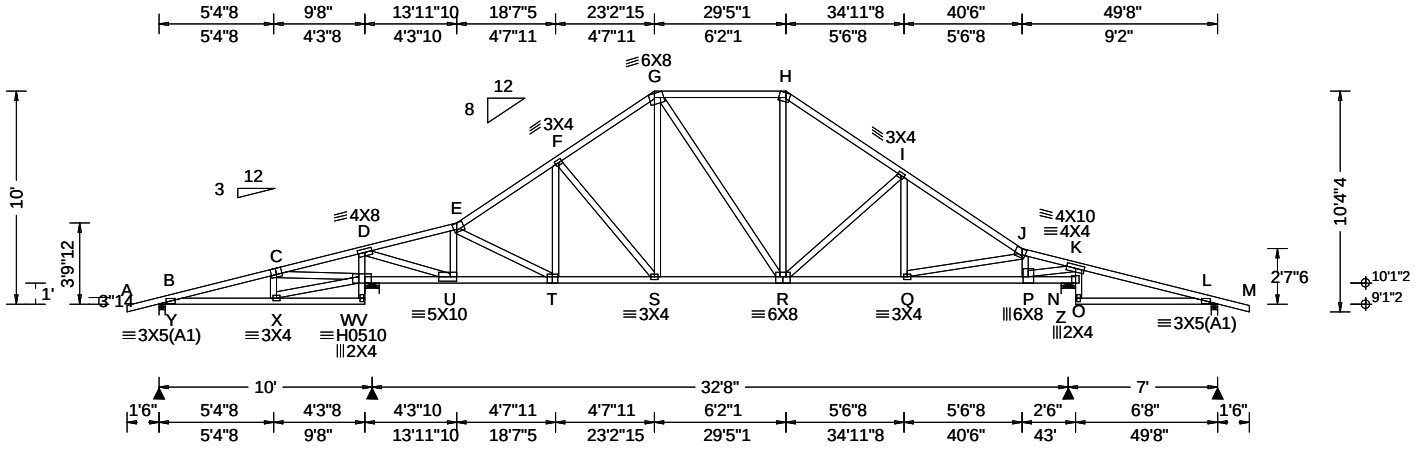
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810096 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** H05		Cust: R 215 JRef:1Y9L2150011 T17 DrwNo: 121.25.1355.06587 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.10 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.97 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
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): 0.095	S	999	240
VERT(CL): 0.196	S	999	180
HORZ(LL): 0.029	P	-	-
HORZ(TL): 0.059	P	-	-

Creep Factor: 2.0
Max TC CSI: 0.672
Max BC CSI: 0.604
Max Web CSI: 0.996

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Y	405	/-	/-	/148	/110	/294
V	1940	/-	/-	/1170	/13	/-
Z	1709	/-	/-	/1013	/7	/-
L	328	/-	/-	/122	/83	/-

Wind reactions based on MWFRS
Y Brg Wid = 3.5 Min Req = 1.5 (Truss)
V Brg Wid = 8.0 Min Req = 2.3 (Truss)
Z Brg Wid = 8.0 Min Req = 2.0 (Truss)
L Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Y, V, Z, & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	194	- 392	G - H	407	- 1236
C - D	1024	- 179	H - I	429	- 1578
D - E	408	- 1688	I - J	447	- 2058
E - F	445	- 1872	J - K	458	- 2085
F - G	436	- 1543			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	249	- 910	S - R	1218	0
U - T	1696	- 256	R - Q	1632	- 163
T - S	1487	- 132	Q - P	2151	- 358

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - V	283	- 1106	R - H	486	- 100
X - V	393	- 130	R - I	230	- 545
V - D	493	- 1784	Q - J	215	- 523
D - U	2614	- 505	J - P	184	- 685
U - E	214	- 761	P - K	2468	- 422
F - S	209	- 426	K - N	412	- 1586
G - S	461	- 107			

Lumber

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

Plating Notes

All plates are 5X6 except as noted.

Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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

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

COA #0 278
05/01/2025
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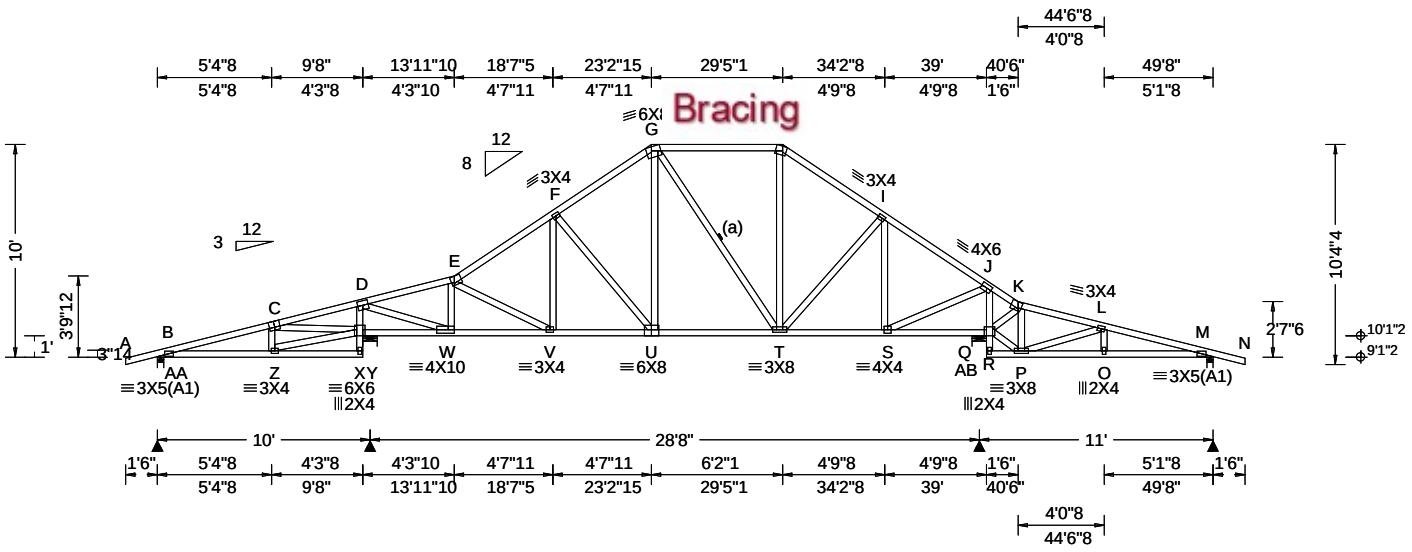
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810099 COMN FROM: CDM	Ply: 1 Qty: 5	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** H06	Cust: R 215 JRef:1Y9L2150011 T30 DrwNo: 121.25.1355.13537 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.10 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.97 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.065	V	999	240
VERT(CL): 0.131	V	999	180
HORZ(LL): 0.015	S	-	-
HORZ(TL): 0.030	S	-	-

