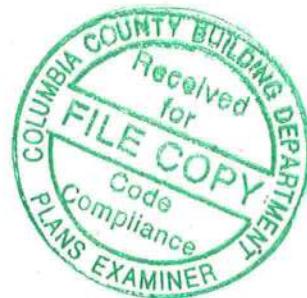


Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com



Site Information:	Page 1:
Customer: Seminole Trusses, Inc.	Job Number: B50573-R
Job Description: - Knoper Roof Trademark Const Group	
Address: NW Scenic Lake Dr., LAKE CITY, FL	

Job Engineering Criteria:			
Design Code: FBC 2017 RES		IntelliVIEW Version: 17.02.02A	
		JRef #: 1WWR8570002	
Wind Standard: ASCE 7-10	Wind Speed (mph): 130	Roof Load (psf): 20.00-10.00- 0.00-10.00	
Building Type: Closed		Floor Load (psf): None	

This package contains general notes pages, 30 truss drawing(s) and 10 detail(s).

Item	Drawing Number	Truss
1	189.20.1601.00697	A01
3	189.20.1603.40100	A03
5	189.20.1604.23780	A04A
7	189.20.1605.40677	A06A
9	189.20.1602.07473	B02
11	189.20.1602.26027	B04
13	189.20.1602.31697	B06
15	189.20.1602.34563	B08
17	189.20.1602.49847	B10
19	189.20.1602.53003	B12
21	189.20.1602.56290	C02
23	189.20.1603.06727	D02
25	189.20.1605.57307	GR1
27	189.20.1603.17203	M02
29	189.20.1603.23360	M04
31	PB160160118	
33	REPCHRD1014	
35	GBLLETIN0118	
37	DEFLCAMB1014	
39	CNNAILSP1014	

Item	Drawing Number	Truss
2	189.20.1601.20183	A02
4	189.20.1601.40940	A04
6	189.20.1601.49080	A06
8	189.20.1602.04917	B01
10	189.20.1602.22757	B03
12	189.20.1602.30320	B05
14	189.20.1602.33120	B07
16	189.20.1602.45490	B09
18	189.20.1602.51537	B11
20	189.20.1602.54850	C01
22	189.20.1603.03270	D01
24	189.20.1604.09073	FG1
26	189.20.1603.15487	M01
28	189.20.1603.21910	M03
30	189.20.1603.25527	PB01
32	PB180160118	
34	A14030ENC101014	
36	A14015ENC101014	
38	BRCLBSUB0119	
40	PB160101014	

General Notes

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

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

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

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

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

Temporary Lateral Restraint and Bracing:

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

Permanent Lateral Restraint and Bracing:

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

Connector Plate Information:

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

Fire Retardant Treated Lumber:

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

General Notes (continued)

Key to Terms:

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

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

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

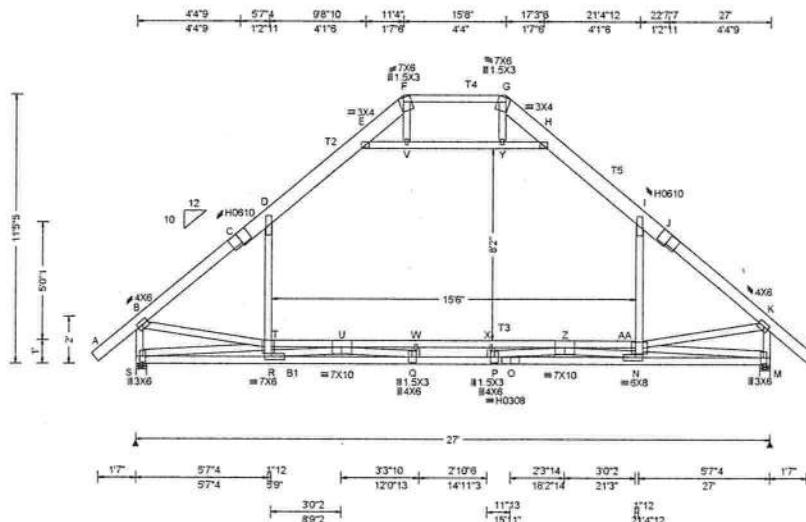
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpininst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.com.

SEQN: 16556	ATIC	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T25
FROM: JL		Qty: 7	- Knoper Roof Trademark Const Group	DrwNo: 189.20.1601.00697
			Truss Label: A01	SSB / DF 07/07/2020



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
TCLL:	20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity					
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.558 G 580 240	S	2200	/ -	/ -	/ 743	/ 76 / 284
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 1.004 G 322 180	M	2200	/ -	/ -	/ 743	/ 76 / -
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.252 D - -	Wind reactions based on MWFRS					
Des Ld:	40.00	EXP: B Kzt: NA	Building Code: FBC 2017 RES	HORZ(CL): 0.511 D - -	S	Brg Width = 5.5	Min Req = 2.2			
NCBCLL:	10.00	Mean Height: 15.94 ft	TPI Std: 2014	HORZ(TL): 2.0	M	Brg Width = 5.5	Min Req = 2.6			
Soffit:	2.00	TCDL: 4.2 psf	Rep Fac: Yes	Creep Factor: 2.0	Bearings S & M are a rigid surface.					
Load Duration:	1.25	BCDL: 5.0 psf	FT/RT: 10(0)/4(0)	Max TC CSI: 0.946	Members not listed have forces less than 375#					
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Plate Type(s):	Max BC CSI: 0.857	Maximum Top Chord Forces Per Ply (lbs)					
		C&C Dist a: 3.00 ft	WAVE, HS	Max Web CSI: 0.959	Chords	Tens. Comp.	Chords	Tens. Comp.		
		Loc. from endwall: Any		VIEW Ver: 17.02.02A.1213.20						
		GCpi: 0.18			B - C	230 -2323	G - H	376 -48		
		Wind Duration: 1.60			C - D	237 -2139	H - I	306 -1645		

Lumber

Top chord: 2x6 SP #1; T2,T5 2x8 SP SS Dense;
T3 2x4 SP M-30; T4 2x4 SP #1;
Bot chord: 2x4 SP #1; B1 2x4 SP SS Dense;
Web: 2x4 SP #3;

Plating Notes

All plates are 3X10 except as noted.

Loading

Attic room loading from 5-9-0 to 21-3-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 5 PSF, Kneewalls: 5 PSF

Purlins

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

Wind

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

End verticals exposed to wind pressure. Deflection meets L/180.

Additional Notes

Top Chord overhang(s) may be field trimmed.



07/07/2020

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens. Comp.	Chords	Tens. Comp.
S - R	865 -620	P - O	3687 -87
R - Q	3739 -240	O - N	3687 -87
Q - P	5216 -35	N - M	774 -429

Maximum Web Forces Per Ply (lbs)

Webs	Tens. Comp.	Webs	Tens. Comp.
B - S	296 -2136	W - X	21 -3661
B - T	1568 -15	X - P	58 -377
S - T	403 -802	X - Z	22 -3596
D - T	922 -34	P - Z	1943 -195
T - R	1050 -16	Y - G	390 -45
T - U	1815 -509	Y - H	376 -2425
R - U	218 -3569	Z - N	231 -3577
U - Q	1913 -188	Z - AA	1824 -604
U - W	21 -3596	N - AA	1046 -18
E - V	376 -2425	AA - I	923 -41
F - V	393 -46	AA - K	1567 -22
V - Y	370 -2380	AA - M	436 -736
Q - W	55 -379	K - M	298 -2138

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

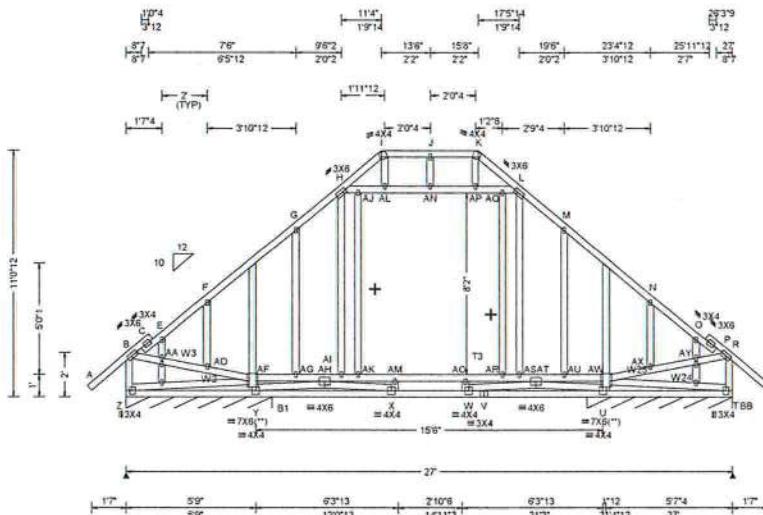
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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Alpine, a division of ITW Building Components Group Inc, shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinsl.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16766	ATIC	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWWR8570002 T18
FROM: JL		Qty: 1	- Knoper Roof Trademark Const Group	DrvNo: 189.20.1601.20183
			Truss Label: A02	SSB / DF 07/07/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Z*	389	/-	/	109	/17	/5
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.139 I 999 240	BB*388	/-	/	/	109	/17	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.251 I 740 180							
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.052 F - -							
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.094 F - -							
NCBCLL: 10.00	Mean Height: 15.94 ft		Building Code:							
Soffit: 2.00	TCDL: 4.2 psf		FBC 2017 RES							
Load Duration: 1.25	BCDL: 5.0 psf		TPI Std: 2014							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Rep Fac: Varies by Ld Case							
	C&C Dist a: 3.00 ft		FT/RT: 10(0)/4(0)							
	Loc. from endwall: Any		Plate Type(s):							
	GCpi: 0.18		WAVE							
	Wind Duration: 1.60		VIEW Ver: 17.02.02A.1213.20							

Lumber

Top chord: 2x4 SP #1; T3 2x4 SP M-30;
Bot chord: 2x4 SP #1; B1 2x4 SP SS Dense;
Webs: 2x4 SP #3; W2,W3,W24,W25 2x4 SP #1;

+ Member to be laterally braced for out of plane wind loads

Plating Notes

All plates are 1.5X3 except as noted.

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

Loading

Attic room loading from 5-9-0 to 21-3-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 5 PSF, Kneewalls: 5 PSF

Purlins

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

Wind

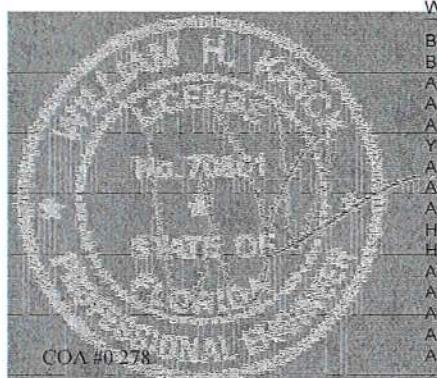
Wind loads based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/180.

Additional Notes

Top Chord overhang(s) may be field trimmed.

Laterally brace chord above/ below filler at 24" OC (or as designed) including a lateral brace on chord directly below both ends of filler (if no rigid diaphragm exists at that point)



07/07/2020

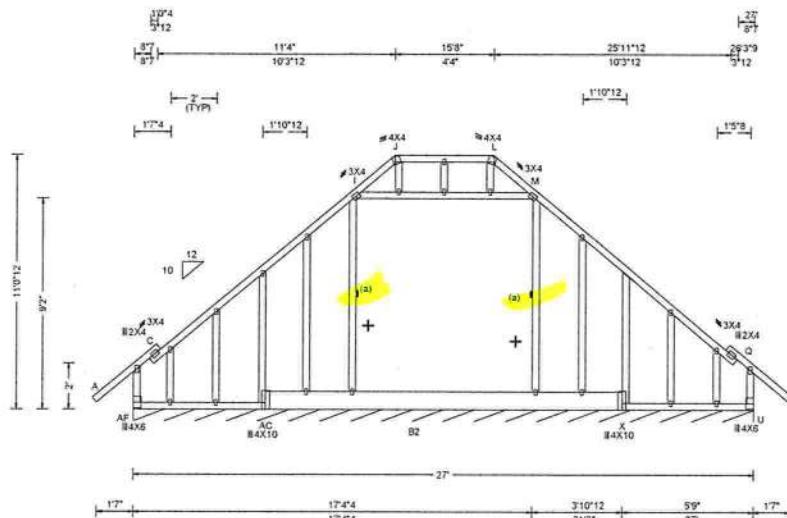
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page, listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16777	GABL	Ply: 1	Job Number: B50573-R - Knoper Roof Trademark Const Group Truss Label: A03	Cust: R 857 JRef: 1WWR8570002 T1 DrwNo: 189.20.1603.40100 SSB / DF 07/07/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Loc	R+	/R-	Gravity	/Rh	/Rw	Non-Gravity
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	U*	95	/-	/-	/51	/4	/11
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.012 K 999 240							
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.024 K 999 180							
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.212 L - -							
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.322 L - -							
NCBCLL: 10.00	Mean Height: 15.79 ft	Building Code:	Creep Factor: 2.0							
Soffit: 2.00	TCDL: 4.2 psf	FBC 2017 RES	Max TC CSI: 0.194							
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.174							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.472							
	C&C Dist a: 3.00 ft	FT/RT: 10(0)/4(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18	WAVE								
	Wind Duration: 1.60			VIEW Ver: 17.02.02A.1213.20						

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1; B2 2x10 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 1.5X3 except as noted.

Wind

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

End verticals exposed to wind pressure. Deflection meets L/180.

Additional Notes

See DWGS A14030ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

Top Chord overhang(s) may be field trimmed.

+ Member to be laterally braced for out of plane wind loads



07/07/2020

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

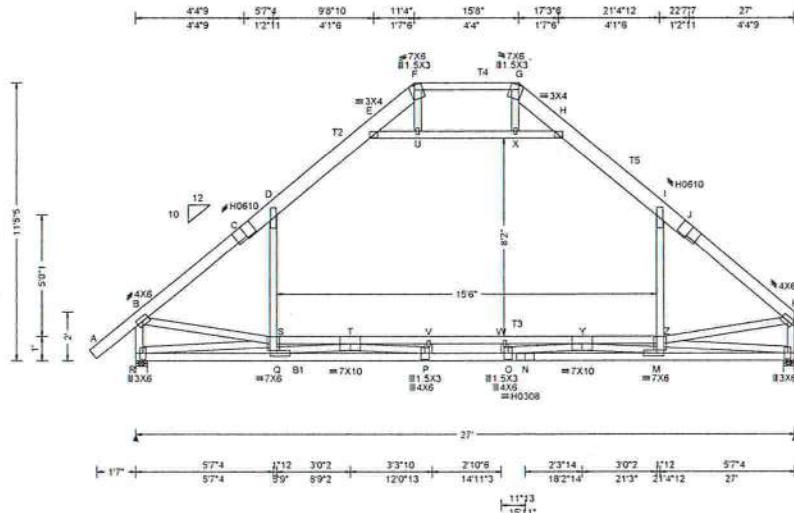
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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16851	ATIC	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T27
FROM: JL	Qty: 6		- Knoper Roof Trademark Const Group Truss Label: A04	DrwNo: 189.20.1601.40940 SSB / DF 07/07/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	R	2200	/-	/	745	75	/263
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.558 G 580 240	L	2072	/-	/	650	57	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 1.004 G 322 180							
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.252 D - -							
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.510 D - -							
NCBCLL: 10.00	Mean Height: 15.94 ft									
Soffit: 2.00	TCDL: 4.2 psf									
Load Duration: 1.25	BCDL: 5.0 psf									
Spacing: 24.0 "	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									

Lumber

Top chord: 2x6 SP #1; T2,T5 2x8 SP SS Dense;
T3 2x4 SP M-30; T4 2x4 SP #1;
Bot chord: 2x4 SP #1; B1 2x4 SP SS Dense;
Webs: 2x4 SP #3;

Plating Notes

All plates are 3X10 except as noted.

Loading

Attic room loading from 5-9-0 to 21-3-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 5 PSF, Kneewalls: 5 PSF

Purlins

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 exposed to wind pressure. Deflection meets L/180.

