



City of Portland, Oregon - Bureau of Development Services

1900 SW Fourth Avenue • Portland, Oregon 97201 | 503-823-7300 | www.portland.gov/bds



Deferred Submittal Requirements and Application

Minimum Submittal Requirements (check all boxes and sign below):

For a full list of deferred submittal guidelines, please visit [our website](#).

- ☐ A copy of this application
- ☐ Plans stamped and signed by a Design Engineer or Architect registered in Oregon. One PDF copy of plans for electronic submittals or three copies for paper submittals.
- ☐ Calculations and product information. One PDF copy for electronic submittals or two copies for paper submittals.
- ☐ Prior to submitting the deferred submittal, the Engineer of Record and/or Architect of Record responsible for the building shall review the deferred submittal plans and supporting materials and add a notation indicating that the deferred submittal documents have been reviewed and found to be in general conformance with the design of the building. The notation shall be made on the deferred submittal drawings. Review stamps on letters of transmission are not acceptable.
Exception: the notation is not required on deferred submittals for fire sprinklers or roof trusses in residential construction when an Engineer or Architect of Record is not involved with the design of the building.
- ☐ Plan views and elevations identifying the location(s) as approved by the Engineer and/or Architect of Record must be submitted as appropriate but are required when the deferred submittal items include exterior elements.

I certify this deferred submittal application meets the minimum submittal requirements as outlined above.

Applicant Signature: _____ **Date:** _____

Applicant Submittal Information:

Applicant name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone: _____ Email: _____

Value of deferred submittal: \$ _____ Issued main building permit #: _____

Job Site Address: _____

Description/Scope of work: _____

Contractor Name: _____ CCB: _____

Engineer/Architect of Record for the building information (Not required for roof trusses in residential construction when an Engineer or Architect of Record is not involved with the design of the building)

Name: _____ Phone: _____

Design Engineer for the deferred items

Name: _____ Phone: _____

Fees

An invoice with permit fees will be sent to the applicant once minimum submittal requirements have been verified. Deferred submittal (DFS) fees are collected in addition to the standard building review fee paid on the main building permit. DFS fees cover the cost of the additional processing and review time associated with the design build element. The DFS fee for processing and reviewing deferred plan submittals is 10 percent of the building permit fee calculated using the value of the deferred portion of the project with a minimum fee of \$195 for 1 & 2 family dwelling projects or \$510 for commercial and all other projects.

The Bureau of Development Services (BDS) fee schedule is also available on the [BDS website](#).

Helpful Information

Bureau of Development Services
1900 SW 4th Avenue, Portland, OR 97201

Submit your plans to:

Development Services Center (DSC), First Floor,
For Hours Call 503-823-7310 | Select option 1 or
visit www.portland.gov/bds

Important Telephone Numbers

BDS main number	503-823-7300
DSC automated information line	503-823-7310
Building code information	503-823-1456
BDS 24 hour inspection request line	503-823-7000
Residential information for one and two family dwellings	503-823-7388
City of Portland TTY	503-823-6868

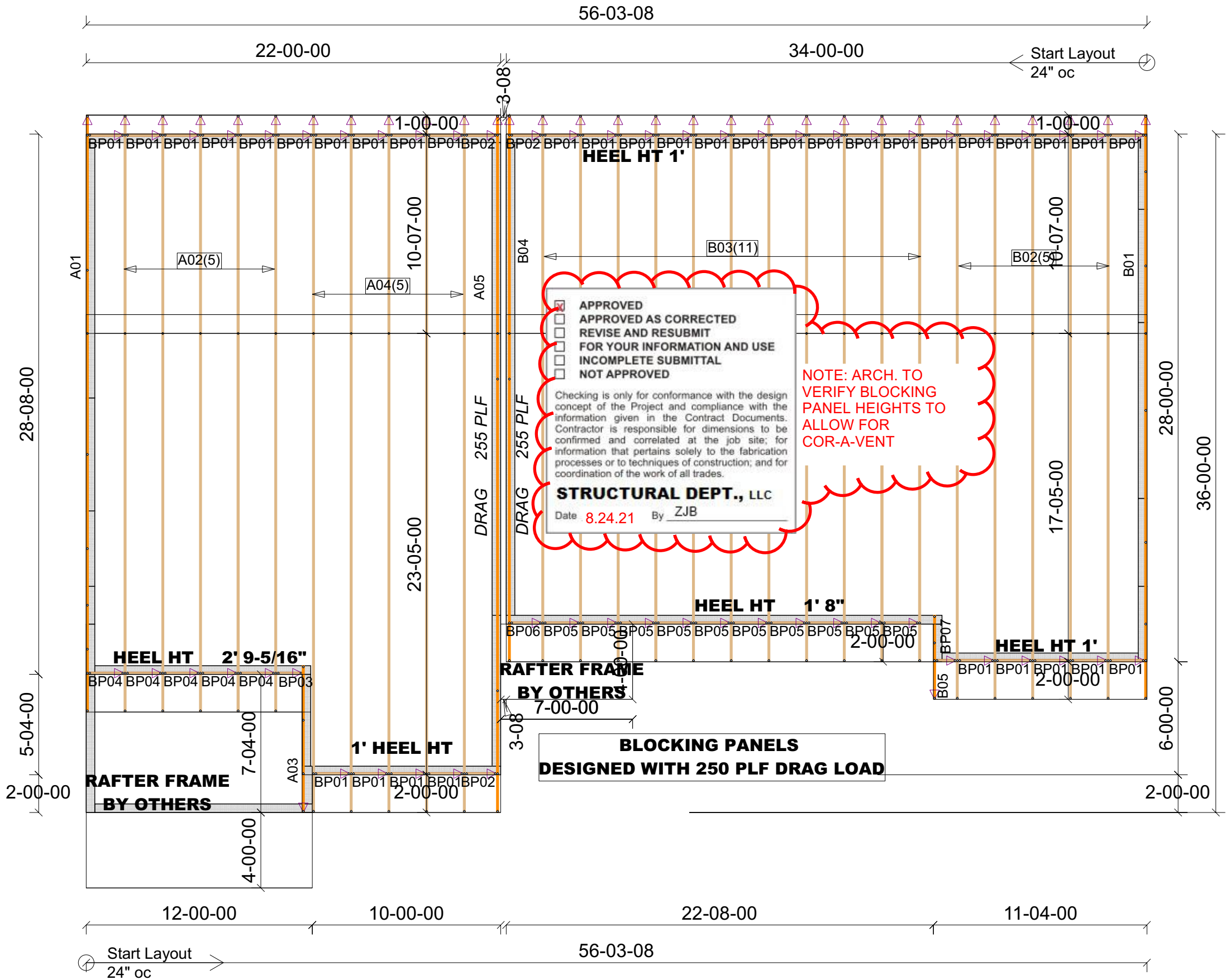
Information is subject to change.

City Of Portland
REVIEWED FOR CODE COMPLIANCE

Date: 10/21/21

Permit #: 20-168148-DFS-01-RS

TR / ANGLE SHAPE ▲ INDICATES LEFT END ON LAYOUT AND TRUSS DRAWING ON STAMPED ENGINEERING PAGE



TC LL = 25
TC DL = 7
BC LL = 0
BC DL = 12.85
Total Load = 44.85
Wind Speed = 120 mph
Exposure = B
Roof pitch = 4/12
Overhang = 12" / 24"

20-168148 DFS 01 RS

DO NOT CUT, DRILL, NOTCH OR MODIFY TRUSS MEMBERS WITHOUT PRIOR APPROVAL FROM BUILDERS FIRSTSOURCE TRUSS

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See the individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Ombrio Drive, Madison, WI 53179.

