



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

Site Information:

Customer: W. B. Howland Company, Inc.

Job Number: 21-5359

Job Description: Dale and Amber Thompkins Addition

Address: LAKE CITY, FL

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res	IntelliVIEW Version: 20.01.01A
	JRef #: 1X7I2150002
Wind Standard: ASCE 7-16 Wind Speed (mph): 130	Design Loading (psf): 40.00
Building Type: Closed	

This package contains general notes pages, 7 truss drawing(s) and 2 detail(s).

Item	Drawing Number	Truss
1	210.21.0905.02787	A01
3	210.21.0905.04777	B01
5	210.21.0905.06557	B03
7	210.21.0905.10110	B05
9	GBLLETIN0118	

Item	Drawing Number	Truss
2	210.21.0905.03863	A02
4	210.21.0905.05680	B02
6	210.21.0905.07557	B04
8	A14015ENC160118	

## **General Notes**

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

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

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

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

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

## **Temporary Lateral Restraint and Bracing:**

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

#### Permanent Lateral Restraint and Bracing:

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

## **Connector Plate Information:**

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

#### Fire Retardant Treated Lumber:

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

# **General Notes** (continued)

## **Key to Terms:**

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

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

Refer to ASCE-7 for Wind and Seismic abbreviations.

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

#### References:

- 1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
- 2. ICC: International Code Council; www.iccsafe.org.
- 3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; <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.sbcindustry.com.

SEQN: 363436 COMN Ply: 1 Job Number: 21-5359 Cust: R 215 JRef: 1X7I2150002 T1 FROM: CDM Qty: 8 Dale and Amber Thompkins Addition DrwNo: 210.21.0905.02787 Truss Label: A01 SSB / YK 07/29/2021 6'4"14 24' 12' 17'7"2 6'4"14 6'4"14 5'7"2 5'7"2 ≡4X4 D 4'3"15 G H ≡3X4 ≡5X5 =2.5X6(A1) 24 8'3"4 7'5"8 8'3"4 <del>-</del> 1'8" <del>-</del> 8'3"4 15'8"12 24'

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	1
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 Wind Duration: 1.60	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): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.115 D 999 240 VERT(CL): 0.228 D 999 180 HORZ(LL): 0.035 H HORZ(TL): 0.070 H Creep Factor: 2.0 Max TC CSI: 0.432 Max BC CSI: 0.825 Max Web CSI: 0.226  VIEW Ver: 20.01.01A.0724.11	
Lumber				•

▲ Maxir	mum Rea	actions	(lbs)		
	Gravity			on-Grav	vity
Loc R	⊦ /R-	/ Rh	/ Rw	/ U	/ RL
B 108	2 /-	/-	/635	/207	/114
F 108	2 /-	/-	/635	/207	/-
Wind re	actions b	ased or	MWFRS		
B Brg	Width =	3.5	Min Re	q = 1.5	5
F Brg	Width =	3.5	Min Re	q = 1.5	5
Bearing	sB&Fa	are a rigi	d surface.		
Membe	rs not list	ed have	forces less	s than 3	375#
Maximu	ım Top (	Chord F	orces Per	Ply (lb	s)
Chords	Tens.Co	omp.	Chords	Tens.	Comp.
B-C	949 -	2218	D-E	854	- 1965
C - D	854 -	1964	F-F	949	- 2219

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**

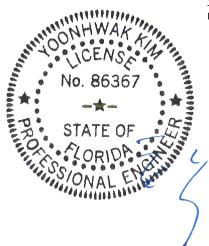
The overall height of this truss excluding overhang is

# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. C	omp.	
B - I	2057 - 822	H-F	2058	- 806	
- H	1408 - 501				