Creep Factor: 2.0
Max TC CSI: 0.454
Max BC CSI: 0.493
Max Web CSI: 0.871

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

Loc	R+	Gravity / R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
AA	420	/-	/-	/169	/109	/294
X	1781	/-	/-	/1052	/13	/-
AB	1847	/-	/-	/1056	/6	/-
M	440	/-	/-	/186	/84	/-

Wind reactions based on MWFRS
AA Brg Wid = 3.5 Min Req = 1.5 (Truss)
X Brg Wid = 8.0 Min Req = 2.1 (Truss)
AB Brg Wid = 8.0 Min Req = 2.2 (Truss)
M Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings AA, X, AB, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	180	- 448	G - H	322	- 925
C - D	791	- 126	H - I	333	- 1188
D - E	368	- 1582	I - J	242	- 1074
E - F	381	- 1670	J - K	705	- 163
F - G	369	- 1344	L - M	202	- 559

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Z	408	- 106	T - S	846	0
X - W	198	- 686	S - Q	257	- 519
W - V	1581	- 214	P - O	509	- 154
V - U	1318	- 77	O - M	517	- 150
U - T	1053	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - X	259	- 1000	I - S	143	- 501
Z - X	443	- 107	S - J	1431	- 237
X - D	437	- 1594	J - Q	399	- 1746
D - W	2286	- 409	Q - K	206	- 412
W - E	183	- 654	K - P	457	- 133
F - U	212	- 435	P - L	258	- 674
G - U	550	- 109			

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

Plating Notes
All plates are 5X6 except as noted.

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

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

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

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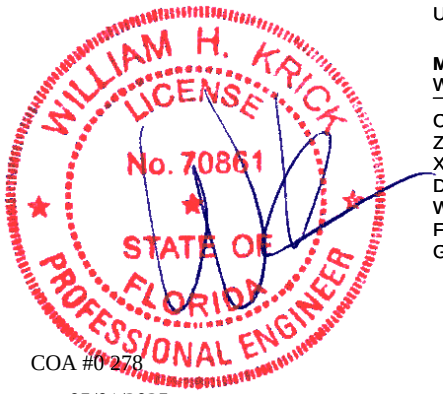
The overall height of this truss excluding overhang is 10-0-0.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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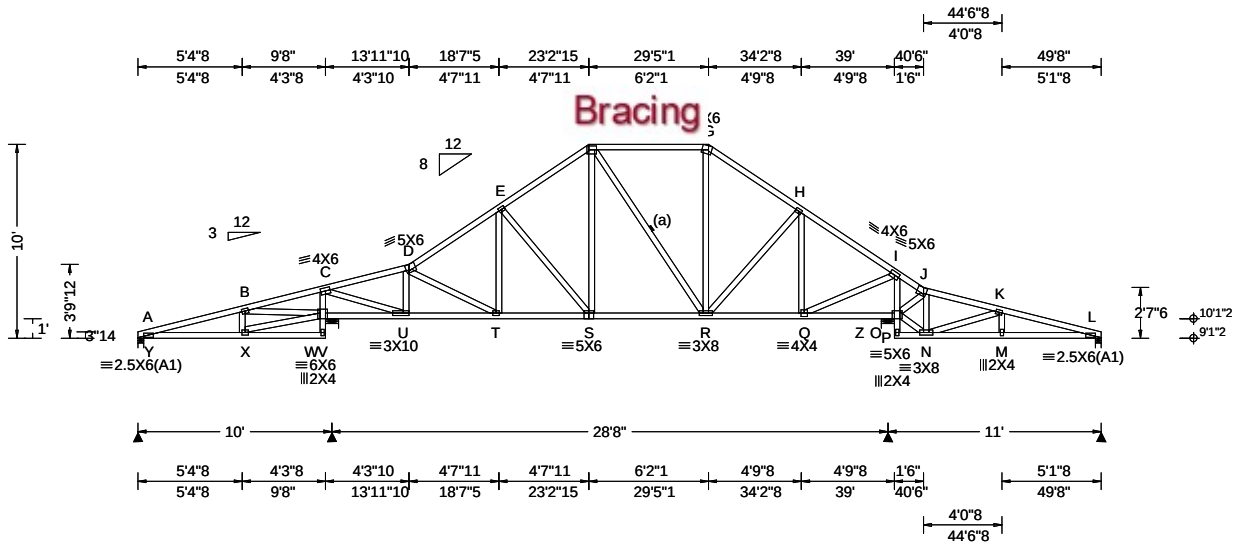
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810102 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** H07	Cust: R 215 JRef:1Y9L2150011 T15 DrwNo: 121.25.1355.19293 AK / WHK 05/01/2025



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.090 T 999 240
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.123 T 999 180
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.021 Q - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.028 Q - -
NCBCLL:	10.00	Mean Height: 15.28 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.447
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.392
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.826
		C&C Dist a: 4.97 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 24.02.00D.0114.10
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Y	318	/-	/-	/162	/53	/299
V	1726	/-	/-	/1050	/16	/-
Z	1789	/-	/-	/1052	/9	/-
L	336	/-	/-	/177	/26	/-

Wind reactions based on MWFRS
Y Brg Wid = 3.5 Min Req = 1.5 (Truss)
V Brg Wid = 8.0 Min Req = 2.0 (Truss)
Z Brg Wid = 8.0 Min Req = 2.1 (Truss)
L Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Y, V, Z, & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	189	-512	F - G	319	-851
B - C	757	-145	G - H	327	-1099
C - D	360	-1498	H - I	229	-1014
D - E	376	-1567	I - J	696	-173
E - F	364	-1231	K - L	235	-615