Additional Notes

Top Chord overhang(s) may be field trimmed.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

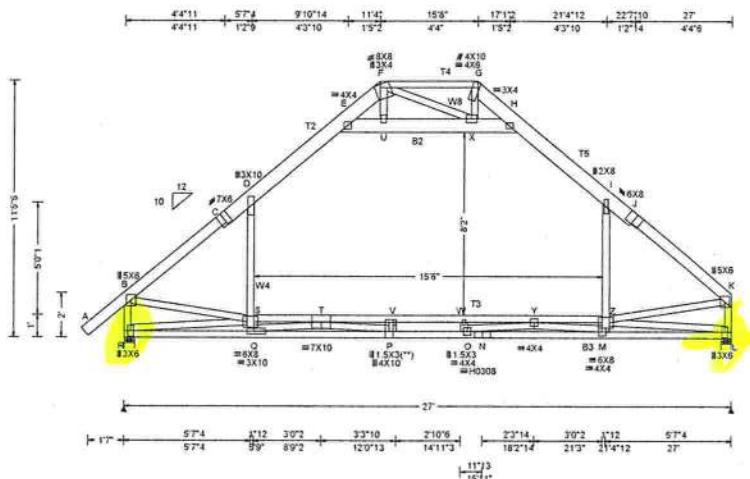
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SEQN: 16834	ATIC	Ply: 4	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T14
FROM: JL		Qty: 1	- Knoper Roof Trademark Const Group Truss Label: A04A	DrwNo: 189.20.1604.23780 SSB / DF 07/07/2020

4 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)			
				Loc	R+	/ R-	Gravity Non-Gravity
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	R	7898	/-	/745 /1542 /263
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.475 G 681 240	L	8944	/-	/650 /1636 /-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.782 G 414 180				
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.260 I - -				
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(CL): 0.428 I - -				
NCBCLL: 10.00	Mean Height: 15.94 ft	Building Code:	Creep Factor: 2.0				
Soffit: 2.00	TCDL: 4.2 psf	FBC 2017 RES	Max TC CSI: 0.801				
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.891				
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.981				
	C&C Dist a: 3.00 ft	FT/RT: 10(0)/4(0)					
	Loc. from endwall: Any	Plate Type(s):					
	GCpi: 0.18	WAVE, HS					
	Wind Duration: 1.60		VIEW Ver: 17.02.02A.1213.20				

Lumber

Top chord: 2x6 SP #1; T2,T5 2x8 SP SS Dense;
T3 2x4 SP M-30; T4 2x4 SP #1;
Bot chord: 2x4 SP SS Dense; B2 2x8 SP SS Dense;
B3 2x4 SP M-30;
Webs: 2x4 SP #3; W4,W8 2x4 SP #1;

Nailnote

Nail Schedule: 0.128"x3", min. nails

Top Chord: 1 Row @ 9.00" o.c.

Bot Chord: 1 Row @ 2.75" o.c.

Webs : 1 Row @ 4" o.c.

Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

In addition, apply (1) 0.22"-0.25" min/max dia. X 6.0" length wood screw at each joint location.

Special Loads

—(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 66 plf at -1.88 to 66 plf at 27.00
TC: From 13 plf at 5.75 to 13 plf at 9.54
TC: From 13 plf at 17.46 to 13 plf at 21.25
PLT: From 10 plf at 10.22 to 10 plf at 16.78
PLT: From 100 plf at 5.75 to 100 plf at 21.25
BC: From 5 plf at -1.88 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 27.00
BC: From 256 plf at 0.00 to 256 plf at 12.69
BC: From 256 plf at 14.69 to 256 plf at 27.00
BC: 50 lb Conc. Load at 5.75,21.25
BC: 411 lb Conc. Load at 13.69
PLB: 5766 lb Conc. Load at (16.25,19.21) +

Additional Notes

Top Chord overhang(s) may be field trimmed.

Plating Notes

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

Purlins

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

Wind

Wind loads based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/180.

+12-(0.131"x3.0") nails opposite hanger after third ply is attached.



COA #0278

07/07/2020

▲ Maximum Reactions (lbs)

Loc	R+	/ R-	Gravity	Non-Gravity
-----	----	------	---------	-------------

R	7898	/-	/745	/1542 /263
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L	8944	/-	/650	/1636 /-
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Wind reactions based on MWFRS

R Brg Width = 5.5 Min Req = 2.0

L Brg Width = 5.5 Min Req = 2.6

Bearings R & L are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
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B - C	410 - 2288	H - I	291 - 2034
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C - D	400 - 2242	I - J	406 - 2317
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D - E	266 - 1730	J - K	416 - 2363
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G - H	110 - 549		
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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
--------	------------	--------	-------------

R - Q	207 - 655	O - N	3036 - 673
-------	-----------	-------	------------

Q - P	1947 - 591	N - M	3036 - 673
-------	------------	-------	------------

P - O	3983 - 997	M - L	1443 - 165
-------	------------	-------	------------

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
------	------------	------	-------------

B - R	347 - 1901	V - W	703 - 2263
-------	------------	-------	------------

B - S	1655 - 278	W - Y	698 - 2269
-------	------------	-------	------------

R - S	688 - 198	O - Y	981 - 328
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D - S	862 - 223	X - G	483 - 83
-------	-----------	-------	----------

S - Q	1138 - 266	X - H	456 - 1571
-------	------------	-------	------------

S - T	2426 - 284	Y - M	496 - 1472
-------	------------	-------	------------

Q - T	596 - 2710	Y - Z	420 - 147
-------	------------	-------	-----------

T - P	2061 - 409	M - Z	835 - 240
-------	------------	-------	-----------

T - V	695 - 2226	Z - I	444 - 188
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E - U	528 - 2471	Z - K	1687 - 280
-------	------------	-------	------------

E - U	483 - 82	Z - L	158 - 1403
-------	----------	-------	------------

F - X	1096 - 92	K - L	352 - 1935
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U - X	515 - 2395		
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It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.

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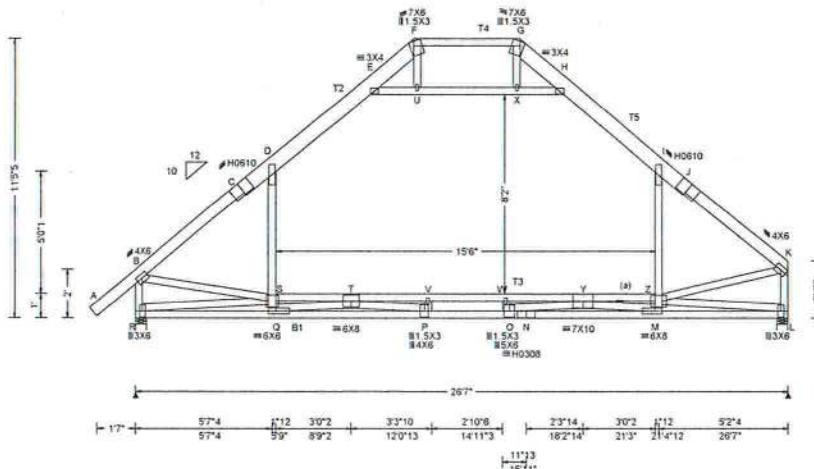
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SEQN: 16564	ATIC	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T30
FROM: JL		Qty: 5	- Knoper Roof Trademark Const Group	DrvNo: 189.20.1601.49080
			Truss Label: A06	SSB / DF 07/07/2020

44'9" + 57'4" 9'8"10" 11'4" 15'8" 17'3" 21'4"12" 22'7"7" 26'7"



17' + 57'4" 11'12" 30'2" + 33'10" 21'0"8" + 23'14" 30'2" 11'12" 52'4" 26'7"

Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)					
TCLL:	20.00	Wind Std:	ASCE 7-10	Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity					
TCDL:	10.00	Speed: 130 mph		Pf: NA	Ct: NA	Ce: NA	VERT(LL): 0.539 F 592 240	Loc R+ / R- / Rh / Rw / U / RL					
BCLL:	0.00	Enclosure: Closed		Lu: NA	Cs: NA	Snow Duration: NA	VERT(CL): 0.975 F 327 180	R 2167 /- /- /735 /74 /263					
BCDL:	10.00	Risk Category: II		L 2069 /- /- /635 /57 /-						Wind reactions based on MWFRS			
Des Ld:	40.00	EXP: B Kzt: NA		Building Code: Creep Factor: 2.0						R Brg Width = 5.5 Min Req = 2.2			
NCBLL:	10.00	Mean Height: 15.94 ft		FBC 2017 RES Max TC CSI: 0.930						L Brg Width = 5.5 Min Req = 2.4			
Soffit:	2.00	TCDL: 4.2 psf		TPI Std: 2014 Max BC CSI: 0.856						Bearings R & L are a rigid surface.			
Load Duration: 1.25		BCDL: 5.0 psf		Rep Fac: Yes Max Web CSI: 0.998						Members not listed have forces less than 375#			
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		FT/RT: 10(0)/4(0) Plate Type(s): WAVE, HS						Maximum Top Chord Forces Per Ply (lbs)			
		C&C Dist a: 3.00 ft		VIEW Ver: 17.02.02A.1213.20						Chords Tens.Comp. Chords Tens. Comp.			
		Loc. from endwall: Any								B - C 224 -2251 H - I 304 -1603			
		GCpi: 0.18								C - D 231 -2068 I - J 224 -2068			
		Wind Duration: 1.60								D - E 302 -1597 J - K 217 -2234			
Lumber							P - G 735 0						

Top chord: 2x6 SP #1; T2,T5 2x8 SP SS Dense;
T3 2x4 SP M-30; T4 2x4 SP #1;
Bot chord: 2x4 SP #1; B1 2x4 SP SS Dense;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes

All plates are 3X10 except as noted.

Loading

Attic room loading from 5-9-0 to 21-3-0: Live Load: 40 PSF, Dead Load: 10 PSF Ceiling: 5 PSF, Kneewalls: 5 PSF

Purlins

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 exposed to wind pressure. Deflection meets L/180.

Additional Notes

Top Chord overhang(s) may be field trimmed.



07/07/2020

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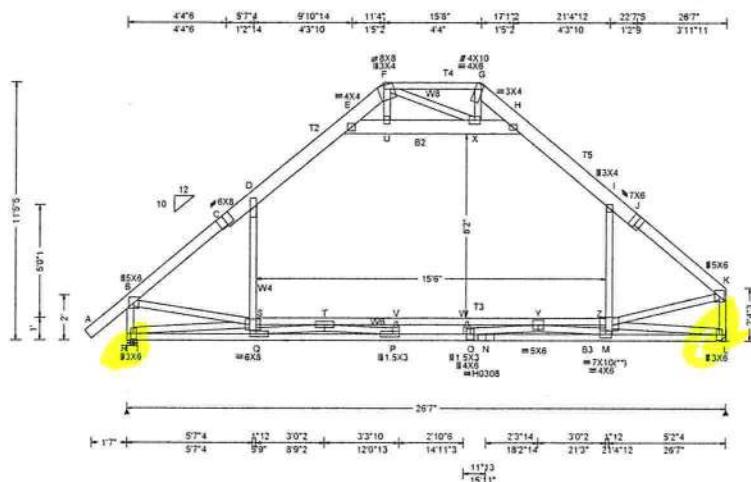
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SEQN: 16832	ATIC	Ply: 4	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T33
FROM: JL		Qty: 1	- Knoper Roof Trademark Const Group	DrwNo: 189.20.1605.40677
Page 1 of 2			Truss Label: A06A	SSB / DF 07/07/2020

4 Complete Trusses Required



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)					
TCLL:	20.00	Wind Std:	ASCE 7-10	Pg: NA	Ct: NA	CAT: NA	PP Deflection in	loc L/defl	L/#	Gravity			
TCDL:	10.00	Speed:	130 mph	Pf: NA	Ce: NA		VERT(LL):	0.473 G	674 240	R	7997	/-	/
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA	Snow Duration: NA	VERT(CL):	0.774 G	412 180	L	9194	/-	/
BCDL:	10.00	Risk Category:	II				HORZ(LL):	-0.225 I	- -				
Des Ld:	40.00	EXP: B	Kzt: NA				HORZ(CL):	0.368 I	- -				
NCBCLL:	10.00	Mean Height:	15.94 ft				Building Code:	Creep Factor: 2.0					
		TCDL:	4.2 psf				FBC 2017 RES	Max TC CSI: 0.771					
Soffit:	2.00	BCDL:	5.0 psf				TPI Std: 2014	Max BC CSI: 0.906					
Load Duration:	1.25	MWFRS Parallel Dist:	0 to h/2				Rep Fac: Yes	Max Web CSI: 0.836					
Spacing:	24.0 "	C&C Dist a:	3.00 ft				FT/RT: 10(0)/4(0)						
		Loc. from endwall:	Any				Plate Type(s):						
		GCpi:	0.18				WAVE, HS						
		Wind Duration:	1.60										

Lumber

Top chord: 2x6 SP #1; T2,T5 2x8 SP SS Dense;
T3 2x4 SP M-30; T4 2x4 SP #1;
Bot chord: 2x4 SP SS Dense; B2 2x8 SP SS Dense;
B3 2x4 SP M-30;
Webs: 2x4 SP #3; W4,W6,W8 2x4 SP #1;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 9.00" o.c.
Bot Chord: 1 Row @ 2.75" o.c.
Webs : 1 Row @ 4" o.c.

Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.
In addition, apply (1) 0.22"-0.25" min/max dia. X 6.0" length wood screw at each joint location.

Special Loads

—(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 66 plf at -1.88 to 66 plf at 26.58
TC: From 13 plf at 5.75 to 13 plf at 9.54
TC: From 13 plf at 17.46 to 13 plf at 21.25
PLT: From 10 plf at 10.22 to 10 plf at 16.78
PLT: From 100 plf at 5.75 to 100 plf at 21.25
BC: From 5 plf at -1.88 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 26.58
BC: From 256 plf at 0.00 to 256 plf at 12.69
BC: From 256 plf at 14.69 to 256 plf at 26.58
BC: 50 lb Conc. Load at 5.75,21.25
BC: 903 lb Conc. Load at 13.69
PLB: 5766 lb Conc. Load at (16.25,19.21) +

Hangers / Ties

(J) Hanger Support Required, by others

Plating Notes

All plates are 3X10 except as noted.

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

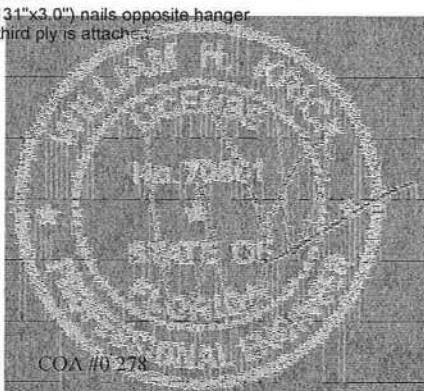
Purlins

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

Wind

Wind loads based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/180.
+12-(0.131"x3.0") nails opposite hanger after third ply is attached.



07/07/2020

▲ Maximum Reactions (lbs)

Loc	R+	/R-	/Rh	/Rw	/U	/RL
R	7997	/-	/-	736	/1517	/259
L	9194	/-	/-	636	/1625	/-

Wind reactions based on MWFRS

R Brg Width = 5.5 Min Req = 2.0

L Brg Width = - Min Req = -

Bearing R 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	396 -2288	H - I	283 -2034
C - D	386 -2242	I - J	391 -2303
D - E	256 -1717	J - K	399 -2344
G - H	101 -561		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
R - Q	247 -499	O - N	3020 -626
Q - P	2227 -603	N - M	3020 -626
P - O	4382 -982	M - L	982 -152

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - R	336 -1909	V - W	700 -2670
B - S	1645 -267	W - Y	694 -2672
R - S	533 -237	O - Y	1403 -360
D - S	880 -215	X - G	491 -80
S - Q	1160 -258	X - H	429 -1554
S - T	2241 -228	Y - M	537 -1976
Q - T	562 -2817	Y - Z	619 -180
T - P	2187 -383	M - Z	937 -246
T - V	693 -2638	Z - I	427 -177
E - U	499 -2432	Z - K	1719 -277
F - U	475 -78	Z - L	158 -959
F - X	1075 -89	K - L	361 -2055
U - X	487 -2358		

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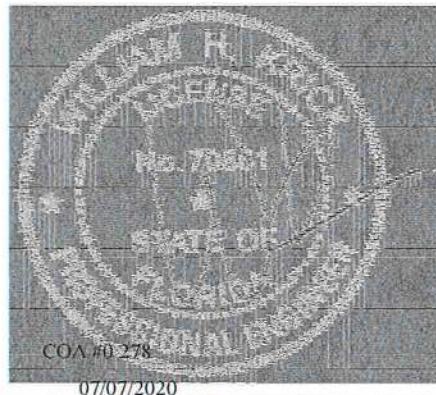
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SEQN: 16832	ATIC	Ply: 4	Job Number: B50573-R	Cust: R 857 JRef:1WWR8570002 T33
FROM: JL		Qty: 1	- Knoper Roof Trademark Const Group	DrwNo: 189.20.1605.40677
Page 2 of 2			Truss Label: A06A	SSB / DF 07/07/2020

Additional Notes

Top Chord overhang(s) may be field trimmed.