DATE:	7/14/2021	SCALE:	NTS
SALESMAN:	Doug Enger	PROJECT #:	2829972
DESIGNER:	Eli St. John		

5350 SW 107th Ave
Beaverton, OR 97005
Phone: 971-371-5971

Builders
FirstSource

BUILDER: Habitat for Humanity

PROJECT: Foster Bldg14

ADDRESS: SE Foster Rd, Portland, OR



20-168148 DFS 01 RS

City of Portland
Reviewed for code compliance
Date: 10/2/21
Project #: 20-168148-DFS-01-RS

RE: 2829964
2829964 - Habitat for Humanity - Building 6,7,8,14

MiTek USA, Inc.

250 Klug Circle
Corona, CA 92880
951-245-9525

Site Information:

Customer: Project Name: 2829964
Lot/Block:

Model:

Address:

Subdivision:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IBC2018/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16

Wind Speed: 120 mph

Roof Load: 49.8 psf

Floor Load: N/A psf

This package includes 17 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	K9948577	A01	8/2/2021
2	K9948578	A02	8/2/2021
3	K9948579	A03	8/2/2021
4	K9948580	A04	8/2/2021
5	K9948581	A05	8/2/2021
6	K9948582	B01	8/2/2021
7	K9948583	B02	8/2/2021
8	K9948584	B03	8/2/2021
9	K9948585	B04	8/2/2021
10	K9948586	B05	8/2/2021
11	K9948587	BP01	8/2/2021
12	K9948588	BP02	8/2/2021
13	K9948589	BP03	8/2/2021
14	K9948590	BP04	8/2/2021
15	K9948591	BP05	8/2/2021
16	K9948592	BP06	8/2/2021
17	K9948593	BP07	8/2/2021

☐	APPROVED
☒	APPROVED AS CORRECTED
☐	REVISE AND RESUBMIT
☐	FOR YOUR INFORMATION AND USE
☐	INCOMPLETE SUBMITTAL
☐	NOT APPROVED

Checking is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades.

STRUCTURAL DEPT., LLC
Date 8.24.21 By ZJB

NOTE: ARCH TO VERIFY BLOCKING PANEL HEIGHTS TO ALLOW FOR COR-A- VENT - SEE BP01 - BP07

ARCH NOTE: COR-A- VENTRS-400 IS 1" HIGH. PLEASE ADJUST BLOCKING PANEL TO ACCOUNT FOR 1" COR-A- VENT STRIP

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Beaverton, OR).
Truss Design Engineer's Name: Baxter, David
My license renewal date for the state of Oregon is December 31, 2021.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



RENEWAL DATE: 12-31-2021

August 02, 2021

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	A01	GABLE	1	1	K9948577

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:15 2021 Page 1

ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-vSVGK_dnT94ZlikBgtP28XKyOeRFJRQcy97VOyy6xs
 1-0-0 10-7-0 18-4-11 26-2-5 28-8-0 30-8-0
 1-0-0 10-7-0 7-9-11 7-9-11 2-5-11 2-0-0

Scale = 1:56.1

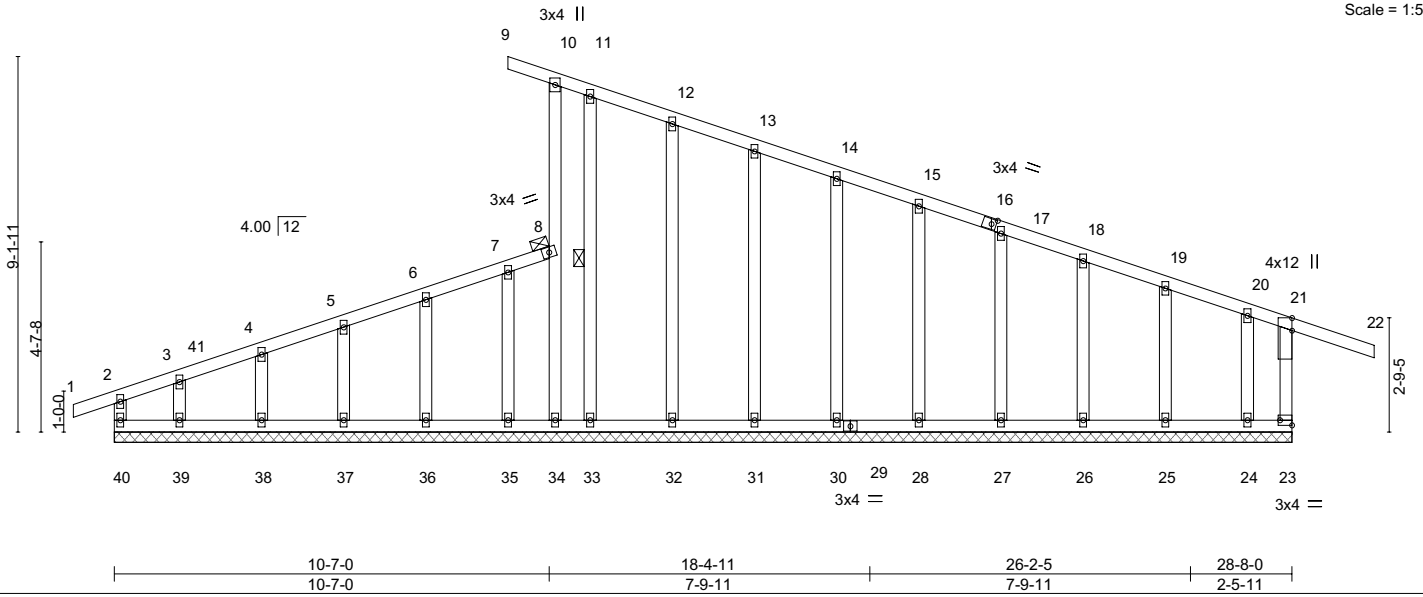


Plate Offsets (X,Y)-- [16:0-1-6,0-1-8], [21:0-3-11,Edge], [23:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.87	Vert(LL)	0.01 22	n/r	90	MT20	220/195
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.21	Vert(CT)	0.00 21	n/r	120		
TCDL 7.0	Lumber DOL 1.15	WB 0.13	Horz(CT)	0.01 23	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R						
BCDL 12.9	Code IBC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
BOT CHORD 2x4 DF No.1&Btr	6-0-0 oc bracing: 8-10
WEBS 2x4 DF Std	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 DF Std	WEBS 1 Row at midpt 11-33
	JOINTS 1 Brace at Jt(s): 8

REACTIONS. All bearings 28-8-0.
 (lb) - Max Horz 40=152(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 34, 40, 36, 37, 38, 39, 32, 31, 30, 28, 27, 26, 25 except 35=111(LC 9), 24=479(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 34, 40, 35, 37, 39, 33, 32, 31, 30, 28, 27, 26, 25, 24 except 23=521(LC 18), 36=259(LC 19), 38=258(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 21-23=508/104

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-8-12, Exterior(2E) 9-7-0 to 12-7-0, Interior(1) 12-7-0 to 27-7-0, Exterior(2E) 27-7-0 to 30-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 34, 40, 36, 37, 38, 39, 32, 31, 30, 28, 27, 26, 25 except (jt=lb) 35=111, 24=479.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

weight: 180 lb F1 = 20%
City of Portland
 Reviewed for code compliance
 Date: 10/21/21
 Project #: 20-168148-DFS-01-RS



RENEWAL DATE: 12-31-2021
 July 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

