Truss Verification Letter

Date: **February 1, 2022**

Project: **Vannucci 'Oakridge'**
4610 Tre Monte Lane
Healdsburg, California 95448

Project Number: **21-12-180**

To: **Casey Rogness**
DC Builders
11251 SE 232nd Ave.
Damascus, OR 97089

From: **J. Jacob Baglien, P.E**

Re: Vannucci Oakridge –Truss Shop Drawings

This letter is to certify that I, as the Engineer of Record for the above-listed project and location, have reviewed the attached truss shop drawings and calculations for the prefabricated floor trusses prior to submitting them to the building department and find them to be in general conformance with the plans and specifications (including, but not limited to, connections, design loads, load path, bearing points, etc.).

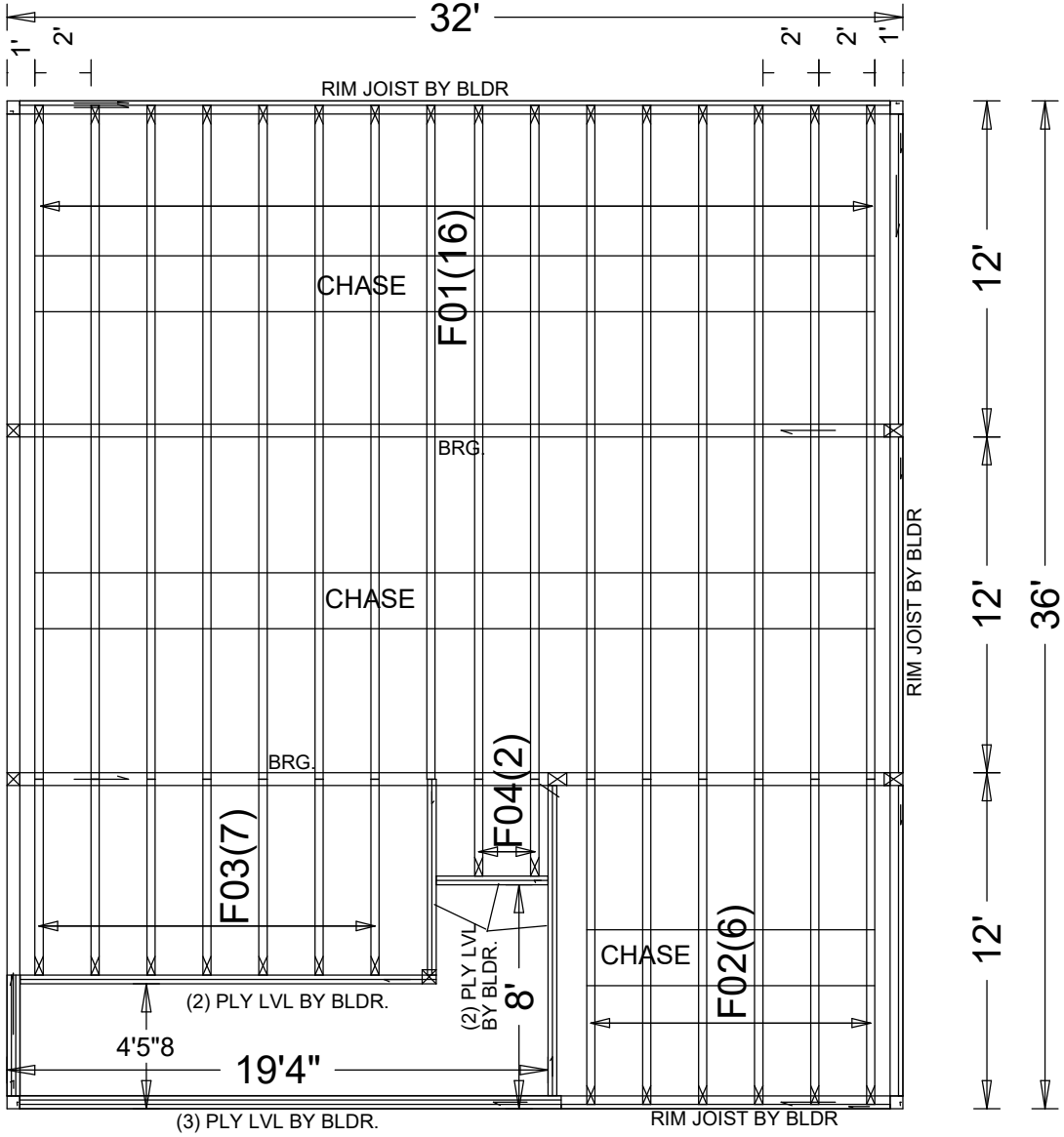
Project engineer stamp and signature below.