## Maximum Web Forces Per Ply (lbs)

vebs	vebs rens.comp.		rens. Comp.	
- D	502 - 180	D - H	503 - 19	Ω



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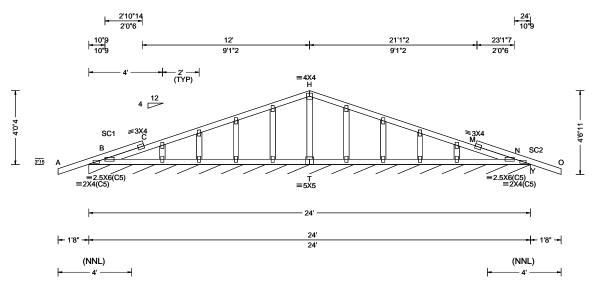
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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SEQN: 363440 GABL Ply: 1 Job Number: 21-5359 Cust: R 215 JRef: 1X7I2150002 T2 FROM: CDM Qty: 1 DrwNo: 210.21.0905.03863 Dale and Amber Thompkins Addition Truss Label: A02 SSB / YK 07/29/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
Loading Criteria (psf)	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	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	DefI/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.003 M 999 240 VERT(CL): 0.005 P 999 180 HORZ(LL): -0.001 M HORZ(TL): 0.001 M Creep Factor: 2.0 Max TC CSI: 0.264 Max BC CSI: 0.082 Max Web CSI: 0.036
	Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	FT/RT:20(0)/10(0) Plate Type(s):	VIEW Ver: 20.01.01A.0724.11
Lumbor	Willa Dalation. 1.00	WAVE	VIEVV VGI. 20.01.01A.0724.11

#### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rw /U /RL Y\* 90 /-/-/45 /1 Wind reactions based on MWFRS Brg Width = 288 Min Req = -Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

Stack Chord: SC2 2x4 SP #2;

#### **Plating Notes**

All plates are 2X4 except as noted.

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 4-0-4.



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SEQN: 363436 COMN Ply: 1 Job Number: 21-5359 Cust: R 215 JRef: 1X7I2150002 FROM: CDM Qty: 2 Dale and Amber Thompkins Addition DrwNo: 210.21.0905.04777 Truss Label: B01 SSB / YK 07/29/2021 6'4"14 24' 12' 17'7"2 6'4"14 6'4"14 5'7"2 5'7"2 ≡4X4 D 4'3"15 3"15 G H ≡3X4 ≡5X5 =2.5X6(A1) 24 8'3"4 7'5"8 8'3"4 <del>-</del> 1'8" <del>-</del> 8'3"4 15'8"12 24'

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	4
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00	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 Wind Duration: 1.60	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): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.115 D 999 240 VERT(CL): 0.228 D 999 180 HORZ(LL): 0.035 H HORZ(TL): 0.070 H Creep Factor: 2.0 Max TC CSI: 0.432 Max BC CSI: 0.825 Max Web CSI: 0.226  VIEW Ver: 20.01.01A.0724.11	
Lumber				•

▲ Maxi	imum Re	actions	(lbs)			
Gravity			No	on-Grav	vity	
Loc R	+ /R-	/ Rh	/ Rw	/ U	/ RL	
B 10	82 /-	/-	/635	/207	/114	
F 10	82 /-	/-	/635	/207	/-	
Wind re	eactions l	based on	MWFRS			
B Br	g Width =	= 3.5	Min Re	q = 1.5	;	
F Br	g Width =	= 3.5	Min Re	q = 1.5	;	
Bearing	gs B & F	are a rigi	d surface.	-		
Membe	ers not lis	ted have	forces less	s than 3	375#	
Maxim	um Top	Chord F	orces Per	Ply (lb	s)	
Chords	Tens.C	omp.	Chords	Tens.	Ćomp.	
B-C	949	- 2218	D-E	854	- 1965	
C-D		106/	F-F	0/0	- 2210	

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**

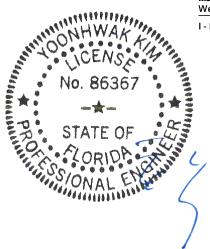
The overall height of this truss excluding overhang is

# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp	١.
B-I	2057 - 822	H-F	2058 - 80	6
I-H	1408 - 501			

## Maximum Web Forces Per Ply (lbs)

/v ebs	rens.comp. webs	vvebs	rens. Comp.		
- D	502 - 180	D-H	503 - 188	_	



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SEQN: 363442 COMN Ply: 1 Job Number: 21-5359 Cust: R 215 JRef: 1X7I2150002 FROM: CDM Qty: 1 Dale and Amber Thompkins Addition DrwNo: 210.21.0905.05680 Truss Label: B02 SSB / YK 07/29/2021 6'4"14 12 17'7"2 24' 6'4"14 5'7"2 5'7"2 6'4"14 4'3"15 4'10"6 \_\_\_\_\_H ≡3X4 3"8 8'8'8 8'3"4 7'5"8 8'3"4 <del>-</del> 1'8" <del>-</del> 15'8"12 8'3"4 24' ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL