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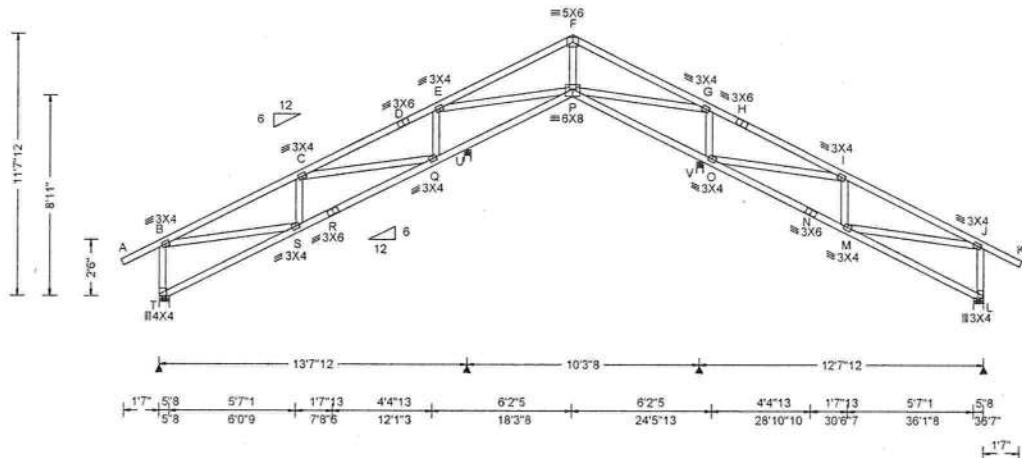
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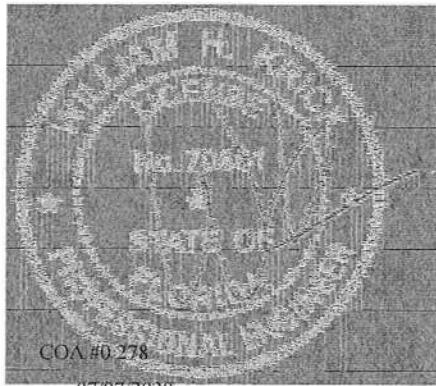
For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16547	COMM	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T17
FROM: JL		Qty: 7	- Knoper Roof Trademark Const Group	DrvNo: 189.20.1602.04917
			Truss Label: B01	SSB / DF 07/07/2020

6'4" 10'9" 12'4" 18'3" 24'2" 25'9" 30'2" 36'7"



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)										
TCLL:	20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity									
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.080 E 999 240	Loc R+ / R- / Rh	/ Rw / U / RL									
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.168 E 967 180	T 818 /- /- /410 /110 /274										
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.078 L - -	U 605 /- /- /425 /5 /-										
Des Ld:	40.00	EXP: B Kz: NA		HORZ(CL): 0.165 L - -	V 1386 /- /- /760 /- /-										
NCBCLL:	10.00	Mean Height: 16.64 ft		Creep Factor: 2.0	L 589 /- /- /418 /110 /-										
TCDL:	4.2 psf	BCDL: 5.0 psf		Max TC CSI: 0.481	Wind reactions based on MWFRS										
Soffit:	2.00	BCCLL: 5.0 psf		Max BC CSI: 0.930	T Brg Width = 5.5	Min Req = 1.5									
Load Duration: 1.25		MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.753	U Brg Width = 3.5	Min Req = 1.5									
Spacing: 24.0 "		C&C Dist a: 3.66 ft			V Brg Width = 3.5	Min Req = 1.5									
		Loc. from endwall: Any			L Brg Width = 5.5	Min Req = 1.5									
		GCpi: 0.18			Bearings T, U, V, & L are a rigid surface.										
		Wind Duration: 1.60			Members not listed have forces less than 37#										
Lumber		Maximum Top Chord Forces Per Ply (lbs)													
Top chord: 2x4 SP #1;		Chords Tens.Comp. Chords Tens. Comp.													
Bot chord: 2x4 SP #1;		B - C 549 -1434 F - G 132 -688													
Webs: 2x4 SP #3;		C - D 449 -1075 G - H 668 -84													
Wind		D - E 455 -949 H - I 631 -103													
Wind loads based on MWFRS with additional C&C member design.		E - F 100 -696 I - J 399 -793													
End verticals exposed to wind pressure. Deflection meets L/180.		Maximum Bot Chord Forces Per Ply (lbs)													
Additional Notes		Chords Tens.Comp. Chords Tens. Comp.													
Shim all supports to solid bearing.		S - R 1342 -511 P - O 453 -782													
Top Chord overhang(s) may be field trimmed.		R - Q 1387 -503 O - N 740 -189													
		Q - P 2166 -575 N - M 695 -197													
		Maximum Web Forces Per Ply (lbs)													
		Webs Tens.Comp. Webs Tens. Comp.													
		B - T 419 -756 G - O 224 -801													
		B - S 1240 -363 O - I 402 -1036													
		C - Q 208 -423 M - J 653 -200													
		E - P 506 -492 L - J 345 -531													
		P - G 1052 -127													



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

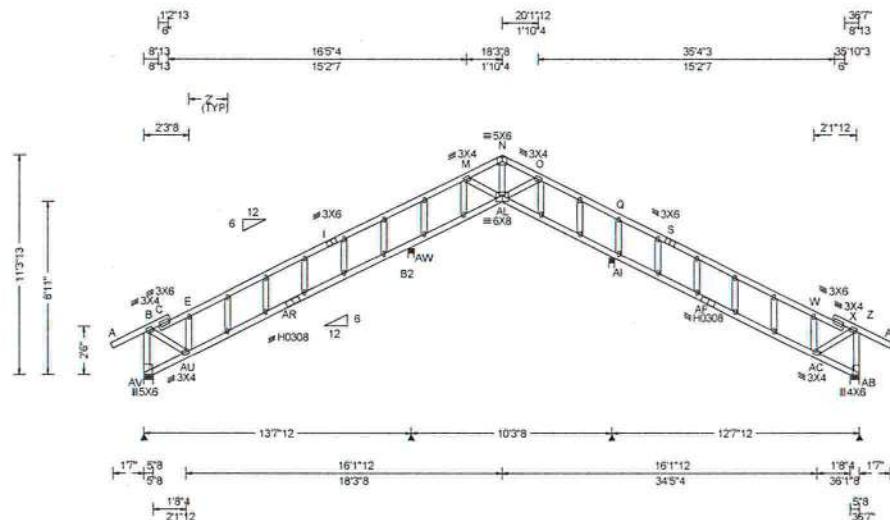
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16761 GABL Ply: 1 Job Number: B50573-R
FROM: JL Qty: 1 - Knoper Roof Trademark Const Group
Truss Label: B02 Cust: R 857 JRef:1WWR8570002 T4
DrwNo: 189.20.1602.07473 SSB / DF 07/07/2020



Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1; B2 2x4 SP SS Dense;
Webs: 2x4 SP #3;

Plating Notes

All plates are 1.5X3 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.

End verticals exposed to wind pressure. Deflection meets L/180.

Additional Notes

See DWGS A14030ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

Shim all supports to solid bearing.

Top Chord overhang(s) may be fine.

Top chord overhang(s) may be held trimmed.

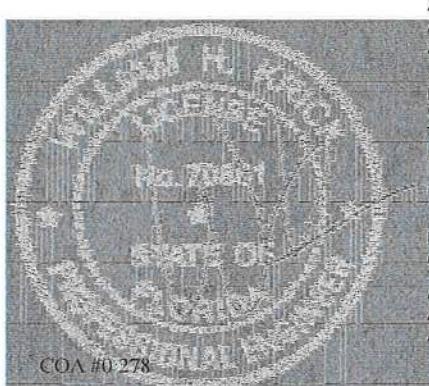
Members not listed have forces less than 375#

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	527	- 843	O - Q	761	- 956
C - E	534	- 827	Q - S	671	- 831
E - I	791	- 1090	S - W	642	- 1004
I - M	883	- 1008	W - X	462	- 762
M - N	548	- 1118	X - Z	456	- 778
N - O	557	- 1083			

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens. Comp.	Chords	Tens. Comp.
AU-AR	951 -521	AI-AF	971 -444
AR-AI	1909 -1012	AE-AC	894 -432

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.	Comp.	Webs	Tens.	Comp.
B-AU	1017	-586	AL-O	531	-295
M-AL	632	-167	AC-Z	940	-436
U-AL	315	-514			

Maximum Gable Forces Per Ply (lbs)					
Gables	Tens.	Comp.	Gables	Tens.	Comp.
AV- B	607	-898	W- AC	294	-621
AU- E	390	-667	Z- AB	526	-837
AL- O	134	-470			



07/07/2020

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING

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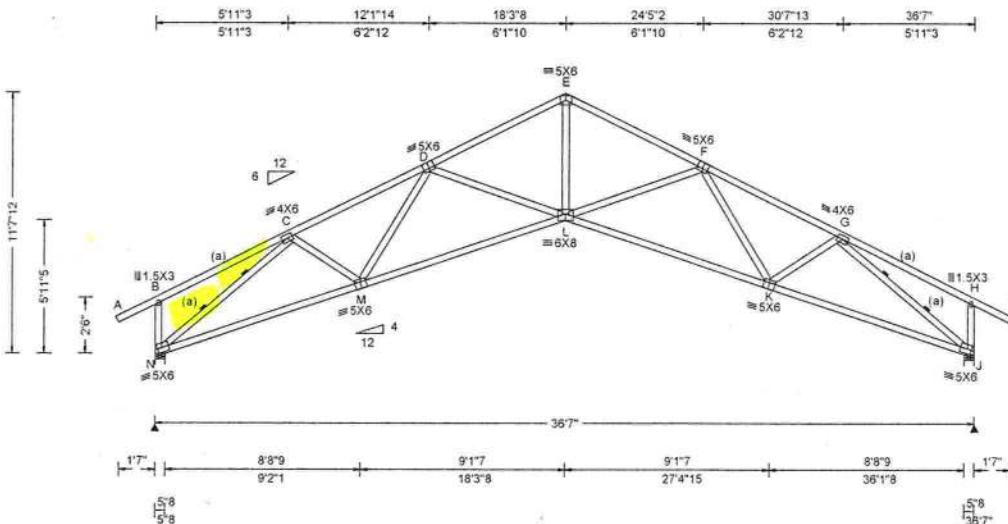
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For more information see these web sites: Alpine: www.alpineitv.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

The logo for ALPINE, featuring the word "ALPINE" in a bold, sans-serif font with a registered trademark symbol, and "AN ITW COMPANY" in a smaller font below it.

SEQN: 16545	COMM:	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T
FROM: JL		Qty: 3	- Knoper Roof Trademark Const Group	DrwNo: 189.20.1602.22757
			Truss Label: B03	SSB / DF 07/07/2020



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity					
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.250 L 999 240	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.518 L 847 180	N	1639	/-	/-	/916	/107	/254
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.244 J - -	J	1639	/-	/-	/916	/107	/-
Des Ld:	40.00	EXP: B Kzt: NA		HORZ(CL): 0.504 J - -	Wind reactions based on MWFRS						
NCBCLL:	10.00	Mean Height: 16.64 ft	Building Code: FBC 2017 RES	Creep Factor: 2.0	N	Brg Width = 5.5	Min Req = 1.8				
Soffit:	2.00	TCDL: 4.2 psf	TPI Std: 2014	Max TC CSI: 0.384	J	Brg Width = 5.5	Min Req = 1.8				
Load Duration: 1.25		BCDL: 5.0 psf	Rep Fac: Yes	Max BC CSI: 0.864	Bearings N & J are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h	FT/RT: 10(0)/4(0)	Max Web CSI: 0.928	Members not listed have forces less than 375#						
		C&C Dist a: 3.66 ft	Plate Type(s): WAVE	VIEW Ver: 17.02.02A.1213.20	Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall: not in 9.00 ft			Chords	Tens. Comp.	Chords	Tens. Comp.			
		GCpi: 0.18			C - D	492 -3135	E - F	460 -3044			
		Wind Duration: 1.60			D - E	444 -3044	F - G	481 -3135			

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3", min.)nails @ 6" oc.

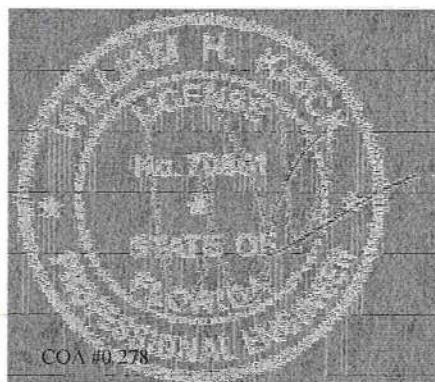
Wind

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

End verticals exposed to wind pressure. Deflection meets L/180.

Additional Notes

Top Chord overhang(s) may be field trimmed.



07/07/2020

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

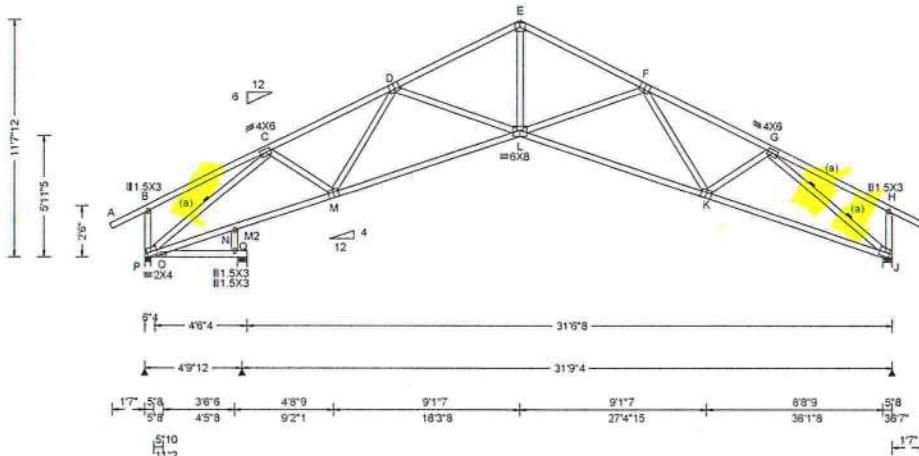
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SEQN: 16543	COMM:	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T10
FROM: JL		Qty: 8	- Knoper Roof Trademark Const Group Truss Label: B04	DrvNo: 189.20.1602.26027 SSB / DF 07/07/2020

5'11"3 12'11"4 18'3"8 24'5"2 30'7"13 36'7"



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
				Gravity			Non-Gravity		
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	P	1511	/-	/-	/801	/120
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.242 L 999 240	Q	187	/-	/0	/124	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.489 L 774 180	J	1618	/-	/-	/900	/109
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.235 J - -						
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(CL): 0.487 J - -						
NCBCLL: 10.00	Mean Height: 16.64 ft	Building Code:	Creep Factor: 2.0						
Soffit: 2.00	TCDL: 4.2 psf	FBC 2017 RES	Max TC CSI: 0.399						
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.905						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.999						
	C&C Dist a: 3.66 ft	FT/RT: 10(0)/4(0)							
	Loc. from endwall: not in 9.00 ft	Plate Type(s):							
	GCpi: 0.18	WAVE							
	Wind Duration: 1.60		VIEW Ver: 17.02.02A.1213.20						

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; M2 2x4 SP #1;
Filler: 2x4 SP #1;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Plating Notes

All plates are 5X6 except as noted.

Purlins

Laterally brace BC at 24" oc in lieu of rigid ceiling.
Laterally brace BC above filler at 24" oc.

Wind

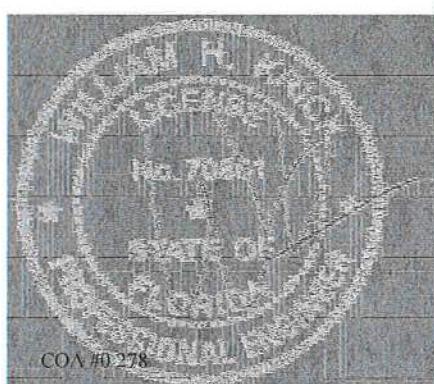
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/180.

Additional Notes

Shim all supports to solid bearing.

Top Chord overhang(s) may be field trimmed.



