



City of Puyallup Development & Permitting Services ISSUED PERMIT			
Building	Planning		
Engineering	Public Works		
Fire	Traffic		

PRMU20241695

Calculations required to be provided by
the Permittee on site for all inspections

Re: 4319944

2nd Street Apartments

City of Puyallup
Building
REVIEWED
FOR
COMPLIANCE

BSnowden
01/13/2025
11:05:24 AM



MiTek, Inc.
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Arlington, WA).

Pages or sheets covered by this seal: R85387428 thru R85387489

My license renewal date for the state of Washington is September 28, 2025.



November 18, 2024

Zhao, Xiaoming

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 or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO 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.

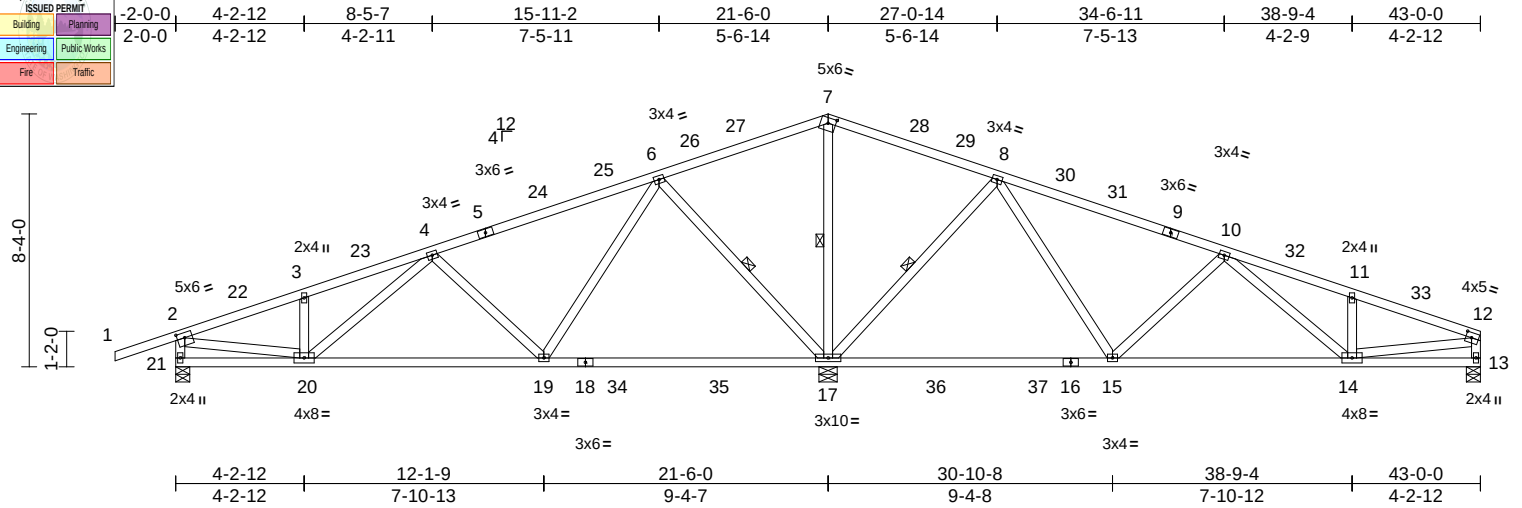
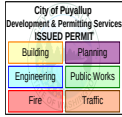
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387428
4319944	A01	Common	1	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:03

Page: 1

PRMU20241695



Scale = 1:75.9

Plate Offsets (X, Y): [2:0-3-0,0-2-0], [7:0-3-0,0-2-2], [12:0-2-4,0-2-0]

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	0.89	Vert(LL)	-0.21	15-17	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.32	15-17	>794	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	17	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 189 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-17, 6-17, 8-17