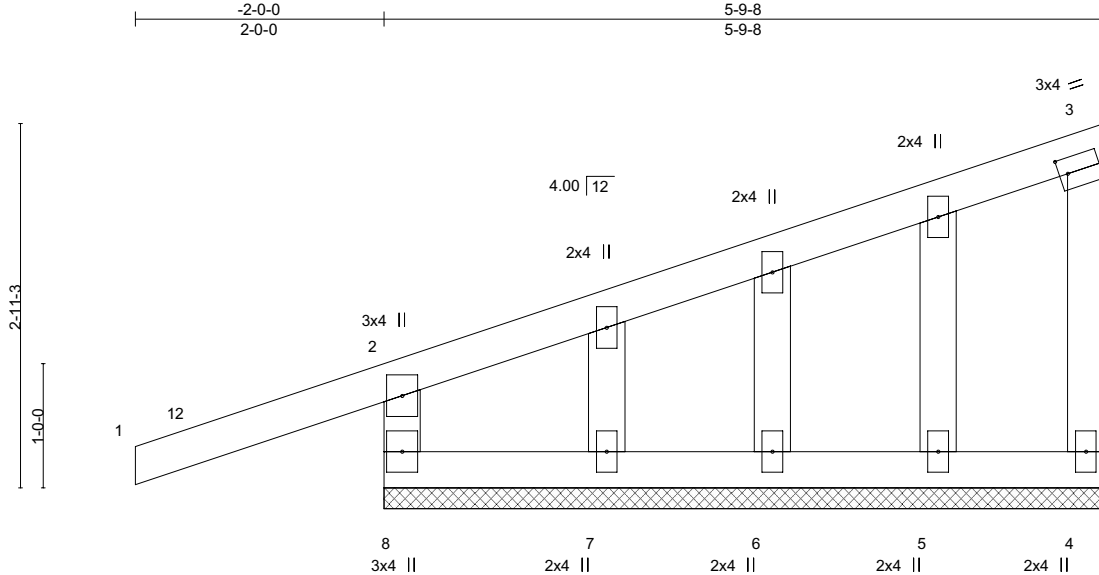


250 Klug Circle
 Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	A03	GABLE	1	1	K9948579

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:17 2021 Page 1
ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-rrmGh00uJ5Popcrjihvt7ZdgzCK?jEvj4GeDZHyy6xq



Scale = 1:18.5

Plate Offsets (X,Y)-- [3:0-0-13,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL)	0.00	1	n/r	90	MT20
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.00	1	n/r	120	220/195
TCDL 7.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a	
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-R						
BCDL 12.9									

LUMBER-

TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 DF No.1&Btr
WEBS 2x4 DF Std
OTHERS 2x4 DF Std

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

weight: 29 lb F1 = 20%
City of Portland
Reviewed for code compliance
Date: 10/21/21
Project #: 20-168148-DFS-01-RS

REACTIONS.

All bearings 5-9-8.
(lb) - Max Horz 8=78(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 4, 5, 7 except 8=108(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 5, 6, 7 except 8=519(LC 19), 4=300(LC 19)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=506/398

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 2-7-12, Corner(3E) 2-7-12 to 5-7-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7 except (jt=lb) 8=108.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2021
July 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	A04	Roof Special	5	1	K9948580

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:18 2021 Page 1
 ID:6su6i3msLMTCTBz9Vh8Qprz6Ke1-J1KeuM1W4OXfQlQvGPQ6gm9r6ba_SXStlwOn5jyy6xp
 1-0-0 5-3-8 9-7-0 10-7-0 18-4-11 26-2-5 34-0-0 36-0-0
 1-0-0 5-3-8 4-3-8 1-0-0 7-9-11 7-9-11 7-9-11 2-0-0

Scale = 1:61.4

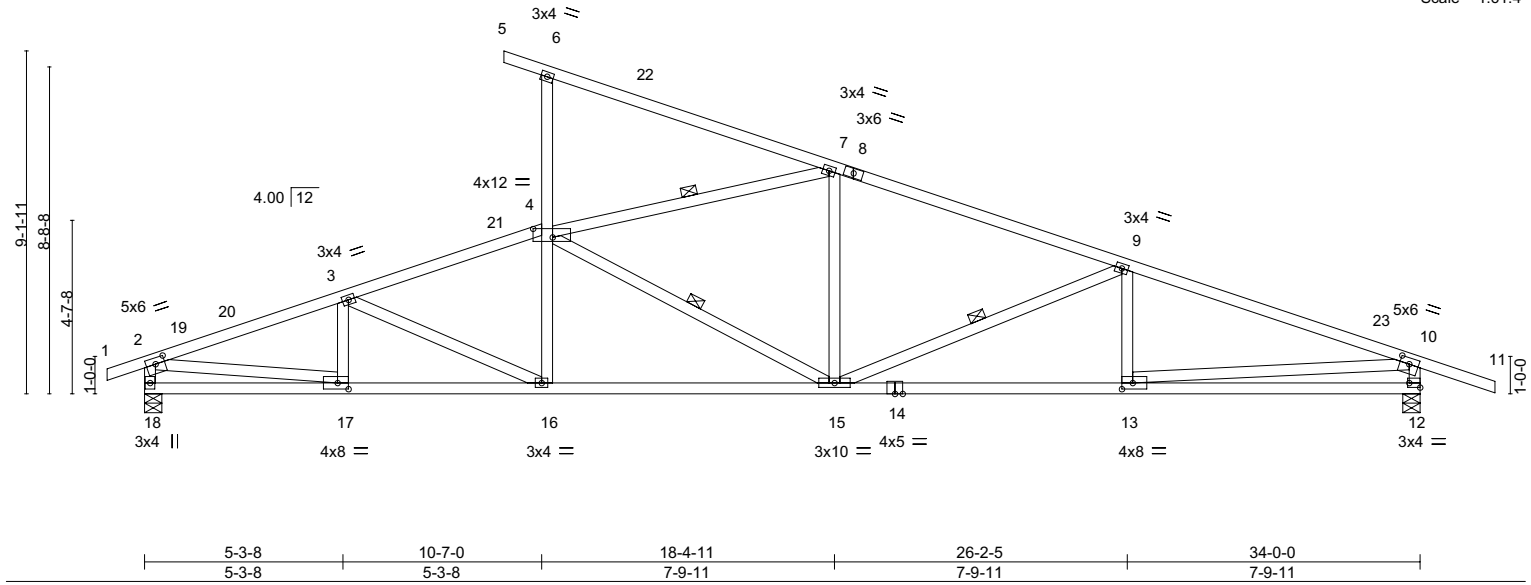


Plate Offsets (X,Y)-- [2:0-3-0,0-2-0], [4:0-6-4,0-2-12], [10:0-3-0,0-2-0], [12:Edge,0-1-8], [13:0-3-8,0-2-0], [17:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	220/195
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.17 15-16 >999 360		
TCDL 7.0	Lumber DOL 1.15	WB 0.69	Vert(CT) -0.36 15-16 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.08 12 n/a n/a		
BCDL 12.9	Code IBC2018/TPI2014		Wind(LL) 0.10 13-15 >999 240		

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 4-6
BOT CHORD 2x4 DF No.1&Btr	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS 2x4 DF Std *Except* 2-17,10-13: 2x4 DF No.1&Btr	WEBS 1 Row at midpt 4-7, 4-15

REACTIONS. (size) 18=0-5-8, 12=0-5-8
 Max Horz 18=-235(LC 9)
 Max Uplift 18=-109(LC 8), 12=-148(LC 9)
 Max Grav 18=1634(LC 1), 12=1674(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3024/443, 3-4=-2986/504, 4-16=0/343, 4-6=-280/222, 7-9=-2467/289, 9-10=-3069/264, 2-18=-1554/317, 10-12=-1575/304
 BOT CHORD 17-18=-40/363, 16-17=-275/2817, 15-16=-281/2777, 13-15=-137/2835, 12-13=-47/414
 WEBS 3-17=-263/132, 3-16=-398/163, 4-7=-2290/371, 4-15=-685/222, 7-15=-9/725, 9-15=-631/100, 2-17=-325/2569, 10-13=-190/2433

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-4-13, Interior(1) 2-4-13 to 10-8-12, Exterior(2E) 9-7-0 to 12-11-13, Interior(1) 12-11-13 to 32-7-3, Exterior(2E) 32-7-3 to 36-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCCL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=109, 12=148.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2021
 July 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
 250 Klug Circle
 Corona, CA 92880



Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	A05	GABLE	1	1	K9948581
Job Reference (optional)					

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:23 2021 Page 2
ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-g?8Xy45fux9xXXJt3y0INqtkecHi7lkSC5Ynwyy6xk

NOTES-

- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 41, 42, 37, 36, 35, 34, 33, 31, 30, 29, 28 except (jt=lb) 38=1028, 44=2352, 25=573, 39=198, 43=1538, 27=3939, 26=5195.
- 14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 15) This truss has been designed for a total drag load of 255 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 34-0-0 for 255.0 plf.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

City of Portland

Reviewed for code compliance

Date: 10/21/21

Project #: 20-168148-DFS-01-RS

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	B01	GABLE	1	1	K9948582

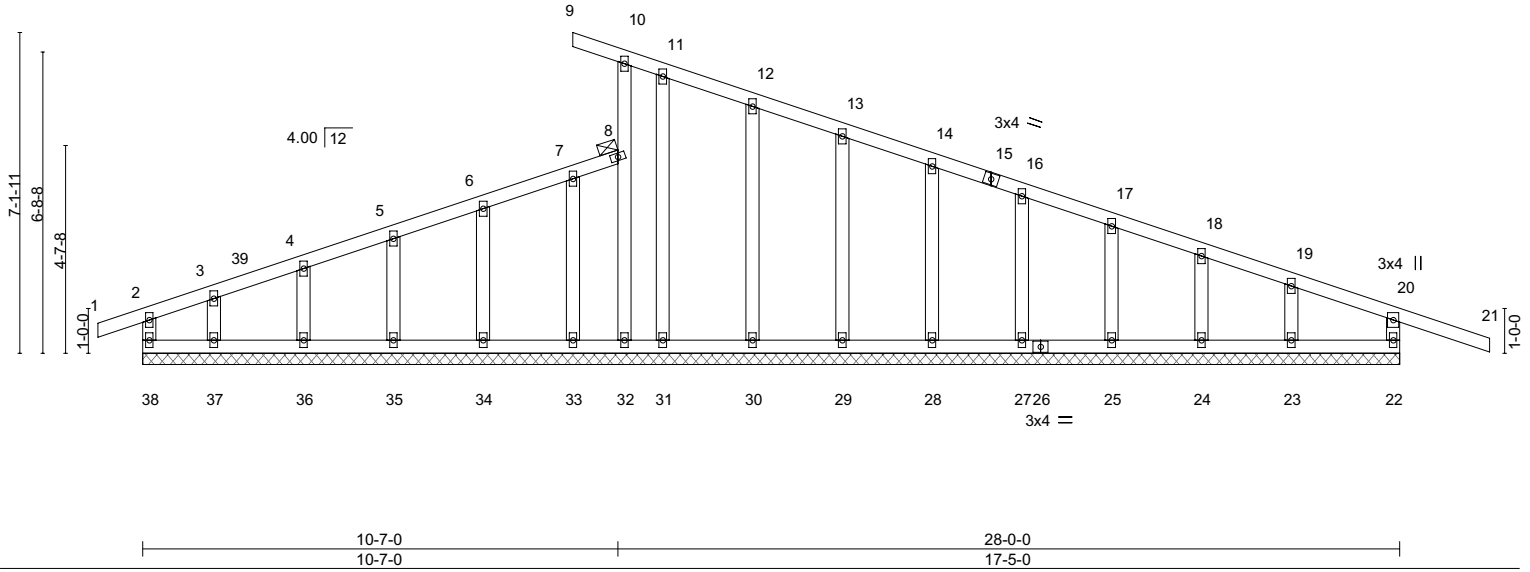
Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:25 2021 Page 1

ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-cNFHMI6vQYPmqTFBN2mSFyA9Q42bqpvWaeppy6xi

1-0-0 9-7-0 10-7-0 28-0-0 30-0-0
1-0-0 9-7-0 1-0-0 17-5-0 2-0-0

Scale = 1:51.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	2-0-0		TC	0.37	in (loc)	l/defl	MT20		220/195	
(Roof Snow=25.0)		Plate Grip DOL	1.15	BC	0.07	Vert(LL)	0.01 21 n/r				
TCDL	7.0	Lumber DOL	1.15	WB	0.07	Vert(CT)	-0.00 20 n/r				
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-R		Horz(CT)	0.01 22 n/a n/a				
BCDL	12.9	Code IBC2018/TPI2014									

Weight: 148 lb FT = 2C°

LUMBER-		BRACING-	
TOP CHORD	2x4 DF No.1&Btr	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 8-10
BOT CHORD	2x4 DF No.1&Btr	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing: 8-10
WEBS	2x4 DF Std	JOINTS	1 Brace at Jt(s): 8
OTHERS	2x4 DF Std		

REACTIONS. All bearings 28-0-0.
(lb) - Max Horz 38=143(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 34, 35, 36, 37, 30, 29, 28, 27, 25, 24, 23
Max Grav All reactions 250 lb or less at joint(s) 32, 38, 33, 35, 37, 31, 30, 29, 28, 27, 25, 24, 23 except 22=406(LC 18), 34=257(LC 19), 36=254(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 20-22=-356/49

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-8-12, Exterior(2E) 9-7-0 to 12-7-0, Interior(1) 12-7-0 to 27-0-0, Exterior(2E) 27-0-0 to 30-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 33, 34, 35, 36, 37, 30, 29, 28, 27, 25, 24, 23.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RENEWAL DATE: 12-31-2021
July 14, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

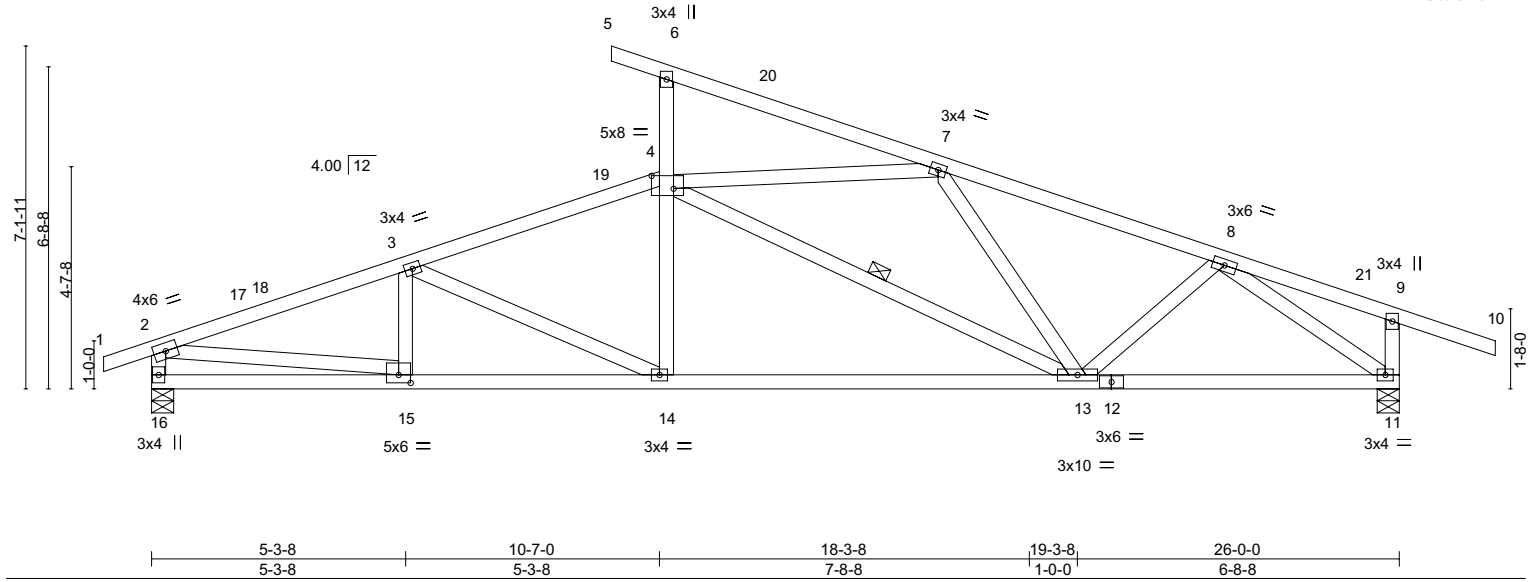


250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	B03	Roof Special	11	1	K9948584