COA #0 278

07/07/2020

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

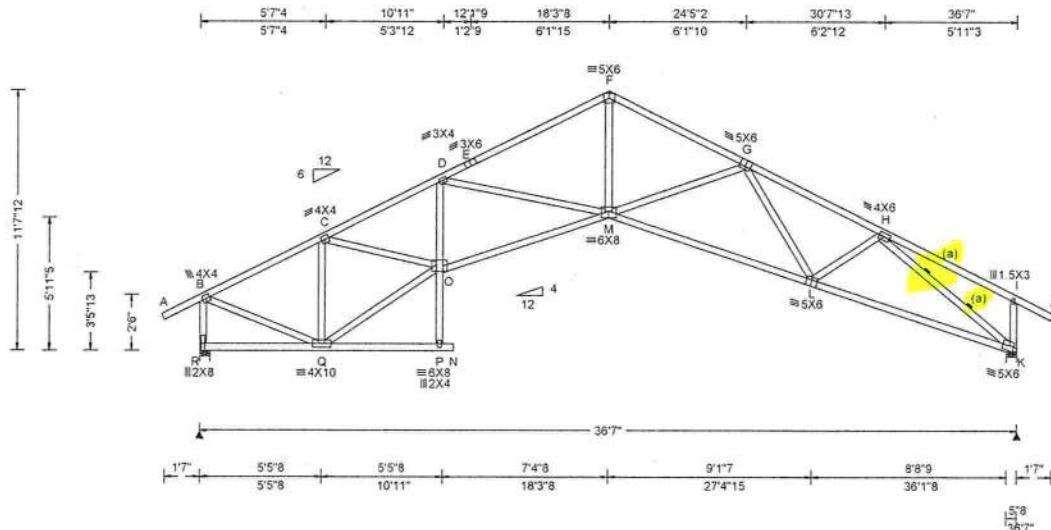
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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SEQN: 16570 COMN: Pfy: 1 Job Number: B50573-R
FROM: JL Qty: 1 - Knoper Roof Trademark Const Group
Truss Label: B05 Cust: R 857 JRF: 1VWR8570002 T6
DrwNo: 189.20.1602.30320
SS#: / DE: 07/07/2020



Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3", min.)nails @ 6" oc.

Wind

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

End verticals not exposed to wind pressure

Additional Notes

Top Chord overhang(s) may be field trimmed.

▲ Maximum Reactions (lbs)						
Loc	Gravity			Non-Gravity		
	R+	R-	/ Rh	/ Rw	/ U	/ RL
R	1628	/-	/-	/921	/-	/214
K	1636	/-	/-	/916	/-	/-

Wind reactions based on MWFRS

R	Brg Width = 5.5	Min Req = 1.9
K	Brg Width = 5.5	Min Req = 1.8

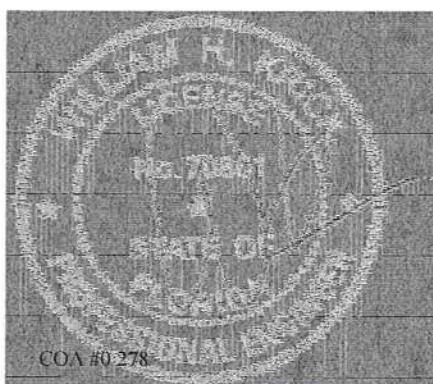
Bearings R & K are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)				
Chords	Tens. Comp.	Chords	Tens.	Comp.
B - C	290 - 1712	E - F	411	- 3028
C - D	493 - 3435	F - G	400	- 3042
D - E	386 - 3064	G - H	449	- 3128

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - M	3184	-285	L - K	2455	-299
M - L	3043	-281			

Maximum Web Forces Per Ply (lbs)				
Webs	Tens. Comp.	Webs	Tens.	Comp.
B - R	352 - 1582	D - M	185	- 385
B - Q	1566 - 185	F - M	2211	- 210
Q - C	192 - 1484	L - H	534	0
Q - O	1803 - 184	H - K	374	- 3042
C - O	1563 - 120			



07/07/2020

07/07/2020

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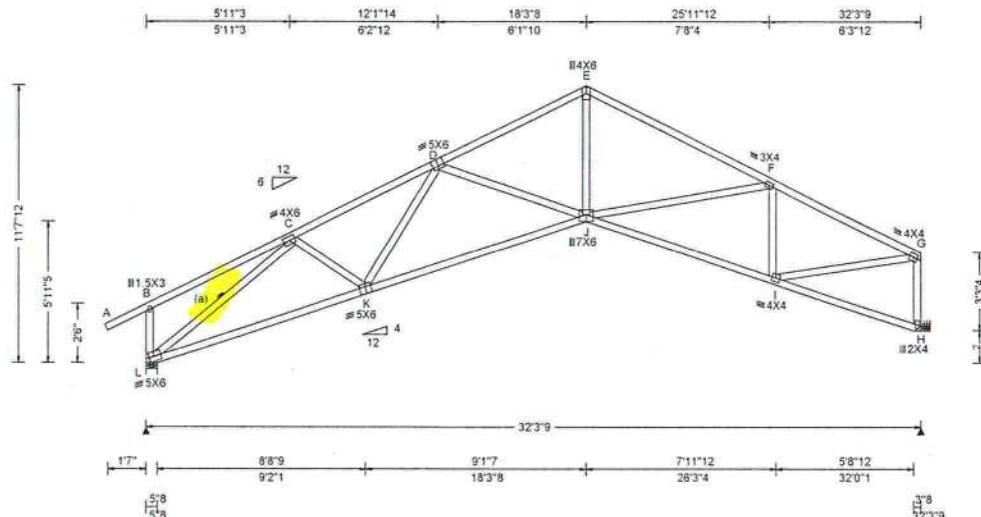
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The logo for Alpine, featuring the word "ALPINE" in a bold, sans-serif font with a registered trademark symbol, and "AN ITW COMPANY" in a smaller font below it.

SEQN: 16697 COMN: Ply: 1 Job Number: B50573-R
FROM: JL Qty: 1 - Knoper Roof Trademark Const Group
Truss Label: B06 Cust: R 857 JRF: 1WWR8570002 T22
DrwNo: 189.20.1602.31697 SSB / DF 07/07/2020



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
			Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity		
			Pf: NA Ce: NA	VERT(LL): 0.150 D 999 240	Loc	R+	/R-	/Rh	/Rw	/U
TCLL:	20.00	Wind Std: ASCE 7-10	Lu: NA Cs: NA	VERT(CL): 0.312 D 999 180	-	-	-	/826	/-	/170
TCDL:	10.00	Speed: 130 mph	Snow Duration: NA	HORZ(LL): 0.141 H - -	-	-	-	/714	/-	/-
BCLL:	0.00	Enclosure: Closed		HORZ(CL): 0.293 H - -	-	-	-			
BCDL:	10.00	Risk Category: II			Wind reactions based on MWFRS					
Des Ld:	40.00	EXP: B Kzt: NA			L	Brg Width = 5.5				Min Req = 1.6
NCBCLL:	10.00	Mean Height: 16.64 ft			H	Brg Width = -				Min Req = -
TCDL:	4.2 psf	TCDL: 4.2 psf								
BCDL:	5.0 psf	BCDL: 5.0 psf			Bearing L is a rigid surface.					
Load Duration: 1.25		MWFRS Parallel Dist: > 2h			Members not listed have forces less than 375#					
Spacing: 24.0 "		C&C Dist a: 3.23 ft			Maximum Top Chord Forces Per Ply (lbs)					
		Loc. from endwall: not in 9.00 ft			Chords	Tens.Comp.		Chords	Tens. Comp.	
		GCpl: 0.18			C - D	441 - 2662		E - F	400 - 2401	
		Wind Duration: 1.60			C - E	261 - 1555		F - G	201 - 1201	
					VIEW Ver: 17.02.02A.1213.20					

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128" x 3" min.) nails @ 6" o.c.

Hangers / Ties

(I) 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

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



07/07/2020

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING.

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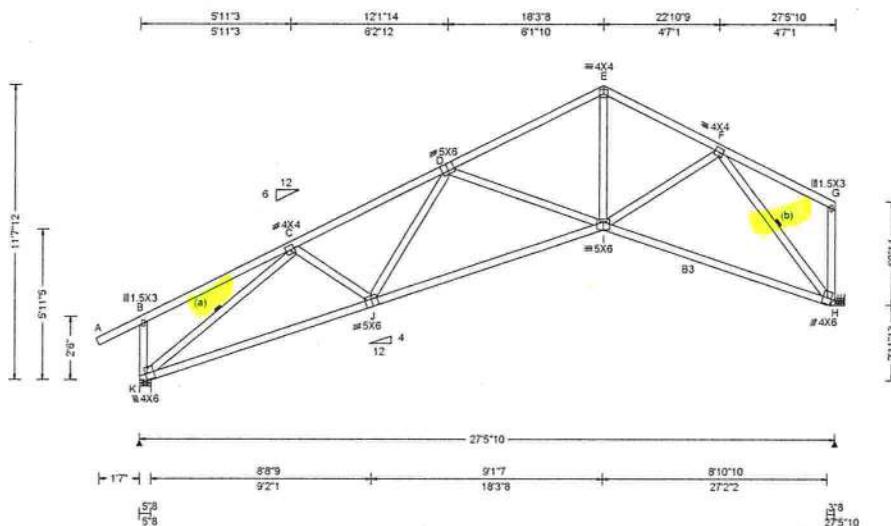
IMPORTANT - FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
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SEQN: 16692	COMM	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T21
FROM: JL		Qty: 1	- Knoper Roof Trademark Const Group	DrwNo: 189.20.1602.33120
			Truss Label: B07	SSB / DF 07/07/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
				Gravity			Non-Gravity		
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	K	1259	/-	/	724	/-
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.094 D 999 240	H	1146	/-	/	607	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.196 D 999 180						
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.083 H - -						
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(CL): 0.173 H - -						
NCBCLL: 10.00	Mean Height: 16.64 ft	Building Code:	HORZ(TL): 0.173 H - -						
Soffit: 2.00	TCDL: 4.2 psf	FBC 2017 RES							
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014							
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: Yes							
	C&C Dist a: 3.00 ft	FT/RT: 10(0)/4(0)							
	Loc. from endwall: not in 9.00 ft	Plate Type(s):							
	GCpi: 0.18	WAVE							
	Wind Duration: 1.60								
VIEW Ver: 17.02.02A.1213.20				C - D	387	-2127	E - F	329	-1574
				D - E	309	-1603			

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1; B3 2x4 SP M-30;
Webs: 2x4 SP #3;

Bracing

(b) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3", min.)nails @ 6" oc.

(a) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3", min.)nails @ 6" oc.

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

Top Chord overhang(s) may be field trimmed.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

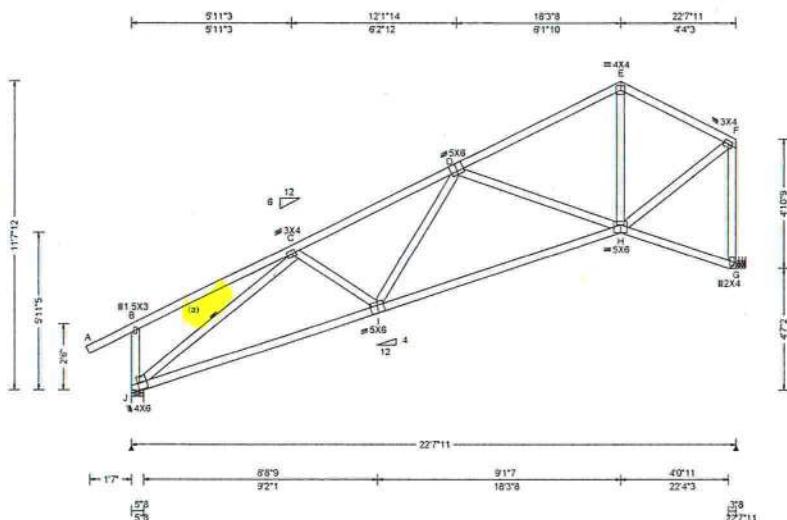
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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SEQN: 16688 FROM: JL	COMM Qty: 1	Job Number: B50573-R - Knoper Roof Trademark Const Group Truss Label: B08	Cust: R 857 JRef: 1WWR8570002 T20 DrwNo: 189.20.1602.34563 SSB / DF 07/07/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	J	1059	/ -	/ -	/621	/ -	/163
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.055 I 999 240	G	945	/ -	/ -	/542	/ -	/ -
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.115 I 999 180							
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.037 G - -							
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.077 G - -							
NCBCLL: 10.00	Mean Height: 16.64 ft									
Soffit: 2.00	TCDL: 4.2 psf									
Load Duration: 1.25	BCDL: 5.0 psf									
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h									
	C&C Dist a: 3.00 ft									
	Loc. from endwall: not in 9.00 ft									
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Hangers / Ties

(J) Hanger Support Required, by others

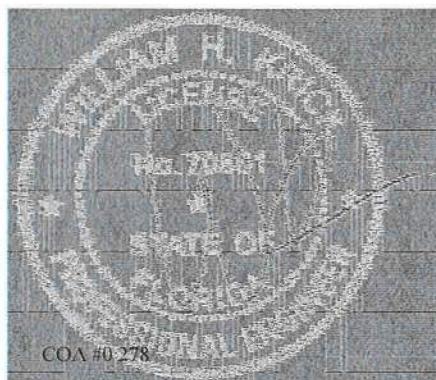
Wind

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

End verticals not exposed to wind pressure.

Additional Notes

Top Chord overhang(s) may be field trimmed.



07/07/2020

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

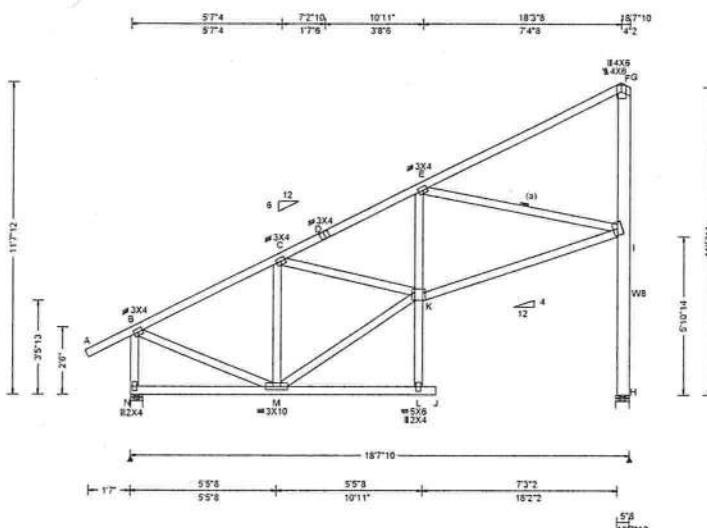
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SEQN: 16672	SPEC	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T23
FROM: JL		Qty: 1	- Knoper Roof Trademark Const Group	DrwNo: 189.20.1602.45490
			Truss Label: B09	SSB / DF 07/07/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
				Gravity			Non-Gravity		
Loc	R+	/R-	/Rh	/Rw	/U	/RL			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	N	874	/-	/	/539	/- /178
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.085 F 999 240	H	783	/-	/	/480	/24 /-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.174 F 999 180						
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.043 F - -						
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.087 F - -						
NCBCLL: 10.00	Mean Height: 16.64 ft	Building Code:							
Soffit: 2.00	TCDL: 4.2 psf	FBC 2017 RES							
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014							
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes							
	C&C Dist a: 3.00 ft	FT/RT: 10(0)/4(0)							
	Loc. from endwall: not in 9.00 ft	Plate Type(s):							
	GCpi: 0.18	WAVE							
	Wind Duration: 1.60								
VIEW Ver: 17.02.02A.1213.20									

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W8 2x6 SP #1;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Wind

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

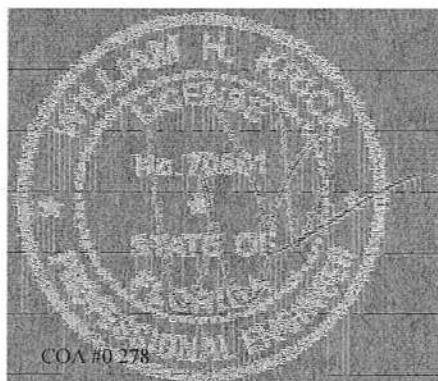
End verticals not exposed to wind pressure.

Additional Notes

Shim all supports to solid bearing.

Top Chord overhang(s) may be field trimmed.

Drop leg is not designed to resist any lateral loading from wind pressure on the wall. End vertical does not provide support for wall.