REACTIONS

(size) 13=0-5-8, 17=0-7-4, 21=0-5-8
Max Horiz 21=49 (LC 14)
Max Uplift 13=-10 (LC 15), 21=-50 (LC 10)
Max Grav 13=661 (LC 22), 17=2634 (LC 2), 21=801 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=-960/48, 3-4=-929/79, 4-6=-443/169, 6-7=-25/988, 7-8=-19/988, 8-10=-466/152, 10-11=-998/122, 11-12=-1023/84, 2-21=-769/189, 12-13=-627/88
BOT CHORD 20-21=-165/161, 19-20=-52/716, 17-19=-369/92, 15-17=-359/78, 14-15=-46/750, 13-14=-35/126
WEBS 7-17=-854/109, 11-14=-323/100, 3-20=-315/71, 2-20=-40/871, 12-14=-34/862, 4-19=-549/144, 4-20=-7/448, 6-19=0/807, 6-17=-1090/176, 8-17=-1126/177, 8-15=-5/817, 10-15=-564/156, 10-14=-22/458

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 2-3-10, Interior (1) 2-3-10 to 21-6-0, Exterior(2R) 21-6-0 to 25-9-10, Interior (1) 25-9-10 to 42-10-4 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 21 and 10 lb uplift at joint 13.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 the 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:04 Page: 1
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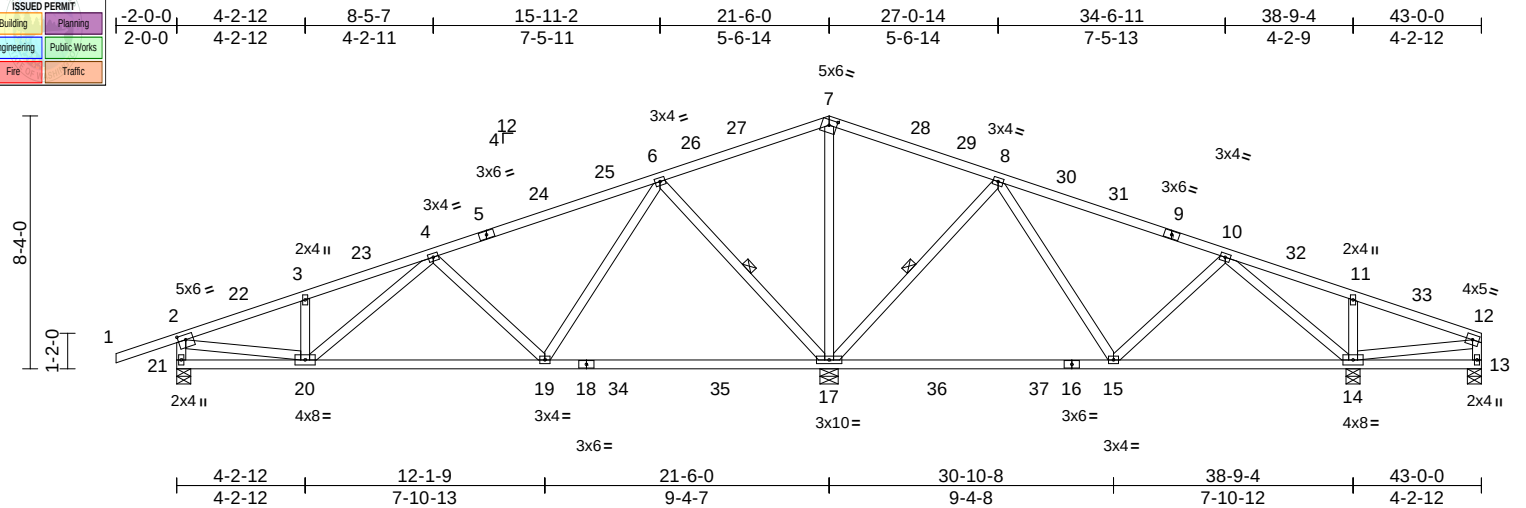


Plate Offsets (X, Y): [2:0-3-0,0-2-0], [7:0-3-0,0-2-2]

[illegible]

TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 19-20.	
WEBS	1 Row at midpt	6-17, 8-17

(size)	13=0-5-8, 14=0-5-8, 17=0-7-4, 21=0-5-8
Max Horiz	21=49 (LC 14)
Max Uplift	13=-9 (LC 37), 14=-14 (LC 15), 21=-44 (LC 10)
Max Grav	13=312 (LC 39), 14=836 (LC 22), 17=2346 (LC 2), 21=832 (LC 21)