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - X	473	-145	R - Q	794	-14
V - U	205	-656	Q - O	251	-512
U - T	1495	-227	N - M	565	-182
T - S	1232	-88	M - L	574	-180
S - R	958	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - V	359	-1033	H - Q	146	-462
X - V	509	-159	Q - I	1367	-243
V - C	437	-1520	I - O	430	-1680
C - U	2168	-413	O - J	203	-413
U - D	185	-619	J - N	460	-159
E - S	211	-448	N - K	310	-723
F - S	474	-108			

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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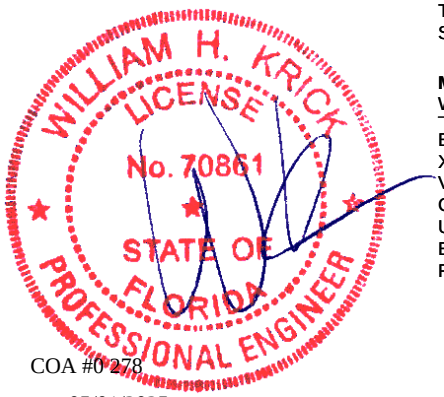
The overall height of this truss excluding overhang is 10-0-0.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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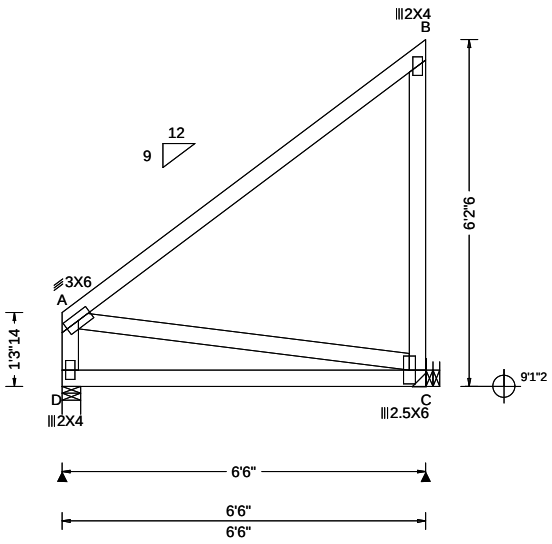
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810149 MONO FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** J01	Cust: R 215 JRef:1Y9L2150011 T49 DrwNo: 121.25.1349.57747 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	B	999	240
VERT(CL): 0.002	B	999	180
HORZ(LL): 0.002	B	-	-
HORZ(TL): 0.004	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.906
Max BC CSI: 0.491
Max Web CSI: 0.335

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	276	/-	/-	/156	/-	/125
C	276	/-	/-	/245	/78	/-

Wind reactions based on MWFRS
D Brg Wid = 4.0 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
D - C	160	-434

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	439	-161

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

Additional Notes
The overall height of this truss excluding overhang is 6-2-6.

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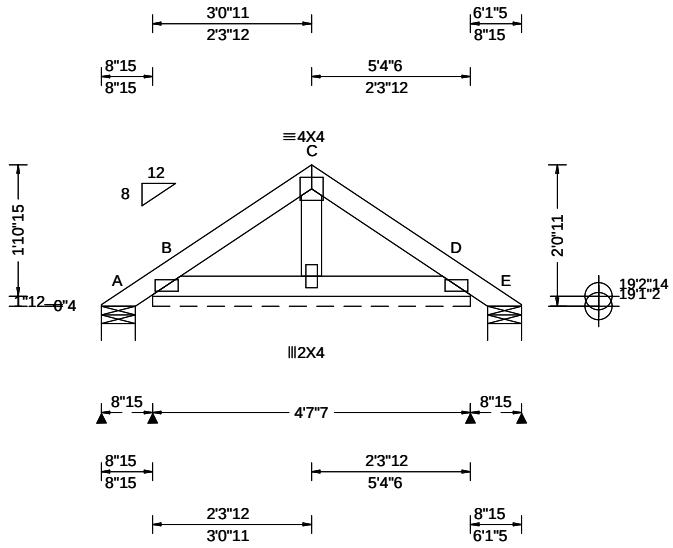
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810104 COMN FROM: CDM	Ply: 1 Qty: 14	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** PB01	Cust: R 215 JRef:1Y9L2150011 T5 DrwNo: 121.25.1350.00907 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.28 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

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

Creep Factor: 2.0
Max TC CSI: 0.052
Max BC CSI: 0.038
Max Web CSI: 0.012

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	2	/0	/-	/41	/36	/57
B*	103	/-	/-	/63	/3	/-
E	2	/0	/-	/8	/4	/-

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5 (Truss)
B Brg Wid = 55.5 Min Req = -
E Brg Wid = 5.9 Min Req = 1.5 (Truss)
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

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

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160220723 for piggyback details.

The overall height of this truss excluding overhang is 2-0-11.

COA #0278

05/01/2025

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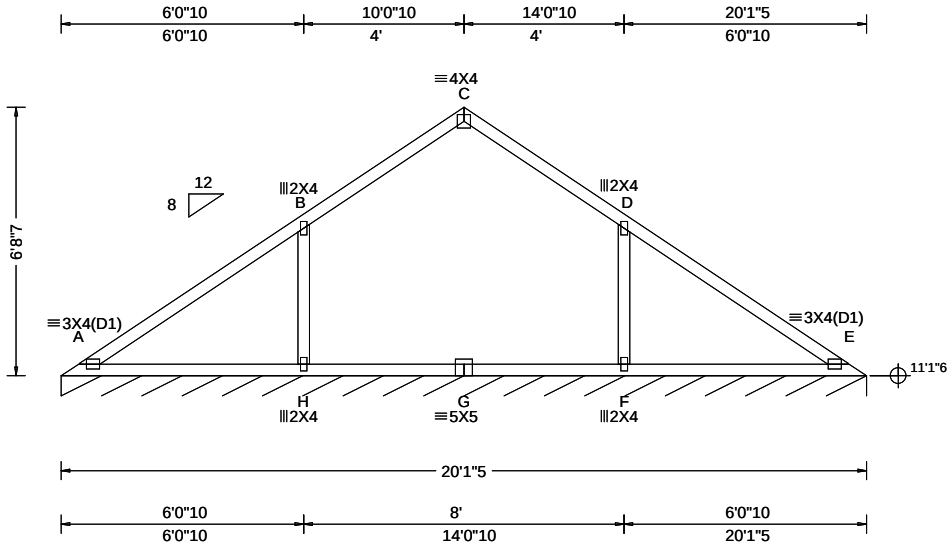
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810249 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** V01		Cust: R 215 JRef:1Y9L2150011 T53 DrwNo: 121.25.1350.02973 AK / WHK 05/01/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.023	A	999	240
VERT(CL): 0.048	A	999	180
HORZ(LL): -0.008	B	-	-
HORZ(TL): 0.016	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.472
Max BC CSI: 0.342
Max Web CSI: 0.116