07/07/2020

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

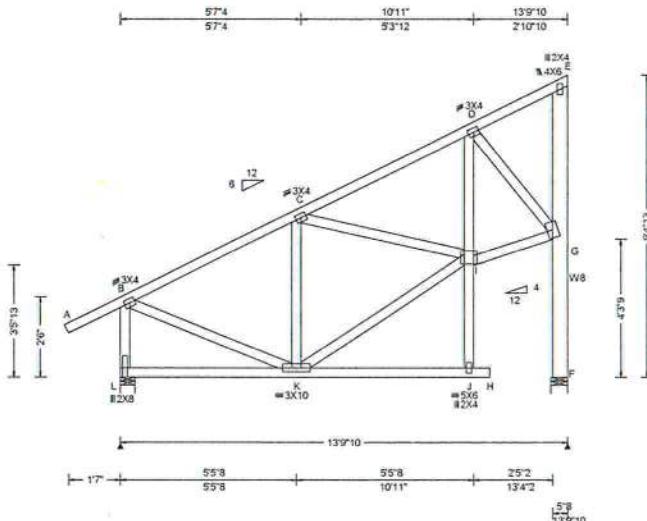
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SEQN: 16676 FROM: JL	MONO Qty: 1	Job Number: B50573-R - Knoper Roof Trademark Const Group Truss Label: B10	Cust: R 857 JRef:1WWR8570002 T15 DrwNo: 189.20.1602.49847 SSB / DF 07/07/2020
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)										
			Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity							
TCLL:	20.00	Wind Std: ASCE 7-10	Pf: NA Ce: NA	VERT(LL): 0.010 C 999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL				
TCDL:	10.00	Speed: 130 mph	Lu: NA Cs: NA	VERT(CL): 0.020 C 999 180	L	676	/ -	/ -	/414	/ -	/218				
BCLL:	0.00	Enclosure: Closed	Snow Duration: NA	HORZ(LL): -0.003 E - -	F	580	/ -	/ -	/358	/93	/ -				
BCDL:	10.00	Risk Category: II		HORZ(TL): 0.006 E - -	Wind reactions based on MWFRS										
Des Ld:	40.00	EXP: B Kzt: NA	Building Code:	Creep Factor: 2.0	L	Brg Width = 5.5		Min Req = 1.5							
NCBCLL:	10.00	Mean Height: 15.52 ft	FBC 2017 RES	Max TC CSI: 0.278	F	Brg Width = 6.3		Min Req = 6.3							
Soffit:	2.00	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.241	Bearings L & F are a rigid surface.										
Load Duration: 1.25		MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.245	Members not listed have forces less than 375#										
Spacing: 24.0 "		C&C Dist a: 3.00 ft	FT/RT:10(0)/4(0)		Maximum Top Chord Forces Per Ply (lbs)										
		Loc. from endwall: Any	Plate Type(s):		Chords	Tens.Comp.		Chords	Tens. Comp.						
		GCpi: 0.18	WAVE	VIEW Ver: 17.02.02A.1213.20	B - C	58	-532	C - D	81	-460					
		Wind Duration: 1.60													

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W8 2x6 SP #1;

Wind

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

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

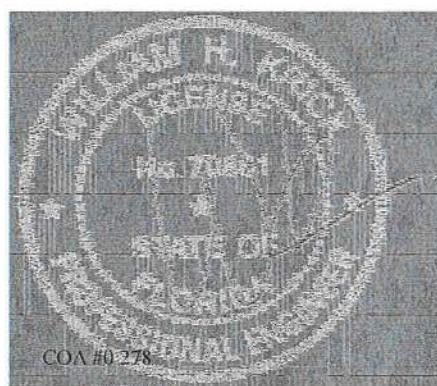
Right end vertical not exposed to wind pressure.

Additional Notes

Shim all supports to solid bearing.

Top Chord overhang(s) may be field trimmed.

Drop leg is not designed to resist any lateral loading from wind pressure on the wall. End vertical does not provide support for wall.



07/07/2020

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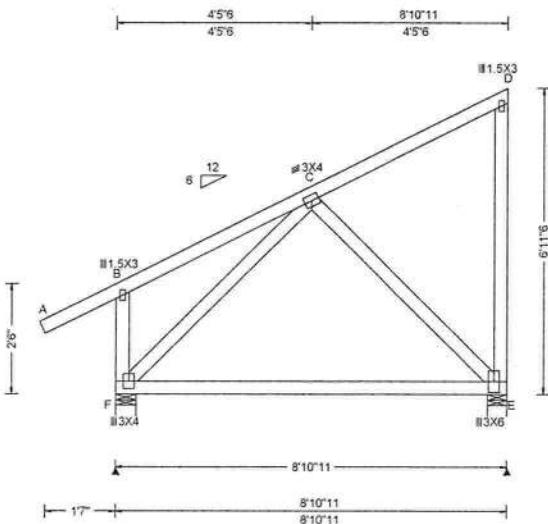
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SEQN: 16748	MONO	Ply: 1	Job Number: B50573-R - Knoper Roof Trademark Const Group	Cust: R 857 JRef: 1WWR8570002 T9 DrwNo: 189.20.1602.51537 SSB / DF 07/07/2020
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
TCLL:	20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity		Non-Gravity			
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 C 999 240	Loc R+ / R- / Rh / Rw				/ U / RL	
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.005 C 999 180	F 487 /- /- /295 /- /68					
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 E - -	E 366 /- /- /234 /22 /-					
Des Ld:	40.00	EXP: B Kzt: NA		HORZ(TL): 0.002 E - -	Wind reactions based on MWFRS					
NCBCLL:	10.00	Mean Height: 15.00 ft		Building Code: Creep Factor: 2.0	F Brg Width = 5.5 Min Req = 1.5					
Soffit:	2.00	TCDL: 4.2 psf		FBC 2017 RES Max TC CSI: 0.256	E Brg Width = 5.3 Min Req = 1.5					
Load Duration: 1.25		BCDL: 5.0 psf		TPI Std: 2014 Max BC CSI: 0.369	Bearings F & E are a rigid surface.					
Spacing: 24.0 "		MWFRS Parallel Dist: > 2h		Rep Fac: Yes Max Web CSI: 0.288	Members not listed have forces less than 375#					
		C&C Dist a: 3.00 ft		FT/RT: 10(0)/4(0)						
		Loc. from endwall: not in 9.00 ft		Plate Type(s):						
		GCpi: 0.18		WAVE						
		Wind Duration: 1.60			VIEW Ver: 17.02.02A.1213.20					

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP SS Dense;
Webs: 2x4 SP #3;

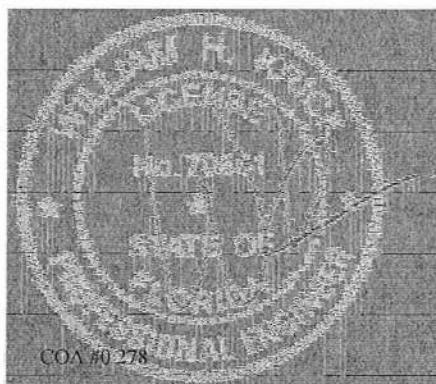
Wind

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

End verticals not exposed to wind pressure.

Additional Notes

Top Chord overhang(s) may be field trimmed.



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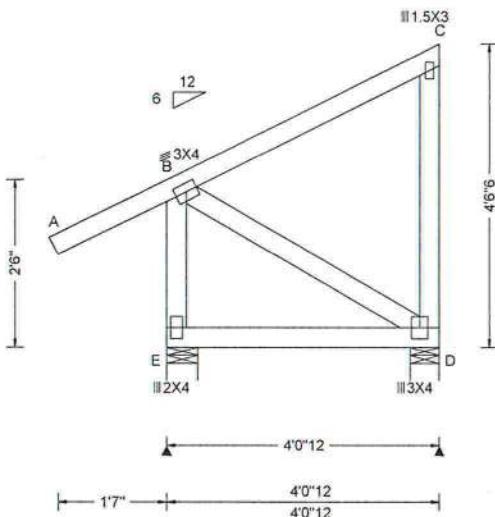
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SEQN: 16742	MONO	Ply: 1	Job Number: B50573-R - Knoper Roof Trademark Const Group	Cust: R 857 JRef: 1WWR8570002 T2 DrwNo: 189.20.1602.53003 SSB / DF 07/07/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)									
				Gravity			Non-Gravity						
TCLL:	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL				
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 B 999 240	E 300	/-	/-	/177	/-	/37				
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 B 999 180	D 167	/-	/-	/104	/20	/-				
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 C - -	Wind reactions based on MWFRS									
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(CL): 0.001 C - -	E Brdg Width = 5.5	Min Req = 1.5								
NCBCLL: 10.00	Mean Height: 15.00 ft		Building Code: FBC 2017 RES	D Brdg Width = 5.3	Min Req = 1.5								
Soffit: 2.00	TCDL: 4.2 psf		TPI Std: 2014	Bearings E & D are a rigid surface.									
Load Duration: 1.25	BCDL: 5.0 psf		Rep Fac: Yes	Members not listed have forces less than 375#									
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h		FT/RT: 10(0)/4(0)	VIEW Ver: 17.02.02A.1213.20									
	C&C Dist a: 3.00 ft		Plate Type(s): WAVE										
	Loc. from endwall: not in 9.00 ft												
	GCpi: 0.18												
	Wind Duration: 1.60												

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

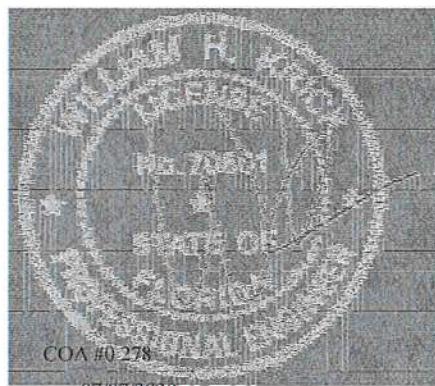
Wind

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

End verticals not exposed to wind pressure.

Additional Notes

Top Chord overhang(s) may be field trimmed.



07/07/2020

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

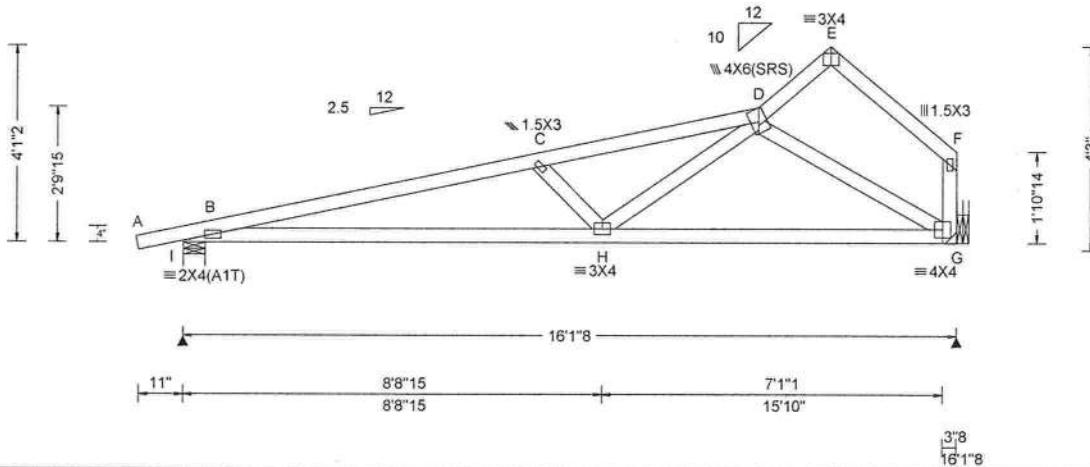
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

Alpine, a division of ITW Building Components Group Inc, shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16853 FROM: JL	COMM Qty: 7	Job Number: B50573-R - Knoper Roof Trademark Const Group Truss Label: C01	Cust: R 857 JRef: 1WWR8570002 T29 DrwNo: 189.20.1602.54850 SSB / DF 07/07/2020
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7'5"7 11'11"13 13'6" 16'1"8
7'5"7 4'6"6 1'6"3 2'7"8



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
				Gravity			Non-Gravity		
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	I	721	/-	/	/368	/103 /69
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.065 C 999 240	G	657	/-	/	/342	/38 /-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.131 C 999 180						
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 F - -						
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.052 F - -						
NCBCLL: 10.00	Mean Height: 21.27 ft								
Soffit: 2.00	TCDL: 4.2 psf								
Load Duration: 1.25	BCDL: 5.0 psf								
Spacing: 24.0 "	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								
Lumber				▲ Maximum Reactions (lbs)					
Top chord: 2x4 SP #1;				Gravity			Non-Gravity		
Bot chord: 2x4 SP #1;				Loc	R+	/R-	/Rh	/Rw	/U /RL
Webs: 2x4 SP #3;				I	721	/-	/	/368	/103 /69
Hangers / Ties				G	657	/-	/	/342	/38 /-
(J) Hanger Support Required, by others									
Wind									
Wind loads based on MWFRS with additional C&C member design.									
Additional Notes									
Top Chord overhang(s) may be field trimmed.									



07/07/2020

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

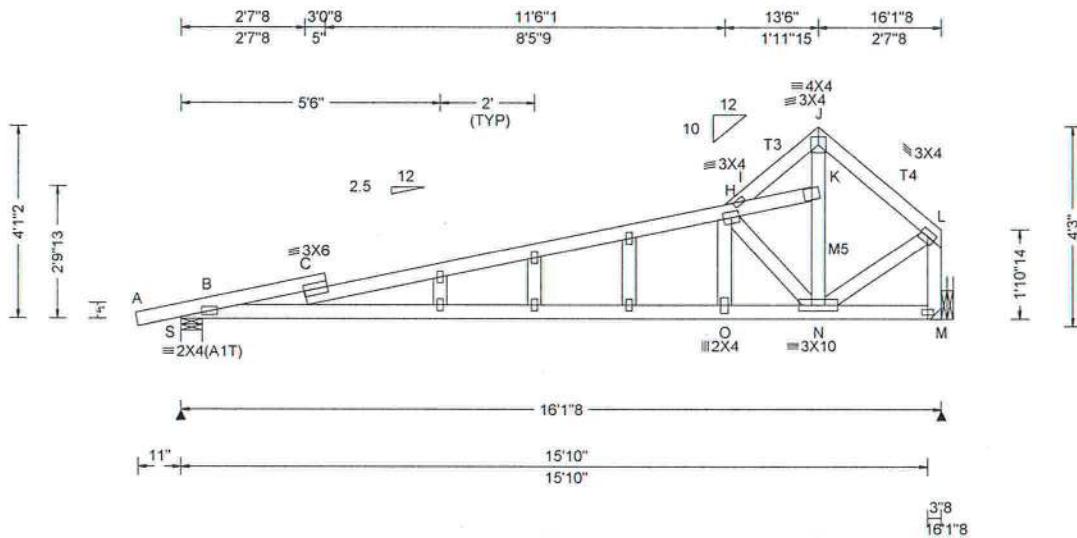
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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SEQN: 16724 GABL Ply: 1 Job Number: B50573-R
FROM: JL Qty: 2 - Knoper Roof Trademark Const Group
Truss Label: C02 Cust: R 857 JRef: 1WWR8570002 T28
DrwNo: 189.20.1602.56290 SSB / DF 07/07/2020



Lumber

Top chord: 2x4 SP SS Dense; T3,T4 2x4 SP M-30;
Bot chord: 2x4 SP SS Dense;
Webs: 2x4 SP #3; M5 2x4 SP #1;

Plating Notes

All plates are 1.5X3 except as noted

Hangers / Ties

(J) Hanger Support Required by others

Loading

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

Wind

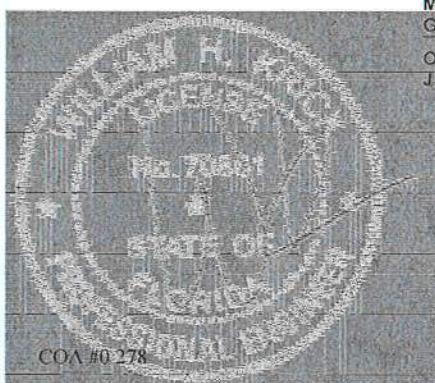
Wind

Additional Notes

See DWGS A14030ENC101014 & GBLLETIN0118 for cable wind bracing, and other requirements.