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:27 2021 Page 1
ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-YmN2nR89y9fN78celo5EXg13YABNq3lwhy6xg
16-4-11 18-3-8 22-2-5 26-0-0 28-0-0
1-0-0 5-3-8 9-7-0 10-7-0 5-9-11 1-10-13 3-10-13 3-9-11 2-0-0

Scale: 1/4"=1'



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.11 13-14 >999 360	MT20		220/195	
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.26 13-14 >999 240				
TCDL	7.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.05 11 n/a n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	0.05 14 >999 240				
BCDL	12.9										

LUMBER-		BRACING-	
TOP CHORD	2x4 DF No.1&Btr	TOP CHORD	Structural wood sheathing directly applied or 4'-0" oc purlins, except end verticals. Except: 6'-0" oc bracing: 4-6
BOT CHORD	2x4 DF No.1&Btr	BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing:
WEBS	2x4 DF Std	WEBS	1 Row at midpt 4-13

REACTIONS.	
(size)	16=0-5-8, 11=0-5-8
Max Horz	16=-117(LC 9)
Max Uplift	16=-109(LC 8), 11=-130(LC 9)
Max Grav	16=1267(LC 1), 11=1323(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2219/358, 3-4=-2006/395, 4-14=0/397, 7-8=-1724/190, 2-16=-1189/276, 9-11=-292/172
BOT CHORD	15-16=-43/277, 14-15=-197/2054, 13-14=-173/1850, 11-13=-82/1366
WEBS	3-14=-475/100, 4-7=-1422/302, 4-13=-599/135, 2-15=-250/1811, 8-11=-1685/175, 8-13=0/310, 7-13=0/403

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-8-12, Exterior(2E) 9-7-0 to 12-7-0, Interior(1) 12-7-0 to 25-0-0, Exterior(2E) 25-0-0 to 28-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=109, 11=130.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2021
July 14, 2021

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250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	B04	GABLE	1	1	K9948585

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:30 2021 Page 1

ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-zL3AQTA2F41ysbLDzwex9IfvlRjeGyde3oIPX0yy6xd

Job Reference (optional)

1-0-0 9-7-0 10-7-0 16-4-11 22-2-5 26-0-0 28-0-0
1-0-0 9-7-0 1-0-0 5-9-11 5-9-11 3-9-11 2-0-0

Scale = 1:49.1

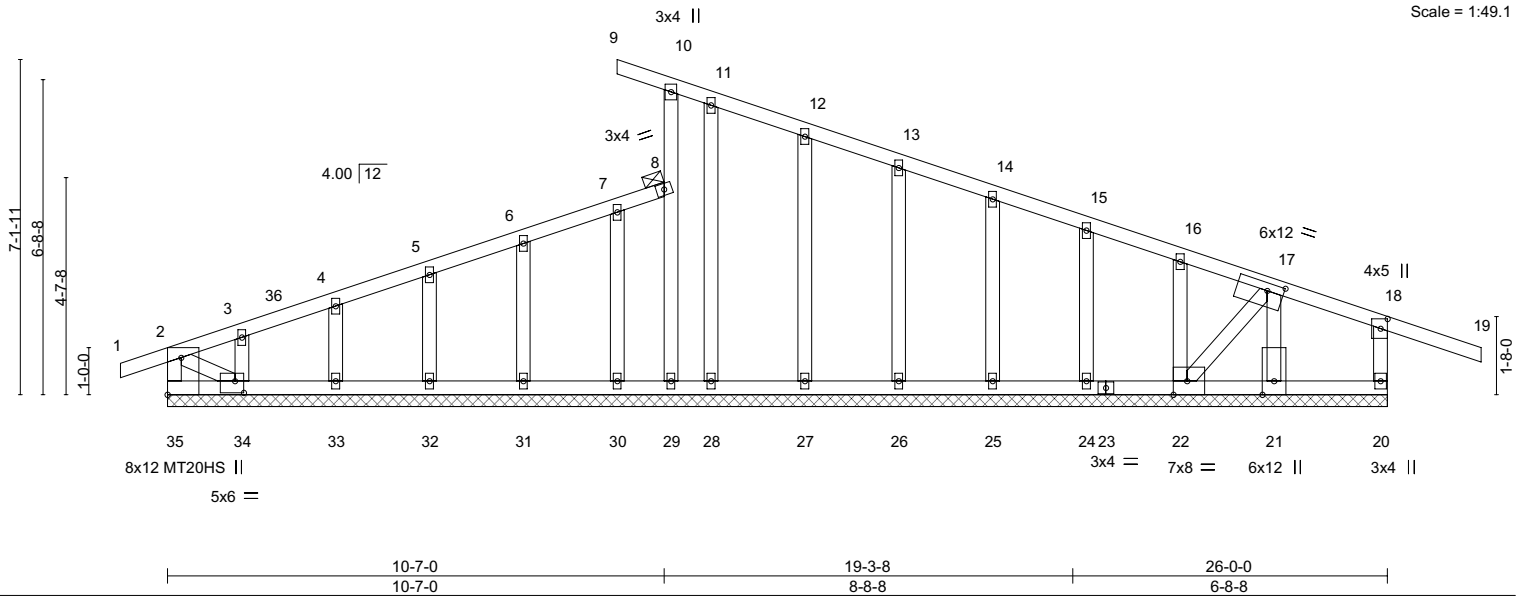


Plate Offsets (X,Y)-- [17:0-4,4,0-2,0], [18:0-2,8,0-1,12], [22:0-3,8,Edge], [34:0-2,4,0-3,0], [35:Edge,0-3,8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	0.03	19	n/r	90	MT20	220/195
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.36	Vert(CT)	0.02	19	n/r	120	MT20HS	165/146
TCDL 7.0	Rep Stress Incr	NO	WB 0.67	Horz(CT)	0.02	28	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-S							
BCDL 12.9										

Weight: 147 lb

F1 = 20%

City of Portland

LUMBER-
TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 DF No.1&Btr
WEBS 2x4 DF No.1&Btr *Except*
10-29,18-20: 2x4 DF Std
OTHERS 2x4 DF Std *Except*
17-21: 2x4 DF No.1&Btr

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 8-10
BOT CHORD Rigid ceiling directly applied or 4-2-0 oc bracing.
JOINTS 1 Brace at Jt(s): 8

weight 147 lb F1 = 20%
City of Portland
Reviewed for code compliance
Date: 10/21/21
Project #: 20-168148-DFS-01-RS