Tension

TOP CHORD 1-2=0/77, 2-3=-1031/61, 3-4=-1012/95,
4-6=-524/78, 6-7=-2/774, 7-8=0/774,
8-10=-374/181, 10-11=0/165, 11-12=-33/155,
2-21=-801/194, 12-13=-289/36

BOT CHORD 20-21=-166/161, 19-20=-56/784,
17-19=-142/96, 15-17=-326/116,
14-15=-23/386, 13-14=-32/104

WEBS 7-17=-725/95, 3-20=-319/72, 2-20=-47/938,
4-19=-528/142, 4-20=-25/443,
6-17=-1085/175, 8-15=0/538,
10-15=-247/122, 11-14=-341/103,
12-14=-157/59, 10-14=-652/65, 6-19=0/791,
8-17=-897/160

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TC DL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 2-3-10, Interior (1) 2-3-10 to 21-6-0, Exterior(2R) 21-6-0 to 25-9-10, Interior (1) 25-9-10 to 42-10-4 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 gr DOL=1.60
- 2) TC LL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 21, 9 lb uplift at joint 13 and 14 lb uplift at joint 14.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

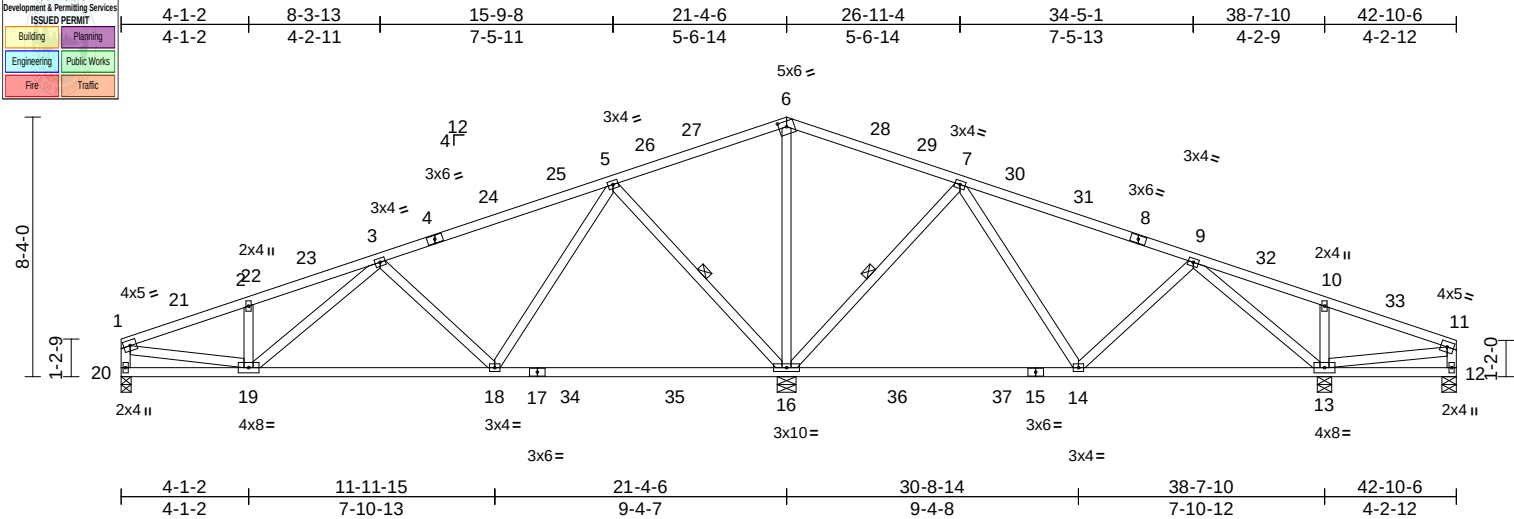
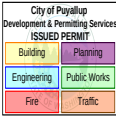
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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387430
4319944	A03	Common	1	1	Job Reference (optional)	

PRMU20241695



Scale = 1:74
Plate Offsets (X, Y): [6:0-3-0,0-2-2]

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	0.90	Vert(LL)	-0.21	16-18	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.32	16-18	>791	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.01	16	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH								
BCDL	10.0											
Weight: 186 lb											FT = 10%	

