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Alpine, an ITW Company 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025 Phone: (800)755-6001 www.alpineitw.com

Site Information:	Page 1:	
Customer: W. B. Howland Company, Inc.	Job Number: 23-0117	
Job Description: K & A Patel		
Address: LAKE CITY, FL		

Job Engineering Criteria:				
Design Code: FBC 7th Ed. 2020 Res.	IntelliVIEW Version: 21.01.01A through 22.02.00			
	JRef #: 1XTZ2150008			
Wind Standard: ASCE 7-16 Wind Speed (mph): 130	Design Loading (psf): 40.00			
Building Type: Closed				

This package contains general notes pages, 42 truss drawing(s) and 7 detail(s).

Item	Drawing Number	Truss
1	290.23.1335.23140	A01
3	290.23.1320.20507	A03
5	290.23.1320.52553	B02
7	290.23.1326.19090	B04
9	290.23.1329.30167	B06
11	290.23.1329.52910	B08
13	290.23.1331.09760	B10
15	290.23.1331.25750	B12
17	290.23.1331.49400	B14
19	290.23.1333.22907	B16
21	290.23.1333.30520	B18
23	290.23.1333.36093	B20
25	290.23.1333.52913	C01
27	290.23.1334.06250	HJ01
29	290.23.1334.10127	J01
31	290.23.1334.25093	J03
33	289.23.1037.02190	J05
35	290.23.1334.40430	J07
37	290.23.1334.52610	PB02
39	290.23.1335.01713	PB04
41	290.23.1335.06653	V02
43	A14015ENC160118	
45	GBLLETIN0118	
47	PB160160118	
49	VALTN160118	

Item	Drawing Number	Truss
2	290.23.1335.39770	A02
4	290.23.1311.19483	B01
6	290.23.1321.04420	B03
8	290.23.1329.16503	B05
10	290.23.1329.49073	B07
12	290.23.1330.02310	B09
14	290.23.1331.18093	B11
16	290.23.1331.42530	B13
18	290.23.1333.18577	B15
20	290.23.1333.26237	B17
22	290.23.1333.33450	B19
24	290.23.1316.55557	B21
26	290.23.1334.00173	C02
28	290.23.1155.50500	HJ02
30	290.23.1334.12563	J02
32	290.23.1334.27403	J04
34	290.23.1334.30490	J06
36	290.23.1334.49527	PB01
38	290.23.1334.58643	PB03
40	290.23.1335.04720	V01
42	290.23.1335.08810	V03
44	BRCLBSUB0119	
46	A14030ENC160118	
48	VAL180160118	

# **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.

FRT-PR = ProWood Fire Retardant Treated lumber.

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment. W = Width of non-hanger bearing, in inches.

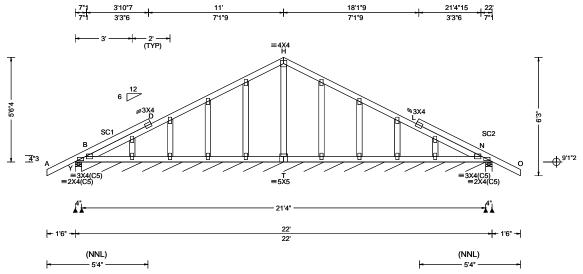
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

# References:

- 1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
- 2. ICC: International Code Council; www.iccsafe.org.
- 3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; <a href="https://www.alpineitw.com">www.alpineitw.com</a>.
- 4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
- 5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

SEQN: 727636 GABL Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T2 FROM: CDM Qty: 1 K & A Patel DrwNo: 290.23.1335.23140 Truss Label: A01 AM / DF 10/17/2023



Loading Criteria (psf) Wind Criteria		Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 D 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.004 D 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.003 L
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.003 L
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.275
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.041
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.058
	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12
Lumber			

▲ Maximum Reactions (lbs), or *=PLF						
Gravity Non-Gravity						
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Υ	290	/-	/-	/172	/53	/177
В*	67	/-	/-	/37	/11	/-
Ν	290	/-	/-	/199	/53	/-
Wir	nd read	ctions b	ased on N	/WFRS		
Υ	Brg V	Vid = 4.	0 Min F	Req = 1.5	(Trus	s)
В	Brg V	Vid = 2	55 Min F	. = eq	•	•
N	Brg V	Vid = 4.	0 Min F	Req = 1.5	(Trus	s)
Bearings Y, B, & N are a rigid surface.						
Mei	mbers	not list	ed have fo	rces les	s than	375#

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

Stack Chord: SC2 2x4 SP #2;

# **Plating Notes**

All plates are 2X4 except as noted.

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

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

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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

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

The overall height of this truss excluding overhang is 5-6-4.



\*\*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 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/TP1 1 Sec. 2.

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

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

SEQN: 727639 COMN Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T1 FROM: CDM Qty: 12 K & A Patel DrwNo: 290.23.1335.39770 Truss Label: A02 AM / DF 10/17/2023 5'9"4 11' 16'2"12 22' 5'9"4 5'2"12 5'2"12 5'9"4 =4X4 D **%2X4** C ⊕<sup>9'1"2</sup> <u>4</u>"3 H ≡3X4 =5X5 =2X10(A1) ≡2X10(A1)

22'

6'11"11

14'5"13

				_
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18	Pg: NA Ct: NA CAT: NA Pf: NA Cs: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	PP Deflection in loc L/defl L/# VERT(LL): 0.049 H 999 240 VERT(CL): 0.100 H 999 180 HORZ(LL): 0.020 F HORZ(TL): 0.039 F Creep Factor: 2.0 Max TC CSI: 0.288 Max BC CSI: 0.554 Max Web CSI: 0.181	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12	l
Lumber			•	_

7'6"3

7'6"3

	A Ma	vimi	ım Da	actions	/lha\		
	A IVIC		ını ke ravity	actions	. ,	on-Grav	vity
)	Loc	R+	/ R-	/ Rh	/ Rw	/U	/ RL
)	B 1	1006	/-	/-	/607	/180	/180
	F 1	1006	/-	/-	/607	/180	/-
	Wind	d read	tions b	oased or	MWFRS		
	В	Brg V	Vid = 4	.0 Mir	Req = 1.	5 (Truss	s)
	F I	Brg V	Vid = 4	.0 Mir	Req = 1.	5 (Truss	s)
	Bear	ings l	B&F	are a rigi	d surface.	•	•
	Mem	bers	not list	ed have	forces les	s than 3	375#
	Maximum Top Chord Forces Per Ply (lbs)						
	Chor	ds T	ens.C	omp.	Chords	Tens.	Ćomp.
	B - C	•	646 .	1510	D-E	648	- 1336
	L . L			1335	F-F	6/6	- 1511

1'6" -

7'6"3

22

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

Wind Wind loads based on MWFRS with additional C&C

member design.

Wind loading based on both gable and hip roof types.

# **Additional Notes**

Top chord: 2x4 SP #2;

The overall height of this truss excluding overhang is

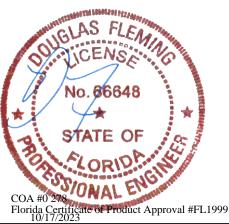
Note: Truss not designed to be installed in reverse orientation. Truss must be installed as shown.

# Maximum Bot Chord Forces Per Ply (lbs)

Cilolus	16113.0	onip.	Cilolus	i ciis. V	Jonnp.
B-I	1288	- 474	H-F	1289	- 450
1 - H	27/	- 221			

### Maximum Web Forces Per Ply (lbs)

Vebs	Tens.Comp.	Webs	Tens. Comp.	
- D	474 - 196	D-H	475 - 195	5



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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: alpineitw.com: TPI: binst.org: SBCA: sbcacomponents.com: ICC: iccsafe.org: AWC: awc.org



SEQN: 727642 COMN Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T3 FROM: CDM Qty: 3 K & A Patel DrwNo: 290.23.1320.20507 Truss Label: A03 AM / DF 10/17/2023 5'9"4 16'2"12 5'9"4 5'2"12 5'2"12 ≡4X4 C <u>4</u>"3 H ≡5X5 G ≡3X4 ≡2X10(B1) =2X10(Å1) 22' 7'6"3 6'11"11 7'6"3 <del>|-</del> 1'6" <del>-|</del> 7'6"3 14'5"13 22

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.049 G 999 240	[
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.099 G 999 180	1
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.019 E	ı
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.039 E	١
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	1
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.319	E
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.559	15
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.189	Ľ
'	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		ľ
	GCpi: 0.18	Plate Type(s):		] -
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12	1
Lumber	•	•		' t

▲ Maxir	num Rea	ctions (	lbs)			
Gravity Non-Gravity						
Loc R+	- /R-	/ Rh	/ Rw	/ U	/ RL	
A 902	. /-	/-	/522	/14	/165	
E 101	0 /-	/-	/607	/26	/-	
Wind re	actions b	ased on	MWFRS			
A Brg	Wid = 4	.0 Min	Req = 1.5	(Trus	s)	
E Brg	Wid = 4	.0 Min	Req = 1.5	(Trus	s)	
Bearing	s A & E a	are a rigio	surface.			
Member	rs not list	ed have t	forces les	s than 3	375#	
Maximu	ım Top (	Chord Fo	rces Per	Ply (lb	s)	
Chords	Tens.Co	omp.	Chords	Tens.	Comp.	
A - B	459 -	1535	C - D	453	- 1344	
B-C	465 -		D-E	447	- 1519	

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

### Wind

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

Wind loading based on both gable and hip roof types.

# **Additional Notes**

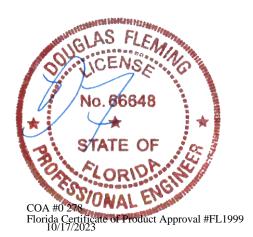
The overall height of this truss excluding overhang is

### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

A - H 1316 - 294 G - E 1296 - 293 H - G 883 - 112

Maximum Web Forces Per Ply (lbs)

Tens.Comp. Tens. Comp. Webs Webs H-C C-G 496 - 141 473 - 126



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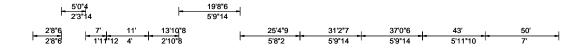
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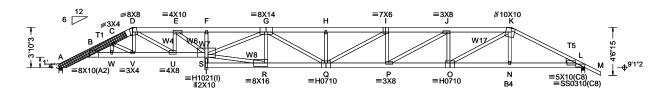
For more information see these web sites: Alpine: alpineitw.com: TPI: binst.org: SBCA: sbcacomponents.com: ICC: iccsafe.org: AWC: awc.org

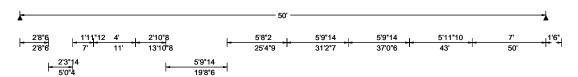
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SEQN: 727832 HIPS Ply: 3 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T19 FROM: CDM Qty: 1 K & A Patel DrwNo: 290.23.1311.19483 Page 1 of 2 Truss Label: B01 AM / DF 10/17/2023









Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.630 G 943 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 1.260 G 471 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.221 L
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.442 L
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.571
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.558
Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.648
	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS, 18SS	VIEW Ver: 22.02.00.0914.12

### Lumber

Top chord: 2x6 SP 2400f-2.0E; T1 2x8 SP 2400f-2.0E; T5 2x4 SP #2; Bot chord: 2x6 SP 2400f-2.0E; B4 2x6 SP #2; Webs: 2x4 SP #3; W4,W6,W17 2x4 SP #2; W7, W8 2x4 SP M-31 Rt Wedge: 2x6 SP #2;

### Nailnote

Nail Schedule:0.131"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @12.00" o.c. : 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.

# **Plating Notes**

All plates are 2X4 except as noted.

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

# Tray Scab(s)

(2) 2x8x7-1-9 x SP 2400f-2.0E scabs at left end. Attach one scab to each outer face of chord with: 0.131"x3", min. nails @ 8" oc, Plus additional nail clusters at: BRG.: (5), heel: (10), 1st panel point: (6).

### **Purlins**

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

### Wind

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

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

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

1427 - 6413 B - C 1097 - 5028 H - I 1427 - 6413 C-D 1118 - 5122 I-J 1328 - 5991 D-E 1387 - 6304 J - K 1086 - 4917 E-F 1746 - 7839 - 3519 K-L 766 F-G 1724 - 7739

Chords Tens.Comp.

Loc R+

5133 /-

5085 /-

Α

▲ Maximum Reactions (lbs) Gravity

/Rh

Brg Wid = 4.0 Min Req = 2.0 (Truss)

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

/-

Wind reactions based on MWFRS Brg Wid = 4.0

Bearings A & L are a rigid surface.

Non-Gravity

/1137 /-

/1106 /-

Tens. Comp.

/ RL

/Rw /U

Min Reg = 1.8 (Truss)

Chords

# **Additional Notes**

# Maximum Bot Chord Forces Per Ply (lbs)

Choras	rens.comp.	Choras	rens. v	comp.	
B-W	5269 - 1149	Q-P	6032	- 1342	
W - V	5214 - 1137	P-0	4993	- 1108	
V - U	4704 - 1026	O - N	3138	- 676	
U-S	6454 - 1426	N - L	3128	- 677	
R - Q	6203 - 1381				

### Maximum Web Forces Per Ply (lbs)

Tens.Comp.	Webs	Tens. Comp.
212 - 938	S-G	1700 - 383
132 - 611	R-G	299 - 1062
660 - 94	Q - I	444 - 100
1865 - 420	I-P	163 - 470
317 - 1207	P-J	1171 - 258
1767 - 409	J-0	264 - 894
5964 - 1325	O - K	2062 - 475
	212 - 938 132 - 611 660 - 94 1865 - 420 317 - 1207 1767 - 409	212 -938 S - G 132 -611 R - G 660 -94 Q - I 1865 -420 I - P 317 -1207 P - J 1767 -409 J - O



\*\*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.

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

SEQN: 727832 HIPS Ply: 3 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T19 DrwNo: 290.23.1311.19483 FROM: CDM Qty: 1 K & A Patel Page 2 of 2 Truss Label: B01 AM / DF 10/17/2023

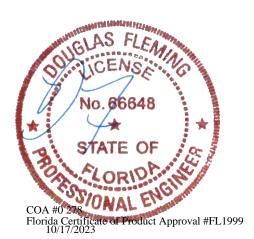
# **Special Loads**

-(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From TC: From TC: From 62 plf at 0.00 to 62 plf at 15.06 31 plf at 62 plf at 20 plf at 10 plf at 31 plf at 62 plf at 20 plf at 15.06 to 43.00 51.50 43.00 to BC: From 2.70 to 13.88 BC: From 13.88 to 10 plf at 42.97 BC: From 20 plf at 42.97 to 20 plf at 50.00 TC: 206 lb Conc. Load at 7.03
TC: 206 lb Conc. Load at 4.06,17.06,19.06,21.06
TC: 187 lb Conc. Load at 15.06,17.06,19.06,21.06 51.50 23.06,25.00,26.94,28.94,30.94,32.94,34.94,36.94

38.94,40.94 TC: 434 lb Conc. Load at 42.97 BC: 363 lb Conc. Load at 7.03

BC: 103 lb Conc. Load at 9.06,11.06,13.06 129 lb Conc. Load at 15.06,17.06,19.06,21.06 23.06,25.00,26.94,28.94,30.94,32.94,34.94,36.94 38.94,40.94

BC: 503 lb Conc. Load at 42.97



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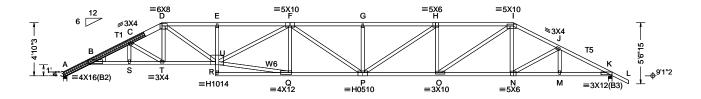
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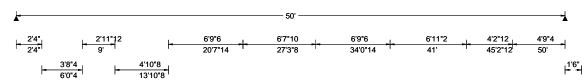




SEQN: 727677 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T8 FROM: CDM Qty: 1 DrwNo: 290.23.1320.52553 K & A Patel Truss Label: B02 AM / DF 10/17/2023







Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.619 F 959 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 1.254 F 473 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.247 K
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.500 K
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.609
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.527
Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.806
	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 22.02.00.0914.12

# Lumber

Top chord: 2x4 SP M-31; T1 2x6 SP 2400f-2.0E; T5 2x4 SP #2: Bot chord: 2x4 SP M-31; Webs: 2x4 SP #3; W6 2x4 SP M-31; Lt Wedge: 2x6 SP #2;

# **Plating Notes**

All plates are 2X4 except as noted.

### Tray Scab(s)

(2) 2x6x8-3-14 x SP 2400f-2.0E scabs at left end. Attach one scab to each outer face of chord with: 0.131"x3", min. nails @ 8" oc, Plus additional nail clusters at: BRG.: (5), heel: (8), 1st panel point: (3).

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

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

Wind loading based on both gable and hip roof types.

### **Additional Notes**

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

The overall height of this truss excluding overhang is 4-10-3.