Top Chord overhang(s) may be field-trimmed

Laterally brace chord above/ below filler at 24" OC (or as designed) including a lateral brace on chord directly below both ends of filler (if no rigid diaphragm exists at that point)



07/07/2020

07/07/2021

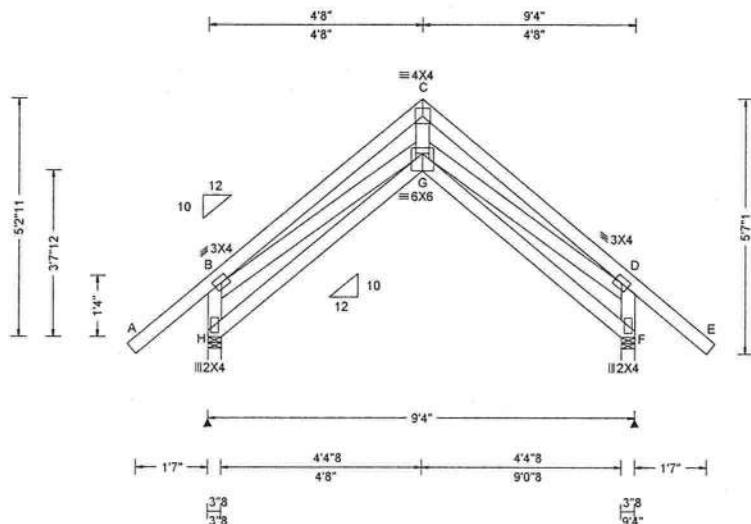
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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SEQN: 16787	COMM	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T11
FROM: JL		Qty: 4	- Knoper Roof Trademark Const Group Truss Label: D01	DrwNo: 189.20.1603.03270 SSB / DF 07/07/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	H	561	/-	/	/330	/17	/133
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.045 G 999 240	F	561	/-	/	/330	/17	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.103 G 999 180							
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.075 F - -							
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(CL): 0.172 F - -							
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0							
Soffit: 2.00	TCDL: 4.2 psf	Building Code:	Max TC CSI: 0.274							
Load Duration: 1.25	BCDL: 5.0 psf	FBC 2017 RES	Max BC CSI: 0.151							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.443							
	C&C Dist a: 3.00 ft	Rep Fac: Yes								
	Loc. from endwall: Any	FT/RT: 10(0)/4(0)								
	GCpi: 0.18	Plate Type(s):								
	Wind Duration: 1.60	WAVE								
			VIEW Ver: 17.02.02A.1213.20							

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
webs: 2x4 SP #3;

Wind

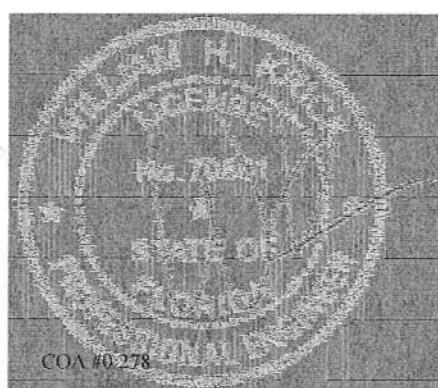
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Top Chord overhang(s) may be field trimmed.

Maximum Web Forces Per Ply (lbs)

Webs	Tens. Comp.	Webs	Tens. Comp.
B - H	184 - 493	C - G	1164 - 122
B - G	1030 0	F - D	156 - 493
G - D	1030 - 135		



07/07/2020

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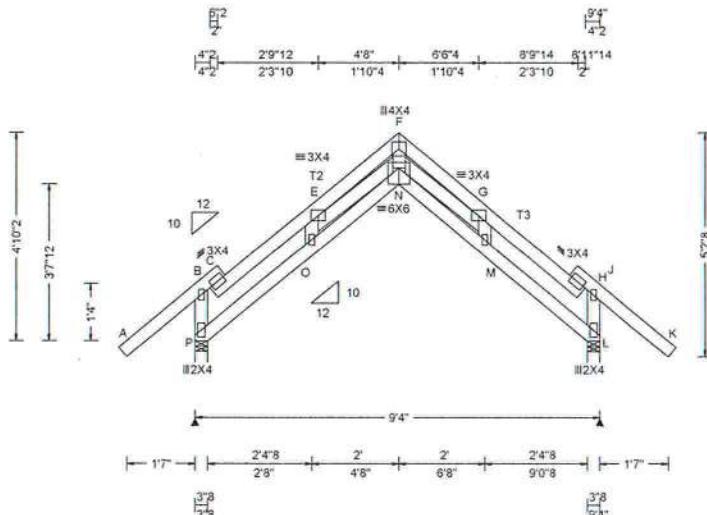
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16784	GABL	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef:1WWR8570002 T13
FROM: JL		Qty: 1	- Knoper Roof Trademark Const Group	DrvNo: 189.20.1603.06727 SSB / DF 07/07/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
				Gravity			Non-Gravity		
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	P	561	/ -	/ -	/331	/6
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.202 N 546 240	L	561	/ -	/ -	/331	/6
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.465 N 237 180						
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.338 L - -						
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(CL): 0.779 L - -						
NCBCLL: 10.00	Mean Height: 15.00 ft								
Soffit: 2.00	TCDL: 4.2 psf								
Load Duration: 1.25	BCDL: 5.0 psf								
Spacing: 24.0 "	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								
Lumber									
Top chord: 2x4 SP SS Dense; T2,T3 2x4 SP #1;									
Bot chord: 2x4 SP #1;									
Webs: 2x4 SP #3;									
Plating Notes									
All plates are 1.5X3 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.									
Additional Notes									
See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.									
Top Chord overhang(s) may be field trimmed.									



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

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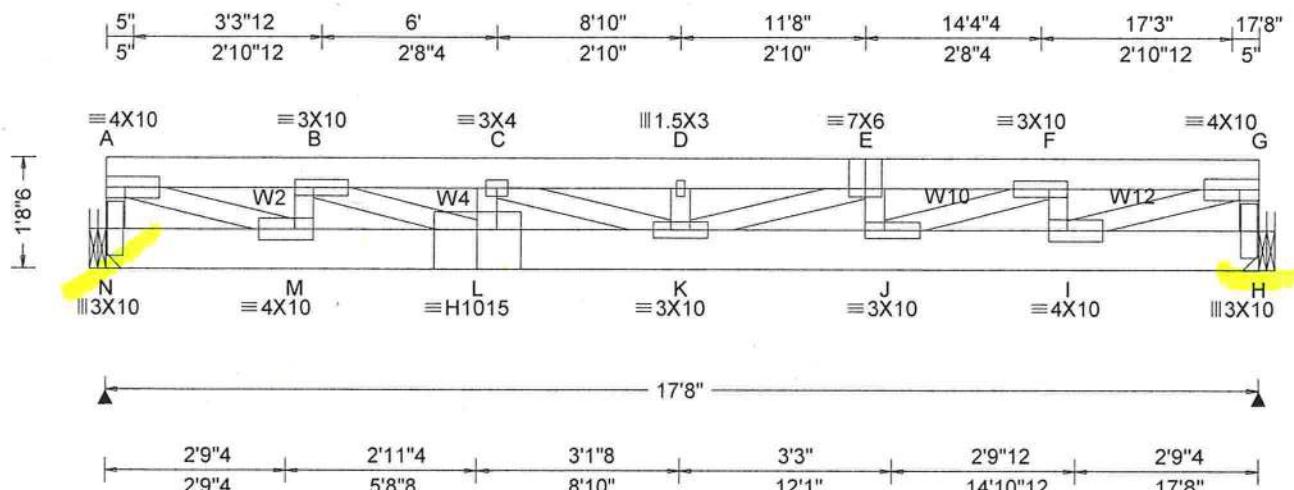
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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16726	FLAT	Ply: 2	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T31
FROM: JL		Qty: 1	- Knoper Roof Trademark Const Group	DrwNo: 189.20.1604.09073
			Truss Label: FG1	SSB / DF 07/07/2020

2 Complete Trusses Required



17'8"

2'9"4 2'11"4 3'1"8 3'3" 2'9"12 2'9"4
2'9"4 5'8"8 8'10" 12'1" 14'10"12 17'8"

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.294 D 719 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.580 D 365 180	N 5767 /- /- /267 /634 /-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.046 A - -	H 5799 /- /- /275 /640 /-
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(CL): 0.090 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 20.85 ft		HORZ(TL): 0.090 A - -	N Brg Width = - Min Req = -
Soffit: 2.00	TCDL: 4.2 psf	Building Code:		H Brg Width = - Min Req = -
Load Duration: 1.25	BCDL: 5.0 psf	FBC 2017 RES	Creep Factor: 2.0	Members not listed have forces less than 375#
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max TC CSI: 0.748	Maximum Top Chord Forces Per Ply (lbs)
	C&C Dist a: 3.00 ft	Rep Fac: No	Max BC CSI: 0.735	Chords Tens.Comp. Chords Tens. Comp.
	Loc. from endwall: not in 9.00 ft	FT/RT: 10(0)/4(0)	Max Web CSI: 0.882	A - B 590 -5372 D - E 1095 -9903
	GCpi: 0.18	Plate Type(s):		B - C 979 -8870 E - F 978 -8865
	Wind Duration: 1.60	WAVE, HS		C - D 1095 -9903 F - G 592 -5392
			VIEW Ver: 17.02.02A.1213.20	

Lumber

Top chord: 2x6 SP #1;
Bot chord: 2x8 SP SS Dense;
Webs: 2x4 SP #3; W2,W4,W10,W12 2x4 SP #1;

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 9.75" o.c.
Bot Chord: 1 Row @ 4.50" 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 310 plf at 0.00 to 310 plf at 17.67
BC: From 10 plf at 0.00 to 10 plf at 17.67
BC: 657 lb Conc. Load at 0.90, 2.90, 4.90, 6.90
8.90,10.90,12.90,14.90,16.77

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.

Wind

Wind loads and reactions based on MWFRS.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.



07/07/2020

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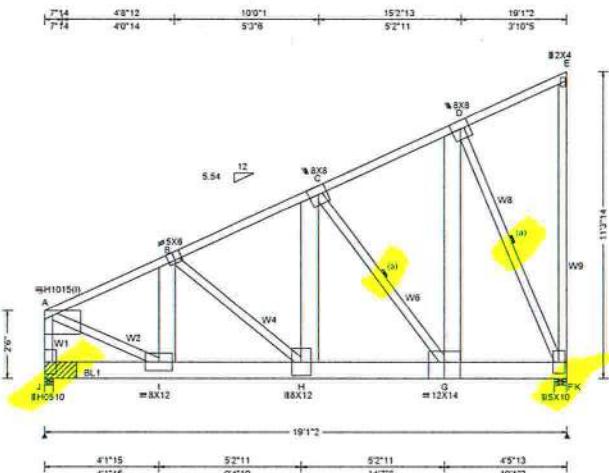
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SEQN: 16843	MONO	Ply: 3	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T8
FROM: JL		Qty: 1	- Knoper Roof Trademark Const Group	DrvNo: 189.20.1805.57307
Page 1 of 2			Truss Label: GR1	SSB / DF 07/07/2020

3 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
				Gravity			Non-Gravity		
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	J	16472	/ -	/ -	/ -	/1602 / -
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.108 H 999 240	K	12159	/ -	/ -	/ -	/1363 / -
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.212 H 999 180						
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.044 E - -						
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.087 E - -						
NCBLL: 0.00	Mean Height: 16.91 ft								
Soffit: 2.00	TCDL: 4.2 psf								
Load Duration: 1.25	BCDL: 5.0 psf								
Spacing: 24.0 "	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								

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x8 SP SS Dense;
Webs: 2x8 SP SS Dense; W1,W6 2x4 SP #1;
W2 2x4 SP SS Dense; W4,W9 2x4 SP #3;
W8 2x4 SP M-30;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 3 Rows @ 3.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. 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 31 plf at 0.00 to 31 plf at 14.91
TC: From 62 plf at 14.91 to 62 plf at 19.09
BC: From 10 plf at 0.00 to 10 plf at 9.89
BC: From 20 plf at 9.89 to 20 plf at 19.09
BC: 2069 lb Conc. Load at 0.91, 2.91, 4.91, 6.91
8.91
BC: 1347 lb Conc. Load at 4.46
BC: 10340 lb Conc. Load at 9.76
BC: 945 lb Conc. Load at 14.91
BC: 1212 lb Conc. Load at 14.99
PL: 1347 lb Conc. Load at (4.46, 10.04)
PL: 1146 lb Conc. Load at (9.69, 10.04)
PL: 945 lb Conc. Load at (14.91, 10.04)

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Wind

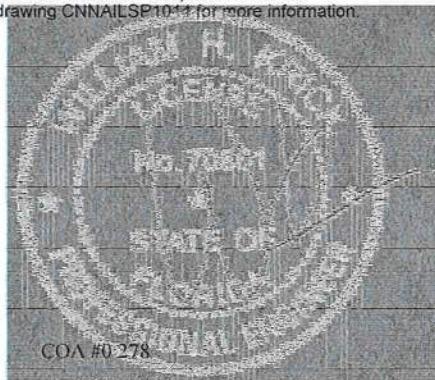
Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

Bearing Block(s)

Brg blocks: 0.128"x3", min. nails
brg x-loc #blocks length/blk #nails/blk wall plate
1 0.000' 2 14" 22 Rigid Surface
Brg block to be same size and species as chord.

Refer to drawing CNNAILSP1011 for more information.



07/07/2020

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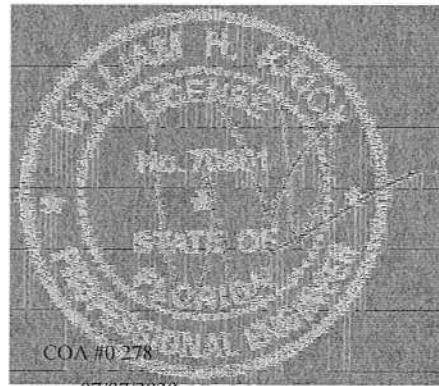
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16843	MONO	Ply: 3	Job Number: B50573-R	Cust: R 857 JRef:1WWR8570002 T8
FROM: JL		Qty: 1	- Knoper Roof Trademark Const Group	DrwNo: 189.20.1605.57307
Page 2 of 2			Truss Label: GR1	SSB / DF 07/07/2020

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



07/07/2020

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

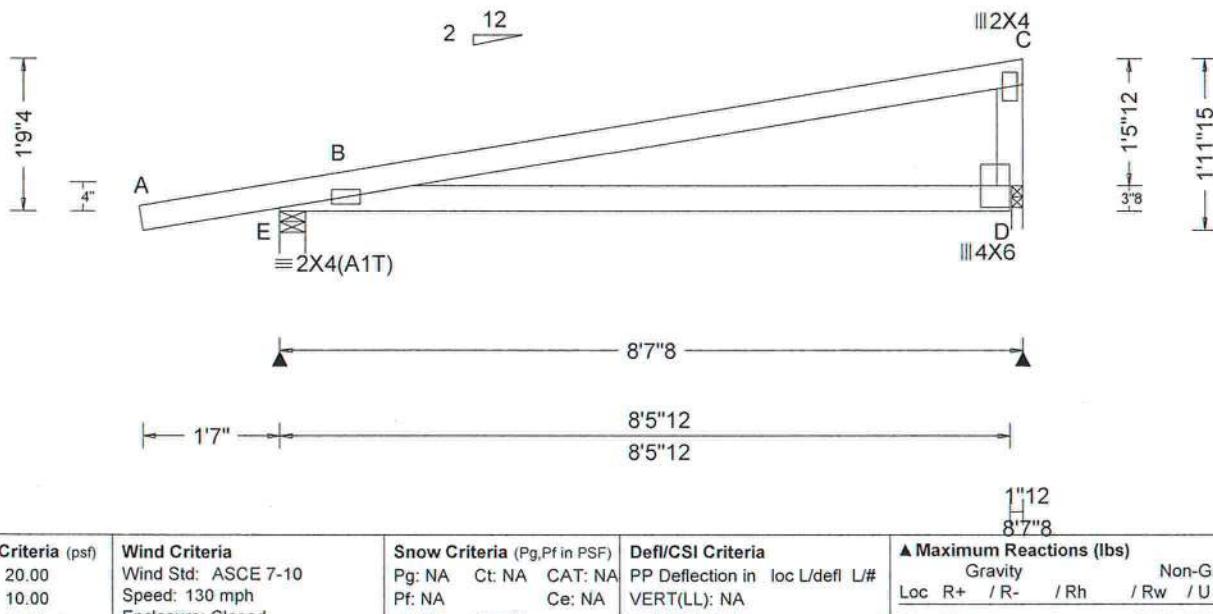
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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SEQN: 16849 FROM: JL	MONO Ply: 1 Qty: 10	Job Number: B50573-R - Knoper Roof Trademark Const Group Truss Label: M01	Cust: R 857 JRef: 1WWR8570002 T26 DrwNo: 189.20.1603.15487 SSB / DF 07/07/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
				Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	E 461	/-	/-	/237	/71	/38
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	D 343	/-	/-	/170	/25	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA						
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.022 D	-	-				
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.045 D	-	-				
NCBCLL: 10.00	Mean Height: 15.00 ft		Building Code:						
Soffit: 2.00	TCDL: 4.2 psf		FBC 2017 RES						
Load Duration: 1.25	BCDL: 5.0 psf		TPI Std: 2014						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Rep Fac: Yes						
	C&C Dist a: 3.00 ft		FT/RT: 10(0)/4(0)						
	Loc. from endwall: Any		Plate Type(s):						
	GCpi: 0.18		WAVE						
	Wind Duration: 1.60			VIEW Ver: 17.02.02A.1213.20					

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP SS Dense;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

Top Chord overhang(s) may be field trimmed.