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 7-16

REACTIONS (size) 12=0-5-8, 13=0-5-8, 16=0-7-4, 20=0-3-14
Max Horiz 20=38 (LC 15)
Max Uplift 12=-10 (LC 36), 13=-14 (LC 15)
Max Grav 12=312 (LC 38), 13=828 (LC 21), 16=2340 (LC 2), 20=690 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1045/103, 2-3=-1035/147, 3-5=-535/83, 5-6=-3766, 6-7=0/765, 7-9=-364/175, 9-10=0/161, 10-11=-32/153, 1-20=-654/98, 11-12=-289/36
BOT CHORD 19-20=-47/113, 18-19=-58/798, 16-18=-132/105, 14-16=-319/107, 13-14=-22/378, 12-13=-32/104
WEBS 6-16=-721/95, 2-19=-327/102, 1-19=-54/914, 3-18=-533/154, 3-19=-27/437, 5-16=-1089/176, 7-14=0/536, 9-14=-245/123, 10-13=-341/103, 11-13=-155/59, 9-13=-638/58, 5-18=-37/92, 7-16=-871/162

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-6 to 4-6-13, Interior (1) 4-6-13 to 21-6-0, Exterior(2R) 21-6-0 to 25-9-7, Interior (1) 25-9-7 to 42-10-4 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 12 and 14 lb uplift at joint 13.
- 8) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18,2024

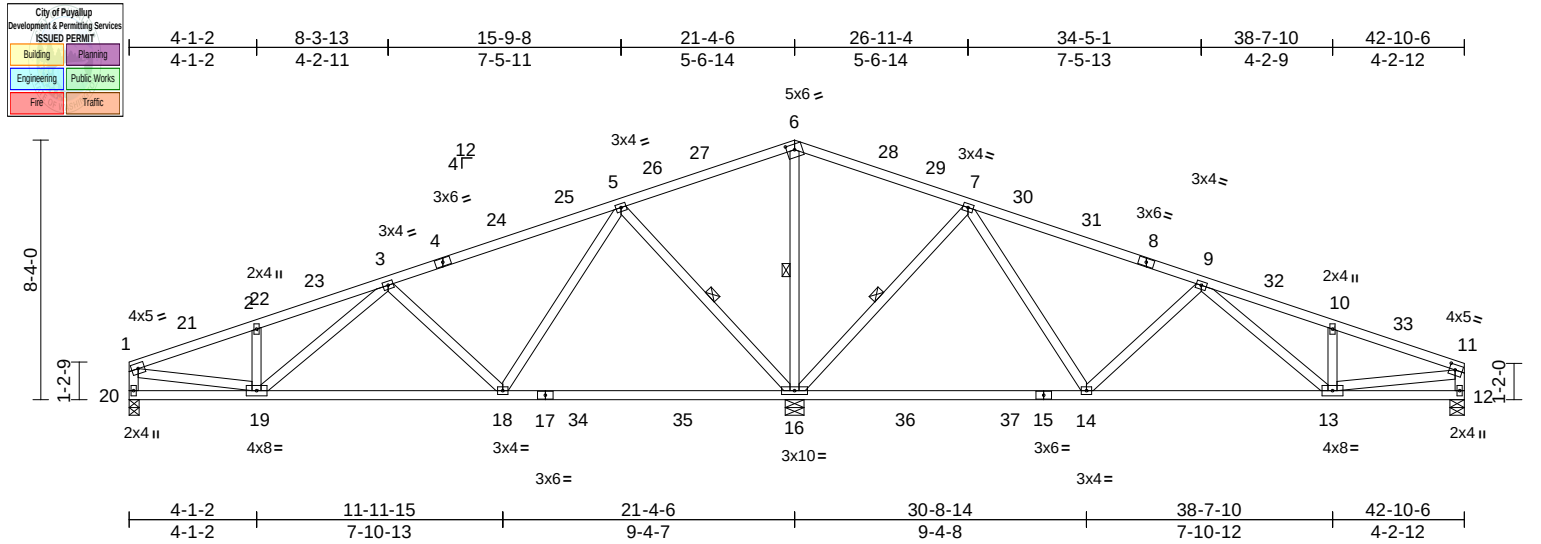
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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387431
4319944	A04	Common	1	1	Job Reference (optional)	