Digitally signed by Scott Ratterman
Date: 2022.02.01 11:19:52-08'00'

02/01/2022

Attachments: Truss Shop Calculations
Truss Shop Layout Drawing

Trusses must be braced temporarily and permanently as required for proper installation.
Refer to individual truss design drawings, BCSI sheets, and/or building designer for bracing information.



Hanger Schedule:
- Truss to Wall/Beam/Ledger: THA422 (UNO)

General Notes:
1. TCLL-TCDL-BCLL-BCDL: 40-10-0-5 (UNO)
2. Floor Trusses 14" Deep
3. 24" o.c. spacing (UNO).
4. Dimensions to outside of building (UNO).
5. Trusses may be shifted in field as req'd without exceeding max truss spacing.

Oregon Truss Inc.
17900 SE Wallace Rd.
Salem, OR 97304
(503) 581-8787

OREGON TRUSS ...We're Just Better

JOB NO.: 2201221DCS
Model:
Elev.:
Orientation:

Customer:: DC Structures, Inc.
Desc:: Villa Vannucci Oakridge F
Address: 11251 SE 232nd Ave
Date: 01-31-2022
Salesman: DT
Designer: SN

JOB NO:
2201221DC

PAGE NO:
1 OF 1

Alpine, an ITW Company
8801 Folsom Blvd., Suite 107
Sacramento, CA 95826
Phone: (800)877-3678 (916)387-0116
Fax: (916)387-1110
sacseals@itwbcg.com

Site Information:	**Page 1:**
Customer: Oregon Truss	*Job Number:* 2201221DCS
Job Description: Villa Vannucci Oakridge Floors	
Address: 11251 SE 232nd Ave, Damascus, OR 97089	

Job Engineering Criteria:	
Design Code: IRC 2018	*IntelliVIEW Version:* 21.02.00B *JRef #:* 1XcO4350010
Wind Standard: ASCE716 *Wind Speed (mph):* 0 *Building Type:*	*Design Loading (psf):* 55.00

This package contains general notes pages, 4 truss drawing(s) and 1 detail(s).

Item	Drawing Number	Truss
1	031.22.1638.32930	F01
3	031.22.1639.14650	F03
5	STRBRIBR1014	

Item	Drawing Number	Truss
2	031.22.1638.48463	F02
4	031.22.1639.36017	F04

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.