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): 0.020 I 999 240			
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.046 I 999 180			
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.007 I			
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.017 I			
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: 0.652 Max BC CSI: 0.542			
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014				
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.322			
	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: 20.01.01A.0724.11			
Lumber						

В 561 /361 /109 /114 82 /-/42 /15 /277 411 /75 Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5 Brg Width = 179 Min Req = Brg Width = 3.5 Min Req = 1.5Bearings B, I, & F are a rigid surface. Members not listed have forces less than 375# **Maximum Top Chord Forces Per Ply (lbs)** Chords Tens.Comp.

B - C 213 - 644

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

Top chord: 2x4 SP #2;

# **Plating Notes**

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

Wind loads based on MWFRS with additional C&C

member design.

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

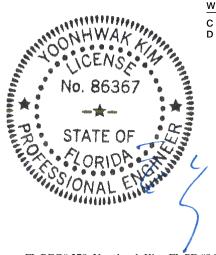
The overall height of this truss excluding overhang is 4-3-15

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

B - I 572 - 112

#### Maximum Web Forces Per Ply (lbs)

/ebs	Tens.Comp.	Webs	Tens. Comp.
-	276 - 442	H - E	278 - 447



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SEQN: 363438 COMN Ply: 1 Job Number: 21-5359 Cust: R 215 JRef: 1X7I2150002 T4 FROM: CDM Qty: 4 Dale and Amber Thompkins Addition DrwNo: 210.21.0905.06557 Truss Label: B03 SSB / YK 07/29/2021 6'4"14 12' 17'7"2 24' 6'4"14 5'7"2 5'7"2 6'4"14 ≡4X4 D 4'3"15 3"15 G H ≡3X4 ≡2X4(A1) 8'10"4 15'1"12 8'10"4 6'10"8 8'3"4 <del>--</del> 1'8" <del>--</del> 8'10"4 15'8"12 24'

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	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: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	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): WAVE	PP Deflection in loc L/defl L/#  VERT(LL): 0.026 E 999 240  VERT(CL): 0.052 I 999 180  HORZ(LL): 0.008 D  HORZ(TL): 0.020 I  Creep Factor: 2.0  Max TC CSI: 0.708  Max BC CSI: 0.601  Max Web CSI: 0.457	
Lumber	I	1447.44	1	۷

#### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw / U В 403 /254 /65 /114 1167 /-/-/604 /225 /-665 /436 /124 Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5В Brg Width = 3.5 Min Req = 1.5 Brg Width = 3.5 Min Req = 1.5Bearings B, I, & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

C-D 308 - 972 468 - 150 Ď-Ē 220 - 694

#### 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;

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

The overall height of this truss excluding overhang is

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

H-F 882 - 211

# Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - I	295 - 484	D - H	644 - 178
I - D	357 - 862	H - E	272 - 432



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SEQN: 363444 SPEC Ply: 1 Job Number: 21-5359 Cust: R 215 JRef: 1X7I2150002 T5 FROM: CDM Qty: 1 DrwNo: 210.21.0905.07557 Dale and Amber Thompkins Addition Truss Label: B04 SSB / YK 07/29/2021 6'4"14 12' 17'7"2 24 6'4"14 5'7"2 5'7"2 6'4"14 <sup>≷</sup>2X4 B 3"15 FG ≡5X5 F ≡3X4 =2X4(A1) =2X4(A1) 8'10"4 15'1"12 8'10"4 6'10"8 8'3"4 8'10"4 15'8"12 24' (Pa Pf in PSE) ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U 291 /168 /88 G 1169 /-/-/601 /230 /-

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): 0.027 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.057 G 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.011 G
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.023 G
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: 0.739
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.615
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.447
'	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: 20.01.01A.0724.11
Lumbor		•	•

#### 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

B - C D-E 336 - 1016 428 - 134 245 - 732 C-D

/346

Chords

/92

Tens. Comp.