•, •	Ot. 147 t	O,	I Donoon	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- C	,		
IΑ		Ce: NA	VERT(LL):	0.619	F	959	240	l
۱A	Cs: NA		VERT(CL):	1.254	F	473	180	l
v Dur	ation: NA		HORZ(LL):			-	-	
			HORZ(TL):	0.500	Κ	-	-	
ling C	ode:		Creep Facto					
		-	l					ı

Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 2019 /-/1108 /395 /151 2152 /-/-/1232 /398 /-Wind reactions based on MWFRS Brg Wid = 4.0Min Reg = 2.1 (Truss) Brg Wid = 4.0 Min Req = 1.8 (Truss) Bearings A & 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. 1904 - 5537 366 - 894 B - C 1730 - 5242 G-H 1904 - 5537 C-D 1630 - 4737 H - I 1726 - 4826 D-E 2115 - 5952 1287 - 3729 I - J E-F 2101 - 5912 J - K 1250 - 3945

▲ Maximum Reactions (lbs)

# Maximum Bot Chord Forces Per Plv (lbs)

Chords	Tens.Comp.	Chords	Tens.	Comp.
Q-P	5415 - 1667	N - M	3457	- 1027
P - O	4882 - 1539	M - K	3456	- 1024
O - N	3296 - 975			

# Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. (	Comp.
B-S	5121 - 1574	U - F	588	- 264
S - T	5115 - 1573	Q-F	361	- 786
C - T	412 - 1108	G-P	218	- 401
D - T	627 - 157	P - H	794	- 286
D - U	2109 - 773	H-0	435	- 890
T - U	4199 - 1272	O - I	1841	- 645
U - Q	5335 - 1643			



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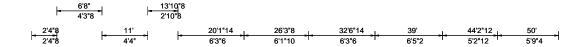
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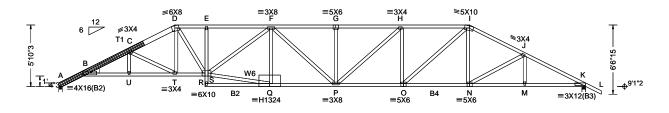
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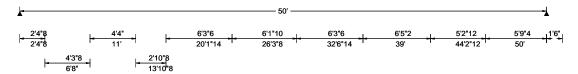
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SEQN: 727680 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T16 FROM: CDM DrwNo: 290.23.1321.04420 Qty: 1 K & A Patel Truss Label: B03 AM / DF 10/17/2023







Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.541 F 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 1.095 F 542 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.244 K
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.495 K
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.891
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.776
Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.978
	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 22.02.00.0914.12

### Gravity Non-Gravity Loc R+ /Rh /Rw /U 2018 /-/1127 /393 /179 2152 /-/-/1252 /395 /-Wind reactions based on MWFRS Brg Wid = 4.0Min Reg = 2.1 (Truss) Brg Wid = 4.0 Min Req = 1.8 (Truss) Bearings A & 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. 1606 - 4558 - 893 B - C 1629 - 5100 G-H 1606 - 4558 C-D 1473 - 4336 H - I 1507 - 4139 - 3581

▲ Maximum Reactions (lbs)

### Lumber

Top chord: 2x4 SP #2; T1 2x6 SP 2400f-2.0E; Bot chord: 2x4 SP M-31; B2,B4 2x4 SP #2; Webs: 2x4 SP #3; W6 2x4 SP #2; Lt Wedge: 2x6 SP #2;

# **Plating Notes**

All plates are 2X4 except as noted.

# Tray Scab(s)

(2) 2x6x9-0-8 x SP 2400f-2.0E scabs at left end. Attach one scab to each outer face of chord with: 0.131"x3", min. nails @ 8" oc, Plus additional nail clusters at: BRG.: (5), heel: (8), 1st panel point: (3).

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

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

Wind loading based on both gable and hip roof types.

### **Additional Notes**

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

The overall height of this truss excluding overhang is



COA #0 278 Florida Certificate of Product Approval #FL1999 10/17/2023

### D-E 1641 - 4590 I-J 1234 E-F 1633 - 4567 J - K 1226 - 3952

### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. R-U 4929 - 1462 P - O 4178 - 1276 U - T 4924 - 1461 O - N 3143 - 893 T - R 3804 - 1092 N - M 3457 - 1002 Q-P 4400 - 1326 M - K 3458 - 1000

# Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Ťens. (	Comp.
C - T	459 - 1275	P - H	513	- 197
D - T	536 - 139	H - O	387	- 753
D - R	1383 - 536	0-1	1327	- 484
R-Q	4332 - 1307	I - N	385	- 31
0 - F	314 - 683			

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

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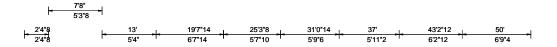
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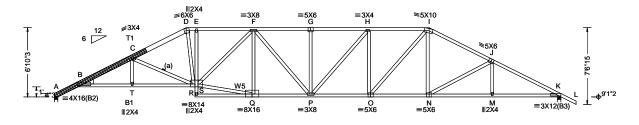
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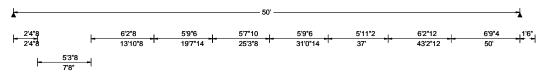
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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

SEQN: 727684 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T5 FROM: CDM K & A Patel DrwNo: 290.23.1326.19090 Qty: 1 Truss Label: B04 AM / DF 10/17/2023







Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
1.0220.00		Pf: NA Ce: NA	VERT(LL): 0.483 F 999 240
DCLL. 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.978 F 607 180
10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.259 K
Dec 1 d · 10 00	EXP: C Kzt: NA		HORZ(TL): 0.525 K
INCECT L. 40 00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
0.46.1	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.682
	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.950
Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.831
'	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

### Lumber

Top chord: 2x4 SP #2; T1 2x6 SP 2400f-2.0E; Bot chord: 2x4 SP #2; B1 2x4 SP M-31; Webs: 2x4 SP #3; W5 2x4 SP #2; Lt Wedge: 2x6 SP #2;

# **Bracing**

(a) Continuous lateral restraint equally spaced on member

### Tray Scab(s)

(2) 2x6x10-1-15 x SP 2400f-2.0E scabs at left end. Attach one scab to each outer face of chord with: 0.131"x3", min. nails @ 8" oc, Plus additional nail clusters at: BRG.: (5), heel: (7), 1st panel point: (3).

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

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

Wind loading based on both gable and hip roof types.

### **Additional Notes**

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

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

Chords Tens.Comp. B - C

C-D

D-E

E-F

349 - 893 1399 1502 - 4886 G-H 1399 1355 - 3987 H - I 1343 - 3630 1336 - 3747 1178 I - J

Brg Wid = 4.0 Min Req = 2.5 (Truss)

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Non-Gravity

/RL

/207

Tens. Comp.

1197

- 3868

- 3868

- 3429

- 3939

/Rw /U

/1145 /391

/1270 /393

Min Reg = 2.1 (Truss)

Chords

J - K

▲ Maximum Reactions (lbs) Gravity

/Rh

/-

Wind reactions based on MWFRS Brg Wid = 4.0

Bearings A & K are a rigid surface.

1332 - 3729

/R

Loc R+

2018 /-

2152 /-

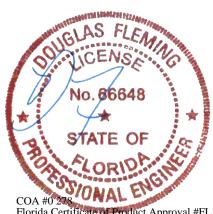
Α

# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. (	Comp.
B - T	4654 - 1336	O - N	2990	- 809
T - R	4654 - 1337	N - M	3436	- 966
Q-P	3690 - 1070	M - K	3438	- 964
P - O	3657 - 1070			

# Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. (	Comp.
C-R	434 - 1279	H - O	338	- 612
D - R	1434 - 512	0-1	967	- 371
R - Q	3680 - 1062	I - N	440	- 43
Q-F	279 - 633	N - J	198	-512



Florida Certificate of Product Approval #FL1999 10/17/2023

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

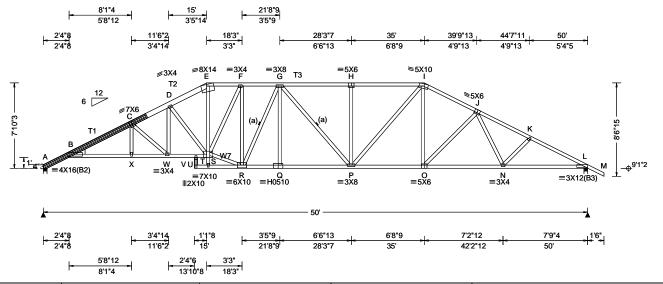
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.426 S 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.863 S 688 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.241 L
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.489 L
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.726
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.641
Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.736
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 22.02.00.0914.12

### Lumber

Top chord: 2x4 SP #2; T1 2x6 SP 2400f-2.0E; T2 2x6 SP #2; T3 2x4 SP M-31; Bot chord: 2x4 SP M-31; Webs: 2x4 SP #3; W7 2x4 SP #2; Lt Wedge: 2x6 SP #2;

### Bracing

(a) Continuous lateral restraint equally spaced on member.

# **Plating Notes**

All plates are 2X4 except as noted.

### Trav Scab(s)

(2) 2x6x10-7-13 x SP 2400f-2.0E scabs at left end. Attach one scab to each outer face of chord with: 0.131"x3", min. nails @ 8" oc, Plus additional nail clusters at: BRG.: (5), heel: (7), 1st panel point: (2).

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

### Wind

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

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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

The overall height of this truss excluding overhang is

# No. 66648

COA #0 278 Florida Certificate of Product Approval #FL1999 10/17/2023

		G	ravity		INC	m-Giav	/ILY
)	Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
)	Α :	2018	/-	/-	/1159	/83	/235
	L :	2152	/-	/-	/1284	/124	/-
	Win	d reac	tions bas	sed on	MWFRS		
					Req = 2.1		
		•			Req = 1.8	3 (Truss	s)
	Bea	rings /	A & L are	a rigio	d surface.		
	Men	nbers	not listed	have	forces less	s than 3	375#
	Max	imum	Top Ch	ord F	orces Per	Ply (lb:	s)
	Cho	rds T	ens.Con	np.	Chords	Tens.	Comp.
	A - E	3	339 -8	393	G-H	1246	- 3318
	B - 0	2	1427 - 47	798	H - I	1247	- 3318
	C - [	)	1372 - 42	254	I - J	1130	- 3233
	D - E	Ξ	1288 - 37	759	J - K	1161	- 3767
	E - F	=	1186 - 33	339	K-L	1173	- 3967
	F - 0	3	1162 - 30	187			

Non Gravity

▲ Maximum Reactions (lbs)

	Tens.Comp.	Chords	• • •	
B - X	4549 - 1249	Q-P	3297	- 903
X - W	4544 - 1248	P-0	2833	- 724
W - U	3693 - 1006	O - N	3179	- 860
U - S	3652 - 992	N - L	3475	- 954
R - Q	3297 - 903			

Maximum Bot Chord Forces Per Ply (lbs)

### Maximum Web Forces Per Ply (lbs) Tens. Comp. Tens.Comp. Webs Webs C - W - 589 336 - 1135 194 W - D 329 570 - 435 - 134 H - P D - S P - I 246 - 607 730 - 297 I - O 1382 E-S - 428 538 -90 S - F 555 - 97 O - J 211 - 502 S - R 3260 - 871 J-N 380 - 14 F-R 164 - 589

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

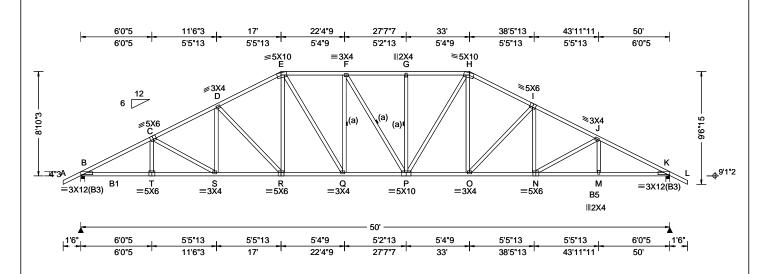
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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

SEQN: 727779 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T45 FROM: CDM Qty: 1 K & A Patel DrwNo: 290.23.1329.30167 Truss Label: B06 AM / DF 10/17/2023



Ī	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
1	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
1	TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.291 G 999 240
1	BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.593 G 999 180
1	BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.113 K
1	Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.230 K
1	NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
1	Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.568
1		MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.874
1	Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.787
1		Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
1		GCpi: 0.18	Plate Type(s):	
		Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; B1,B5 2x4 SP M-31;

Webs: 2x4 SP #3;

### Bracing

(a) Continuous lateral restraint equally spaced on member.

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

# Wind

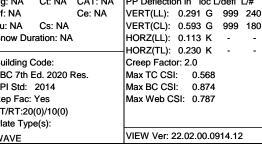
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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

The overall height of this truss excluding overhang is 8-10-3.



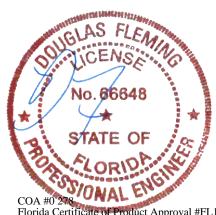
▲ Maximum Reactions (lbs)							
		Gravity		Non-Gravity			
)	Loc R+	- / R-	/ Rh	/ Rw	/ U	/ RL	
)	B 215	9 /-	/-	/1300	/66	/277	
	K 215	9 /-	/-	/1300		/-	
	Wind re	actions b	ased on	MWFRS			
	B Brg	Wid = 4	.0 Min	Req = 1.8	(Truss	s)	
	K Brg	Wid = 4	.0 Min	Req = 1.8	(Truss	s)	
	Bearing	sB&Ka	are a rigio	d surface.			
	Member	rs not list	ed have	forces less	than 3	375#	
	Maximu	ım Top (	Chord Fo	orces Per	Ply (lb:	s)	
	Chords	Tens.Co	omp.	Chords	Tens.	Ćomp.	
_	B-C	1122 -	3968	G-H	1124	- 2950	
_	C-D	1117 -		H-I	1077		
	D-E	1077 -	3074	I - J	1117	- 3562	
	E-F	1119 -	2943	J - K	1122	- 3967	
	F-G	1124 -	2950				

# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.	
B - T	3470 - 916	P-0	2679 - 641	_
T-S	3469 - 918	O - N	3107 - 801	
S - R	3109 -815	N - M	3469 - 904	
R - Q	2678 - 655	M - K	3470 - 902	
Q-P	2954 - 755			

# Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs `	Tens. (	Comp.
C-S	127 - 402	P-H	509	- 232
S - D	388 -14	H-O	575	- 117
D-R	236 - 635	O - I	235	- 631
E-R	572 - 119	I - N	385	- 16
E-Q	506 - 227	N - J	128	- 404



Florida Certificate of Product Approval #FL1999

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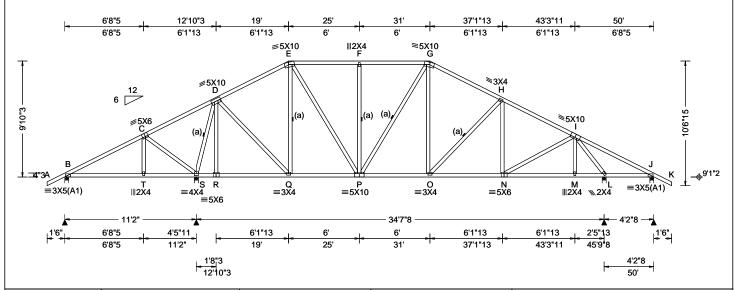
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 727781 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T40 FROM: CDM Qty: 1 K & A Patel DrwNo: 290.23.1329.49073 Truss Label: B07 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.056 O 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.115 O 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.022 L
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.044 L
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.531
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.459
Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.696
	Loc. from endwall: not in 13.00 ft		
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

Lumber	

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

(a) Continuous lateral restraint equally spaced on member.

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

### Wind

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

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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

The overall height of this truss excluding overhang is 9-10-3.