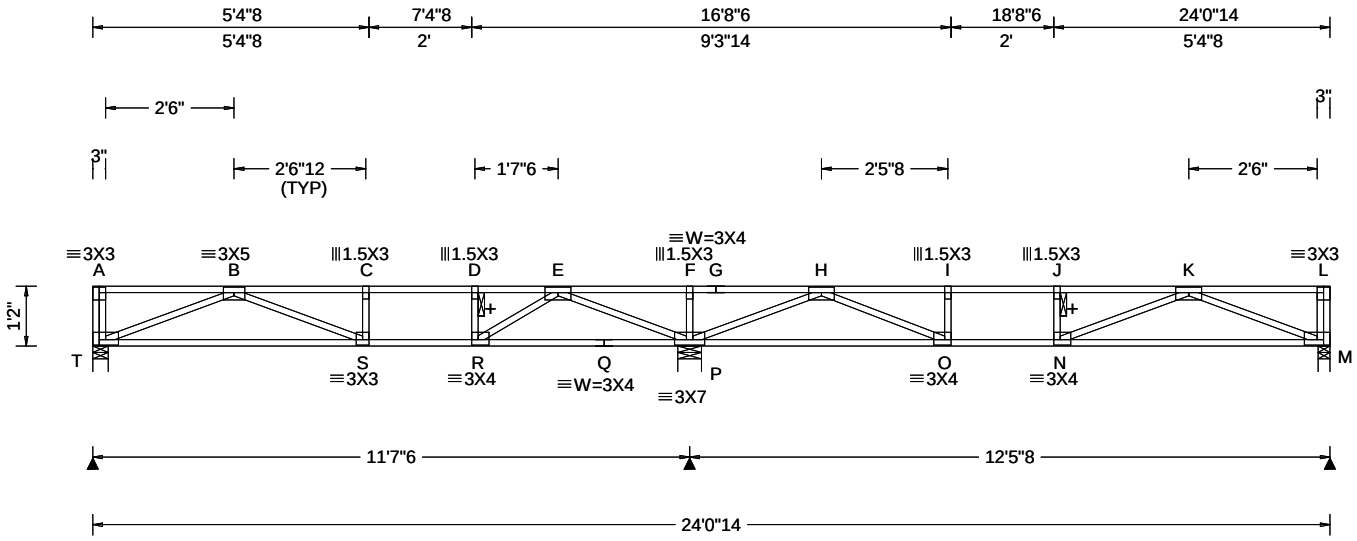
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze 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; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

SEQN: 26133 SY42 FROM:	Ply: 1 Qty: 16	**Job Number:** 2201221DCS Villa Vannucci Oakridge Floors **Truss Label:** F01	Cust: R 435 JRef:1XcO4350010 T2 DrwNo: 031.22.1638.32930 / CY 01/31/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	10.00
BCLL:	0.00
BCDL:	5.00
Des Ld:	55.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.00
Spacing:	24.0 "

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

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

Building Code:
IRC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT/PT:3(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.120	C	999	480
VERT(CL): 0.183	C	744	240
HORZ(LL): 0.024	M	-	-
HORZ(TL): 0.035	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.636
Max BC CSI: 0.373
Max Web CSI: 0.456

VIEW Ver: 21.02.00B.1108.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	625	/-	/-	/-	/-	/-
P	1396	/-	/-	/-	/-	/-
M	659	/-	/-	/-	/-	/-

T Brg Wid = 3.6 Min Req = 1.5 (Support)
P Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.8 Min Req = 1.5 (Support)
Bearings T, P, & M Fcperp = 625psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-1582	G - H	651	0
C - D	0	-1592	H - I	0	-1796
D - E	0	-1576	I - J	0	-1811
E - F	651	0	J - K	0	-1800
F - G	651	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
T - S	1170	0	P - O	1104	0
S - R	1592	0	O - N	1811	0
R - Q	1092	-14	N - M	1267	0
Q - P	1092	-14			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
T - B	0	-1268	P - H	0	-1498
B - S	483	0	H - O	898	0
R - E	774	0	N - K	606	0
E - P	0	-1381	K - M	0	-1369

Lumber

Top chord 4x2 DF-L 1800f-1.8E
Bot chord 4x2 DF-L 1800f-1.8E
Webs 4x2 DF-L Standard

Plating Notes

All plates are 3X6 except as noted.

Handling stresses not considered for plates.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Deflection estimate assumes composite action with single layer of the appropriate span rated glue-nailed wood sheathing.

Truss must be installed as shown with top chord up.