REACTIONS. All bearings 26-0-0.
(lb) - Max Horz 35=-113(LC 36)
Max Uplift All uplift 100 lb or less at joint(s) 31, 32, 33, 28, 27, 26, 25, 24 except
29=-497(LC 34), 35=-2369(LC 40), 20=-343(LC 37), 30=-180(LC 34), 34=-1546(LC 43), 22=-3937(LC 36), 21=-4744(LC 57)
Max Grav All reactions 250 lb or less at joint(s) 32, 33, 28, 27, 26, 25, 24 except
29=488(LC 55), 35=2459(LC 45), 20=402(LC 32), 30=261(LC 31), 31=256(LC 19), 34=1538(LC 54), 22=3821(LC 55), 21=5010(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3064/2942, 3-4=-2646/2543, 4-5=-2086/2005, 5-6=-1528/1488, 6-7=-966/952, 7-8=-462/474, 8-29=-470/499, 8-10=-620/650, 11-12=-722/693, 12-13=-1270/1210, 13-14=-1827/1748, 14-15=-2383/2284, 15-16=-2956/2834, 16-17=-3480/3336, 17-18=-370/394, 2-35=-2402/2336, 18-20=-333/301
BOT CHORD 34-35=-238/340, 33-34=-2415/2538, 32-33=-1905/2079, 31-32=-1395/1569, 30-31=-885/1059, 29-30=-375/549, 28-29=-132/308, 27-28=-642/818, 26-27=-1152/1328, 25-26=-1662/1838, 24-25=-2172/2348, 22-24=-2631/2858, 21-22=-901/921, 20-21=-391/411
WEBS 17-21=-5060/4862, 2-34=-2966/3092, 17-22=-5277/5506

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-8-12, Corner(3E) 9-7-0 to 12-7-0, Exterior(2N) 12-7-0 to 25-0-0, Corner(3E) 25-0-0 to 28-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) All plates are 2x4 MT20 unless otherwise indicated.

3) Gable on page 2 continuous bottom chord bearing.



RENEWAL DATE: 12-31-2021
July 14, 2021

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250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	B04	GABLE	1	1	K9948585
Job Reference (optional)					

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:31 2021 Page 2
ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-RXdYdpBg0OApUlwPXd9AiWC4Ur3t?PtnIS1z3Tyy6xc

NOTES-

- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 32, 33, 28, 27, 26, 25, 24 except (jt=lb) 29=497, 35=2369, 20=343, 30=180, 34=1546, 22=3937, 21=4744.
- 14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 15) This truss has been designed for a total drag load of 255 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 26-0-0 for 255.0 plf.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

City of Portland

Reviewed for code compliance

Date: 10/21/21

Project #: 20-168148-DFS-01-RS

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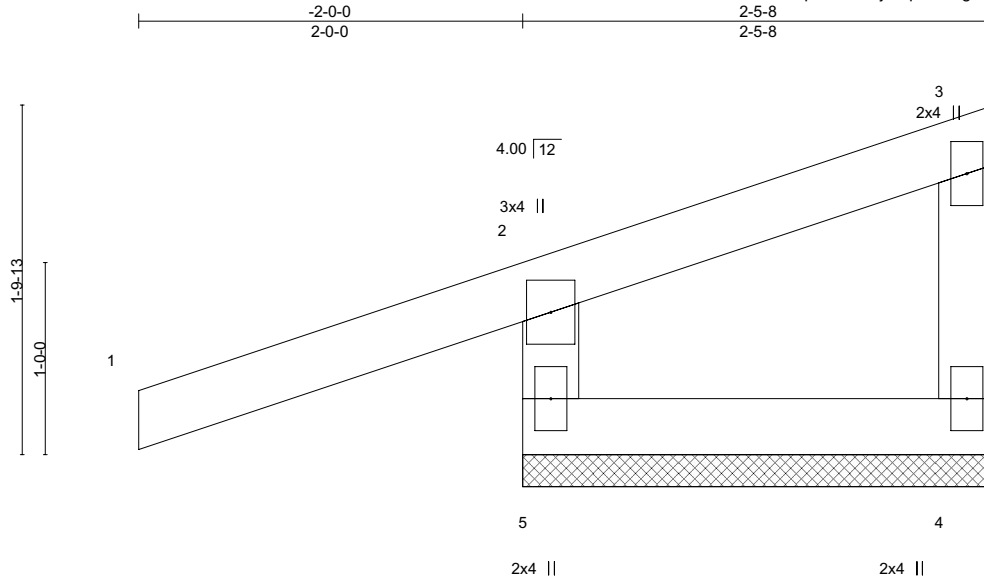
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	B05	Monopitch Supported Gable	1	1	K9948586

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:32 2021 Page 1
ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-vjAxq8CInhl6vVb5LgPEjkLmFUIk0dwW6nWbvyy6xb



Scale: 1"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	220/195
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.06	Vert(LL) 0.01 1 n/r 90		
TCDL 7.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 4 n/a n/a		
BCDL 12.9	Code IBC2018/TPI2014				

Weight: 12 lb FT = 20'±

LUMBER-
TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 DF No.1&Btr
WEBS 2x4 DF Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=2-5-8, 4=2-5-8
Max Horz 5=43(LC 8)
Max Uplift 5=99(LC 8), 4=78(LC 18)
Max Grav 5=436(LC 19), 4=50(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-388/334

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2021
July 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



250 Klug Circle
Corona, CA 92880

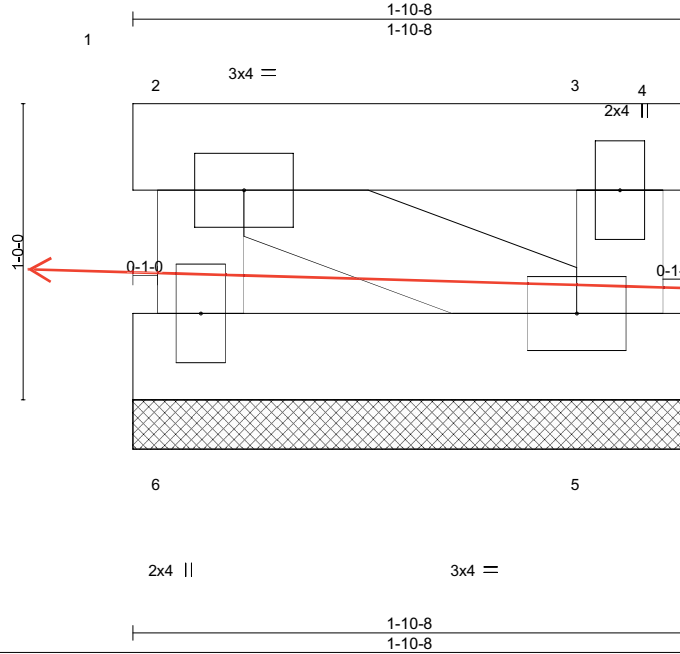
Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	BP01	Blocking Supported	35	1	K9948587

Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:35 2021 Page 1

ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-Jls3TAE4cgEzNDAmTE6sMMYYSVpxLyND40ACEyy6xY



Scale = 1:7.8

ARCH: PLS.
VERIFY: BLOCKING
SHOULD BE 11"
TALL TO ALLOW
FOR 1" COR-A-
VENT

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	220/195
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
TCDL 7.0	Lumber DOL 1.15	WB 0.16	Horz(CT)	-0.00	6	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 12.9	Code IBC2018/TPI2014								

Weight: 8 lb FT = 2C"

LUMBER-

TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 DF No.1&Btr
WEBS 2x4 DF Std

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

City of Portland

Reviewed for code compliance

Date: 10/21/21

Project #: 20-168148-DFS-01-RS

REACTIONS.