Snow Cri	Snow Criteria (Pg,Pf in PSF)			DefI/CSI Criteria				
Pg: NA	Ct: NA	CAT: NA	PP Deflection	on in loc L	/defl	L/#		
Pf: NA		Ce: NA	VERT(LL):	0.056 O	999	240	١.	
Lu: NA	Cs: NA		VERT(CL):	0.115 O	999	180		
Snow Dur	ation: NA		HORZ(LL):	0.022 L	-	-		
			HORZ(TL):	0.044 L	-	-		
Building C	ode:		Creep Facto	or: 2.0				
FBC 7th E	d. 2020 I	Res.	Max TC CSI: 0.531					
TPI Std:	2014		Max BC CS	I: 0.459				
Rep Fac:	Yes		Max Web C	SI: 0.696				
FT/RT:20	(0)/10(0)						l	
Plate Type	e(s):							

	▲ N	▲ Maximum Reactions (lbs)						
	Gravity				Non-Gravity			
	Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	В	458	/-	/-	/258	/19	/305	
	s	2073	/-	/-	/1269	/66	/-	
	L	1746	/-	/-	/1083	/46	/-	
	J	221	/-86	/-	/115	/52	/-	
	Wii	nd read	tions ba	sed on I	<b>MWFRS</b>			
	В	Brg V	/id = 4.0	) Min f	Req = 1.5	(Trus	s)	
	S	Brg V	/id = 4.0	) Min f	Req = 2.1	(Trus	s)	
	L	Brg V	/id = 4.0	) Min f	Req = 1.7	(Trus	s)	
	J	Brg V	/id = 4.0	) Min f	Req = 1.5	(Trus	s)	
_	Bea	arings I	3, S, L,	& Jare a	rigid surf	ace.		
	Ме	mbers	not liste	d have fo	orces less	than	375#	
	Ma	ximum	Top C	nord Fo	rces Per	Ply (lk	os)	
	Ch	ords T	ens Co	mn (	Chords	Tens	Comp	

Chords	Tens.Comp.	Chords	Tens. Comp.
C-D	450 - 73	G-H	606 - 1397
D-E	473 - 964	H - I	550 - 1554
E-F	608 - 1133	I - J	544 - 110
	000 4400		

Maximum Bot Chord Forces Per Ply (lbs)						
Chords	Tens.C	omp.	Chords	Tens. (	Comp.	
Q-P	785	-81	N - M	776	- 153	
P - O	1171	- 193	M - L	775	- 154	

O - N	1315 - 278	L-J	197	- 418
	um Web Forc Tens.Comp.	•	(lbs) Tens.	Comp.
C-S	170 - 553	E-P	665	- 266

525 - 1731

- 255

959

244 - 556 F-P

N - I

294

640

548

- 380

- 138

- 1972

S-D

D - Q

E - Q



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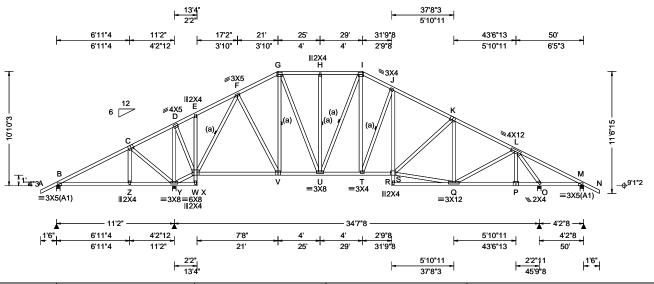
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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

SEQN: 727783 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T46 FROM: CDM Qty: 1 K & A Patel DrwNo: 290.23.1329.52910 Truss Label: B08 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.067 R 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.137 R 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.032 O
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.066 O
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.542
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.578
Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.943
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

### Lumber

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

### **Bracing**

(a) Continuous lateral restraint equally spaced on

# **Plating Notes**

All plates are 5X6 except as noted.

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

### Wind

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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

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

	Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria				١.
	Pg: NA Ct: NA CA	T: NA	PP Deflection	on in loc L	./defl	L/#	١.
	Pf: NA Ce	: NA	VERT(LL):	0.067 R	999	240	!
	Lu: NA Cs: NA		VERT(CL):	0.137 R	999	180	ı
	Snow Duration: NA		HORZ(LL):	0.032 O	-	-	١,
			HORZ(TL):	0.066 O	-	-	•
	Building Code:		Creep Facto	or: 2.0			1
	FBC 7th Ed. 2020 Res.		Max TC CSI	l: 0.542			ľ
	TPI Std: 2014		Max BC CS	l: 0.578			
	Rep Fac: Yes		Max Web C	SI: 0.943			١.
ft	FT/RT:20(0)/10(0)						ľ
	Plate Type(s):						ľ
	WAVE		VIEW Ver: 2	22.02.00.0	914.12	2	li

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 432 /-/209 /333 2149 /-/-/1338 /64 /-0 1797 /1127 /45 /-147 /-/59 /-М 187 /83 Wind reactions based on MWFRS Brg Wid = 4.0 Min Req = 1.5 (Truss) Brg Wid = 4.0 Min Req = 2.2 (Truss) Brg Wid = 4.0Min Req = 1.7 (Truss) Min Req = 1.5 (Truss) Brg Wid = 4.0Bearings B, Y, O, & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

# Tens. Comp. Chords Tens.Comp. Chords

C - D	541 - 90	I - J	620	- 1308
F-G	503 - 1021	J - K	595	- 1545
G - H	563 - 1058	K-L	494	- 1480
H - I	563 - 1058	L - M	659	- 137

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.C	Comp.	Chords	Tens. 0	Comp.
W - V	652	- 61	Q-P	613	- 100
V - U	861	- 55	P-0	612	- 101
U - T	1123	- 129	O - M	217	- 525
T - R	1308	- 210			

T - R	1308 - 210			
	um Web Forces		•	_
webs	Tens.Comp.	Webs	I ens.	Cor

MIGAIIII	TILL AACD I OLCES	, , <del>,</del> , , , , , ,	ivə <i>j</i>	
Webs	Tens.Comp.	Webs	Tens.	Comp.
C-Y	164 - 537	I-T	541	- 177
Y - D	374 - 1493	T - J	241	- 551
Y - W	316 - 493	R - Q	1243	- 233
D - W	1218 - 264	K-Q	182	- 462
W - F	367 - 1225	Q-L	750	- 146
F-V	480 - 75	L-0	533	- 1982
G - U	515 - 237			



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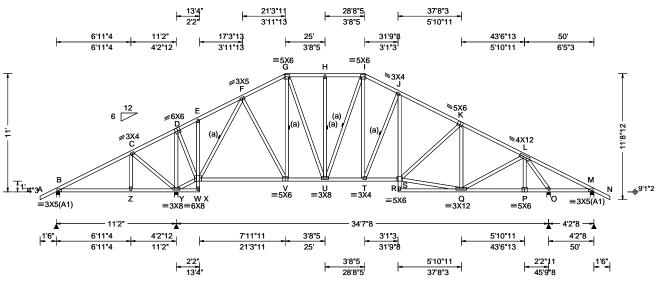
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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

SEQN: 727796 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T44 FROM: CDM Qty: 1 K & A Patel DrwNo: 290.23.1330.02310 Truss Label: B09 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Ī
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.067 R 999 240	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.137 R 999 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.032 O	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.066 O	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.542	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.618	
Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.942	
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		l
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12	

### Lumber

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

# **Bracing**

(a) Continuous lateral restraint equally spaced on

# **Plating Notes**

All plates are 2X4 except as noted.

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

### Wind

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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

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



Gravity Loc R+ /R- /Rh  B 431 /- /- Y 2150 /- /- O 1796 /- /- M 187 /-147 /-	Non-Gra	vity / RL
B 431 /- /- Y 2150 /- /- O 1796 /- /-	/Rw /U	/RI
Y 2150 /- /- O 1796 /- /-		, ,,,
O 1796 /- /-	/207 /40	/338
	/1342 /-	/-
M 187 /-147 /-	/1128 /-	/-
	/77 /63	/-
Wind reactions based on MV	WFRS	
B Brg Wid = 4.0 Min Re	eq = 1.5 (Trus	s)
Y Brg Wid = 4.0 Min Re	eq = 2.2 (Trus	s)
O Brg Wid = 4.0 Min Re	eq = 1.7 (Trus	s)
M Brg Wid = 4.0 Min Re	eq = 1.5 (Trus	s)
Bearings B, Y, O, & M are a	rigid surface.	-
Members not listed have for	ces less than	375#
Maximum Top Chord Force	es Per Ply (lh	le)

Chords	Tens.Comp.	Chords	Tens. Comp.
C-D	541 - 78	I-J	289 - 1292
F-G	226 - 1033	J-K	277 - 1546
G-H	238 - 1039	K-L	270 - 1480
H - I	238 - 1039	L - M	658 - 37

Maximum Bot Chord Forces Per Ply (lbs)							
Chords	Tens.C	omp.	Chords	Tens. (	Comp.		
W - V	665	- 25	Q-P	614	- 43		
V - U	869	0	P - O	613	- 44		
U - T	1105	0	O - M	129	- 523		
T-R	1309	0					

Maximum Web Forces Per Ply (lbs)						
Webs	Tens.Comp.	Webs	Tens. (	Comp.		
C-Y	165 - 541	I - T	546	- 209		
Y - D	101 - 1490	T - J	268	- 556		
Y - W	244 - 493	R-Q	1244	- 32		
D - W	1222 - 21	K-Q	65	- 461		
14/ E	70 4005	0 1	750	^		

L - O

0

F-V

G-U

458

484

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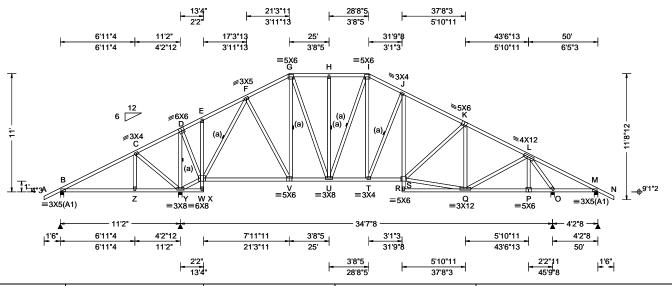
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269 - 1982

SEQN: 727805 COMN Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T43 FROM: CDM Qty: 3 DrwNo: 290.23.1331.09760 K & A Patel Truss Label: B10 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	l
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.071 R 999 240	١
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.140 R 999 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.035 O	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.069 O	
NCBCLL: 10.00	Mean Height: 15.32 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.545	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.796	
Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.643	
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		l
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12	

### Lumber

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

### **Bracing**

(a) Continuous lateral restraint equally spaced on

# **Plating Notes**

All plates are 2X4 except as noted.

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

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

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

Wind loading based on both gable and hip roof types.

### Additional Notes

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

### ▲ Maximum Reactions (lbs) Gravity Non-Gravity /Rw /U Loc R+ /Rh /RL В 414 /-/207 /338 2299 /-/-/1348 /-/-0 1825 /1133 /-180 /-153 /-/-М /77 /64 Wind reactions based on MWFRS Brg Wid = 4.0 Min Req = 1.5 (Truss) Brg Wid = 4.0Min Req = 2.3 (Truss) Brg Wid = 4.0Min Req = 1.8 (Truss) Min Req = 1.5 (Truss) Brg Wid = 4.0Bearings B, Y, O, & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.	
C-D	579 - 78	I - J	289 - 1334	
F-G	225 - 1109	J - K	276 - 1586	
G - H	237 - 1082	K-L	270 - 1509	

F-G	225 - 1109	J - K	-	- 1586
G - H	237 - 1082	K-L	270	- 1509
H - I	237 - 1082	L - M	672	- 37
			<b>-</b>	

Chords			Chords		
W - V	717	- 23	Q-P	620	- 44
V - U	937	0	P - O	620	- 45
U - T	1143	0	O - M	129	- 536
T - R	1345	0			

Maximum	Web	<b>Forces</b>	Per	Ply (	(lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
C-Y	166 - 542	1 - T	552 - 211	_
Y-D	100 - 1632	T - J	270 - 551	
Y - W	245 - 504	R - Q	1269 - 31	
D - W	1348 - 20	K-Q	64 - 476	
W-F	78 - 1290	Q-L	771 0	
F-V	495 0	L-0	270 - 2016	
G - U	412 - 42			



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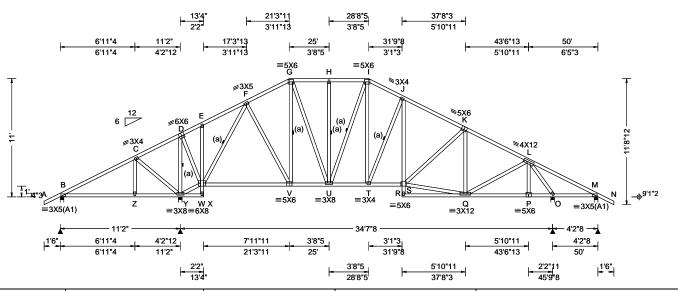
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SEQN: 727813 COMN Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T20 FROM: CDM Qty: 3 DrwNo: 290.23.1331.18093 K & A Patel Truss Label: B11 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.071 R 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.140 R 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.035 O
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.069 O
NCBCLL: 10.00	Mean Height: 15.32 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.545
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.796
Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.643
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

# Lumber

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

### Bracing

(a) Continuous lateral restraint equally spaced on

# **Plating Notes**

All plates are 2X4 except as noted.

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

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

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

Wind loading based on both gable and hip roof types.

### Additional Notes

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### ▲ Maximum Reactions (lbs) Gravity Non-Gravity /Rw /U Loc R+ /Rh /RL В 414 /-/207 /338 2299 /-/-/1348 /-/-1825 /1133 /-180 /-153 /-/-М /77 /64 Wind reactions based on MWFRS Brg Wid = 4.0 Min Req = 1.5 (Truss) Brg Wid = 4.0 Min Req = 2.3 (Truss) Brg Wid = 4.0Min Req = 1.8 (Truss) Min Req = 1.5 (Truss) Brg Wid = 4.0Bearings B, Y, O, & M are a rigid surface. Members not listed have forces less than 375#

maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.	Chords	Tens. Comp.			
C-D	579 - 78	I - J	289 - 1334			
F-G	225 - 1109	J - K	276 - 1586			

G - H 237 - 1082 K - L 270 - 1509 H - I 237 - 1082 L - M 672 - 37
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### Maximum Bot Chord Forces Per Ply (lbs) Charde Tene Comp Chords

Onlordo	rono.comp. c		Onlordo	rono. Comp.	
W - V	717	-23	Q-P	620	- 44
V - U	937	0	P - O	620	- 45
U - T	1143	0	O - M	129	- 536
T-R	1345	0			

# Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens.	Comp.
C - Y	166 - 542	1 - T	552	- 211
Y - D	100 - 1632	T-J	270	- 551
Y - W	245 - 504	R-Q	1269	- 31
D - W	1348 - 20	K-Q	64	- 476
W-F	78 - 1290	Q-L	771	0
F-V	495 0	L-0	270	- 2016
G-U	412 - 42			



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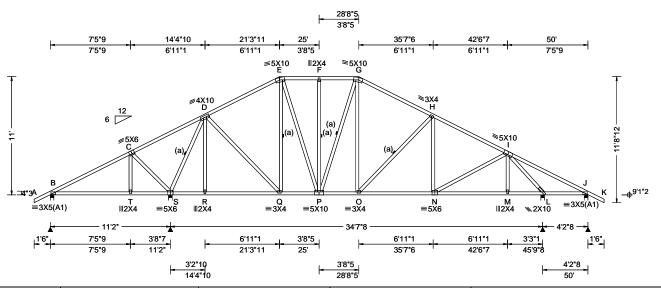
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SEQN: 727722 COMN Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T22 FROM: CDM K & A Patel DrwNo: 290.23.1331.25750 Qty: 1 Truss Label: B12 AM / DF 10/17/2023



Loading Crite	eria (psf)	Wind Criteria	Snow Cri	<b>teria</b> (Pg	,Pf in PSF)	Defl/CSI Cri	iteria		
TCLL: 20.0	00	Wind Std: ASCE 7-16	Pg: NA	Ct: NA	CAT: NA	PP Deflection	n in loc L	/defl	L/#
TCDL: 10.0			Pf: NA		Ce: NA	VERT(LL):	0.057 O	999	240
BCLL: 0.0	U	Enclosure: Closed	Lu: NA	Cs: NA		VERT(CL):	0.116 O	999	180
BCDL: 10.0	,,	Risk Category: II	Snow Dur	ation: NA		HORZ(LL):	0.025 L	-	-
Des Ld: 40.0	nn .	EXP: C Kzt: NA				HORZ(TL):	0.051 L	-	-
NCBCLL: 10.0	^	Mean Height: 15.00 ft TCDL: 5.0 psf	Building C	ode:		Creep Facto	r: 2.0		
Soffit: 2.0	^	BCDL: 5.0 psf	FBC 7th E	d. 2020 F	Res.	Max TC CSI	: 0.616		
Load Duration		MWFRS Parallel Dist: h to 2h	TPI Std:	2014		Max BC CS	l: 0.556		
Spacing: 24.0		C&C Dist a: 5.00 ft	Rep Fac: `	Yes		Max Web C	SI: 0.953		
-		Loc. from endwall: not in 13.00 ft	FT/RT:20(	0)/10(0)					
		GCpi: 0.18	Plate Type	e(s):					
		Wind Duration: 1.60	WAVE			VIEW Ver: 2	22.02.00.09	914.12	2

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

### Bracing

(a) Continuous lateral restraint equally spaced on member.