07/07/2020

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

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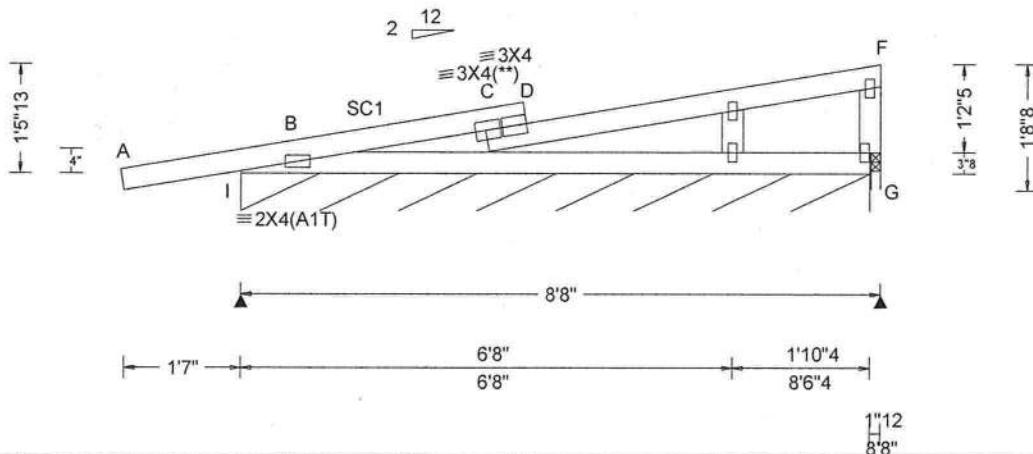
Alpine, a division of ITW Building Components Group Inc, shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16794	GABL	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T16
FROM: JL		Qty: 2	- Knoper Roof Trademark Const Group	DrwNo: 189.20.1603.17203

3'3"13 3'9"13 6'8" 2'10"3 8'8"

3'3"13 6" 2'



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF					
				Gravity			Non-Gravity		
Loc	R+	/R-	/Rh	/Rw	/U	/RL			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	I* 105	/-	/-	/52	/11	/4
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.035 H 999 240	G -	/-100	/-	/5	/35	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.070 H 999 180						
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.007 H - -						
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(CL): 0.014 H - -						
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:							
Soffit: 2.00	TCDL: 4.2 psf	FBC 2017 RES							
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes							
	C&C Dist a: 3.00 ft	FT/RT:10(0)/4(0)							
	Loc. from endwall: Any	Plate Type(s):							
	GCpi: 0.18	WAVE							
	Wind Duration: 1.60								
			VIEW Ver: 17.02.02A.1213.20						

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 1.5X3 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.

Additional Notes

See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

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

Top Chord overhang(s) may be field trimmed.



07/07/2020

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

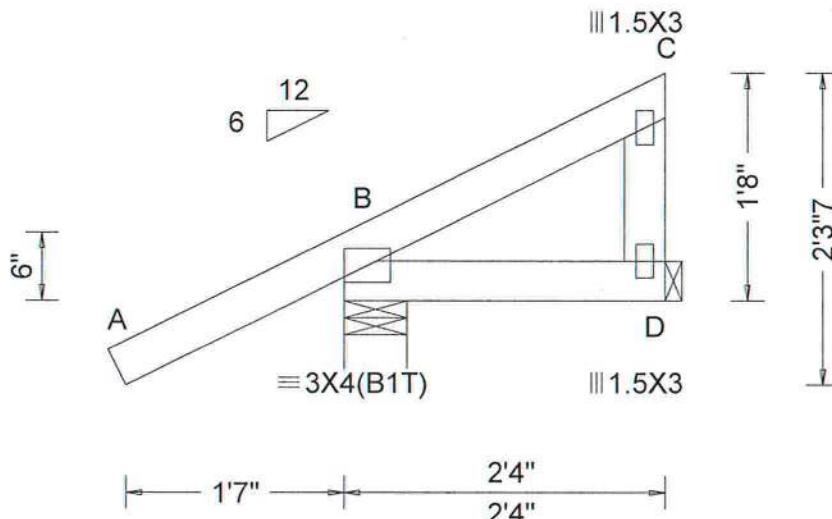
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16678	MONO	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef:1WWR8570002 T12
FROM: JL		Qty: 7	- Knoper Roof Trademark Const Group	DrvNo: 189.20.1603.21910 SSB / DF 07/07/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
				Gravity			Non-Gravity		
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	B	258	/-	/168	/24	/39
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	D	91	/-	/-	/47	/3
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA						
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 D						
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.001 D						
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0						
Soffit: 2.00	TCDL: 4.2 psf	Building Code:	Max TC CSI: 0.158						
Load Duration: 1.25	BCDL: 5.0 psf	FBC 2017 RES	Max BC CSI: 0.031						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max Web CSI: 0.018						
	C&C Dist a: 3.00 ft	Rep Fac: Yes							
	Loc. from endwall: not in 9.00 ft	FT/RT:10(0)/4(0)							
	GCpi: 0.18	Plate Type(s):							
	Wind Duration: 1.60	WAVE							
			VIEW Ver: 17.02.02A.1213.20						

Lumber

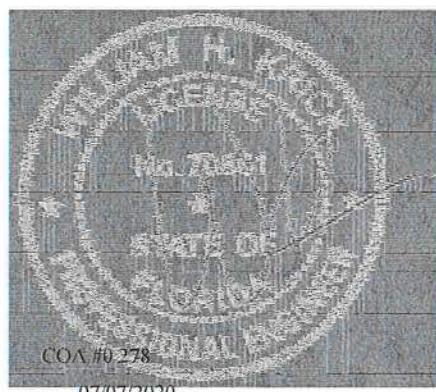
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

Top Chord overhang(s) may be field trimmed.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

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

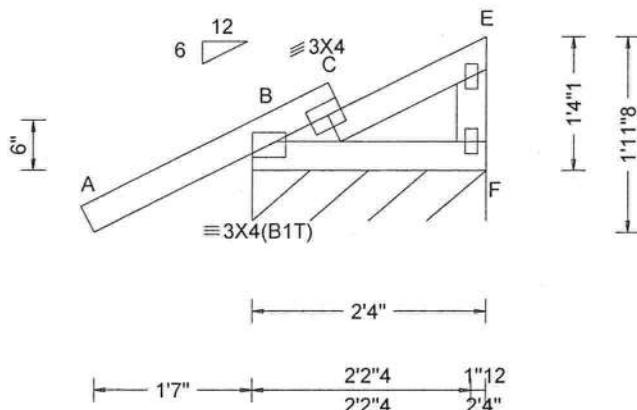
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16683	GABL	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef: 1WWR8570002 T5
FROM: JL		Qty: 2	- Knoper Roof Trademark Const Group Truss Label: M04	DrwNo: 189.20.1603.23360 SSB / DF 07/07/2020

9'1" 2'2"4 2'4"
9'1" 1'5"3 1'12"



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF					
				Loc	R+	/R-	Gravity	/Rh	/Rw
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	F*	130	/-	/82	/9	/15
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 C 999 240	Wind reactions based on MWFRS					
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.004 C 999 180	F	Brg Width = 28.0		Min Req = -		
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 C - -	Bearing B is a rigid surface.					
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(CL): 0.003 C - -	Members not listed have forces less than 375#					
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0						
Soffit: 2.00	TCDL: 4.2 psf	Building Code:	Max TC CSI: 0.158						
Load Duration: 1.25	BCDL: 5.0 psf	FBC 2017 RES	Max BC CSI: 0.031						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max Web CSI: 0.007						
	C&C Dist a: 3.00 ft	Rep Fac: Yes							
	Loc. from endwall: not in 4.50 ft	FT/RT: 10(0)/4(0)							
	GCpi: 0.18	Plate Type(s):							
	Wind Duration: 1.60	WAVE							
VIEW Ver: 17.02.02A.1213.20									

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Plating Notes

All plates are 1.5X3 except as noted.

Wind

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

Additional Notes

See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

Top Chord overhang(s) may be field trimmed.



07/07/2020

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

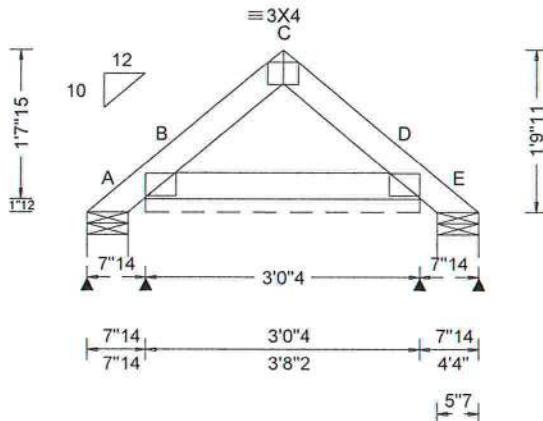
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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 16838	SPEC	Ply: 1	Job Number: B50573-R	Cust: R 857 JRef:1WWR8570002 T24
FROM: JL		Qty: 22	- Knoper Roof Trademark Const Group	DrvNo: 189.20.1603.25527 SSB / DF 07/07/2020

7'14" 2'2" 3'8"2 4'4"
7'14" 1'6"2 1'6"2 7'14"



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF					
				Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	A 13	/-	/-	/32	/22	/35
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 C 999 240	B* 81	/-	/-	/64	/19	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 C 999 180	E 13	/-	/-	/9	/3	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 - -						
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(CL): 0.000 - -						
NCBCLL: 0.00	Mean Height: 22.35 ft		HORZ(TL): 0.000 - -						
Soffit: 2.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0						
Load Duration: 1.25	BCDL: 2.0 psf	FBC 2017 RES	Max TC CSI: 0.012						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.024						
	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000						
	Loc. from endwall: Any	FT/RT:10(0)/4(0)							
	GCpi: 0.18	Plate Type(s):							
	Wind Duration: 1.60	WAVE							
			VIEW Ver: 17.02.02A.1213.20						

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;

Plating Notes

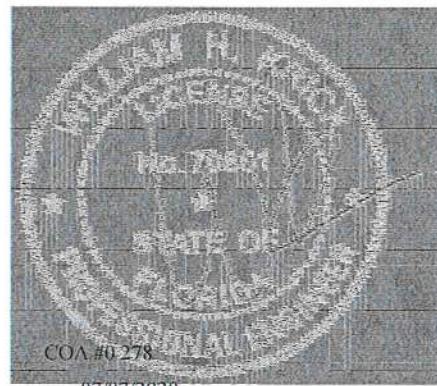
All plates are 3X4(B1T) except as noted.

Wind

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

Additional Notes

Refer to DWG PB160101014 for piggyback details.



07/07/2020

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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

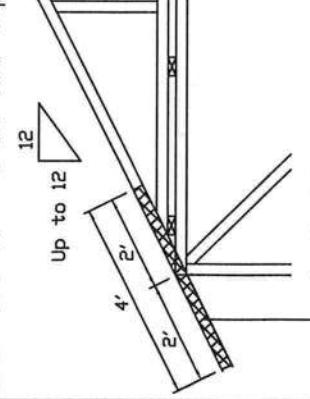
160 mph Wind, 30' Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp C, Wind DL = 5.0 psf (min), Kzt=1.0, Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp D, Wind DL = 5.0 psf (min), Kzt=1.0.

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

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

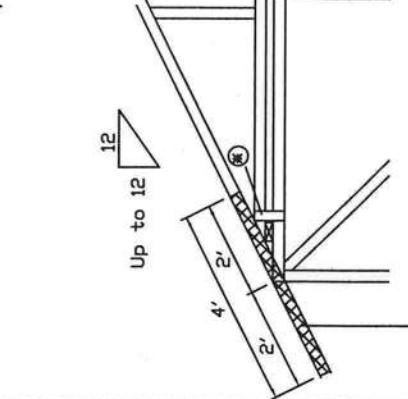
Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Detail A : Purlin Spacing = 24" O.C. Or less



Top Chord Scab (Typical Each End)
Flat top chord purlins required at both ends and at 24" max o.c. spacing in between.

Detail B : Purlin Spacing > 24" O.C.



Top Chord Scab (Typical Each End)
Note! If purlins or sheathing are not specified on the flat top of the joist, purlins must be installed at 24" o.c. max, and use detail A.

WARNING READ AND FOLLOW THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

For more information see this job's general notes page and these web sites:
TPA: www.alpineinc.com TPI: www.tpi.org SCA: www.sca.org

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

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

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3XB Trulox plate attached with (8) 0.120x1.375" 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) 0.120x1.375" nails. Note! Nailing thru holes of wave plate is acceptable.

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

Trulox
Use 3XB Trulox plates for 2x4 chord member, and 3XB Trulox plates for 2x6 and larger chord members. Attach to each face & 8" o.c. with (4) 0.120x1.375" 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"x8x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8" o.c. with (6) 10d box nails (0.113x2") 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 (0.128x3") 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) 0.120x1.375" nails per face per ply. Piggyback plates may be staggered 4" o.c. front to back faces.

REF PIGGYBACK

DATE 01/02/2018

DRWG PB160160118

COA #1278	01/07/2020	SPACING 24.0"
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Piggyback Detail - ASCE 7-16: 180 mph, 30' Mean Hgt, Partially Enclosed, Exp. C, Kzt=1.00

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

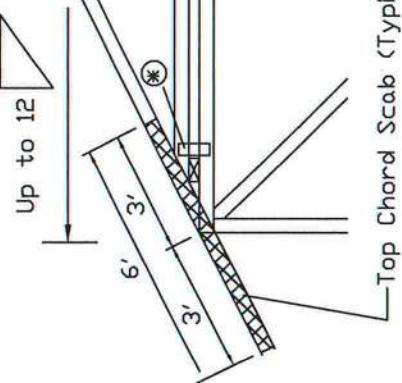
Dr 160 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Part, Enclosed Bldg, located anywhere in roof, Exp. D, Wind DL = 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends. Maximum truss spacing is 24" o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

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

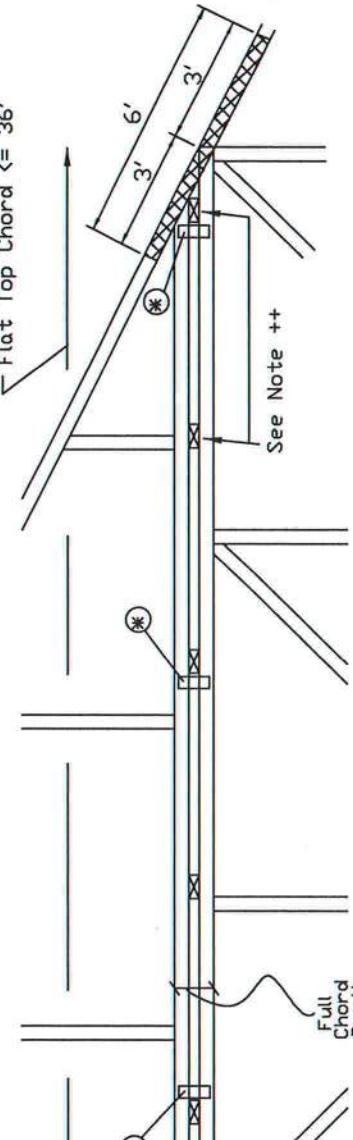
Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5"), and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

12



++ Flat top chord purlins required at both ends and at a maximum of 24' intervals unless otherwise noted on base truss design drawing. Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").

36'



Top Chord Scab (Typical Each End)

* 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) 8d 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 SFF #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.