All bearings 1-10-8.
(lb) - Max Horz 1=-135(LC 26)
Max Uplift All uplift 100 lb or less at joint(s) 1, 4 except 6=-151(LC 28), 5=-176(LC 27)
Max Grav All reactions 250 lb or less at joint(s) 6, 1, 4, 5

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-419/414
BOT CHORD 5-6=-326/325
WEBS 2-5=-408/408

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 6=151, 5=176.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RENEWAL DATE: 12-31-2021
July 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



250 Klug Circle
Corona, CA 92880

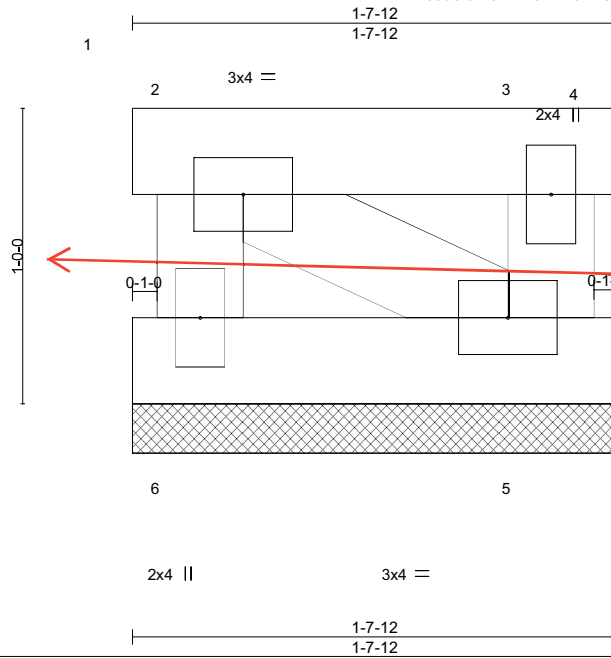
Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	BP02	Blocking Supported	3	1	K9948588

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:38 2021 Page 1

ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-ktYC5CG3MX2pqyIRcnpU__TFfXy8k3pv1ErpZyy6xV

Job Reference (optional)



Scale = 1:7.8

ARCH: PLS.
VERIFY: BLOCKING
SHOULD BE 11"
TALL TO ALLOW
FOR 1" COR-A-
VENT

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.03	Vert(LL)	n/a	n/a	MT20	220/195
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	n/a	n/a		
TCDL 7.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	6		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P					
BCDL 12.9	Code IBC2018/TPI2014						

Weight: 7 lb FT = 2C"

LUMBER-

TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 DF No.1&Btr
WEBS 2x4 DF Std

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

City of Portland

Reviewed for code compliance

Date: 10/21/21

Project #: 20-168148-DFS-01-RS

REACTIONS.

All bearings 1-7-12.
(lb) - Max Horz 1=21(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 6, 1, 4, 5
Max Grav All reactions 250 lb or less at joint(s) 6, 1, 4, 5

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 1, 4, 5.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RENEWAL DATE: 12-31-2021
July 14, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



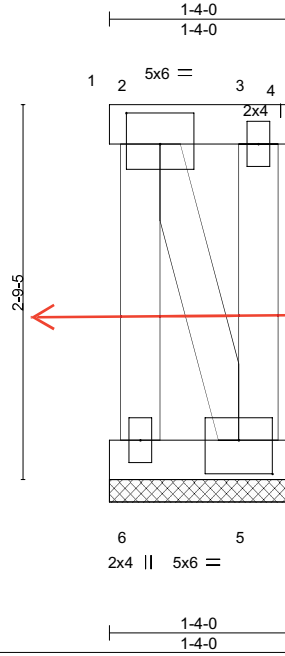
250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	BP03	Blocking Supported	1	1	K9948589

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:40 2021 Page 1

ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-gGfyWuJu9IX3868Z0qH2P4nkTDBcZ16MLxtRyy6xT



Scale = 1:17.1

ARCH: PLS.
VERIFY: BLOCKING
SHOULD BE 2'-8
5/8" TALL TO
ALLOW FOR 1"
COR-A-VENT

Plate Offsets (X,Y)-- [2:0-3-0,0-2-12], [5:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	999	MT20	220/195
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999		
TCDL 7.0	Rep Stress Incr	YES	WB 0.29	Horz(CT)	-0.01	6	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P							
BCDL 12.9										

LUMBER-
TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 DF No.1&Btr
WEBS 2x4 DF Std

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

weight: 13 lb F1 = 20%
City of Portland
Reviewed for code compliance
Date: 10/21/21
Project #: 20-168148-DFS-01-RS

REACTIONS. All bearings 1-4-0.
(lb) - Max Horz 1=187(LC 26)
Max Uplift All uplift 100 lb or less at joint(s) 4 except 6=266(LC 28), 1=366(LC 28), 5=597(LC 27)
Max Grav All reactions 250 lb or less at joint(s) 4 except 6=271(LC 31), 1=358(LC 31), 5=601(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-259/273, 2-3=-303/297
WEBS 2-5=-769/769

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=266, 1=366, 5=597.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-4-0 for 250.1 plf.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RENEWAL DATE: 12-31-2021
July 14, 2021

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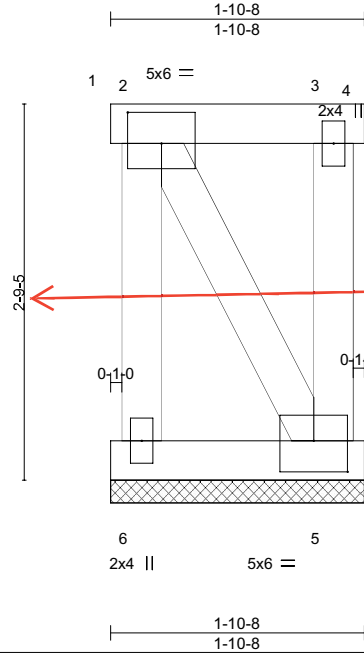
250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	BP04	Blocking Supported	5	1	K9948590

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:44 2021 Page 1

ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-Z1vTMFLqyNozYIQvosuDKFESI4avYNuiHzh90Cyy6xP



Scale = 1:17.0

ARCH: PLS.
VERIFY: BLOCKING
SHOULD BE 2'-8
5/8" TALL TO
ALLOW FOR 1"
COR-A-VENT

Plate Offsets (X,Y)-- [2:0-3-0,0-2-12], [5:0-3-0,0-2-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	n/a	-	n/a	999	MT20	220/195
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
TCDL 7.0	Rep Stress Incr	YES	WB 0.30	Horz(CT)	-0.01	6	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P							
BCDL 12.9										

LUMBER-
TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 DF No.1&Btr
WEBS 2x4 DF Std

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz 1=187(LC 26)
Max Uplift All uplift 100 lb or less at joint(s) 4 except 6=332(LC 28), 1=305(LC 32), 5=575(LC 27)
Max Grav All reactions 250 lb or less at joint(s) 4 except 6=332(LC 31), 1=305(LC 27), 5=575(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-313/343, 2-3=-439/432
BOT CHORD 5-6=-346/339
WEBS 2-5=-789/789

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=332, 1=305, 5=575.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

weight: 14 lb F1 = 20%
City of Portland
Reviewed for code compliance
Date: 10/21/21
Project #: 20-168148-DFS-01-RS



RENEWAL DATE: 12-31-2021
July 14, 2021

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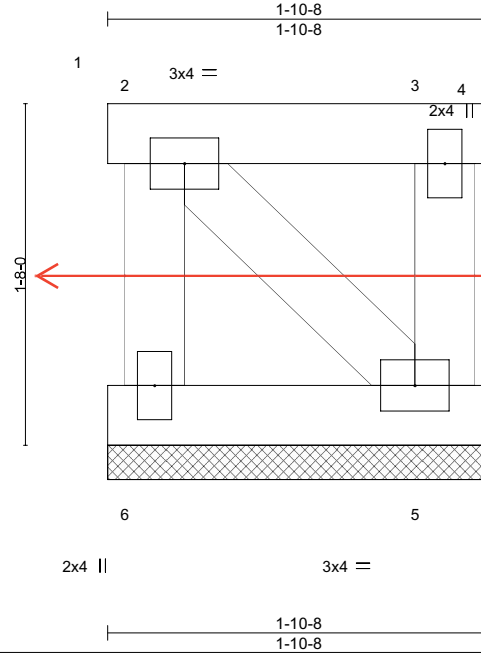
MiTek
250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	BP05	Blocking Supported	10	1	K9948591

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:46 2021 Page 1

ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-VQ1DnxN4U?2hn3ZHvHwhpgKp9uGO0I__kHAG55yy6xN



Scale = 1:11.2

ARCH: PLS.
VERIFY: BLOCKING
SHOULD BE 1'-7"
TALL TO ALLOW
FOR 1" COR-A-
VENT

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	220/195
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
TCDL 7.0	Lumber DOL 1.15	WB 0.20	Horz(CT)	-0.00	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 12.9	Code IBC2018/TPI2014							

Weight: 10 lb FT = 2C"

LUMBER-

TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 DF No.1&Btr
WEBS 2x4 DF Std

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

City of Portland

Reviewed for code compliance

Date: 10/21/21

Project #: 20-168148-DFS-01-RS

REACTIONS.