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

### Wind

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

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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ow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria					
NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.				
NA Ce: NA	VERT(LL): 0.057 O 999 240	L				
NA Cs: NA	VERT(CL): 0.116 O 999 180	Е				
ow Duration: NA	HORZ(LL): 0.025 L	8				
	HORZ(TL): 0.051 L	L				
Iding Code:	Creep Factor: 2.0	J				
C 7th Ed. 2020 Res.	Max TC CSI: 0.616	١				
Std: 2014	Max BC CSI: 0.556	5				
Fac: Yes	Max Web CSI: 0.953	Ĺ				
RT:20(0)/10(0)		Ī				
te Type(s):		Ě				

	▲ Maximum Reactions (lbs)						
		G	ravity		Non-Gravity		
0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
)	В	486	/-	/-	/271	/19	/338
	S	2035	/-	/-	/1263	/57	/-
	L	1673	/-	/-	/1053	/28	/-
	J	259	/-25	/-	/152	/57	/-
	Win	nd reac	tions bas	sed on MV	VFRS		
	В	Brg W	/id = 4.0	Min Re	q = 1.5	(Truss	)
	S	Brg W	/id = 4.0	Min Re	$\dot{q} = 2.4$		•
	L	Brg W	/id = 4.0	Min Re	q = 1.6	(Truss	)
	J	Brg W	/id = 4.0	Min Re	q = 1.5	(Truss	)
	Bearings B, S, L, & J are a rigid surface.						
	Members not listed have forces less than 375#						
	Max	kimum	Top Ch	ord Force	s Per	Ply (lbs	5)
	Cho	ords T	ens.Con	np. Ch	ords	Tens.	Ćomp.
	_			•			

C - D	409 - 78	G - H	576	- 1317
D - E	505 - 1080	H - I	549	- 1612
E-F	559 - 1013	I - J	446	- 55
F-G	559 - 1013			

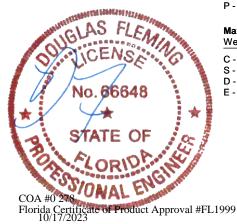
Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.					
S - R R - Q Q - P P - O	430 431 875 1086	- 94 - 94 - 77 - 130	O - N N - M M - L	1354 1022 1021	- 253 - 207 - 208

Maximum Web Forces Per Ply (lbs)							
Webs	Tens.Comp.	Webs	Tens. Com	ıp.			
C-S	185 - 579	O - H	180 - 3	93			
S - D	478 - 1731	G - O	444 -	71			
D - O	647 - 136	N - I	412 -	<b>4</b> 0			

I-L

E-P

428 - 189



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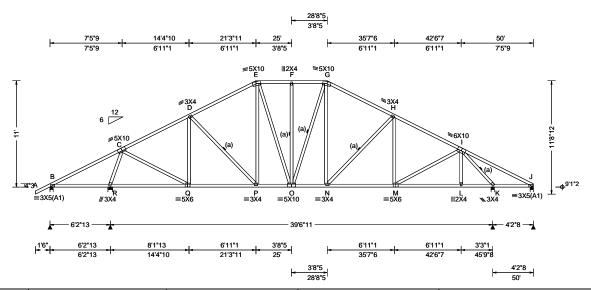
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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

511 - 1992

SEQN: 727725 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T21 FROM: CDM DrwNo: 290.23.1331.42530 Qty: 1 K & A Patel Truss Label: B13 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.078 N 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.160 N 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.033 K
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.067 K
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.676
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.598
Spacing: 24.0 "	C&C Dist a: 5.00 ft	Rep Fac: Yes	Max Web CSI: 0.667
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

# В Κ В

### ▲ Maximum Reactions (lbs) Gravity Non-Gravity R+ /Rh /Rw / U /RL 296 /80 /323 2093 /-/-/1323 /55 /-1952 /1183 /23 125 /-135 /-/-/36 /58 Wind reactions based on MWFRS Brg Wid = 4.0 Min Req = 1.5 (Truss) Brg Wid = 5.7 Min Req = 2.1 (Truss) Min Req = 1.9 (Truss) Brg Wid = 4.0Brg Wid = 4.0 Min Req = 1.5 (Truss) Bearings B, R, K, & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Cnoras	rens.Comp.	Choras	rens. Comp.
B - C	551 - 132	F-G	670 - 1406
C - D	534 - 1583	G-H	677 - 1675
D-E	654 - 1599	H - I	633 - 1915
E-F	670 - 1406	l - J	570 -85

Cilolus	rens.comp.	Chorus	i elis. V	Jonnp.
B-C	551 - 132	F-G	670	- 1406
C - D	534 - 1583	G-H	677	- 1675
D-E	654 - 1599	H - I	633	- 1915
E-F	670 - 1406	I - J	570	- 85

Maximum Bot Chord Forces Per Ply (lbs)							
Chord	ds Tens.0	Comp.	Chords	Tens.	Comp.		
B-R	186	- 434	N - M	1626	- 356		
Q-P	1339	- 308	M - L	1154	- 268		
P - O	1338	- 263	L-K	1153	- 269		

Maxim	um Web Forces	s Per Ply (	lbs)	
Webs	Tens.Comp.	Webs	Tens.	Comp.
R-C	629 - 1991	G - N	402	- 55
$\sim$	1220 201	N/ I	E03	07

1 - K

1406 - 254

219 - 483

Q - D

### Lumber

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

(a) Continuous lateral restraint equally spaced on member.

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

### Wind

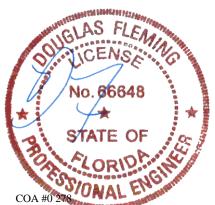
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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

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



Florida Certificate of Product Approval #FL1999

\*\*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. Installiers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Detailis, 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: alpineitw.com: TPI: binst.org: SBCA: sbcacomponents.com: ICC: iccsafe.org: AWC: awc.org

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



Glenview, IL 60025

127

611 - 2341

-430

SEQN: 727709 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T31 FROM: CDM Qty: 1 K & A Patel DrwNo: 290.23.1331.49400 Truss Label: B14 AM / DF 10/17/2023 7'4"5 14'2"3 34'7"13 40'3"11 45'11"8 7'4"5 6'9"13 5'7"13 5'7"13 ≢5¥10 **∥2**∑4 =5X6 **≥5**X6 6 12 10'10"3 **∌**6X10 **≷3X10** R ∥2X4 Q ≡5X6 O ≡5X10 M =5X6 ≡3X8 ≡3X5(A1) **∥2**X10 — 4'10**"** -2'6"5 4'10" 6'9"13 6'9"13 5'7"13 5'7"13 5'7"13 4'10' 14'2"3 34'7"13 40'3"11

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.093 N 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.190 N 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.038 K
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.078 K
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.683
	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.586
Spacing: 24.0 "	C&C Dist a: 4.60 ft	Rep Fac: Yes	Max Web CSI: 0.960
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12
Lumber	•		

### Gravity Loc R+ В 206 /-172 2186 /s 1661 /-Wind reactions based on MWFRS Brg Wid = 4.0

Min Req = 1.5 (Truss) Brg Wid = 4.0Min Req = 2.2 (Truss) Brg Wid = 4.0 Min Req = 2.0 (Truss) Bearings B, S, & K are a rigid surface.

/Rh

Non-Gravity

/RL

/300

/-

/Rw / U

/1359 /66

/31

/985

▲ Maximum Reactions (lbs)

Members not listed have forces less than 375# **Maximum Top Chord Forces Per Ply (lbs)** Chords Tens.Comp. Chords Tens. Comp.

B - C	755 - 226	F-G	711	- 1591
C - D	604 - 1896	G-H	722	- 1829
D - E	697 - 1799	H - I	691	- 2068
E-F	711 - 1591	l - J	551	- 1948

# **Bracing**

(a) Continuous lateral restraint equally spaced on

# **Plating Notes**

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

All plates are 3X4 except as noted.

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

### Wind

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

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

### **Additional Notes**

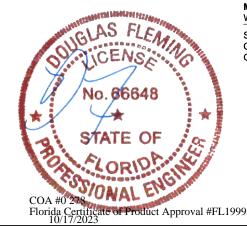
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

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

Maxim	um Bot Chord I	Forces Per	Ply (lbs)
Chords	Tens.Comp.	Chords	Tens. Com
B-S	198 - 601	P-0	1519 - 38

B-S	198	- 601	P-0	1519	- 380
S - R	804	- 240	O - N	1563	- 365
R - Q	805	- 238	N - M	1775	- 451
Q - P	1617	- 444	M - L	1705	- 445

waxim	um web Forces	s Per Ply (	IDS)	
Webs	Tens.Comp.	Webs	Tens.	Comp.
S-C	693 - 2426	I-L	223	- 503
C - Q	963 - 227	L - J	1772	- 457
G - N	430 - 76	J - K	470	- 1612



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

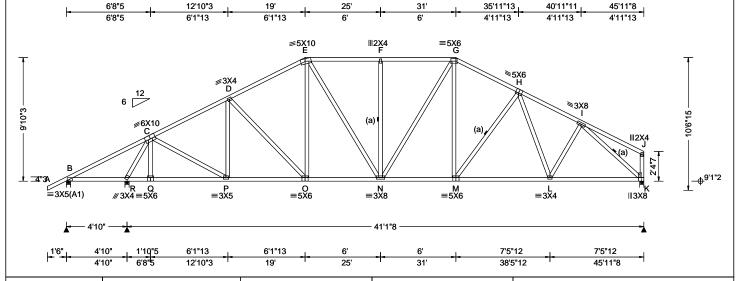
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For more information see these web sites: Alpine: alpineitw.com: TPI: binst.org: SBCA: sbcacomponents.com: ICC: iccsafe.org: AWC: awc.org

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

SEQN: 727728 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T34 FROM: CDM Qty: 1 K & A Patel DrwNo: 290.23.1333.18577 Truss Label: B15 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	ı
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.60 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	PP Deflection in loc L/defl L/# VERT(LL): 0.099 F 999 240 VERT(CL): 0.203 F 999 180 HORZ(LL): 0.043 K HORZ(TL): 0.089 K Creep Factor: 2.0 Max TC CSI: 0.608 Max BC CSI: 0.721 Max Web CSI: 0.727	П
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12	J
Lumber				

	۸N	/laxim	um Read	ctions (II	bs)			
		G	Gravity		No	n-Grav	/ity	
	Loc	R+	/ R-	/ Rh	/Rw	/ U	/ RL	
	В	172	/-219	/-	/30	/59	/273	
	R	2248	/-	/-	/1380	/143	/-	
	κ	1655	/-	/-	/977	/43	/-	
	Wi	nd read	ctions ba	sed on N	<b>IWFRS</b>			
	В	Brg V	Vid = 4.0	) Min F	Req = 1.5	(Truss	s)	
	R	Brg V	Vid = 4.0	) Min F	Req = 2.3	(Truss	s)	
	K	Brg V	Vid = 4.0	) Min F	Req = 2.0	(Truss	s)	
	Bea	arings	B, R, & I	K are a ri	igid surfac	ce.		
	Ме	mbers	not liste	d have fo	orces less	than 3	375#	
_	Ma	ximun	n Top C	hord Fo	rces Per	Ply (lb:	s)	
	Ch	ords <sup>-</sup>	Tens.Co	mp. (	Chords	Tens.	Comp.	
								_

### B - C F-G - 1762 822 - 276 778 C-D 584 - 1788 G-H 751 - 1914 D-E 715 - 1833 678 - 2021 H - I F-F 779 - 1762

# **Bracing**

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

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

# Wind

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

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

### **Additional Notes**

Negative reaction(s) of -219# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

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

The overall height of this truss excluding overhang is 9-10-3.



Maximum Bot Chord Forces Per Ply (lbs)

16113.0	onip.	Cilolus	i ciio. V	Jonnp.
237	- 672	O - N	1560	- 426
487	- 152	N - M	1649	- 431
488	- 151	M - L	1773	- 491
1533	- 447	L-K	1601	- 456
	237 487 488	237 - 672 487 - 152 488 - 151 1533 - 447	237 - 672 O - N 487 - 152 N - M 488 - 151 M - L	237 - 672 O - N 1560 487 - 152 N - M 1649 488 - 151 M - L 1773

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
R-C	714 - 2357	E-N	384 - 181
C - P	1221 - 330	F-N	299 - 385
P - D	224 - 460	I-K	616 - 2141

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

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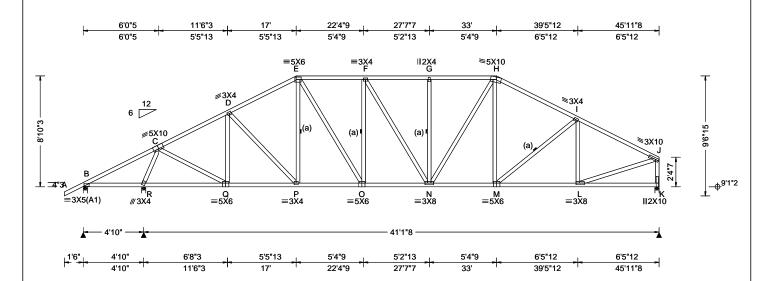
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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

SEQN: 727731 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T4 FROM: CDM DrwNo: 290.23.1333.22907 Qty: 1 K & A Patel Truss Label: B16 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.109 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.222 G 999 180
BCDL: 10.00	Risk Category: II EXP: C Kzt: NA	Snow Duration: NA	HORZ(LL): 0.035 K
Des Ld: 40.00	Mean Height: 15.00 ft		HORZ(TL): 0.072 K
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.619
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.599
Spacing: 24.0 "	C&C Dist a: 4.60 ft	Rep Fac: Yes	Max Web CSI: 0.684
	Loc. from endwall: not in 13.00 ft		
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12
Lumber			

### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 138 /-257 /28 /245 2300 /-/1395 /162 /-1649 /964 /49 Wind reactions based on MWFRS Brg Wid = 4.0 Min Req = 1.5 (Truss) Brg Wid = 4.0Min Req = 2.3 (Truss) Brg Wid = 4.0 Min Req = 1.9 (Truss) Bearings B, 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 F-G - 1937 871 - 312 826 C-D 545 - 1632 G-H 826 - 1937 D-E 717 - 1832 759 - 2017 H - I F-F 810 - 1881 632 - 2019 1 - .1

# **Bracing**

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

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

### Wind

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

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

### **Additional Notes**

Negative reaction(s) of -257# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

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

The overall height of this truss excluding overhang is 8-10-3.

MANUFACTURE AND THE PROPERTY OF THE PARTY OF
OUGLAS FLENING
No.66648
STATE OF
CORIDINA

COA #0 278
Florida Certificate of Product Approval #FL1999
10/17/2023

### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
B - R	263	- 728	O - N	1895	- 566
Q - P	1410	- 429	N - M	1716	- 483
P - O	1569	- 449	M - L	1755	- 508

# Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
R-C	766 - 2277	N - H	414 - 199	
C - Q	1511 - 415	I-L	235 - 415	
Q-D	271 - 624	L-J	1796 - 515	
E - O	600 - 251	J - K	517 - 1595	
O E	267 407			

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

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

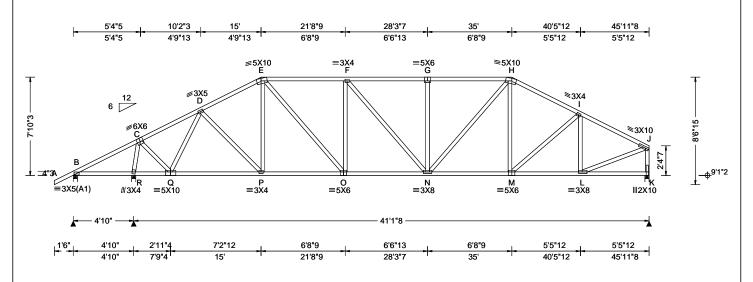
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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

SEQN: 727734 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T32 Qty: 1 FROM: CDM DrwNo: 290.23.1333.26237 K & A Patel Truss Label: B17 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.122 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.248 G 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.038 K
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.078 K
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.591
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.637
Spacing: 24.0 "	C&C Dist a: 4.60 ft	Rep Fac: Yes	Max Web CSI: 0.787
-	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12
Lumber			

	▲ Maximum Reactions (Ibs)											
		G	ravity		No	n-Grav	/ity					
ю	Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL					
30	В	87	/-339	/-	/43	/109	/217					
-	R	2403	/-	/-	/1417	/195	/-					
	K	1639	/-	/-	/947	/85	/-					
	Wir	nd reac	tions ba	sed on	MWFRS							
	В	Brg W	/id = 4.0	) Min	Req = 1.5	(Truss	s)					
	R	Brg W	/id = 4.0	) Min	Req = 2.5	(Truss	s)					
	K	Brg W	/id = 4.0	) Min	Req = 1.9	(Truss	s)					
	Bearings B, R, & K are a rigid surface.											
	Members not listed have forces less than 375#											
	Maximum Top Chord Forces Per Ply (lbs)											
			ens.Co		Chords							
	_			□ <u></u>								

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

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

Wind loads based on MWFRS with additional C&C

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

# Additional Notes

Negative reaction(s) of -339# MAX. from a non-wind load case requires uplift connection. See Maximum

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

The overall height of this truss excluding overhang is



Bearings B, R, & K are a rigid surface.							
Members not listed have forces less than 375#							
	Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.C	Comp.	Chords	Tens. Comp.			
B - C	1027	- 389	F-G	892 - 2169			
C - D	258	- 701	G - H	892 - 2170			

H - I

- 2039

769

617 - 1898

### Maximum Bot Chord Forces Per Ply (lbs)

680 - 1770

864 - 2080

Ď-Ē

F-F

Chords	Tens.Comp.		Chords	Tens. Comp.	
B - R	330	- 877	O - N	2099	- 645
R-Q	201	- 495	N - M	1754	- 524
Q-P	1153	- 366	M - L	1662	- 497
P - O	1527	- 442			

# Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
R-C	761 - 2311	G - N	316 -411	
C - Q	1653 - 476	N - H	624 - 253	
Q - D	459 - 1244	I-L	246 - 513	
D - P	543 - 156	L - J	1734 - 513	
E - O	844 - 329	J - K	529 - 1591	
0 - F	312 - 510			