Min Req = 1.5

Min Req = 1.5

Min Req = 1.5

# Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

Chords Tens.Comp.

552

F-E 927 - 264

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

Tens Comp

Wind reactions based on MWFRS Brg Width = 3.5

Bearings A, G, & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Brg Width = 3.5

Brg Width = 3.5

B - G	304 - 501	- C - F	670 - 189	
Б-G	304 - 501	C-F	670 - 169	
G-C	340 - 844	F-D	280 - 447	



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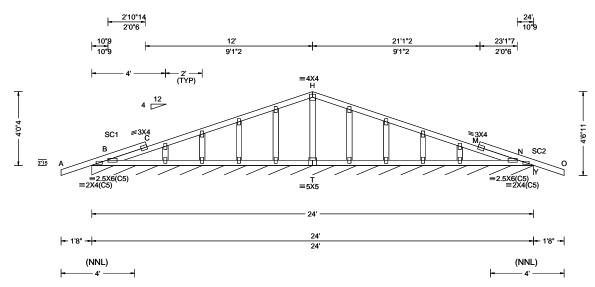
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SEQN: 363440 GABL Ply: 1 Job Number: 21-5359 Cust: R 215 JRef: 1X7I2150002 T7 Qty: 1 FROM: CDM DrwNo: 210.21.0905.10110 Dale and Amber Thompkins Addition Truss Label: B05 SSB / YK 07/29/2021



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): 0.003 M 999 240			
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.005 P 999 180			
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 M			
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.001 M			
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0 Max TC CSI: 0.264			
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.				
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.082			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.036			
	Loc. from endwall: Any	FT/RT:20(0)/10(0)				
	GCpi: 0.18	Plate Type(s):				
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11			
Lumbor						

#### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rw /U /RL Y\* 90 /-/-/45 /1 Wind reactions based on MWFRS Brg Width = 288 Min Req = -Bearing B is a rigid surface. Members not listed have forces less than 375#

# Lumber

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

Stack Chord: SC2 2x4 SP #2;

#### **Plating Notes**

All plates are 2X4 except as noted.

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 4-0-4.



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# Gable Stud Reinforcement Detail

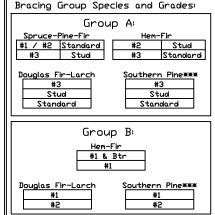
ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

Dr. 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D. Kzt = 1.00

		2x4 Vertica	Brace	No	(1) 1×4 "L	Brace *	(1) 2×4 *L		(2) 2×4 L	•	(1) 2×6 (L	" Brace *	(2) 2x6 <b>*</b> L	Brace **
	Spacing	Species	Grade	_	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
th		CDE	#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″
ˈo	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 <b>″</b>
	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″
a.			#1	4′ 6 <b>″</b>	7′ 4″	7′ 8 <b>″</b>	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 <b>″</b>	10′ 3″	10′ 8″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
	4	l	#3	4′ 2 <b>″</b>	6′ 0″	6′ 4″	7′ 11″	8′ 6 <b>″</b>	10′ 2″	10′ 7″	12′ 5 <b>′</b>	13′ 4″	14′ 0″	14′ 0″
	$\Omega$	IDFLI	Stud	4′ 2″	6′ 0 <b>″</b>	6′ 4″	7′ 11″	8′ 6 <b>″</b>	10′ 2″	10′ 7″	12′ 5 <b>′</b>	13′ 4″	14′ 0″	14′ 0″
ŭ			Standard	4′ 0″	5′ 3 <b>″</b>	5′ 7 <b>″</b>	7′ 0″	7′ 6″	9′ 6″	10′ 2″	11′ 0″	11′ 10″	14′ 0″	14′ 0″
		SPF	#1 / #2	4′ 11″	8′ 4″	8′ 8 <b>″</b>	9′ 10 <b>″</b>	10′ 3″	11′ 8″	12′ 2 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
+>		766	#3	4′ 8 <b>″</b>	8′ 1 <b>″</b>	8′ 8″	9′ 8 <b>′</b>	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
`_	$\cup$	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	5′ 1 <b>′</b>	8′ 5 <b>″</b>	8′ 9″	9′ 11″	10′ 4″	11′ 10″	12′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
/	*	SP	#2	4′ 11 <b>″</b>	8′ 4″	8′ 8 <b>″</b>	9′ 10″	10′ 3″	11′ 8″	12′ 2 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	è		#3	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14' 0"	14′ 0″	14′ 0″
0	Ţ	IDFLI	Stud	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	4′ 8″	6′ 5″	6′ 10 <b>″</b>	8′ 7 <b>″</b>	9′ 2″	11′ 7″	12′ 1″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
abl		SPF	#1 / #2	5′ 5 <b>″</b>	9′ 2″	9′ 6″	10′ 10 <b>″</b>	11′ 3″	11′ 8″	13′ 5 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
O		766	#3	5′ 1 <b>″</b>	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0 <b>″</b>	14′ 0″	14′ 0″	14′ 0″
0	$\cup$	HF	Stud	5′ 1 <b>″</b>	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0 <b>″</b>	14′ 0″	14′ 0″	14′ 0″
	Ō	1 11	Standard	5′ 1 <b>″</b>	8′ 0 <b>″</b>	8′ 6″	10′ 8″	11′ 1″	12′ 9 <b>″</b>	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
×	0		#1	5′ 8 <b>″</b>	9′ 3″	9′ 8″	10′ 11″	11′ 4″	13′ 0″	13′ 6 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
G	*	SP	#2	5′ 5″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	12′ 11″	13′ 5 <b>′</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
ľΣ	ù		#3	5′ 3 <b>″</b>	8′ 5 <b>″</b>	9′ 0″	10′ 9 <b>″</b>	11′ 2″	12′ 10 <b>″</b>	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	1,	DFL	Stud	5′ 3 <b>″</b>	8′ 5 <b>″</b>	9′ 0″	10′ 9″	11′ 2″	12′ 10 <b>″</b>	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″	14′ 0″	14′ 0″	14′ 0″