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

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

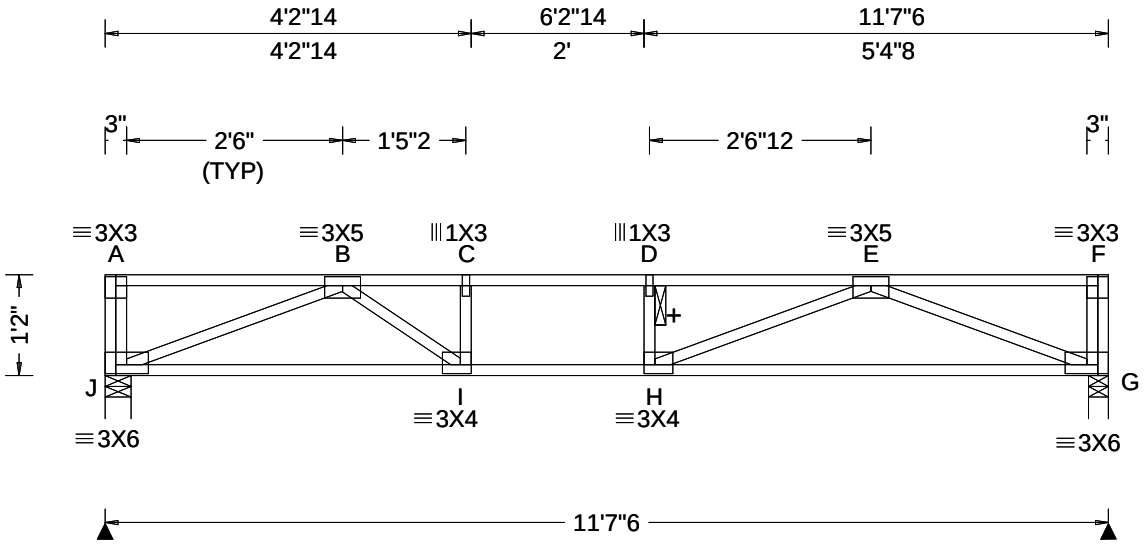
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

Oregon Truss
17900 SE Wallace Rd.
Dayton OR 97114
(503)581-8787

ALPINE
AN ITW COMPANY

8801 Folsom Blvd., Suite 107
Sacramento, CA 95826

SEQN: 26135 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** 2201221DCS Villa Vannucci Oakridge Floors **Truss Label:** F02	Cust: R 435 JRef:1XcO4350010 T3 DrwNo: 031.22.1638.48463 / CY 01/31/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.00
Spacing: 24.0 "

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

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

Building Code:
IRC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT/PT:3(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.107	D	999	480
VERT(CL): 0.166	D	804	240
HORZ(LL): 0.013	G	-	-
HORZ(TL): 0.018	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.572
Max BC CSI: 0.371
Max Web CSI: 0.317

VIEW Ver: 21.02.00B.1108.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
J	626	/-	/-	/-	/-	/-
G	624	/-	/-	/-	/-	/-

J Brg Wid = 3.6 Min Req = 1.5 (Support)
G Brg Wid = 2.7 Min Req = 1.5 (Support)
Bearings J & G Fcperp = 625psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-1585	D - E	0	-1591
C - D	0	-1600			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	1177	0	H - G	1180	0
I - H	1600	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
J - B	0	-1276	H - E	554	0
B - I	624	0	E - G	0	-1275

Lumber

Top chord 4x2 DF-L 1800f-1.8E
Bot chord 4x2 DF-L 1800f-1.8E
Webs 4x2 DF-L Standard

Plating Notes

Handling stresses not considered for plates.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Deflection estimate assumes composite action with single layer of the appropriate span rated glue-nailed wood sheathing.

Truss must be installed as shown with top chord up.

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

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

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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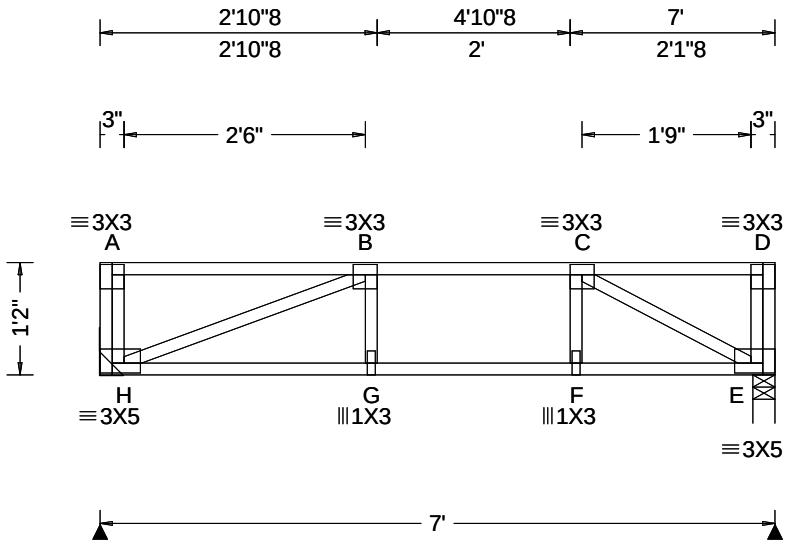
Sacramento, CA 95826