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

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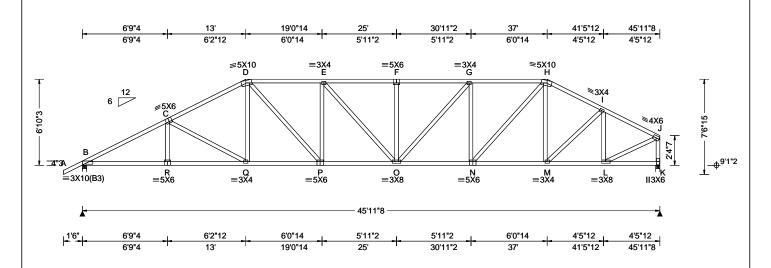
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SEQN: 727737 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T35 Qty: 1 FROM: CDM K & A Patel DrwNo: 290.23.1333.30520 Truss Label: B18 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.262 E 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.536 E 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.091 K
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.187 K
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.634
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.860
Spacing: 24.0 "	C&C Dist a: 4.60 ft	Rep Fac: Yes	Max Web CSI: 0.741
' -	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
Wind Duration: 1.60		WAVE	VIEW Ver: 22.02.00.0914.12
			, L

### Loc R+ /R /Rh /Rw /U /RL В 2001 /-/1196 /364 /190 1885 /-/-/1041 /340 /-Wind reactions based on MWFRS Brg Wid = 4.0Min Reg = 2.4 (Truss) Brg Wid = 4.0 Min Req = 2.2 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1083 - 3613 1214 - 3296 C-D 1072 - 3097 G-H 1121 - 2918 D-E 1210 - 3209 H - I 888 - 2410

Non-Gravity

▲ Maximum Reactions (lbs) Gravity

# Lumber

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

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

Wind loads based on MWFRS with additional C&C

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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

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



# 1214 - 3296 678 - 2036 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

O - N

N - M

M - L

2952

2102

1810

- 975

- 660

- 569

- 830 Maximum Web Forces Per Ply (lbs)

3148 - 997

3146 - 999

3229 - 1025

2693

B - R

R - Q

Q-P

P - O

Webs	Tens.C	Comp.	Webs `	Ťens.	Comp.
C-Q	193	- 520	N - H	1216	- 443
D - Q	446	- 39	M - I	409	- 134
D-P	769	- 308	I-L	310	- 750
P - E	289	- 455	L-J	1946	- 605
O - G	520	- 196	J - K	620	- 1844
G-N	390	- 781			

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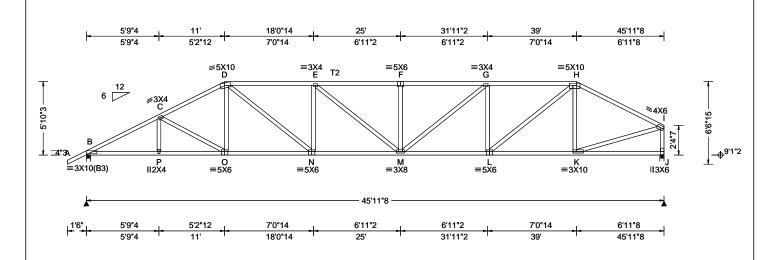
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SEQN: 727740 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T30 FROM: CDM DrwNo: 290.23.1333.33450 Qty: 1 K & A Patel Truss Label: B19 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria		
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#		
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.314 F 999 240		
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.642 F 856 180		
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.095 J		
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.194 J		
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0		
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.927		
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.979		
Spacing: 24.0 "	C&C Dist a: 4.60 ft	Rep Fac: Yes	Max Web CSI: 0.841		
' "	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)			
	GCpi: 0.18	Plate Type(s):			
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12		
	•	•	•		

Lumber
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Top chord: 2x4 SP #2; T2 2x4 SP M-31;

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

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

Wind loads based on MWFRS with additional C&C

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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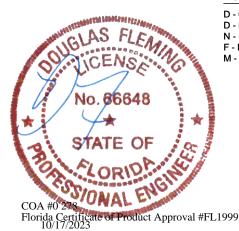
The overall height of this truss excluding overhang is 5-10-3

	▲ Maximum Reactions (lbs)								
Gravity Non-Gravity							vity		
)	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
)	в :	2001	/-	/-	/1178	/366	/162		
	J ·	1885	/-	/-	/1023	/343	/-		
	Wind	d read	tions b	ased or	MWFRS				
	В	Brg W	Vid = 4.	0 Mir	Req = 2.4	(Truss	s)		
	J	Brg V	Vid = 4.	0 Mir	Req = 2.2	(Trus	s)		
	Bear	ings I	В&Ја	re a rigi	d surface.	•	•		
	Mem	bers	not liste	ed have	forces less	than 3	375#		
	Max	imum	Top C	hord F	orces Per	Ply (lb	s)		
	Cho	rds T	ens.Co	mp.	Chords	Tens.	Ćomp.		
	B - C	)	1114 -	3631	F-G	1387	- 3904		
	C - E	)	1126 -	3252	G-H	1247	- 3327		
	D - E		1375 -	3733	H-I	842	- 2399		
	E-F	:	1387 -	3904					

Tens.Comp.	Chords	Tens. Comp.
3170 - 1029	N - M	3763 - 1235
3168 - 1031	M - L	3372 - 1142
2851 - 900	L-K	2070 - 676
	3170 - 1029 3168 - 1031	3170 - 1029 N - M 3168 - 1031 M - L

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.C	Comp.	Webs	Tens.	Comp.
D-0	398	- 22	G-L	424	- 872
D - N	1130	- 416	L-H	1609	- 568
N - E	334	- 568	H - K	274	- 449
F - M	220	- 408	K - I	2120	- 694
M - G	688	- 249	I - J	655	- 1825



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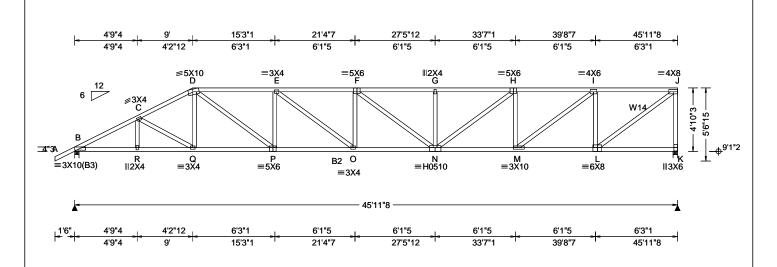
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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

SEQN: 727743 HIPM Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T33 FROM: CDM DrwNo: 290.23.1333.36093 Qty: 1 K & A Patel Truss Label: B20 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.433 F 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.887 F 619 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.105 D
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.215 D
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.900
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.937
Spacing: 24.0 "	C&C Dist a: 4.60 ft	Rep Fac: Yes	Max Web CSI: 0.965
-	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 22.02.00.0914.12

Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.60 ft Loc. from endwall: not in 6.50 ft GCpi: 0.18 Wind Duration: 1.60	FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes	Creep Factor: 2.0 Max TC CSI: 0.900 Max BC CSI: 0.937 Max Web CSI: 0.965 VIEW Ver: 22.02.00.0914.12	B K Bea Mei Max Cho
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### Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; B2 2x4 SP M-31; Webs: 2x4 SP #3; W14 2x4 SP #2;

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

Wind loads based on MWFRS with additional C&C

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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

The overall height of this truss excluding overhang is 4-10-3

Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria			
Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#			
Pf: NA Ce: NA	VERT(LL): 0.433 F 999 240			
Lu: NA Cs: NA	VERT(CL): 0.887 F 619 180			
Snow Duration: NA	HORZ(LL): 0.105 D			
	—HORZ(TL): 0.215 D			
Building Code:	Creep Factor: 2.0			
FBC 7th Ed. 2020 Res.	Max TC CSI: 0.900			
TPI Std: 2014	Max BC CSI: 0.937			
Rep Fac: Yes	Max Web CSI: 0.965			
FT/RT:20(0)/10(0)				
Plate Type(s):				
NAVE HO	VIEW Ver: 22 02 00 0914 12			

		_	iavity			on Ola	/ity
,	Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
,	В :	2001	/-	/-	/1163	/362	/180
	K	1885	/-	/-	/955	/359	/-
	Win	d read	tions ba	sed on	<b>MWFRS</b>		
	В	Brg V	/id = 4.0	Min	Req = 2.4	4 (Truss	s)
	K	Brg V	/id = 4.0	Min	Req = 2.2	2 (Truss	s)
	Bea	rings l	3 & K are	a rigi	d surface.		
	Men	nbers	not listed	have	forces les	s than 3	375#
	Max	imum	Top Ch	ord Fo	orces Per	Ply (lb:	s)
	Cho	rds T	ens.Con	np.	Chords	Tens.	Comp.
-	B - 0	`	1127 - 36	233	F-G	1513	- 4606
	C - I	-	1158 - 3		G-H	1513	- 4606
	D - E	_	1493 - 42		H-I	1226	
	F - F	_	1602 - 47		11-1 1-J	784	- 2245
	1		1002 - 4			704	2270

Non-Gravity

▲ Maximum Reactions (lbs)

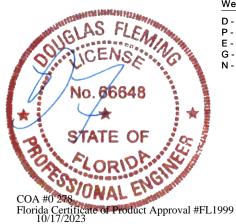
Gravity

# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B-R	3177 - 1108	O - N	4753 - 1610
R-Q	3177 - 1110	N - M	3802 - 1250
Q-P	2994 - 1073	M - L	2344 - 826
D 0	ADED 1517		

# Maximum Web Forces Per Ply (lbs)

Webs	Tens.C	Comp.	Webs	Tens.	Comp.
D - P	1506	- 525	H - M	414	- 973
P - E	379	- 782	M - I	1772	- 574
E - O	615	- 181	I-L	655	- 1541
G - N	208	- 377	L-J	2800	- 978
N - H	1012	- 359	J - K	712	- 1834



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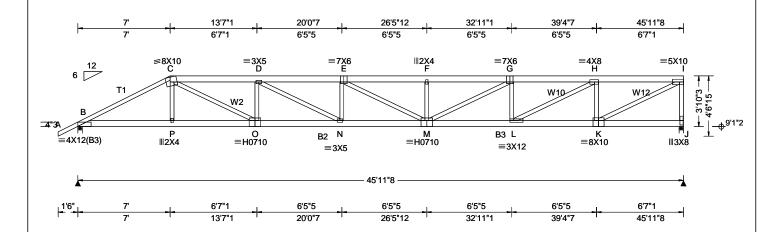
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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

SEQN: 727749 HIPM Ply: 2 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T37 FROM: CDM Qty: 1 DrwNo: 290.23.1316.55557 K & A Patel Truss Label: B21 AM / DF 10/17/2023





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.597 E 921 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 1.199 E 458 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.114 C
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.229 C
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.952
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.855
Spacing: 24.0 "	C&C Dist a: 4.60 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.979
	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 22.02.00.0914.12

### Lumber

Top chord: 2x6 SP #2; T1 2x4 SP #2; Bot chord: 2x6 SP #2; B2,B3 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3; W2,W10,W12 2x4 SP #2;

### **Nailnote**

Nail Schedule:0.131"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @12.00" o.c. :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) -1.50 to TC: From 62 plf at 62 plf at 7.00 to 45.96 TC: From 31 plf at 31 plf at BC: From 4 plf at -1.50 to 4 plf at 0.00 20 plf at BC: From BC: From 0.00 to 20 plf at 7 03 BC: From 10 plf at 7.03 to TC: 434 lb Conc. Load at 7.03 10 plf at 45.96 TC: 187 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06,19.06,21.06,23.06,25.06,27.06,29.06,31.06 33.06,35.06,37.06,39.06,41.06,43.06,45.06 BC: 503 lb Conc. Load at 7.03 BC: 129 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06,19.06,21.06,23.06,25.06,27.06,29.06,31.06 33.06,35.06,37.06,39.06,41.06,43.06,45.06

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

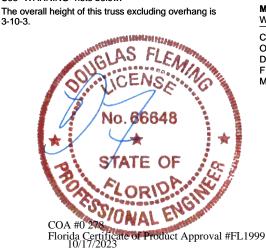
# Wind

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

### **Additional Notes**

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

3-10-3.



### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R /Rh /Rw /U / RL В 4590 /-/1000 /-4629 /1046 /-/-Wind reactions based on MWFRS Brg Wid = 4.0Min Reg = 2.7 (Truss) В Brg Wid = 4.0 Min Req = 2.7 (Truss) Bearings B & J 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 1033 - 4739 1733 - 7713 C-D 1476 - 6648 G-H 1430 - 6368 D - E 1737 - 7786 H - I 865 - 3849 1733 - 7713

# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - P P - O O - N	4211 - 912 4226 - 910 6736 - 1504	N - M M - L L - K	7815 - 1752 6460 - 1458 4000 - 909

### Maximum Web Forces Per Ply (lbs)

Tens.Comp.	webs	Tens. Comp.
2740 - 639	G-L	329 - 1066
342 - 1042	L-H	2703 - 595
1199 - 266	H - K	507 - 1767
185 - 385	K - I	4336 - 975
1424 - 312	I - J	538 - 2202
	2740 - 639 342 - 1042 1199 - 266 185 - 385	2740 - 639 G - L 342 - 1042 L - H 1199 - 266 H - K 185 - 385 K - I

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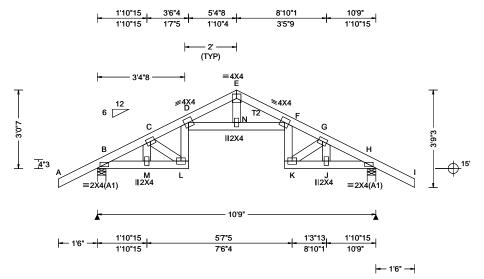
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SEQN: 727777 GABL Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T23 FROM: CDM Qty: 1 K & A Patel DrwNo: 290.23.1333.52913 Truss Label: C01 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	Ī
Loading Criteria (psf)	Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.32 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0)	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.324 E 387 240 VERT(CL): 0.596 E 210 180 HORZ(LL): 0.337 H HORZ(TL): 0.619 H Creep Factor: 2.0 Max TC CSI: 0.560 Max BC CSI: 0.588 Max Web CSI: 0.167	
	GCpi: 0.18 Wind Duration: 1.60	Plate Type(s): WAVE	VIEW Ver: 22.02.00.0914.12	- '
Lumber				

▲ Maximum Reactions (lbs)						
	Gravity		No	on-Grav	/ity	
Loc R	- / R-	/ Rh	/ Rw	/ U	/ RL	
B 506	/-	/-	/306	/131	/106	
H 506	/-	/-	/306	/131	/-	
Wind re	actions b	ased on	MWFRS			
B Brg	Wid = 4	.0 Min	Req = 1.5	(Truss	s)	
H Brg	Wid = 4	.0 Min	Req = 1.5	(Truss	s)	
Bearing	sB&Ha	are a rigio	l surface.			
Member	rs not list	ed have f	orces less	s than 3	375#	
Maximu	ım Top (	Chord Fo	rces Per	Ply (lb	s)	
Chords	Tens.Co	omp.	Chords	Tens.	Comp.	
B-C	458	- 593	E-F	532	- 771	
D-F			G - H	458	- 593	
D-L	J-7 I	- / /	0-11	700	- 333	

Top chord: 2x4 SP M-31; T2 2x4 SP #2;

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

# **Plating Notes**

All plates are 3X4 except as noted.

### Loading

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

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

# **Additional Notes**

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

The overall height of this truss excluding overhang is 3-0-7.



# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.	
B - M	515 - 287	K-J	520 - 304	ļ
M - L	520 - 293	J - H	515 - 298	3

### Maximum Web Forces Per Ply (lbs)

Webs	ebs Tens.Comp. Webs		Tens. Comp.		
C-L	343 - 605	N-F	861 - 350		
D - N	861 - 351	K-G	356 - 605		

# Maximum Gable Forces Per Ply (lbs)

Gables	rens.comp.	Gables	rens. Comp.	
L - D	437 - 237	F-K	437 - 246	

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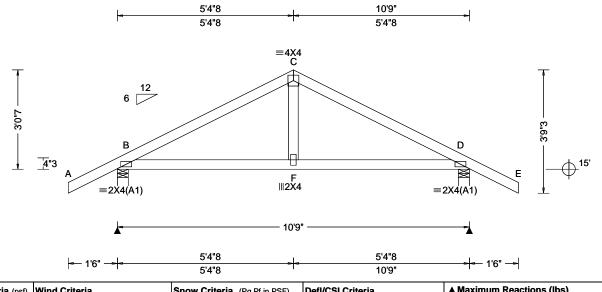
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SEQN: 727762 COMN Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T12 FROM: CDM DrwNo: 290.23.1334.00173 Qty: 5 K & A Patel Truss Label: C02 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	1
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.32 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	PP Deflection in loc L/defl L/# VERT(LL): 0.008 F 999 240 VERT(CL): 0.016 F 999 180 HORZ(LL): 0.003 D HORZ(TL): 0.007 D Creep Factor: 2.0 Max TC CSI: 0.256 Max BC CSI: 0.278 Max Web CSI: 0.087	L BCVBCBMCB
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12	ן "
Lumber				

▲ Maximum Reactions (lbs)						
	(	Gravity		N	on-Grav	vity −
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	543	/-	/-	/343	/112	/106
D	543	/-	/-	/343	/112	/-
Win	d rea	actions b	oased or	n MWFRS		
В	Brg	Wid = 4	.0 Mii	n Req = 1.	5 (Truss	s)
D	Brg	Wid = 4	.0 Mii	n Req = 1.	5 (Truss	s)
Bea	rings	B & D	are a rig	id surface.	-	
Mer	nber	s not list	ed have	forces les	s than 3	375#
Maximum Top Chord Forces Per Ply (lbs)					s)	
				Chords		
В-	С	369	- 562	C - D	369	- 562

### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 445 - 145 445

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

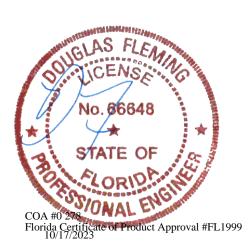
### Wind

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

Wind loading based on both gable and hip roof types.