PRMU20241695



Scale = 1:74									
Plate Offsets (X, Y): [6:0-3-0,0-2-2], [11:0-2-4,0-2-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.21 14-16	>999	240
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.32 14-16	>793	180
TCDL	7.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01 16	n/a	n/a
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-MSH					
BCDL	10.0								
Weight: 186 lb									FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-16, 5-16, 7-16

REACTIONS
(size) 12=0-5-8, 16=0-7-4, 20=0-3-14
Max Horiz 20=38 (LC 19)
Max Uplift 12=9 (LC 15), 20=-4 (LC 14)
Max Grav 12=656 (LC 21), 16=2632 (LC 2), 20=652 (LC 20)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-985/96, 2-3=-963/134, 3-5=-453/157, 5-6=-26/983, 6-7=-20/982, 7-9=-453/146, 9-10=-990/122, 10-11=-1014/84, 1-20=-621/94, 11-12=-622/88
BOT CHORD 19-20=-46/114, 18-19=-53/730, 16-18=-360/93, 14-16=-352/86, 13-14=-45/737, 12-13=-35/126
WEBS 6-16=-851/110, 2-19=-323/101, 1-19=-48/842, 3-18=-555/155, 3-19=-18/443, 5-16=-1093/178, 7-14=-5/816, 9-14=-563/156, 10-13=-323/100, 11-13=-33/854, 9-13=-23/458, 5-18=-4/809, 7-16=-1098/177

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-6 to 4-7-0, Interior (1) 4-7-0 to 21-6-0, Exterior(2R) 21-6-0 to 25-9-10, Interior (1) 25-9-10 to 42-10-4 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 20 and 9 lb uplift at joint 12.
- 8) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

NOTES



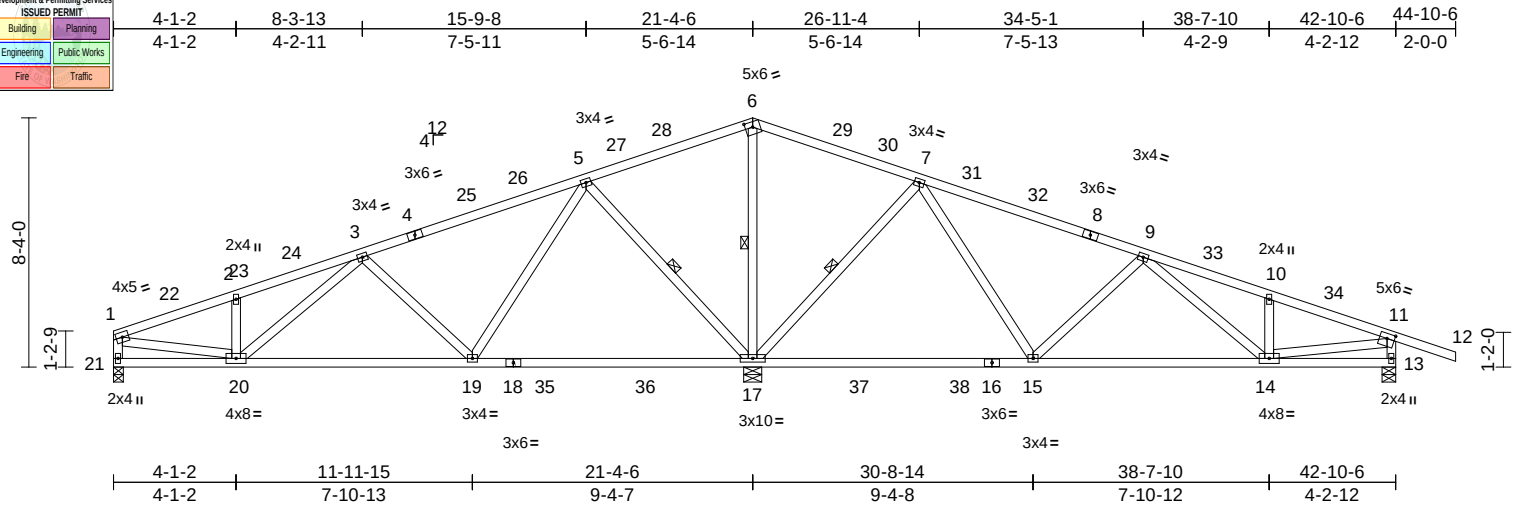
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[illegible]