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	84	/-	/-	/44	/12	/9

Wind reactions based on MWFRS
E Brg Wid = 241 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

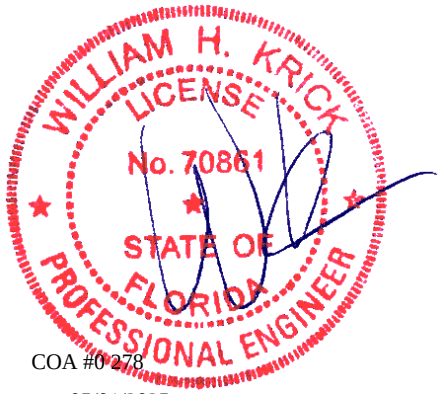
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.

The overall height of this truss excluding overhang is 6-8-7.



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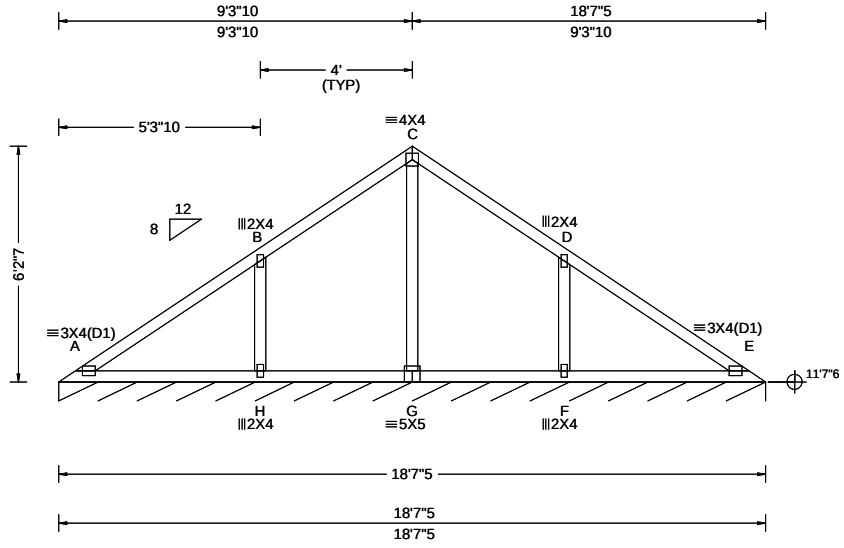
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810183 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** V02	Cust: R 215 JRef:1Y9L2150011 T45 DrwNo: 121.25.1350.07423 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.012 A	999	240
VERT(CL):	0.026 A	999	180
HORZ(LL):	0.005 A	-	-
HORZ(TL):	0.011 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.405
Max BC CSI: 0.222
Max Web CSI: 0.234

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	84	/-	/-	/44	/12	/9

Wind reactions based on MWFRS
E Brg Wid = 223 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

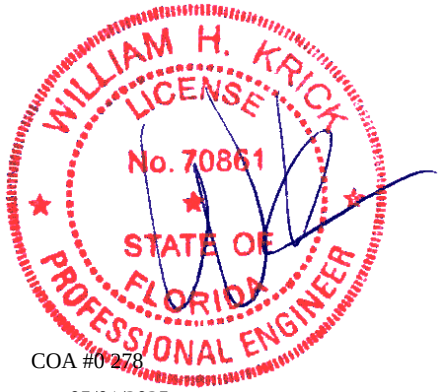
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.

The overall height of this truss excluding overhang is 6-2-7.



COA #0278
05/01/2025
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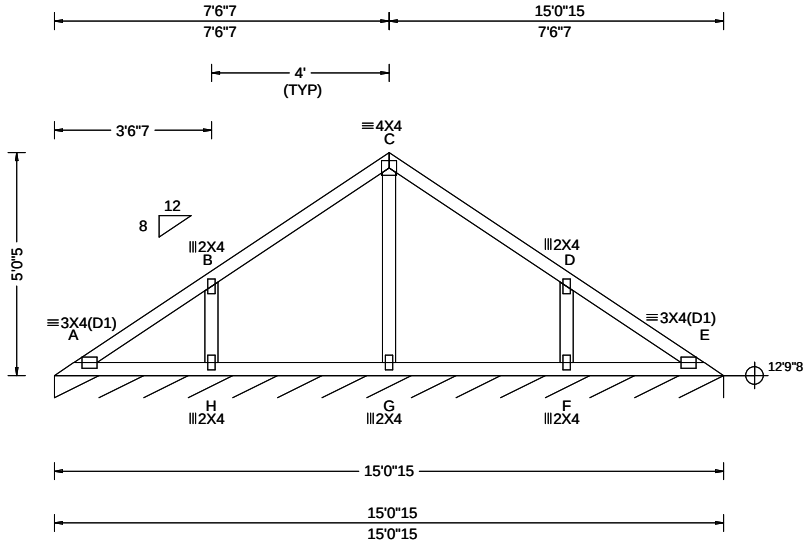
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810185 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** V03	Cust: R 215 JRef:1Y9L2150011 t55 DrwNo: 121.25.1420.08337 / WHK 05/01/2025	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.46 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	A	999	240
VERT(CL): 0.006	A	999	180
HORZ(LL): -0.001	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.264
Max BC CSI: 0.122
Max Web CSI: 0.102

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	84	/-	/-	/44	/12	/9

Wind reactions based on MWFRS
E Brg Wid = 180 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

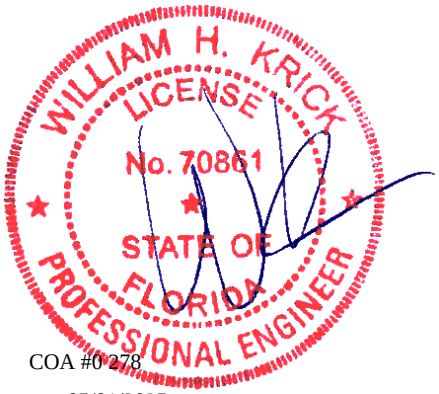
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.