# **Additional Notes**

The overall height of this truss excluding overhang is



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

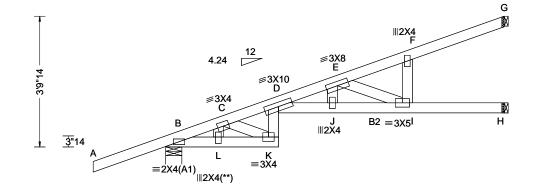
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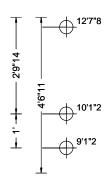
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SEQN: 727660 HIP\_ Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T18 FROM: CDM Qty: 1 DrwNo: 290.23.1334.06250 K & A Patel Truss Label: HJ01 AM / DF 10/17/2023







Non-Gravity

/11 /-/-

/94

/RL

/-

/Rw /U

Min Req = 1.5 (Truss)

Min Req = -

Min Req = -

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.270 J 433 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.543 J 215 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.102 I
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.205 I
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.659
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.582
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: No	Max Web CSI: 0.325
' '	Loc. from endwall: NA	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12
Lumber	•	•	•

1'9"2

3'3"10

1'6"15

4'10"8

2'2"5

7'0"14

2'9"15

9'10"13

1'6"8

1'6"8

B - C	67 - 579	D-E	257 - 1566

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

▲ Maximum Reactions (lbs) Gravity

/Rh

/-

Wind reactions based on MWFRS Brg Wid = 5.7

Brg Wid = 1.5

Brg Wid = 1.5

Bearing B is a rigid surface.

Loc R+

В 461 /-

Н 260 /-

G 361

# Top chord: 2x4 SP M-31; Bot chord: 2x4 SP #2; B2 2x4 SP M-31; Webs: 2x4 SP #3; **Plating Notes**

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

### Loading

Hipjack supports 7-0-0 setback jacks with no webs.

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

### **Additional Notes**

The overall height of this truss excluding overhang is 3-9-14.

Chords	Tens.C	omp.	Chords	I ens.	Comp.
B - C	67	- 579	D-E	257	- 1566
			orces Per		•
Chords	Tens.C	comp.	Chords	Tens.	Comp.

Chords	Tens.Comp.		Chords	Tens. (	Comp.
B - L L - K			D - J J - I		- 264 - 262

Maximum Web Forces Per Ply (lbs)						
Webs	Tens.Comp.	Webs	Tens. Comp.			
C - K	65 - 556	E-I	270 - 1652			



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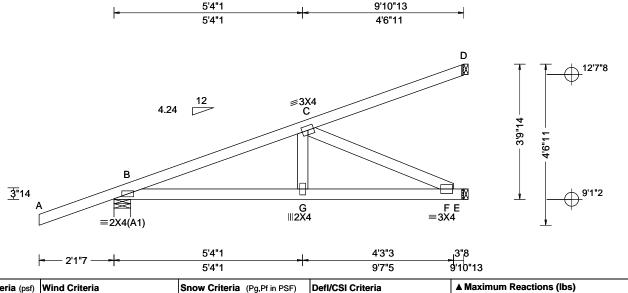
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SEQN: 727745 HIP\_ Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T29 FROM: CDM DrwNo: 290.23.1155.50500 Qty: 2 K & A Patel Truss Label: HJ02 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.022 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.044 G 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.005 F
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.011 F
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.594
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.533
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: No	Max Web CSI: 0.333
	Loc. from endwall: NA	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

### Lumber

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

### Loading

Hipjack supports 7-0-0 setback jacks with no webs.

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

The overall height of this truss excluding overhang is 3-9-14.

# Loc R+ В Е Wind reactions based on MWFRS

Chords Tens.Comp.

B - C 122 - 739

Gravity

Brg Wid = 5.7

Brg Wid = 1.5

Brg Wid = 1.5

Bearing B is a rigid surface.

461 /-

374 /-

247

/Rh

/-

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - G 675 - 108 G-F 668 - 112

Non-Gravity

/11 /-

/94

/RL

/-

/Rw /U

Min Req = 1.5 (Truss)

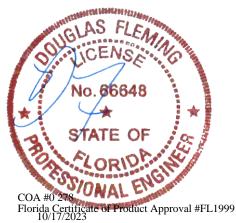
Min Req = -

Min Req = -

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. C-F 123 - 737



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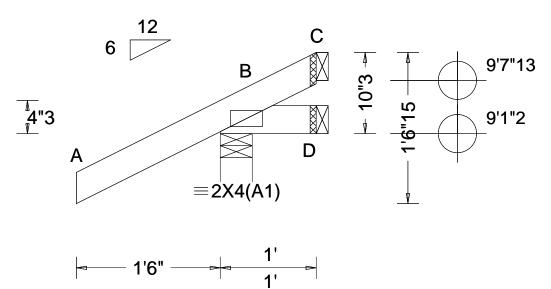
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SEQN: 727644 JACK Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T27 FROM: CDM Qty: 6 K & A Patel DrwNo: 290.23.1334.10127 Truss Label: J01 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#			
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA			
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA			
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 B			
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 B			
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0			
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.250			
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.035			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000			
' -	Loc. from endwall: Any	FT/RT:20(0)/10(0)				
	GCpi: 0.18	Plate Type(s):				
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12			
Lumber						

### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В /-/202 /38 D 4 /-18 /-/16 /16 /-/-/-53 /34 Wind reactions based on MWFRS Brg Wid = 4.0 Min Req = 1.5 (Truss) Brg Wid = 1.5 Min Req = -Brg Wid = 1.5 Min Req = -Bearing B is a rigid surface. Members not listed have forces less than 375#

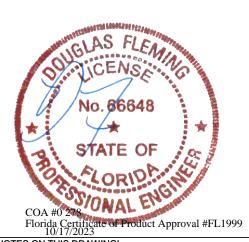
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2;

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

### **Additional Notes**

The overall height of this truss excluding overhang is 0-10-3.



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

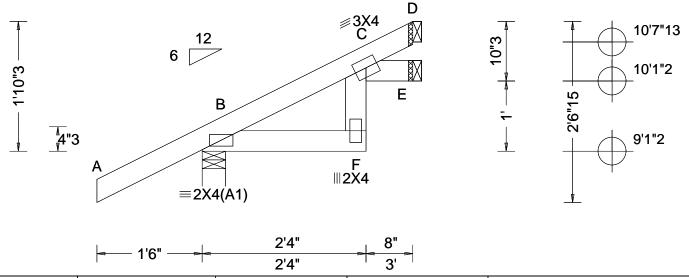
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SEQN: 727650 JACK Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T15 FROM: CDM DrwNo: 290.23.1334.12563 Qty: 2 K & A Patel Truss Label: J02 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.004 C 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.006 C 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.003 E
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.005 E
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.163
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.033
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.018
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12
Lumber			

▲ M	aximı	ım Rea	ections (II	os)		
	G	ravity	<del>-</del>	No	on-Gra	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	262	/-	/-	/190	/42	/73
E	17		/-	/9	/-	/-
D	76	/-	/-	/48	/27	/-
Win	d read	ctions b	ased on N	/WFRS		
В	Brg V	Vid = 4.	.0 Min F	Req = 1.5	(Trus	s)
Е	Brg V	Vid = 1.	.5 Min F	. = eq	•	•
			.5 Min F			
Bea	ring B	is a rig	id surface	). ).		
Men	nbers	not list	ed have fo	rces les	s than	375#

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

### Wind

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

Wind loading based on both gable and hip roof types.

# **Additional Notes**

The overall height of this truss excluding overhang is



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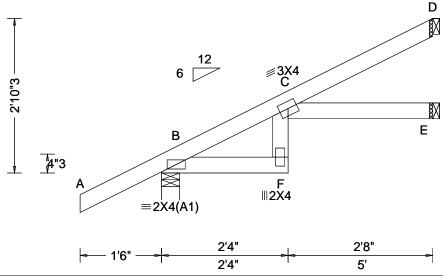
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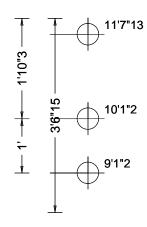
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SEQN: 727652 JACK Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T17 FROM: CDM Qty: 2 K & A Patel DrwNo: 290.23.1334.25093 Truss Label: J03 AM / DF 10/17/2023





TCDL: 10.00   Speed: 130 mph   Pf: NA   Ce: NA   VERT(LL): 0.053 C   999   24	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Ī
GCpi: 0.18	TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	PP Deflection in loc L/defl L/# VERT(LL): 0.053 C 999 240 VERT(CL): 0.105 C 554 180 HORZ(LL): 0.032 E HORZ(TL): 0.063 E Creep Factor: 2.0 Max TC CSI: 0.433 Max BC CSI: 0.098 Max Web CSI: 0.027	

▲ Ma	aximu	ım Rea	ctions (II	os)		
	G	ravity		No	on-Gra	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
в 3	331	/-	/-	/231	/43	/109
E 6	60	/-	/-	/33	/-	/-
D '	145	/-	/-	/94	/62	/-
Wind	d read	tions b	ased on N	/WFRS		
В	Brg V	Vid = 4.	0 Min F	Req = 1.5	(Trus	s)
E	Brg V	Vid = 1.	5 Min F	. = eq	•	•
			5 Min F			
Bear	ing B	is a rig	id surface	). ·		
Mem	bers	not liste	ed have fo	orces les	s than	375#

# Lumber

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

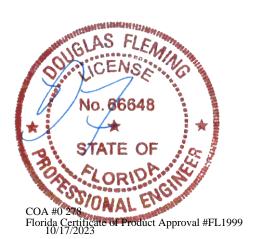
### Wind

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

Wind loading based on both gable and hip roof types.

# **Additional Notes**

The overall height of this truss excluding overhang is



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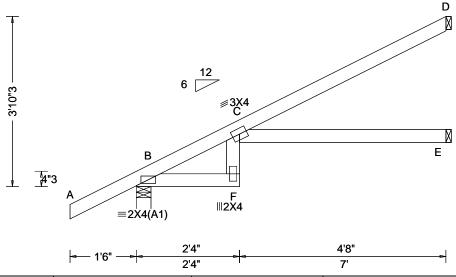
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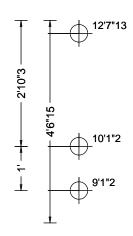
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SEQN: 727654 **EJAC** Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T14 FROM: CDM DrwNo: 290.23.1334.27403 Qty: 4 K & A Patel Truss Label: J04 AM / DF 10/17/2023





TCDL:         10.00         Speed:         130 mph         Pf: NA         Ce: NA         VERT(LL):         0.183 C         249 24           BCLL:         0.00         Enclosure: Closed         Lu: NA         Cs: NA         VERT(LL):         0.364 C         225 18           BCDL:         10.00         EXP: C         Kzt: NA         Snow Duration: NA         HORZ(LL):         0.105 E         -           NCBCLL:         10.00         TCDL:         5.0 psf         Building Code:         Creep Factor:         2.0           Soffit:         2.00         BCDL:         5.0 psf         FBC 7th Ed.         2020 Res.         Max TC CSI:         0.942           Load Duration:         1.25         MWFRS Parallel Dist:         h/2 to h         Rep Fac:         Yes         Max Web CSI:         0.037	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	T
Loc. from endwall: not in 4.50 ft GCpi: 0.18   FT/RT:20(0)/10(0)   Plate Type(s):   WIND Duration: 1.60   WAVE   VIEW Ver: 22.02.00.0914.12	TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	PP Deflection in loc L/defl L/# VERT(LL): 0.183 C 449 240 VERT(CL): 0.364 C 225 180 HORZ(LL): 0.105 E HORZ(TL): 0.209 E Creep Factor: 2.0 Max TC CSI: 0.942 Max BC CSI: 0.311 Max Web CSI: 0.037	

▲ N	laxim	um Rea	ctions (II	os)			
	G	avity		No	on-Gra	vity	
Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
В	408	/-	/-	/278	/47	/144	
E	103	/-	/-	/57	/-	/-	
D	206	/-	/-	/133	/93	/-	
Wind reactions based on MWFRS  B Brg Wid = 4.0 Min Req = 1.5 (Truss)							
D	Brg V	Vid = 1.	.5 Min F	Req = -			
Bearing B is a rigid surface.							
Me	mbers	not list	ed have fo	orces less	s than	375#	

### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.

### **Additional Notes**

The overall height of this truss excluding overhang is



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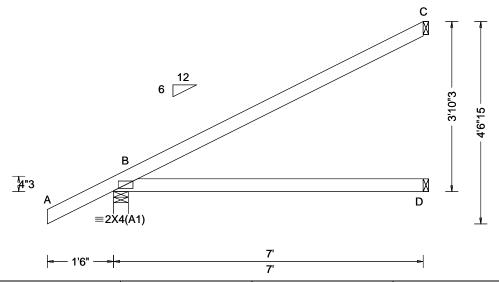
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SEQN: 727656 / **EJAC** Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T28 FROM: CDM DrwNo: 289.23.1037.02190 Qty: 35 K & A Patel Truss Label: J05 SSB / WHK 10/16/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pa: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
	Speed: 130 mph	J	VERT(LL): NA	Loc R+ /R- /Rh /Rw /U /RL
DCLL. 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B 408 /- /- /278 /47 /144
10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.014 B	D 129 /- /- /73 /- /-
Dec  d   10 00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.028 B	C 187 /- /- /118 /93 /-
NODOLL, 40 00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS
0.40	BCDL: 5.0 psf		Max TC CSI: 0.713	B Brg Wid = 4.0 Min Req = 1.5 D Bra Wid = 1.5
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h		Max BC CSI: 0.512	C Bra Wid = 1.5
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	Bearing B is a rigid surface.
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	

#### Lumber

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

### **Additional Notes**

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



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

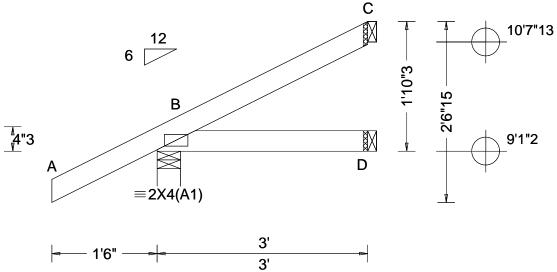
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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 727826 JACK Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T26 FROM: CDM Qty: 4 K & A Patel DrwNo: 290.23.1334.30490 Truss Label: J06 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
Continue	Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCbi: 0.18	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B HORZ(TL): 0.001 B Creep Factor: 2.0 Max TC CSI: 0.250 Max BC CSI: 0.064 Max Web CSI: 0.000
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12
Lumber			

Gravity				No	on-Gra	vity						
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL						
В	262	/-	/-	/190	/42	/73						
D	49	/-	/-	/26	/-	/-						
С	62	/-	/-	/36	/34	/-						
Wind reactions based on MWFRS  B Brg Wid = 4.0 Min Req = 1.5 (Truss)  D Brg Wid = 1.5 Min Req = -												
							C Brg Wid = 1.5 Min Req = -					
							Bearing B is a rigid surface.					
Mer	nbers	not liste	ed have fo	orces les	s than	375#						

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

The overall height of this truss excluding overhang is 1-10-3.



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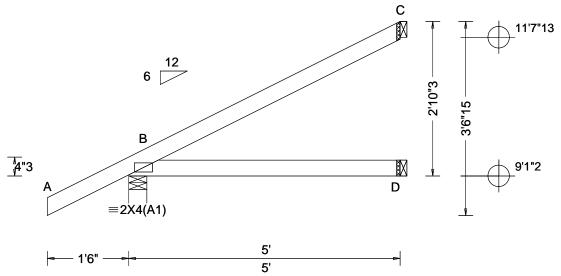
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SEQN: 727815 JACK Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T25 FROM: CDM Qty: 4 K & A Patel DrwNo: 290.23.1334.40430 Truss Label: J07 AM / DF 10/17/2023



Defl/CSI Criteria

Loading Criteria (psi)	Willia Ciliteria	SHOW CITICITIA (F9,F1111F3F)	Deli/Col Ciliteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 B
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.008 B
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.316
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.233
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12
Lumber		•	•

Snow Criteria (Pa Pf in PSE)

▲ Maximum Reactions ( Gravity				Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	331	/-	/-	/231	/43	/109
D	89	/-	/-	/48	/-	/-
С	127	/-	/-	/79	/65	/-
Win	d read	ctions b	ased on N	/WFRS		
B Brg Wid = 4.0 Min Req = 1.5 (Truss)						
D	Brg V	Vid = 1.	5 Min F	. = eq	•	•
C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface.						
						Members not listed have forces less than 375#

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

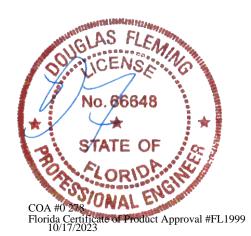
Loading Criteria (nef) Wind Criteria

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

The overall height of this truss excluding overhang is 2-10-3.