LUMBER

TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS	1 Row at midpt	6-17, 5-17, 7-17

REACTIONS (size)

	13=0-5-8, 17=0-7-4, 21=0-3-14
Max Horiz	21=50 (LC 19)
Max Uplift	13=56 (LC 11), 21=5 (LC 14)
Max Grav	13=803 (LC 22), 17=2622 (LC 2), 21=658 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-996/102, 2-3=-973/140, 3-5=-469/150, 5-6=-2/976, 6-7=0/976, 7-9=-447/156, 9-10=-931/96, 10-11=-963/66, 11-12=0/77, 1-21=-627/97, 11-13=-770/188
BOT CHORD	20-21=-41/114, 19-20=-49/745, 17-19=-354/101, 15-17=-357/95, 14-15=-20/720, 13-14=-165/161
WEBS	6-17=-847/95, 2-20=-323/101, 1-20=-53/852, 3-19=-554/154, 3-20=-16/443, 5-17=-1119/176, 7-15=0/806, 9-15=-548/141, 10-14=-315/70, 11-14=-38/873, 9-14=-9/446, 5-19=-4/809, 7-17=-1088/175

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TC DL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-6 to 4-7-0, Interior (1) 4-7-0 to 21-6-0, Exterior(2R) 21-6-0 to 25-9-10, Interior (1) 25-9-10 to 45-0-0 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) T CLL: ASCE 7-16; P f=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; C t=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 21 and 56 lb uplift at joint 13.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18, 2024



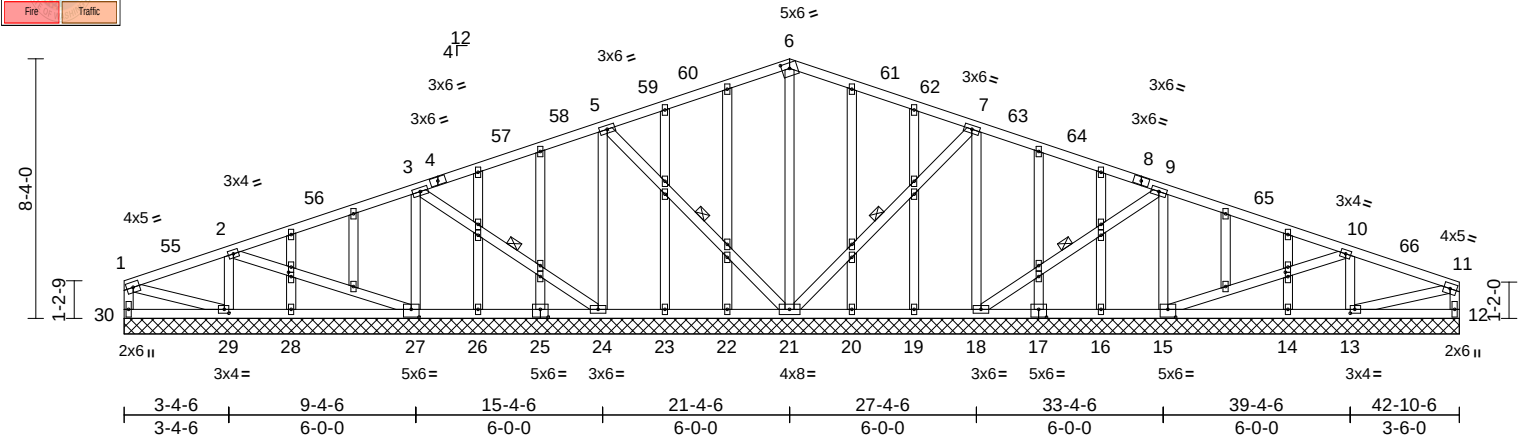
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcscomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387433
4319944	A06	Common Structural Gable	1	1	Job Reference (optional)	

PRMU20241695



Scale = 1:74

Plate Offsets (X, Y): [6:0-3-0,0-2-2], [13:0-1-12,0-1-8], [15:0-3-0,0-3-0], [17:0-3-0,0-3-0], [25:0-3-0,0-3-0], [27:0-3-0,0-3-0], [29:0-1-12,0-1-8], [41:0-1-11,0-1-0], [54:0-1-11,0-1-0]