SEQN: 26143 SY42 FROM:	Ply: 1 Qty: 7	**Job Number:** 2201221DCS Villa Vannucci Oakridge Floors **Truss Label:** F03	Cust: R 435 JRef:1XcO4350010 T4 DrwNo: 031.22.1639.14650 / CY 01/31/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.00
Spacing: 24.0 "

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

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

Building Code:
IRC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT/PT:3(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.038	G	999	480
VERT(CL): 0.058	G	999	240
HORZ(LL): 0.012	B	-	-
HORZ(TL): 0.019	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.269
Max BC CSI: 0.234
Max Web CSI: 0.113

VIEW Ver: 21.02.00B.1108.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	372	/-	/-	/-	/-	/-
E	370	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
E Brg Wid = 2.7 Min Req = 1.5 (Support)
Bearing E Fcperp = 625psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	0	-534

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	535	0	F - E	530	0
G - F	534	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-580	C - E	0	-615

Lumber
Top chord 4x2 DF-L 1800f-1.8E
Bot chord 4x2 DF-L 1800f-1.8E
Webs 4x2 DF-L Standard

Plating Notes
Handling stresses not considered for plates.

Additional Notes
Deflection estimate assumes composite action with single layer of the appropriate span rated glue-nailed wood sheathing.
Truss must be installed as shown with top chord up.

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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(503)581-8787

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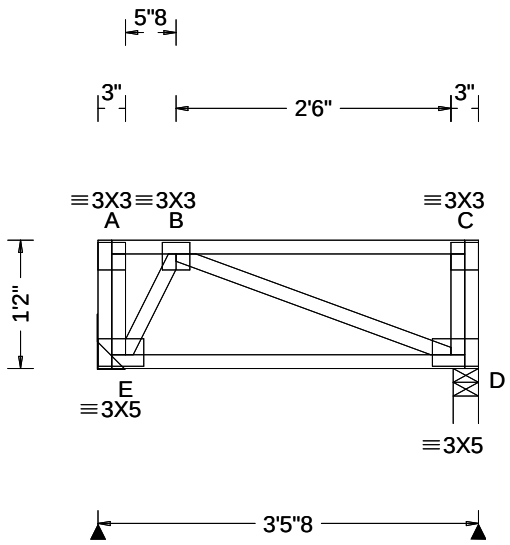
AN ITW COMPANY

8801 Folsom Blvd., Suite 107
Sacramento, CA 95826

SEQN: 26141 SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** 2201221DCS Villa Vannucci Oakridge Floors **Truss Label:** F04	Cust: R 435 JRef:1XcO4350010 T5 DrwNo: 031.22.1639.36017 / CY 01/31/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.00
Spacing: 24.0 "

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

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

Building Code:
IRC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT/PT:3(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	B	999	480
VERT(CL): 0.002	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.230
Max BC CSI: 0.062
Max Web CSI: 0.048

VIEW Ver: 21.02.00B.1108.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	178	/-	/-	/-	/-	/-
D	175	/-	/-	/-	/-	/-

E Brg Wid = - Min Req = -
D Brg Wid = 2.7 Min Req = 1.5 (Support)
Bearing D Fcperp = 625psi.
Members not listed have forces less than 375#

Lumber
Top chord 4x2 DF-L 1800f-1.8E
Bot chord 4x2 DF-L 1800f-1.8E
Webs 4x2 DF-L Standard

Plating Notes
Handling stresses not considered for plates.

Additional Notes
Deflection estimate assumes composite action with single layer of the appropriate span rated glue-nailed wood sheathing.
Truss must be installed as shown with top chord up.

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

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

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.