All bearings 1-10-8.
(lb) - Max Horz 1=155(LC 26)
Max Uplift All uplift 100 lb or less at joint(s) 4 except 6=232(LC 28), 1=119(LC 32), 5=317(LC 27)
Max Grav All reactions 250 lb or less at joint(s) 6, 1, 4 except 5=320(LC 46)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=426/423
BOT CHORD 5-6=334/330
WEBS 2-5=522/522

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=232, 1=119, 5=317.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RENEWAL DATE: 12-31-2021
July 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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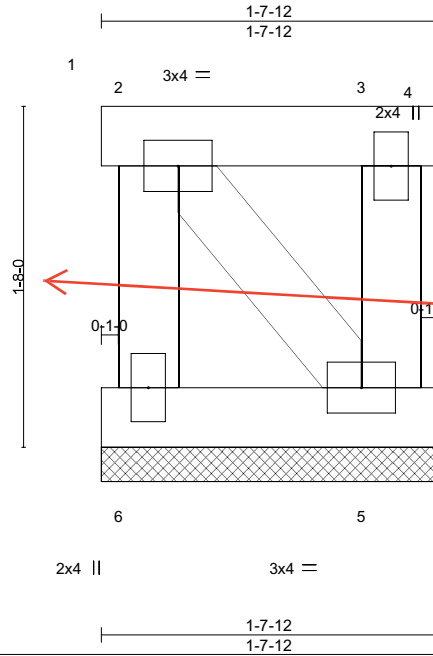
250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	BP06	Blocking Supported	1	1	K9948592

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:48 2021 Page 1

ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-Ro8_BdOK0cJO1Mjg1iz9u5PATHxIUFSHCbfM9_yy6xL



Scale = 1:11.3

ARCH: PLS.
VERIFY: BLOCKING
SHOULD BE 1'-7"
TALL TO ALLOW
FOR 1" COR-A-
VENT

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.05	in (loc) l/defl L/d	MT20	220/195
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.01	Vert(LL) n/a - n/a 999		
TCDL 7.0	Lumber DOL 1.15	WB 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 6 n/a n/a		
BCDL 12.9	Code IBC2018/TPI2014				

Weight: 9 lb FT = 2C"

LUMBER-
TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 DF No.1&Btr
WEBS 2x4 DF Std

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

City of Portland
Reviewed for code compliance

Date: 10/21/21

Project #: 20-168148-DFS-01-RS

REACTIONS. All bearings 1-7-12.
(lb) - Max Horz 1=40(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 6, 1, 4, 5
Max Grav All reactions 250 lb or less at joint(s) 6, 1, 4, 5

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 1, 4, 5.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RENEWAL DATE: 12-31-2021
July 14, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



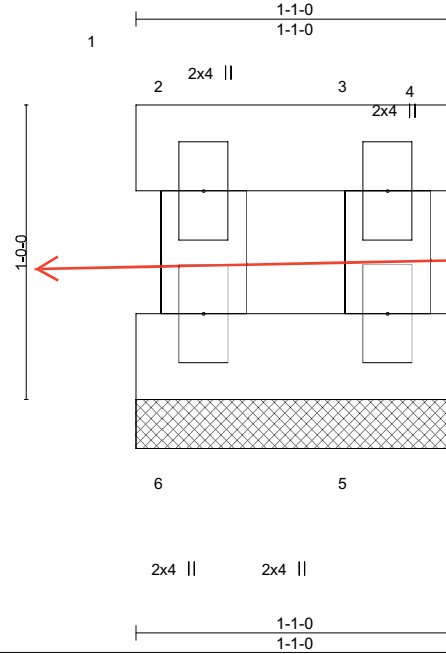
250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	2829964 - Habitat for Humanity - Building 6,7,8,14
2829964	BP07	Blocking Supported	1	1	K9948593

Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 14 14:46:50 2021 Page 1

ID:6su6l3msLMTCTBz9Vh8Qprz6Ke1-NBGkclQbXDZ6Ggt387?dzWUVoVdHy94afv8TEsyy6xJ



Scale = 1:7.8

ARCH: PLS.
VERIFY: BLOCKING
SHOULD BE 11"
TALL TO ALLOW
FOR 1" COR-A-
VENT

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.12	Vert(LL)	n/a	-	n/a	999	MT20	220/195
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
TCDL 7.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	6	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R							
BCDL 12.9	Code IBC2018/TPI2014								

Weight: 4 lb FT = 2C"

LUMBER-
TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 DF No.1&Btr
WEBS 2x4 DF Std

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

City of Portland
Reviewed for code compliance

Date: 10/21/21

Project #: 20-168148-DFS-01-RS

REACTIONS. All bearings 1-1-0.
(lb) - Max Horz 1=135(LC 26)
Max Uplift All uplift 100 lb or less at joint(s) 6, 1, 4, 5
Max Grav All reactions 250 lb or less at joint(s) 6, 1, 4, 5

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=7.7psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
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- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-1-0 for 250.1 plf.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RENEWAL DATE: 12-31-2021
July 14, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

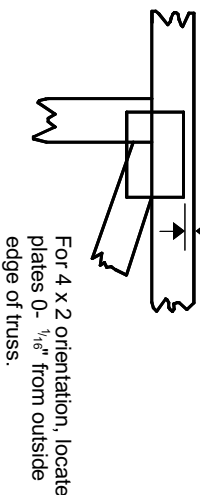
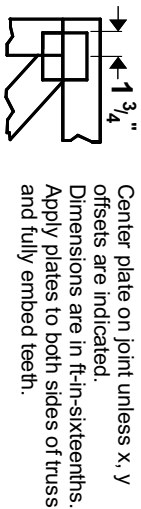
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



250 Klug Circle
Corona, CA 92880

Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

—
—
This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MITek 2020 software** or upon request.

PLATE SIZE

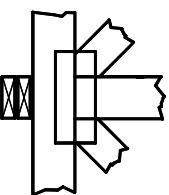
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

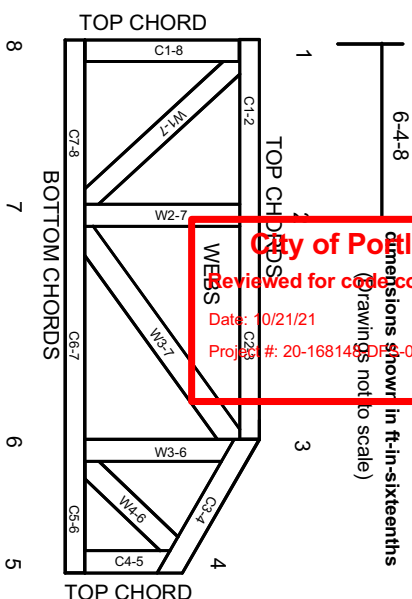


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



City of Portland
Reviewed for code compliance
Date: 10/21/21
Project #: 20-168148-01-R6

JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

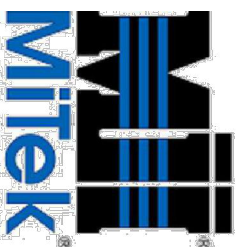
PRODUCT CODE APPROVALS

ICC-ES Reports:
ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative for l bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.