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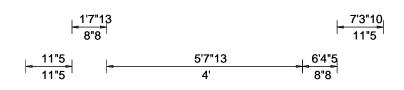
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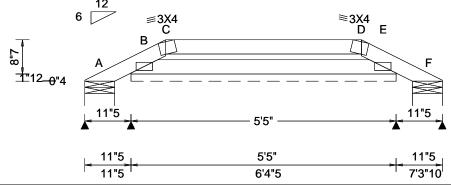
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SEQN: 727822 HIPS Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T13 FROM: CDM DrwNo: 290.23.1334.49527 Qty: 1 K & A Patel Truss Label: PB01 AM / DF 10/17/2023





10"3	28:7"24

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CS
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Def
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(I
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 20.53 ft		HORZ(
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep I
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max W
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW \

Defi/CSI Criteria							
PP Deflection in loc L/defl L	_/#						
VERT(LL): 0.002 C 999	240						
VERT(CL): 0.003 C 999	180						
HORZ(LL): 0.001 E -	-						
HORZ(TL): 0.002 E -	-						
Creep Factor: 2.0							
Max TC CSI: 0.238							
Max BC CSI: 0.079							
Max Web CSI: 0.000							
VIEW Ver: 22.02.00.0914.12							

	▲ Maximum Reactions (lbs), or *=PLF							
Gravity I						on-Gravity		
)	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
)	Α	-	/-14	/-	/11	/19	/17	
	В*	87	/-	/-	/54	/30	/-	
	F	-	/-14	/-	/11	/20	/-	
	Wind reactions based on MWFRS							
	A Brg Wid = 7.3 Min Req = 1.5 (Truss)							
			Wid = 65	.0 Min	Req = -	-	•	
	F	Brg \	Wid = 7.	3 Min	Req = 1.5	(Trus	s)	
	Bearings A, B, & F are a rigid surface.							
	Members not listed have forces less than 375#							
	Maximum Top Chord Forces Per Ply (lbs)							
	Cho	ords	Tens.Co	mp.	Chords	Tens.	Ćomp.	

- 280 D - E - 280 389 - 243

Lumber

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

### **Plating Notes**

All plates are 2X4(A1) except as noted.

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

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

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

Refer to DWG PB160160118 for piggyback details. The overall height of this truss excluding overhang is



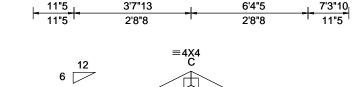
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

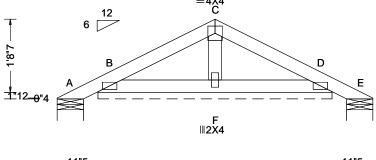
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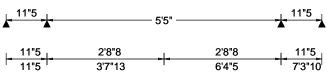
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, 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: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 727820 COMN Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T42 FROM: CDM DrwNo: 290.23.1334.52610 Qty: 3 K & A Patel Truss Label: PB02 AM / DF 10/17/2023







				_
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Stid: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 21.03 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Cs: NA Lu: NA Cs: NA Snow Duration: N	PP Deflection in loc L/defl L/# VERT(LL): 0.001 D 999 240 VERT(CL): 0.001 D 999 180 HORZ(LL): 0.000 B HORZ(TL): 0.001 B Creep Factor: 2.0 Max TC CSI: 0.085 Max BC CSI: 0.038 Max Web CSI: 0.018  VIEW Ver: 22.02.00.0914.12	

▲ M	aximu	ım Rea	ictions (I	• •		
	G	ravity		No	on-Gra	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Α	-	/-4	/-	/21	/26	/43
B*	83	/-	/-	/53	/16	/-
E	-	/-4	/-	/2	/7	/-
Win	d read	tions b	ased on I	<b>MWFRS</b>		
Α	Brg V	Vid = 7.	.3 Min I	Req = 1.5	(Trus	s)
		Vid = 6	5.0 Min f	Req = -		
Ε	E Brg Wid = 7.3 Min Req = 1.5 (Truss)					
Bearings A, B, & E are a rigid surface.						
Men	nbers	not list	ed have fo	orces les	s than	375#

#### Lumber

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

### **Plating Notes**

All plates are 2X4(A1) except as noted.

#### Wind

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

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

Refer to DWG PB160160118 for piggyback details. The overall height of this truss excluding overhang is 1-10-3.



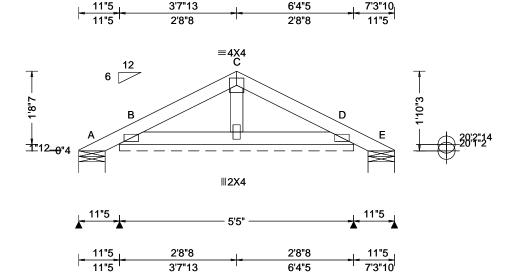
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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SEQN: 727811 COMN Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T7 FROM: CDM Qty: 4 DrwNo: 290.23.1334.58643 K & A Patel Truss Label: PB03 AM / DF 10/17/2023



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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	1
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 B 999 240	!
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 B 999 180	L
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 B	ı
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 B	E
NCBCLL: 10.00	Mean Height: 15.32 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	١
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.066	1:
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.038	Ľ
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.017	H
_	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		١i
	GCpi: 0.18	Plate Type(s):		Ι΄
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12	l
				-

▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity							
Loc	R+		/ Rh		/ U	/ RL	
Α	-	/-2	/-	/27	/24	/47	
B*	83	/-	/-	/58	/10	/-	
Е	-	/-2	/-	/6	/2	/-	
Win	d read	tions b	ased on N	/WFRS			
Α	Brg W	/id = 7.	3 Min F	Req = 1.5	(Trus	s)	
В	Brg V	/id = 6	5.0 Min F	Req = -	-	-	
Е	Brg V	/id = 7.	3 Min F	Req = 1.5	(Trus	s)	
Bearings A, B, & E are a rigid surface.							
Mer	nbers	not liste	ed have fo	rces les	s than	375#	
					a	0.0.,	

#### Lumber

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

### **Plating Notes**

All plates are 2X4(A1) except as noted.

#### Loading

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

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

Wind loading based on both gable and hip roof types.

### **Additional Notes**

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 1-10-3



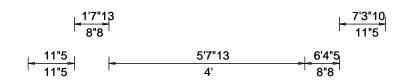
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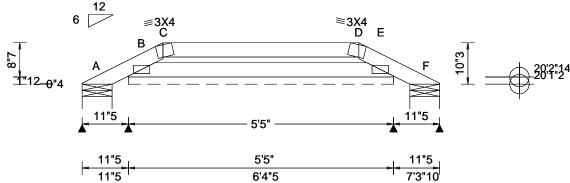
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Landing Critoria (c. c)	Wind Criteria	Crow Critoria (D. Dt : DOE)	Defl/CCI Cuiteria	Т
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	1
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	l
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 C 999 240	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.004 C 999 180	l
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 E	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.002 E	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.188	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.079	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	
, J	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		l
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12	
Lumber	•	•	•	-

▲ Maximum Reactions (lbs), or *=PLF						
Gravity Non-Gravity						
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Α	-	/-13	/-	/3	/11	/19
В*	87	/-	/-	/57	/10	/-
F	-	/-13	/-	/5	/12	/-
Win	d read	ctions ba	ased on N	/WFRS		
Α	Brg V	Vid = 7.	3 Min F	Req = 1.5	(Trus	s)
В	Brg V	Vid = 65	5.0 Min F	. = eq	•	•
F Brg Wid = 7.3 Min Reg = 1.5 (Truss)						
Bearings A, B, & F are a rigid surface.						
Mer	nbers	not liste	ed have fo	orces les	s than	375#

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

### **Plating Notes**

All plates are 2X4(A1) except as noted.

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

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

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

Refer to DWG PB160160118 for piggyback details. The overall height of this truss excluding overhang is



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SEQN: 727772 VAL Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T9 FROM: CDM Qty: 1 K & A Patel DrwNo: 290.23.1335.04720 Truss Label: V01 AM / DF 10/17/2023 6'8"8 13'5" 6'8"8 6'8"8 ≡4X4 B ≡3X4(D1) C =3X4(D1) 14'7"15 \_\_\_\_\_\_ ∥2X4 13'5" 6'8"8 6'8"8 6'8"8 13'5" ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL

E\* 82 /-/-/12 Wind reactions based on MWFRS E Brg Wid = 161 Min Req = -Bearing A is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 633 - 320 B-C 633 - 331 Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp. Chords Tens. Comp. A - D 374 - 501 D-C 374 - 501

Maximum Web Forces Per Ply (lbs) Webs Tens.Comp.

B - D 517 - 829

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

#### Wind

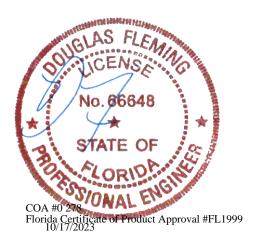
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

### **Additional Notes**

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 3-4-8.



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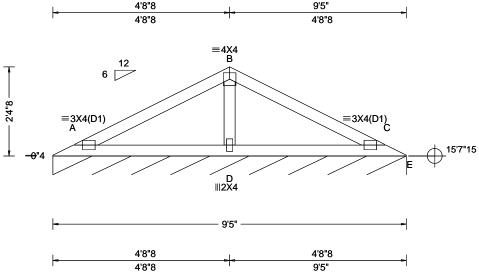
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SEQN: 727770 VAL Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T10 FROM: CDM Qty: 1 K & A Patel DrwNo: 290.23.1335.06653 Truss Label: V02 AM / DF 10/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.012 C 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.024 C 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.005 C
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 17.00 ft		HORZ(TL): 0.010 C
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.280
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.245
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.106
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12
Lumbor	·		<u> </u>

#### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL E\* 82 /-/-/40 Wind reactions based on MWFRS E Brg Wid = 112 Min Req = Bearing A is a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. B - D 356 - 460

### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.

### **Additional Notes**

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 2-4-8.



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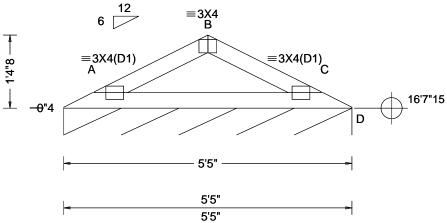
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SEQN: 727768 VAL Ply: 1 Job Number: 23-0117 Cust: R 215 JRef: 1XTZ2150008 T24 FROM: CDM DrwNo: 290.23.1335.08810 Qty: 1 K & A Patel Truss Label: V03 AM / DF 10/17/2023





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.009 C 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.018 C 999 180
	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.003 C
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 17.50 ft		HORZ(TL): 0.006 C
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.143
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.172
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12
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▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL D\* 82 /-/-/38 /5 Wind reactions based on MWFRS D Brg Wid = 65.0 Min Req = Bearing A is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

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

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is



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### Gable Stud Reinforcement Detail

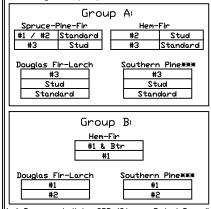
ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

Dr: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1,00

						· 100 mpm	William Opec	o, 10 11cu	' 'I'cigiro, i	u. v.u,	100000, 27	(poson c s)	112 1100	
		2x4 Vertica	Brace	No	(1) 1×4 "L	" Brace *	(1) 2×4 *L	" Brace *	(2) 2×4 *L	Brace **	(1) 2×6 *L	" Brace *	(2) 2×6 L	Brace **
ا ے	Spacing	Species	Grade	Braces	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
章 [		CDC	#1 / #2	4′ 3″	7′ 3″	7' 7"	8′ 7 <b>″</b>	8′ 11″	10′ 3″	10′ 8 <b>″</b>	13′ 6″	14' 0"	14' 0"	14′ 0″
	1.7	SPF	#3	4′ 1″	6′ 7 <b>″</b>	7′ 1″	8′ 6 <b>″</b>	8′ 10 <b>″</b>	10′ 1″	10′ 6 <b>″</b>	13′ 4″	13′ 10 <b>″</b>	14′ 0″	14′ 0″
$  \ \   \ \   \  $	Ų	HF	Stud	4′ 1″	6′ 7 <b>″</b>	7′ 0 <b>″</b>	8′ 6 <b>″</b>	8′ 10 <b>″</b>	10′ 1″	10′ 6″	13′ 4″	13′ 10 <b>″</b>	14′ 0″	14′ 0″
>	0	1 11	Standard	4′ 1″	5′ 8 <b>″</b>	6′ 0 <b>″</b>	7′ 7″	8′ 1 <b>″</b>	10′ 1″	10′ 6″	11′ 10″	12′ 8″	14′ 0″	14′ 0″
ا به ا			#1	4′ 6″	7′ 4″	7′ 8″	8′ 8 <b>″</b>	9′ 0″	10′ 4″	10′ 9 <b>′</b>	13′ 8″	14′ 0″	14′ 0″	14′ 0″
-	*	SP	#2	4′ 3″	7′ 3″	7' 7"	8′ 7 <b>″</b>	8′ 11″	10′ 3″	10′ 8 <b>′</b>	13′ 6″	14′ 0″	14' 0"	14′ 0″
	4	l	#3	4′ 2″	6′ 0 <b>″</b>	6′ 4″	7′ 11″	8′ 6 <b>″</b>	10′ 2″	10′ 7″	12′ 5″	13′ 4″	14′ 0″	14′ 0″
	$\Omega$	DFL	Stud	4′ 2″	6′ 0″	6′ 4″	7′ 11″	8′ 6 <b>″</b>	10′ 2″	10′ 7″	12′ 5″	13′ 4″	14′ 0″	14′ 0″
1 8 1			Standard	4′ 0″	5′ 3″	5′ 7 <b>″</b>	7′ 0 <b>″</b>	7′ 6″	9′ 6″	10′ 2 <b>′</b>	11′ 0″	11′ 10″	14′ 0″	14′ 0″
1.51		SPF	#1 / #2	4′ 11″	8′ 4″	8′ 8 <b>″</b>	9′ 10″	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
+>	. <del>.</del>	761	#3	4′ 8″	8′ 1″	8′ 8 <b>″</b>	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	Ō	HF	Stud	4′ 8 <b>″</b>	8′ 1″	8′ 6 <b>″</b>	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
امَا	Ō	1 11	Standard	4′ 8″	6′ 11″	7′ 5 <b>″</b>	9′ 3 <b>″</b>	9′ 11″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1~1			#1	5′ 1 <b>″</b>	8′ 5 <b>″</b>	8′ 9 <b>″</b>	9′ 11″	10′ 4″	11′ 10″	12′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
/		SP	#2	4′ 11″	8′ 4″	8′ 8″	9′ 10 <b>″</b>	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	è	L.	#3	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 0 1	Ţ	DFL	Stud	4′ 9 <b>″</b>	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 = 1			Standard	4′ 8 <b>″</b>	6′ 5″	6′ 10 <b>″</b>	8′ 7 <b>″</b>	9′ 2 <b>′</b>	11′ 7″	12′ 1″	13′ 6 <b>″</b>	14′ 0″	14′ 0″	14′ 0″
		SPF	#1 / #2	5′ 5″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	11′ 8″	13′ 5″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
절			#3	5′ 1″	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
0	Ų	HF	Stud	5′ 1 <b>′</b>	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	Ō	1 11	Standard	5′ 1 <b>″</b>	8′ 0″	8′ 6 <b>″</b>	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
$  \times  $	_		#1	5′ 8″	9′ 3″	9′ 8″	10′ 11″	11′ 4″	13′ 0″	13′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
8		SP	#2	5′ 5″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	12′ 11″	13′ 5″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
۱ĕ۱	ù		#3	5′ 3″	8′ 5″	9′ 0″	10′ 9″	11′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	$\ddot{\Box}$	DFL	Stud	5′ 3 <b>″</b>	8′ 5 <b>″</b>	9′ 0″	10′ 9″	11′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	5′ 1 <b>″</b>	7′ 5″	7′ 11″	9′ 11″	10′ 7″	12′ 9″	13′ 3″	14′ 0 <b>″</b>	14′ 0″	14′ 0″	14′ 0″



Bracing Group Species and Grades:

1x4 Braces shall be SRB (Stress-Rated Board) \*\*For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards, Group B values may be used with these grades.

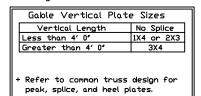
Gable Truss Detail Notes: Wind Load deflection criterion is L/240.