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	0.75	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.16	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.88	Horiz(TL)	0.01	21	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 260 lb FT = 10%											

LUMBER

TOP CHORD 2x4 HF No.2

BOT CHORD 2x4 HF No.2

WEBS 2x4 HF No.2

OTHERS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-2 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt 3-24, 5-21, 7-21, 9-18

REACTIONS (size)

12=42-10-6, 13=42-10-6, 14=42-10-6, 15=42-10-6, 16=42-10-6, 18=42-10-6, 19=42-10-6, 20=42-10-6, 21=42-10-6, 22=42-10-6, 23=42-10-6, 24=42-10-6, 26=42-10-6, 27=42-10-6, 28=42-10-6, 29=42-10-6, 30=42-10-6

Max Horiz 30=-38 (LC 49)

Max Uplift 12=-768 (LC 50), 13=-416 (LC 42), 15=-760 (LC 42), 18=-337 (LC 42), 21=-57 (LC 40), 24=-341 (LC 47), 27=-763 (LC 47), 29=-385 (LC 47), 30=-800 (LC 49)

Max Grav 12=827 (LC 59), 13=655 (LC 33), 14=127 (LC 5), 15=944 (LC 33), 16=117 (LC 5), 18=732 (LC 33), 19=77 (LC 22), 20=88 (LC 5), 21=559 (LC 1), 22=88 (LC 5), 23=77 (LC 22), 24=734 (LC 32), 26=117 (LC 5), 27=945 (LC 32), 28=129 (LC 5), 29=620 (LC 32), 30=852 (LC 56)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-1374/1356, 2-3=-1855/1830, 3-5=-1745/1730, 5-6=-1295/1302, 6-7=-1293/1317, 7-9=-1743/1733, 9-10=-1852/1816, 10-11=-1382/1351, 1-30=-832/811, 11-12=-803/786

BOT CHORD

29-30=-637/653, 28-29=-645/657, 27-28=-597/609, 26-27=-529/560, 24-26=-700/731, 23-24=-453/477, 22-23=-428/452, 21-22=-828/852, 20-21=-829/843, 19-20=-429/443, 18-19=-451/465, 16-18=-703/716, 15-16=-523/536, 14-15=-595/606, 13-14=-609/620, 12-13=-632/641

WEBS

1-29=-1297/1316, 11-13=-1283/1283, 3-27=-1240/1195, 3-24=-1354/1365, 5-24=-1168/1162, 5-21=-1174/1194, 6-21=-382/122, 7-21=-1175/1174, 7-18=-1168/1137, 9-18=-1359/1369, 9-15=-1241/1207, 2-27=-1160/1178, 2-29=-858/827, 10-15=-1177/1186, 10-13=-864/835

NOTES

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-3-6 to 4-6-13, Exterior(2N) 4-6-13 to 21-6-0, Corner(3R) 21-6-0 to 25-9-7, Exterior(2N) 25-9-7 to 42-10-4 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.

4) Unbalanced snow loads have been considered for this design.

5) All plates are 2x4 MT20 unless otherwise indicated.

6) Gable requires continuous bottom chord bearing.

7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

8) Gable studs spaced at 2-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.

November 18,2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	A06	Common Structural Gable	1	1	R85387433
					Job Reference (optional)

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 800 lb uplift at joint 30, 385 lb uplift at joint 29, 768 lb uplift at joint 12, 416 lb uplift at joint 13, 763 lb uplift at joint 27, 341 lb uplift at joint 24, 57 lb uplift at joint 21, 337 lb uplift at joint 18 and 760 lb uplift at joint 15.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 42-10-6 for 200.0 plf.
- LOAD CASE(S) Standard

PRMU20241695

City of Puyallup
Development & Permitting Services
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Building