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.

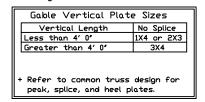
Gable Truss Detail Notes: Wind Load deflection criterion is L/240.

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. 2×4 DF-L #2 or better diagonal brace; single Vertical length shown or double cut in table above. (as shown) at upper end. Constituous Bearing Connect diagonal at Refer to chart above son midpoint of vertical web.

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Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this Job's general notes page and these web sites/29/2021 ALPINE: www.alpineltw.com; TPI: www.tpinstorg; SBCA: www.sbcindustry.org; ICC: www.lessof.com; Yoonhwak Kim, FL PE #86367

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

MAX, TOT, LD, 60 PSF

MAX. SPACING 24.0"

514 Earth City Expressway Suite 242 Earth City, MO 63045

# 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 Example: Length typ. (\* )

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

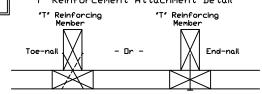
ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A14015ENC100118,

A18015ENC100118, A12015ENC100118, A12015ENC100118, A12015ENC100118, A120015ENC100118, A120015ENC100118, A120015ENC100118, A120015ENC100118, A12003ENC100118, A12003ENC100118, A120030ENC100118, A120030ENC100118,

\$18015ENC100118, \$20015ENC100118, \$20015END100118, \$20015PED100118 \$11530ENC100118, \$12030ENC100118, \$14030ENC100118, \$16030ENC100118)

\$18030ENC100118, \$20030ENC100118, \$20030END100118, \$20030PED100118 See appropriate Alpine gable detail for maximum unreinforced gable vertical "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 gable vertical length is 14' from top to bottom chord.

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

Web Length Increase w/ "T" Brace

"T" Reinf.	<b>'</b> T <b>'</b>				
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  $1.30 \times 8' \ 7'' = 11' \ 2''$ 

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A seal on this drawing or cover page listing this drawing, indicates acceptance of professional

engineering responsibility solely for the design shown. The sultability and use of this for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites, ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.lpusa.ee

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

MAX. TOT. LD. 60 PSF DUR. FAC. ANY

MAX. SPACING 24.0"



Rigid Sheathing

Ceiling

4 Nails

Nails

Spaced At

4 Nails

Reinforcing Member

Gable

Truss

514 Earth City Expressway Suite 242 Earth City, MO 63045

onbwak Kim EL PE #86367