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

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

Attach "L" braces with 10d (0.128"x3.0" min) nails. \* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones. ₩ ¥For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

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



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

#### Gable Truss Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web "L" Brace End total length is 14'. Zones, typ. 2x4 DF-L #2 or better diagonal brace; single Vertical length shown or double cut in table above. (as shown) at upper end. Connect diagonal at bovefor max gable vertical Refer to chart, lena midpoint of vertical web. vo. 66648

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

MAX, TOT, LD, 60 PSF

MAX. SPACING 24.0"

# CLR Reinforcing Member Substitution

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

### Notes:

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

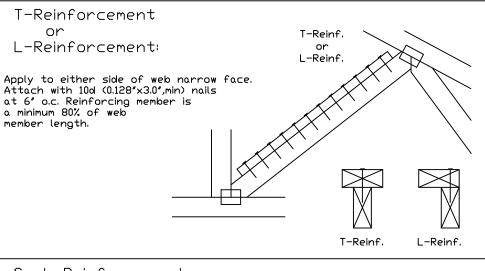
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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

Web Member	Specified CLR	Alternative Reir	
Size	Restraint	T- or L- Reinf.	
2x3 or 2x4	1 row	2×4	1-2×4
2x3 or 2x4	2 rows	2×6	2-2×4
2×6	1 row	2×4	1-2×6
2×6	2 rows	2×6	2-2×4( <b>米</b> )
5×8	1 row	2×6	1-2×8
5×8	2 rows	2×6	2-2×6( <del>*/</del> )

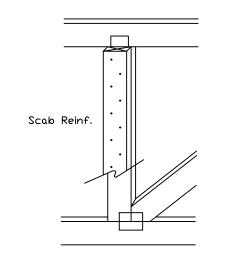
T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

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



### Scab Reinforcement:

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



IGLAS FLEN

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STATE OF LORIDAN

TC LL	PSF
TC DL	PSF
BC DL	PSF
BC LL	PSF
TOT. LD.	PSF

DUR. FAC.

SPACING

REF CLR Subst.

DATE 01/02/19

DRWG BRCLBSUB0119

ALPINE ALPINE

# 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. Gable Vertical Length \ typ. 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.", min) Nails at 4" o.c. plus

(4) nails in the top and bottom chords.

10d Common (0.148"x3".min) Toenails at 4" o.c. plus

(4) toenails in the top and bottom chords.

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

ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

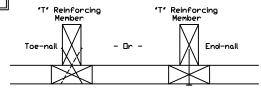
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, \$15015ENC100118

\$18015ENC100118, \$20015ENC100118, \$20015END100118, \$2,0015PE0100118, S11530ENC100118, S12030ENC100118, S14030EN 100118, S16030ENC100118

S18030ENC100118, S20030ENC100118, S2003 Ninovia S20030ED100118

See appropriate Alpine gable detail for maximum phreinconced gable versics

#### "T" Reinforcement Attachment Detail



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

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

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

### Web Length Increase w/ "T" Brace

"T" Reinf.	"T"		
Mbr. Size	Increase		
2×4	30 %		
2x6	20 %		

#### Example:

ASCE 7-10 Wind Speed = 120 mph Mean Roof Height = 30 ft, Kzt = 1.00 Gable Vertical = 24°o.c. SP #3 "T" Reinforcing Member Size = 2x4

"T" Brace Increase (From Above) = 30% = 1.30

(1) 2x4 "L" Brace Length = 8' 7" Maximum "T" Reinforced Gable Vertical Length

 $1.30 \times 8' \ 7'' = 11' \ 2''$ 

# Ceiling

Rigid Sheathing

4 Nails

Nails

Spaced At

4 Nails

Reinforcing

Member

Gable

Truss

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

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



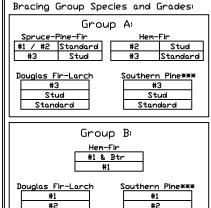
### Gable Stud Reinforcement Detail

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

Dr: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Dr: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

					Or	: 100 mph	wind spee	d, 30' Mear	n Height, P	artially Er	nclosed, Ex	posure D,	Kzt = 1.00	l	
		2x4 Vertica	Brace	No	(1) 1×4 "L	* Brace *	(1) 2×4 *L	" Brace *	(2) 2×4 L	" Brace **	(1) 2×6 <b>"</b> L	" Brace *	(2) 2×6 L	Brace **	
th	Spacing Species		Grade		Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	
	O'U'	SPF HF	#1 / #2	4′ 1″	6′ 11″	7′ 2″	8′ 2 <b>″</b>	8′ 6″	9′ 9 <b>″</b>	10′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	
			#3	3′ 10″	6′ 2″	6′ 7″	8′ 1″	8′ 5 <b>″</b>	9′ 8″	10′ 0″	12′ 8 <b>″</b>	13′ 2″	14′ 0″	14′ 0″	l
l gn			Stud	3′ 10″	6′ 2″	6′ 6 <b>″</b>	8′ 1″	8′ 5 <b>″</b>	9′ 8″	10′ 0″	12′ 8″	13′ 2″	14′ 0″	14′ 0″	l
			Standard	3′ 10 <b>″</b>	5′ 3 <b>″</b>	5′ 7 <b>″</b>	7′ 0″	7′ 6″	9′ 6 <b>″</b>	10′ 0″	11′ 0″	11′ 10″	14′ 0″	14′ 0″	l
به	-		#1	4′ 2″	7′ 0″	7′ 3″	8′ 3 <b>″</b>	8′ 7 <b>″</b>	9′ 10″	10′ 3″	13′ 0″	13′ 6″	14′ 0″	14′ 0″	
	*	ISP	#2	4′ 1″	6′ 11″	7′ 2″	8′ 2 <b>″</b>	8′ 6 <b>″</b>	9′ 9″	10′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	l
	4	DFL	#3	4′ 0″	5′ 7 <b>″</b>	5′ 11 <b>″</b>	7′ 5 <b>″</b>	7′ 11″	9′ 8″	10′ 1″	11′ 7″	12′ 5″	14′ 0″	14′ 0″	l
	à		Stud	4′ 0″	5′ 7″	5′ 11 <b>″</b>	7′ 5 <b>″</b>	7′ 11″	9′ 8 <b>″</b>	10′ 1″	11′ 7″	12′ 5″	14′ 0″	14′ 0″	l
d			Standard	3′ 9″	4′ 11″	5′ 13 <b>″</b>	6′ 6 <b>″</b>	7′ 0 <b>″</b>	8′ 10 <b>″</b>	9′ 6″	10′ 3″	11′ 0″	13′ 11″	14′ 0″	ı
<u>U</u> .U		SPF	#1 / #2	4′ 8″	7′ 11″	8′ 3 <b>″</b>	9′ 4″	9′ 9″	11′ 2″	11′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
=	Ū O		#3	4′ 5 <b>″</b>	7′ 6″	8′ 3 <b>″</b>	9′ 3″	9′ 7″	11′ 0″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	ı
٦ ز		HF	Stud	4′ 5 <b>″</b>	7′ 6″	8′ 0 <b>″</b>	9′ 3″	9′ 7″	11′ 0″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
là		1 11	Standard	4′ 5 <b>″</b>	6′ 5 <b>″</b>	6′ 10 <b>″</b>	8′ 7 <b>″</b>	9′ 2″	11′ 0″	11′ 6″	13′ 6″	14′ 0″	14′ 0″	14′ 0″	ı
>			#1	4′ 10″	8′ 0 <b>″</b>	8′ 4 <b>″</b>	9′ 6″	9′ 10″	11′ 3″	11′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
		ISP I	#2	4′ 8″	7′ 11″	8′ 3″	9′ 4″	9′ 9″	11′ 2″	11′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	ı
	\ \dots	DFL	#3	4′ 7″	6′ 10 <b>″</b>	7′ 3″	9′ 1″	9′ 8″	11′ 1″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
lω	1		Stud	4′ 7″	6′ 10 <b>″</b>	7′ 3″	9′ 1″	9′ 8″	11′ 1″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	i
Gable	` '		Standard	4′ 5″	6′ 0 <b>″</b>	6′ 5 <b>″</b>	8′ 0 <b>″</b>	8′ 7 <b>″</b>	10′ 10″	11′ 6″	12′ 7″	13′ 15″	14′ 0″	14′ 0″	l
		ر ر	#1 / #2	5′ 2 <b>″</b>	8′ 9 <b>″</b>	9′ 1″	10′ 4″	10′ 9″	11′ 2″	12′ 9 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″	ıΙ
	0 0	SPF	#3	4′ 10″	8′ 7 <b>″</b>	8′ 11″	10′ 2″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
		HF	Stud	4′ 10″	8′ 7 <b>″</b>	8′ 11 <b>″</b>	10′ 2″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
			Standard	4′ 10″	7′ 5″	7′ 11″	9′ 11″	10′ 7″	12′ 2″	12′ 8 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
X			#1	5′ 4″	8′ 10 <b>″</b>	9′ 2″	10′ 5 <b>″</b>	10′ 10 <b>″</b>	12′ 5 <b>″</b>	12′ 11″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
12		SP	#2	5′ 2 <b>″</b>	8′ 9″	9′ 1″	10′ 4″	10′ 9″	12′ 3 <b>″</b>	12′ 9 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″	ı



1x4 Braces shall be SRB (Stress-Rated Board) \*\*For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards, Group B values may be used with these grades.

Gable Truss Detail Notes: Wind Load deflection criterion is L/240.

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

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

Attach "L" braces with 10d (0.128"x3.0" min) nails. ★ For (1) "L" brace: space nalls at 2" o.c. in 18" end zones and 4" o.c. between zones. ₩ \*\*For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

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

Gable Vertical Plate Sizes								
Vertical Length	No Splice							
Less than 4' 0"	2X4							
Greater than 4' 0", but less than 11' 6"	3X4							
Greater than 11' 6"	4X4							
+ Refer to common truss design for peak, splice, and heel plates.								

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

#### About P Gable Truss Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 525# at each end. Max web "L" Brace End total length is 14'. Zones, typ. 2x6 DF-L #2 or better diagonal brace; single Vertical length shown or double cut in table above. (as shown) at upper end. ontinuous Bearing Connect diagonal at above for Max bRAPrtica leng Refer to chart midpoint of vertical web.

10' 3"

10' 3"

9' 3"

10' 8"

10' 8"

9' 10"

Symm

12' 2"

12' 2"

12' 2"

12' 8"

12' 8"

12' 8"

14' 0"

14' 0"

14' 0"

14' 0"

14' 0"

14' 0"

14' 0"

14' 0"

14' 0"

14' 0"

14' 0"

14' 0"

5′ 0″

5′ 0′

4' 10"

7' 10"

7' 10"

6' 11"

8' 4"

8′ 4″

7' 4"

#3

Stud

Standard

Trusses require extreme care in fabricating, shaping, installing and bracing. Ref. 10 and follow the latest edition of BCSI (Building Component Safety information, by TPI and SBCA) 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 process the safety information by TPI and SBCA) for safety but the safety information by TPI and SBCA) for safety shall have a properly attached rigid ceiling. Locations shown for permanent latent restraint of sost shall have bracing installed per BCSI sections B3, B7 or BIO, as applicable. Apply plates to each first of truss and position as shown above and on the Joint Betalls, unless noted otherwise.

Refer to drawings 160A-Z for standard plate positions.

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

MAX, TOT, LD, 60 PSF

MAX. SPACING 24.0"

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

 $\Omega$ 

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

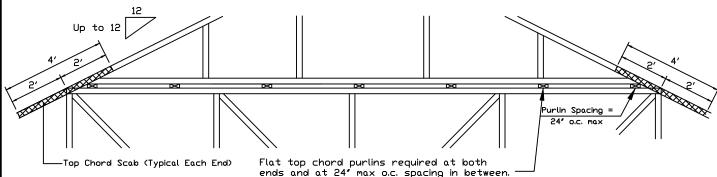
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0. Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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



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

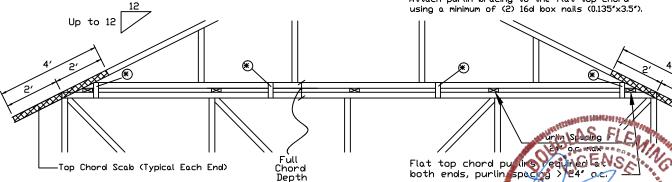
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

# Detail B: Purlin Spacing > 24" o.c.

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

Attach purlin bracing to the flat top chord



Note: If purlins or sheathing are not specified on the flat top of the bases truss, purlins must be installed at 24" o.c. max. and use Detail 4

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

Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

#### APA Rated Gusset

8'x8'x7'16' (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.13'x2') nalls per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

#### 2x4 Vertical Scabs

2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered o.c. front to back faces.

#### 28PB Wave Piggyback Plate

Dine 28PB wave piggyback plate to each face 8 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120'x1.375' nails per face per ply.
Piggyback plates may be staggered 4' o.c. front to back faces.

# \*\*\*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 this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPJ: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

No. 66648

IREF **PIGGYBACK** DATE 01/02/2018

DRWG PB160160118

SPACING 24.0"

# Valley Detail - ASCE 7-16: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

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

\*\* Attach each valley to every supporting truss with 535# connection or with (1) Simpson H2.5A or equivalent connector for

ASCE 7-16 180 mph. 30' Mean Height, Part. Enc. Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00

ASCE 7-16 160 mph. 30' Mean Height, Part. Enc. Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

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

All plates shown are Alpine Wave Plates.

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

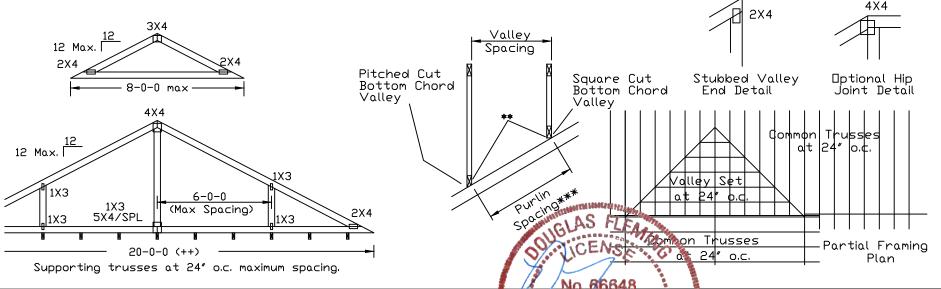
Top chord of truss beneath valley set must be braced with properly attached, rated sheathing applied prior to valley truss installation.

□r

Purlins at 24" o.c. or as otherwise specified on engineer's sealed design  $\Box r$ 

By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

- \*\*\* Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.
- ++ Larger spans may be built as long as the vertical height does not exceed 14'-0''.



ALPINE AN ITW COMPANY IN

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

# \*\*\*VARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING \*\*\*\*IMPORTANT\*\*\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

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	4	t	LL	30	30	40PSF	REF	VALLEY	DETAIL
		t	DL	20	15	7PSF	DATE	01/26/20	018
STATE OF	95	<b>\$</b> C	DL	10	10	10 PSF	DRWG	VAL18016	50118
A OBIO S		ВС	LL	0	0	0 PSF			
JOHN ENG	ST. WELL	TOT	Γ. LD.	60	55	57PSF			
10/17/2023 10/17/2023 10/17/2023	278	DUR.	FAC.1.25	5/1.33	1.15	1.15			
•		SPA	ACING		24.	0"			

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

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

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

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

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

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

All plates shown are Alpine Wave Plates.

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

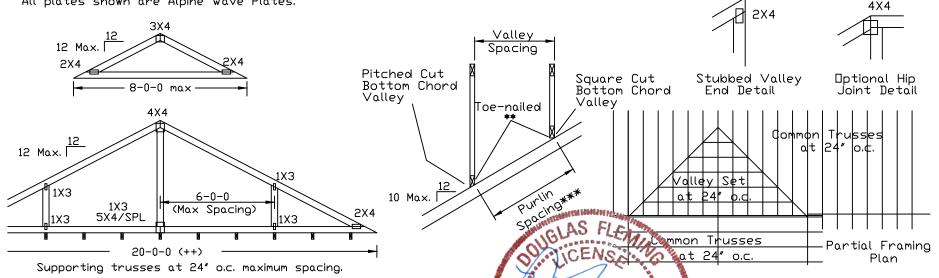
Top chord of truss beneath valley set must be braced with: properly attached, rated sheathing applied prior to valley truss installation.

Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

SPACING

By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design

- \*\*\* Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.
- ++ Larger spans may be built as long as the vertical height does not exceed 14'-0''.





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

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Refer to drawings IGOA-Z for standard plate positions. tom chord

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/No. 06648 ★	*
STATE OF	9
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TC L	L	30	30	40PSF	REF	VALLEY	DETAI
TC D	L	20	15	7PSF	DATE	01/26/20	018
BC D	L	10	10	10 PSF	DRWG	VALTN16	0118
BC L	L	0	0	0 PSF			
тот.	LD.	60	55	57PSF			
DUR.FA	C. 1.25	1.33	1.15	1.15			

24.0"