The overall height of this truss excluding overhang is 5-0-5.



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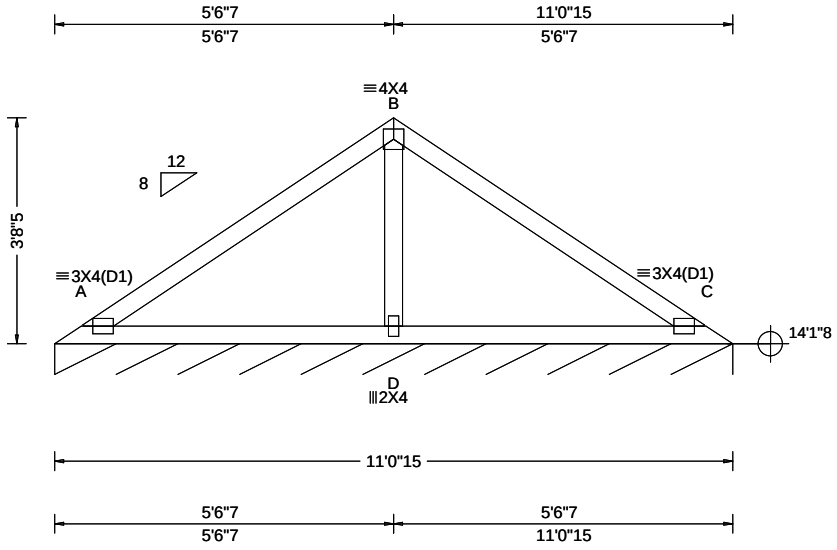
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810187 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** V04	Cust: R 215 JRef:1Y9L2150011 T56 DrwNo: 121.25.1350.21840 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.12 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.017	A	999	240
VERT(CL): 0.035	A	999	180
HORZ(LL): -0.008	C	-	-
HORZ(TL): 0.017	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.437
Max BC CSI: 0.358
Max Web CSI: 0.178

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
C*	84	/-	/-	/43	/12	/8

Wind reactions based on MWFRS
C Brg Wid = 132 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	431	-294	B - C	431	-300

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - D	538	-671

Lumber

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

Wind

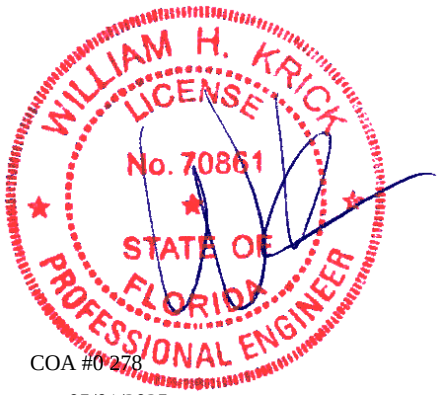
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.

The overall height of this truss excluding overhang is 3-8-5.



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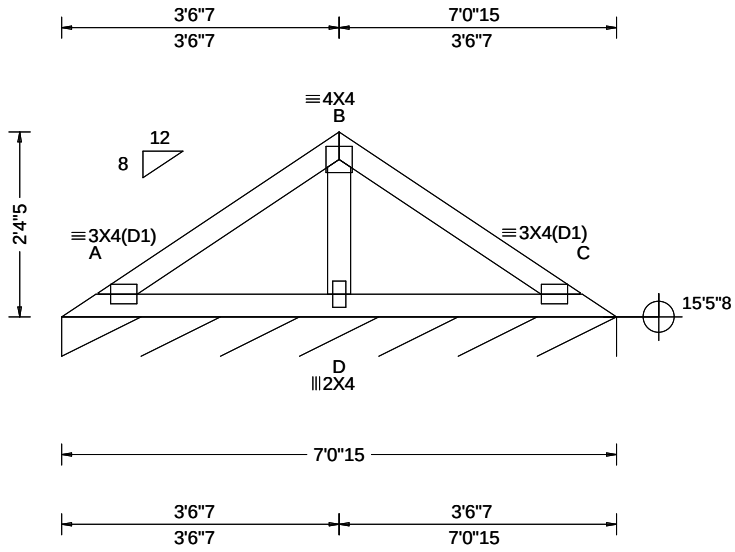
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810189 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** V05	Cust: R 215 JRef:1Y9L2150011 T57 DrwNo: 121.25.1350.23490 AK / WHK 05/01/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.79 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	C	999	240
VERT(CL): 0.009	C	999	180
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.005	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.153
Max BC CSI: 0.131
Max Web CSI: 0.081

VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/42	/11	/8

Wind reactions based on MWFRS
C Brg Wid = 84.9 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

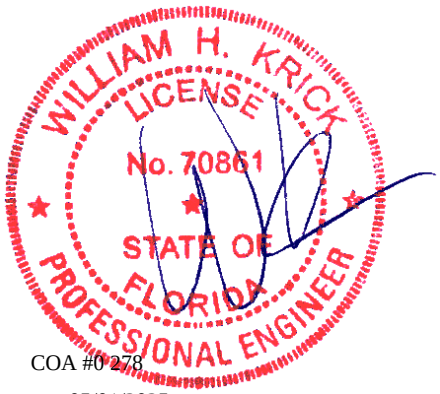
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.

The overall height of this truss excluding overhang is 2-4-5.