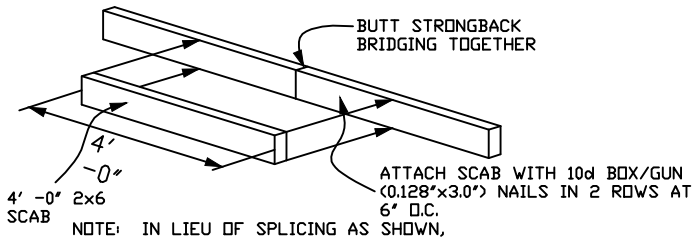
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

Oregon Truss
17900 SE Wallace Rd.
Dayton OR 97114
(503)581-8787

ALPINE
AN ITW COMPANY

8801 Folsom Blvd., Suite 107
Sacramento, CA 95826

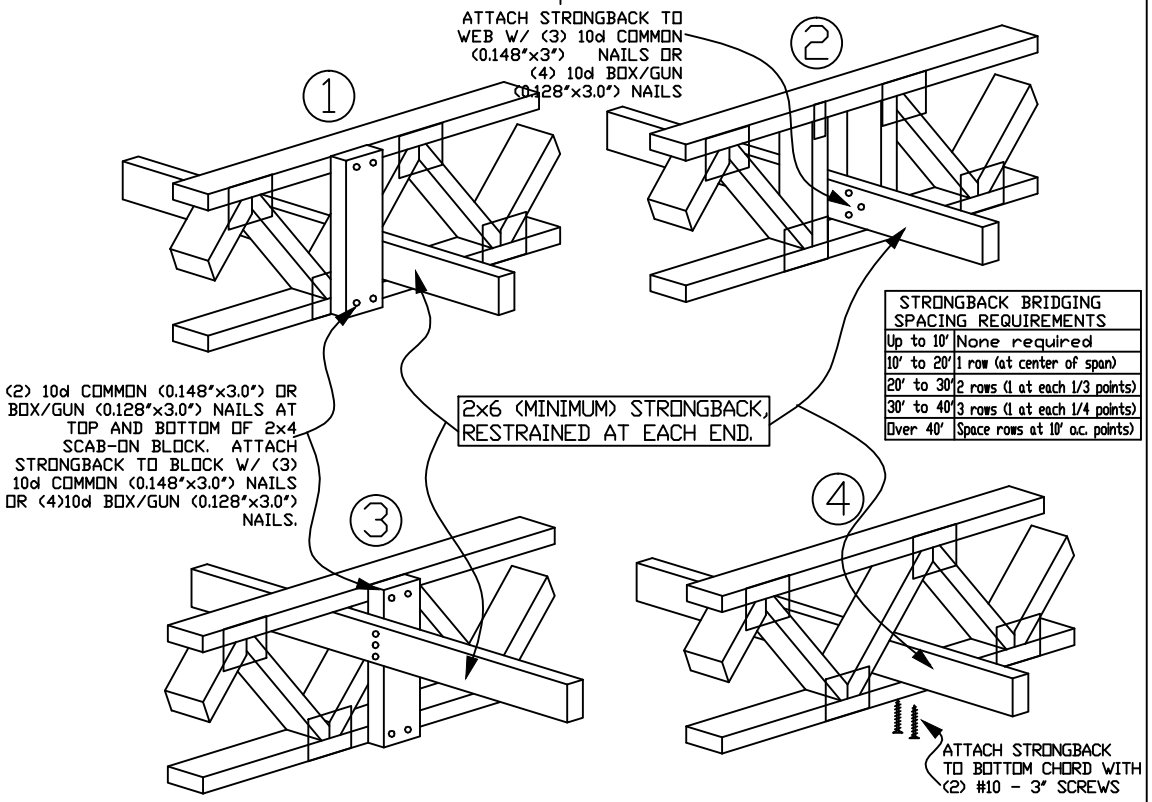
STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: IN LIEU OF SPLICING AS SHOWN, LAP STRONGBACK BRIDGING MEMBERS FOR AT LEAST ONE TRUSS SPACING

STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

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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.iccsafe.org

REGISTERED PROFESSIONAL ENGINEER
CHAO YANG
No. C92891
01/31/2022
CIVIL
STATE OF CALIFORNIA

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		