IMPORTANT READ AND FOLLOW ALL NOTES ON THIS DRAWING FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing, and bracing. Refer to TPI's latest edition of BCSI Glulam Component Safety Information, by TPI and SBCA for safe practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached rigid capping. Locations shown for permanent lateral restraint and bottom chord shear of truss and positions as shown above and on the joint details, unless noted otherwise. Refer to drawings 164-2 or standard plans for further information.
Alpine, a division of JV Building Components Group Inc. shall not be responsible for any damage, personal injury or loss of life resulting from the use of these trusses. A copy of the latest edition of BCSI Glulam Component Safety Information, by TPI and SBCA, indicates acceptance of professional engineering responsibility for the design, manufacture, installation and use of the drawing shown. The authority and 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.alpineinc.com TPI: www.tpi.org SBCA: www.sbcacodes.org

REF PIGGYBACK
DATE 01/02/2018
DRWG PB180160118

See Note ++
Full Chord Depth
12
12



13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

COA 10278 01/07/2020
SPACING 24.0"

Cracked or Broken Member Repair Detail

Load Duration = 0%
Member forces may be increased for Duration of Load

This drawing specifies repairs for a truss with broken chord or web member.

This design is valid only for single ply trusses with 2x4 or 2x6 broken members. No more than one break per chord panel and no more than two breaks per truss are allowed. Contact the truss manufacturer for any repairs that do not comply with this detail.

(B) = Damaged area, 12" max length of damaged section

(L) = Minimum nailing distance on each side of damaged area (B) Two 2x4 or two 2x6 side members, same size, grade, and species as damaged member. Apply one scarf per face. Minimum side member length(s) = $(2xL) + (B)$

Scab member length (S) must be within the broken panel. Nail into 2x4 members using two (2) rows at 4" O.C., rows staggered. Nail into 2x6 members using three (3) rows at 4" O.C., rows staggered. Nail using 10d box or gun nails (0128x3", min) into each side member.

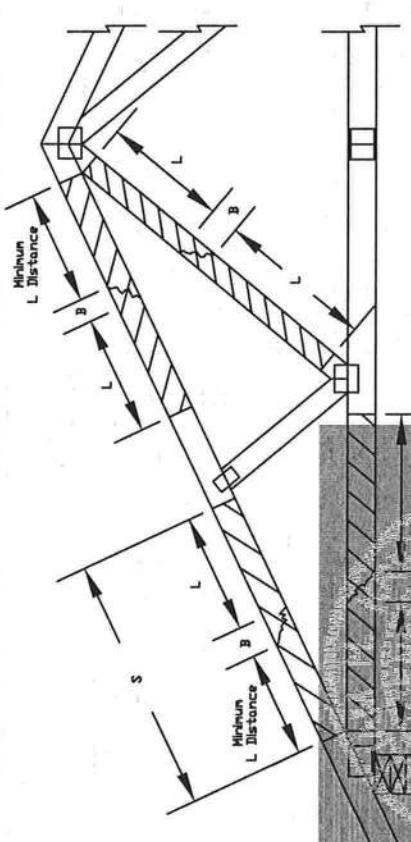
The maximum permitted lumber grade for use with this detail is limited to Visual grade #1 and MSR grade 1650F.

This repair detail may be used for broken connector plate at mid-panel splices.

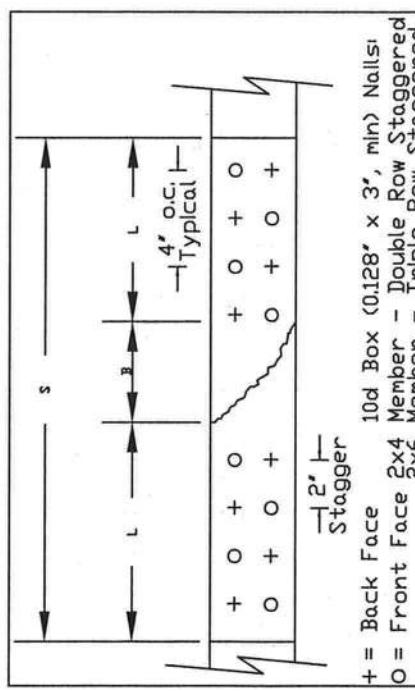
This repair detail may not be used for damaged chord or web sections occurring within the connector plate area.

Broken chord may not support any tie-in loads.

Member	Size	L	SPF-C	HF	DF-L	SYP
Web Only	2x4	12"	620#	635#	730#	800#
Web Only	2x4	18"	975#	1055#	1295#	1415#
Web or Chord	2x4	24"	975#	1055#	1495#	1745#
Web or Chord	2x6	24"	1465#	1585#	2245#	2620#
Web or Chord	2x4	30"	1910#	1960#	2315#	2555#
Web or Chord	2x6	30"	2230#	2365#	3125#	3575#
Web or Chord	2x4	36"	2470#	2530#	2930#	3210#
Web or Chord	2x6	36"	3535#	3635#	4295#	4745#
Web or Chord	2x4	42"	2975#	3045#	3505#	3835#
Web or Chord	2x6	42"	4395#	4500#	5225#	5725#
Web or Chord	2x4	48"	3460#	3540#	4070#	4445#
Web or Chord	2x6	48"	5165#	5280#	6095#	6660#



REF	MEMBER REPAIR
DATE	10/01/14
DRWG	REPCHRD1014
COA	H0278
SPACING	24.0" MAX



+ = Back Face
O = Front Face
2x4 Member = Double Row Staggered
2x6 Member = Triple Row Staggered

Nail Spacing Detail

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING
NEVER FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and practice prior to performing these functions. Installers shall provide temporary bracing per safe practices. Note that top chord shall have a temporary support until the bottom chord is secured. Bottom chord shall have a temporary support until the top chord is secured. Local codes shall apply. Local codes shall have a permanent restraint system for permanent structural supports to prevent lateral movement. Apply plates to all faces of the truss and position as shown above and on the back sheet. Refer to drawings 160a-2 for standard plate positions.
Alpine Components Inc. shall not be responsible for any damage from the failure of trusses installed by failing to follow 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 the Job's General notes page and these site specifications.



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Suite 200

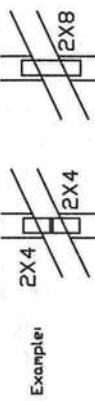
www.alpineinc.com TPI: www.tpi.org SBCA: www.sbcainc.org

Gable Detail For Let-in Verticals

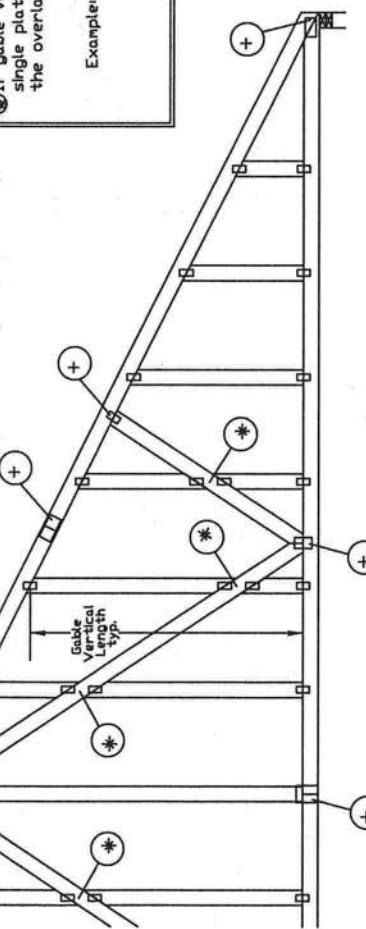
Gable Truss Plate Sizes
Refer to appropriate Alpine Gable detail for minimum plate sizes for vertical studs.

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

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



Example:



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with
End Driven Nails (10d Common (0.148" x 3.75" min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords).

Toenailed Nails:
10d Common (0.148" x 3.75" min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

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

ASCE 7-05 Gable Detail Drawings

A130150501014, A120150501014, A101150501014, A140150501014,
A130300501014, A120300501014, A10300501014, A140300501014
ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,
A18015ENC100118, A20015ENC100118, A220015ENC100118, A24015ENC100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,
A18030ENC100118, A20030ENC100118, A24030ENC100118, S16015ENC100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S22015ENC100118, S24015ENC100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S22030ENC100118, S24030ENC100118

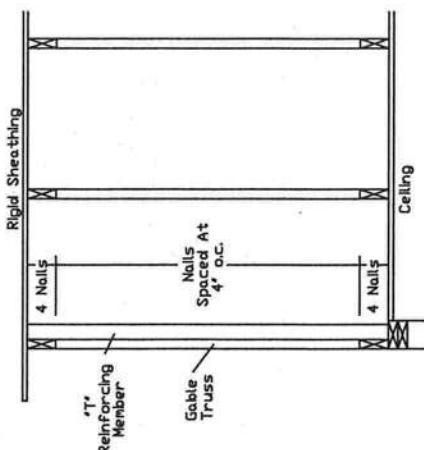
See appropriate Alpine Gable detail for maximum allowable gable vertical length.

WARNING - READ AND FOLLOW ALL NOTES ON THIS DRAWING
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.
Trusses require extreme care in fabrication, handling, shipping, installing, and bracing. Refer to the following for safe practices when erecting these structures. If safe practices are not followed, serious injury or death may result.
Unless noted otherwise, top chord shall have properly attached structural shoring and bracing and shall have a properly attached mid caging. Locations shown for permanent lateral restraint of engineering of truss or joist sections 33, 37 or 310, as applicable. Apply plates to your joints. Refer to drawings 1604-2 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 safe truss in conformance with ANSI/TPI 1, or for handling, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility as safe for the design shown. The authority 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.alpineinc.com ITW: www.itwglobal.com SBCA: www.sbcain.org

REF	LET-IN VERT
DATE	01/02/2018
DRW/G	GBLLETIN0118

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



13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine Gable detail).
Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.
"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.
Web Length Increase w/ "T" BRACE
Example:
ASCE 7-10 Wind Speed = 120 mph Mean Roof Height = 30 ft, Kzt = 1.00 Gable Vertical = 24' o.c. SP #3 "T" Reinforcing Member Size = 2x4 "T" Brace Increase (From Above) = 30% = 1.30 (1) 2x4 "L" Brace Length = 8' 7" Maximum "T" Reinforced Gable Vertical Length 1.30 x 8' 7" = 11' 2"

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

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

$$\begin{aligned} L &= \text{Span of Truss (Inches)} \\ D &= \text{Depth of Truss at Deflection Point (Inches)} \end{aligned}$$

Recommended Truss Deflection Limits

Truss Type	<u>L/D</u>	<u>Deflection Limits</u>
	<u>Live Load</u>	<u>Total Load</u>
Pitched Roof Trusses	24	$L/240$ (vertical)
Floor of Room-In-Attic Trusses	24	$L/360$ (vertical)
Flat or Shallow Pitched Roof Trusses	24	$L/360$ (vertical)
Residential Floor Trusses	24	$L/360$ (vertical)
Commercial Floor Trusses	20	$L/480$ (vertical)
Scissors Trusses	24	$0.75''$ (horizontal)
<u>Truss Type</u>		<u>Recommended Camber</u>
Pitched Trusses	1.00	\times Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.15	\times Vertical Deflection from Actual Dead Load
Floor Trusses	0.25	\times Deflection from Live Load + Actual Dead Load
Flat Roof Trusses	0.25	\times Deflection from Live Load + $(1.5 \times \text{Design Dead Load Deflection})$

Note: The actual dead load may be considerably less than the design dead load.

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING BEFORE FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
 Trusses require extreme care in fabricating, handling, shipping, installing, and bracing. Refer to safe practices section of the latest edition of ICC Building Component Safety Information, by TPI and SBCAI for safety information. Contractors prior to performing the work, shall provide temporary bracing per safe practices section of the latest edition of ICC Building Component Safety Information, by TPI and SBCAI. Contractors shall have a properly attached and callout of the location shown for permanent lateral bracing of the truss. Trusses shall have bracing installed per ANSI sections E3, E7, or E10, as applicable. Apply plates to each face of the truss and position as shown above and on the detail drawings. Refer to drawings 150A-2 for standard plate positions. 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 Sec2. For more information see this job's General notes page and these web sites: ALPINE: www.alpineinc.com; TPI: www.tpi.org; SBCAI: www.sbcainfo.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014



AN ITV COMPANY
 13723 Riverport Drive
 Suite 200
 Maryland Heights, MO 63043

07/07/2020

CLR Reinforcing

Member Substitution

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

Notes:

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

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

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

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

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.



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<p>T-Reinforcement</p> <p>Or</p> <p>L-Reinforcement:</p> <p>Apply to either side of web narrow face. Attach with 10d (0.128" x 3.0", min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.</p>	<p>T-Reinf. or L-Reinf.</p>	<p>T-Reinf.</p> <p>L-Reinf.</p>
<p>Scab Reinforcement:</p> <p>Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128 x 3.0", min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.</p>	<p>Scab Reinforcement:</p> <p>Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128 x 3.0", min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.</p>	<p>Scab Reinf.</p>

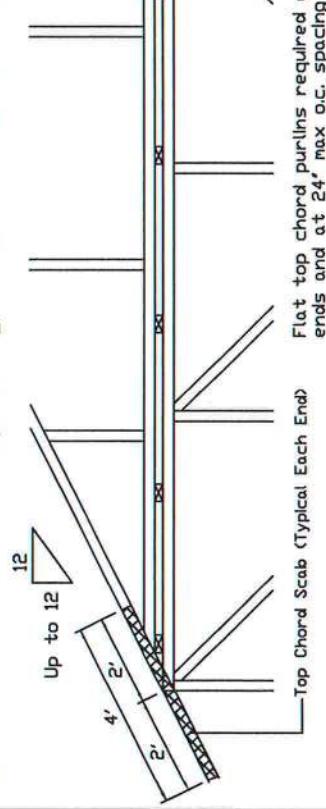
Piggyback Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exposure C, K_{Zt}t=1.00

160 mph Wind, 3000 ft Mean Hgt, ASCE 7-10, Enclosed Bldg, located anywhere in roof, Exp C, Wind Dl= 50 psf (min), K_{Zt}t=1.0, Dr= 140 mph wind, 3000 ft Mean Hgt, ASCE 7-10, Enclosed Bldg, located anywhere in roof, Exp D, Wind Dl= 50 psf (min), K_{Zt}t=1.0.

Note Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends. Maximum truss spacing is 24" o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

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

Detail A : Purlin Spacing = 24" O.C. or less

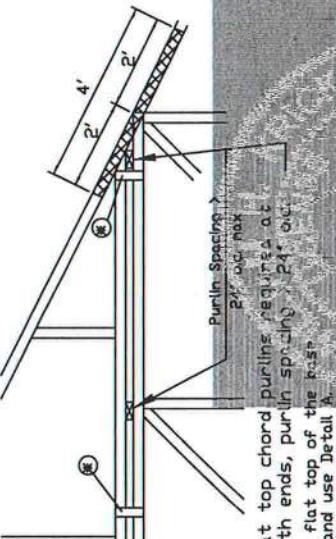


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5"), and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c. Attach purlin bracing to the flat top chord using (2) 16d box nails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

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3x8 Trulox plate attached with (8) 0.120x1.375" nails, (4) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120x1.375" 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 mass truss, purlins must be installed at 24" o.c. max and use Detail A.

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabrication, handling, shipping, installing, and bracing. Refer to and follow the latest edition of ECSI Building Component Safety Information, by TPI and SICCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per code requirements. Unless noted otherwise, top chord shall have properly attached rigid ceiling locations shown for permanent lateral restraint of truss. Unless noted otherwise, top chord shall have bracing installed per ECSI sections 4.5 or 4.6 or 4.7 or 4.8 or 4.9 as shown above on the right detail. Refer to detailing ICC-1002 or ICC-1003 for detailed plan notes.

Alpine, a division of ITW Building Components (Group Inc.) shall not be responsible for any damage to persons or property resulting from the use of these trusses in compliance with these instructions, including but not limited to人身傷害、財産損害等の責任を負いません。A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility 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.alpineinc.com TPI: www.spintac.org SICCA: www.sicca.org

<p>*** In addition, provide connection with one of the following methods:</p> <p>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) 0.120x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4" o.c. front to back faces.</p> <p>APA Rated Gusset 8"x8"x7/16" (min) APA rated sheathing gussets (Gch 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.</p> <p>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.</p> <p>28PB Wave Piggyback Plate One 28PB wave piggyback plate to each face @ 8" o.c. Attach teeth to piggyback at time of fabrication. Attach teeth to supporting truss with (4) 0.120x1.375" nails per face per ply. Piggyback plates may be staggered 4" o.c. front to back faces.</p>

<p>REF PIGGYBACK DATE 10/01/14 DRWG PB160101014</p>
<p>CO. 10278 07/07/2021 SPACING 24.0"</p>