COA #0278
05/01/2025
Florida Certificate of Product Approval #FL 1999

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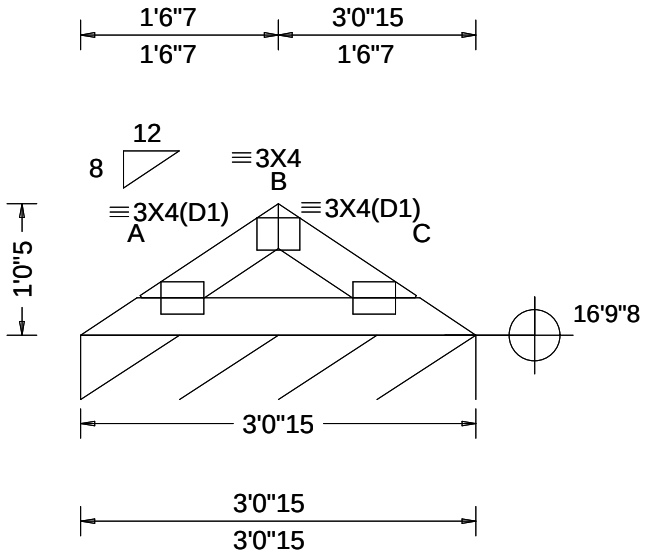
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 810191 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 25-2571 RAPHAEL RESIDENCE **Truss Label:** V06		Cust: R 215 JRef:1Y9L2150011 T58 DrwNo: 121.25.1350.25963 AK / WHK 05/01/2025	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.46 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 A 999 240 VERT(CL): 0.003 A 999 180 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.043 Max BC CSI: 0.061 Max Web CSI: 0.000 VIEW Ver: 24.02.00D.0114.10

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	83	/-	/-	/38	/6	/6

Wind reactions based on MWFRS
C Brg Wid = 36.9 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.

The overall height of this truss excluding overhang is 1-0-5.

COA #0 278

05/01/2025

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CLR Reinforcing Member Substitution

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

Notes:

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

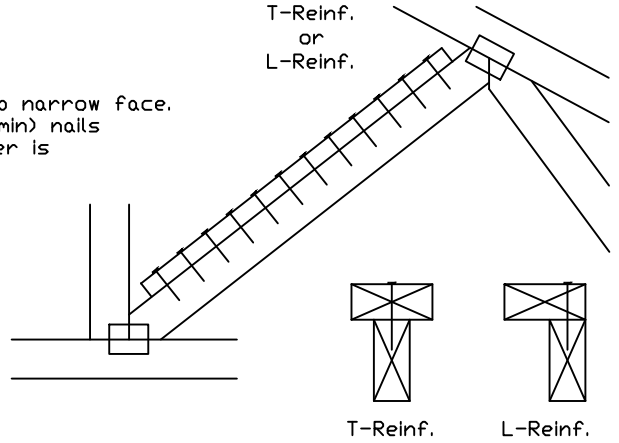
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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.

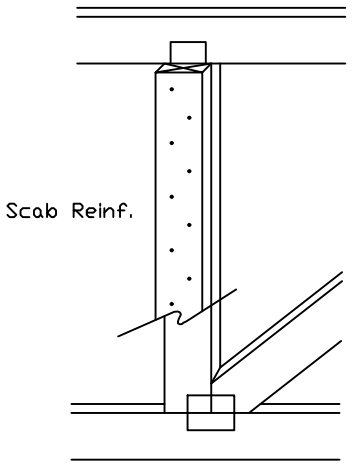
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



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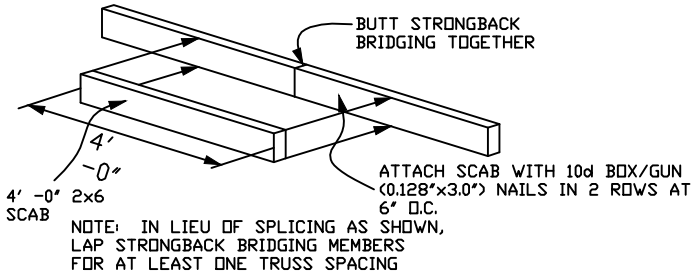
WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

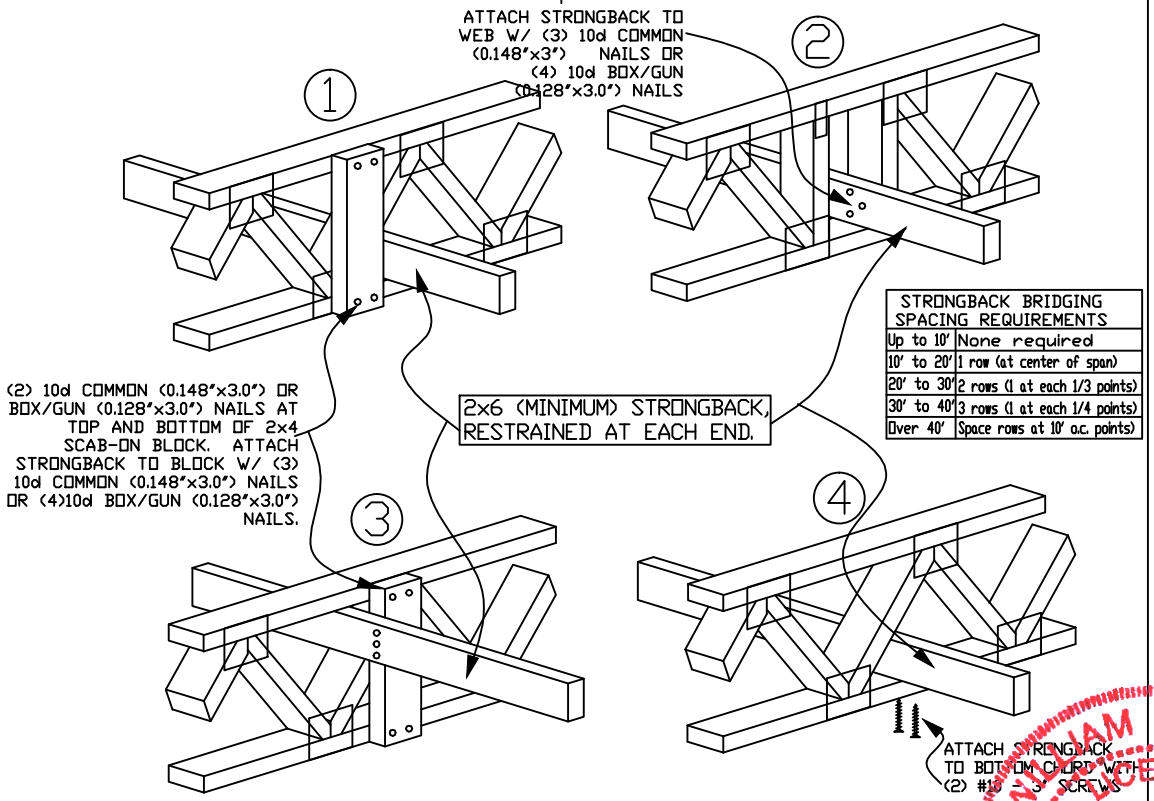
05/01/2025
COA #0 278
Florida Certificate of Product Approval #FL 1999

STRONGBACK BRIDGING RECOMMENDATIONS



STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

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

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

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

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
05/01/2025		
DUR. FAC.	1.00	
SPACING		

COA #0 278
Florida Certificate of Product Approval #FL 1999

Piggyback Detail - ASCE 7-22: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

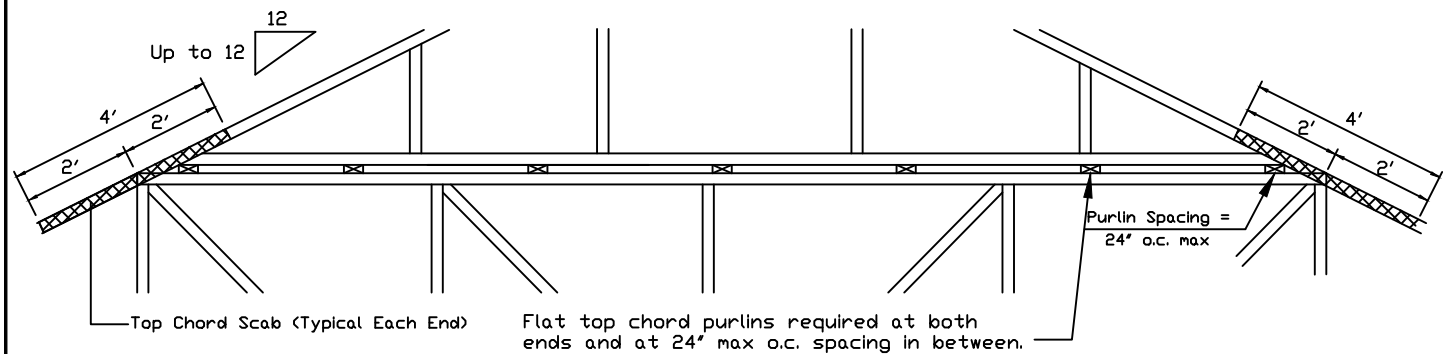
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-22, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-22, Enclosed Bldg. located anywhere in roof, Exp D, Wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

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



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

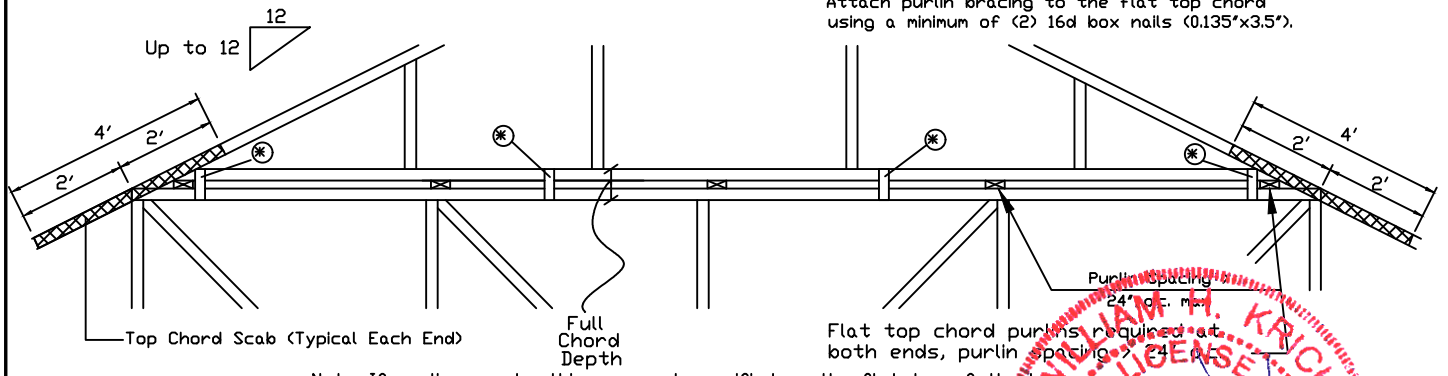
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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

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

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

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



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

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

Trulox
Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

APA Rated Gusset
8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs
2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

28PB Wave Piggyback Plate
One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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WILLIAM H. KRICK
LICENSE
No. 70861
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REF	PIGGYBACK
DATE	07/03/2023
DRWG	PB160220723
SPACING	24.0

05/01/2025

COA #0 278
Florida Certificate of Product Approval #FL 1999

Valley Detail - ASCE 7-22: 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 7-22 180 mph. 30' Mean Height, Part. Enc. Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
Or
ASCE 7-22 160 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.

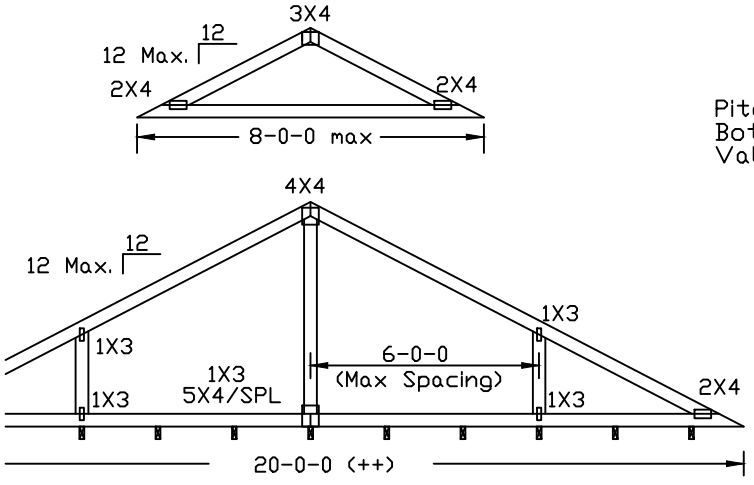
All plates shown are Alpine Wave Plates.

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.

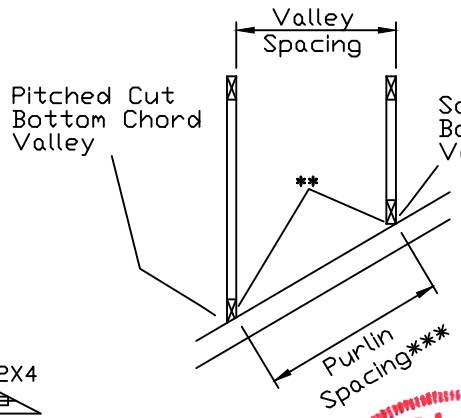
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed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

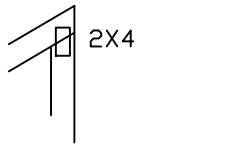
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

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



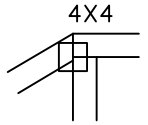
Supporting trusses at 24" o.c. maximum spacing.



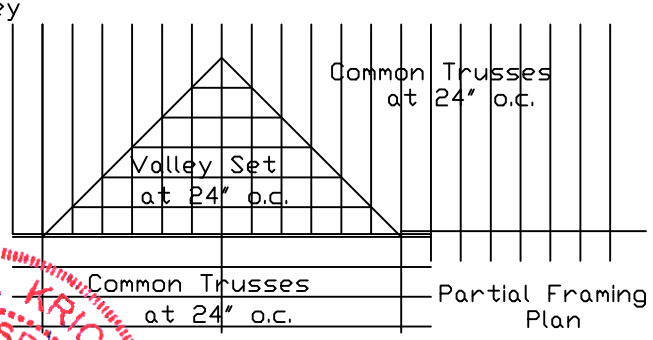


Square Cut Bottom Chord Valley

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

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

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

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

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

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

WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

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
DURATION	1.33	1.15	1.15	
SPACING	24.0"			

REF	VALLEY DETAIL
DATE	07/03/2023
DRWG	VAL180220723

05.01.2025

COA #0 278
Florida Certificate of Product Approval #FL 1999

Valley Detail - ASCE 7-22: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

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

** Attach each valley to every supporting truss with:
(2) 16d box (0.135" x 3.5") nails toe-nailed for ASCE 7-22, 30' Mean Height, Enclosed Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on supporting truss material at connection location:
140 mph for SP (G = 0.55, min.),
125 mph for DF-L (G = 0.50, min.), or
105 mph for HF & SPF (G = 0.42, min.).

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

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

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

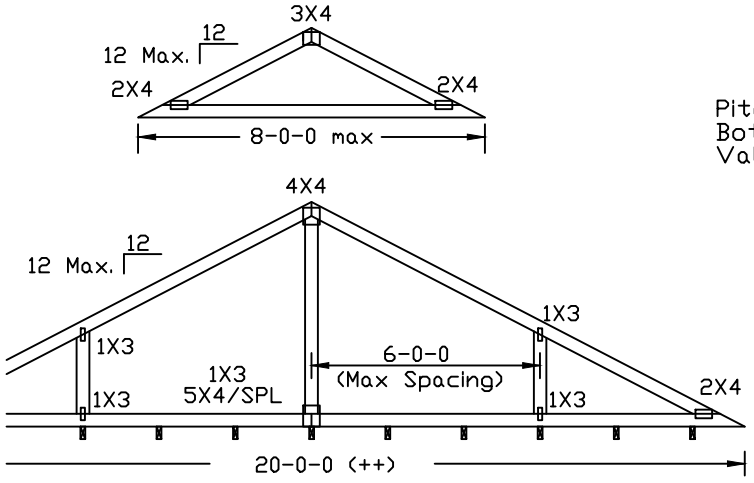
All plates shown are Alpine Wave Plates.

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

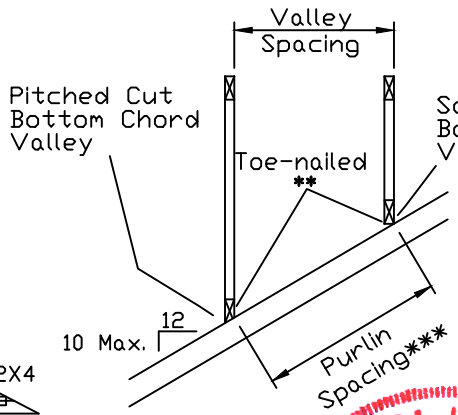
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed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

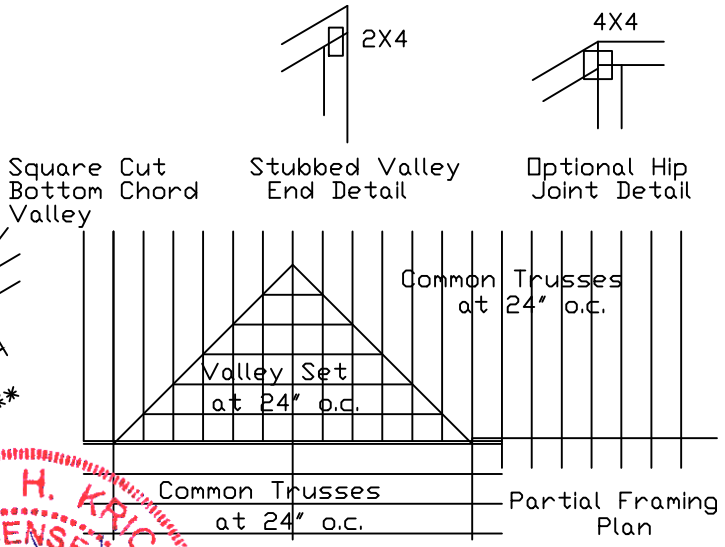
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

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



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





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BC LL	0	0	0	PSF
TOT. LD.	60	55	57	PSF
DURATION	1.33	1.15	1.15	
SPACING	24.0			

REF	VALLEY DETAIL
DATE	07/03/2023
DRWG	VALTN220723