Planning

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Traffic

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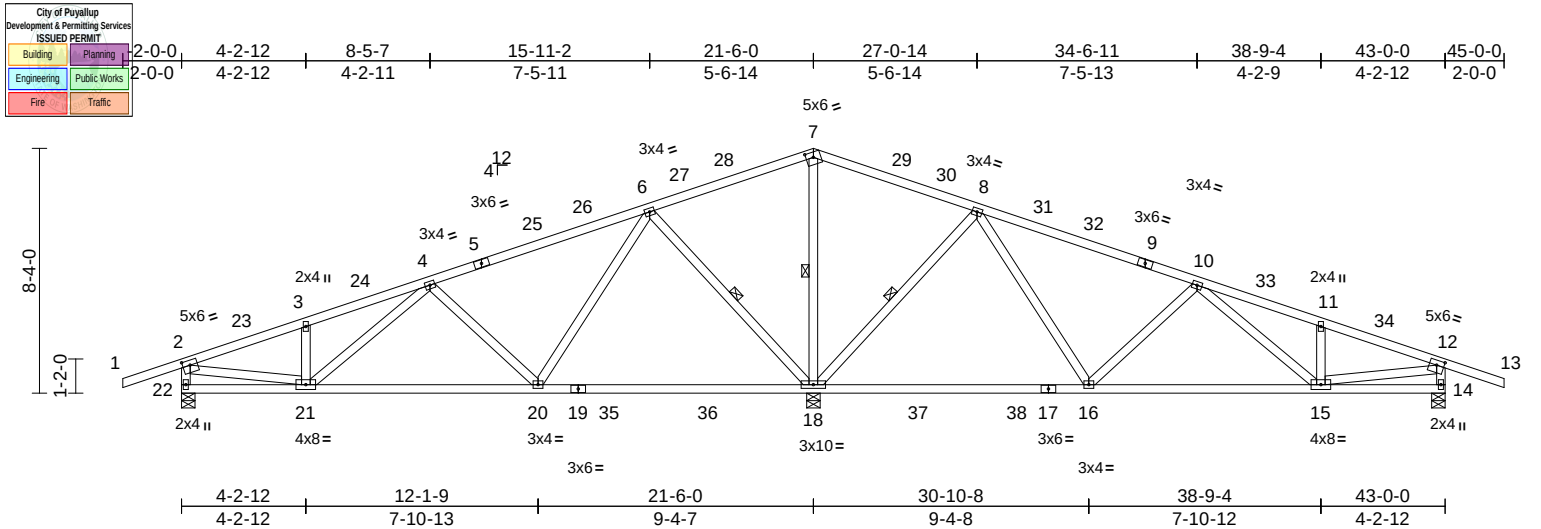
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387434
4319944	A07	Common	19	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:06
ID:eY6kyRMwxXj9nXmM3Wh27UyIt1X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCrCDoi7J4zJC?f

Page: 1

PRMU20241695



Scale = 1:78.4

Plate Offsets (X, Y): [2:0-3-0,0-2-0], [7:0-3-0,0-2-2], [12:0-3-0,0-2-0]

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	0.89	Vert(LL)	-0.20	16-18	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.32	16-18	>800	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	18	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH								
BCDL	10.0											
Weight: 192 lb											FT = 10%	

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-18, 6-18, 8-18

REACTIONS
(size) 14=0-5-8, 18=0-5-8, 22=0-5-8
Max Horiz 22=43 (LC 15)
Max Uplift 14=57 (LC 11), 22=52 (LC 10)
Max Grav 14=808 (LC 22), 18=2623 (LC 2), 22=808 (LC 21)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=-967/62, 3-4=-945/96, 4-6=-461/160, 6-7=0/980, 7-8=0/980, 8-10=-462/160, 10-11=-944/103, 11-12=-967/70, 12-13=0/77, 2-22=-778/191, 12-14=-778/187
BOT CHORD 21-22=-168/159, 20-21=-49/733, 18-20=-362/100, 16-18=-362/87, 15-16=-21/734, 14-15=-168/159
WEBS 7-18=-848/94, 3-21=-320/72, 2-21=-42/881, 4-20=-547/142, 4-21=-11/458, 6-18=-1116/175, 8-16=0/807, 10-16=-547/141, 11-15=-320/71, 12-15=-36/880, 10-15=-12/458, 6-20=0/807, 8-18=-1116/174

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 2-3-10, Interior (1) 2-3-10 to 21-6-0, Exterior(2R) 21-6-0 to 25-9-10, Interior (1) 25-9-10 to 45-0-0 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 22 and 57 lb uplift at joint 14.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18,2024

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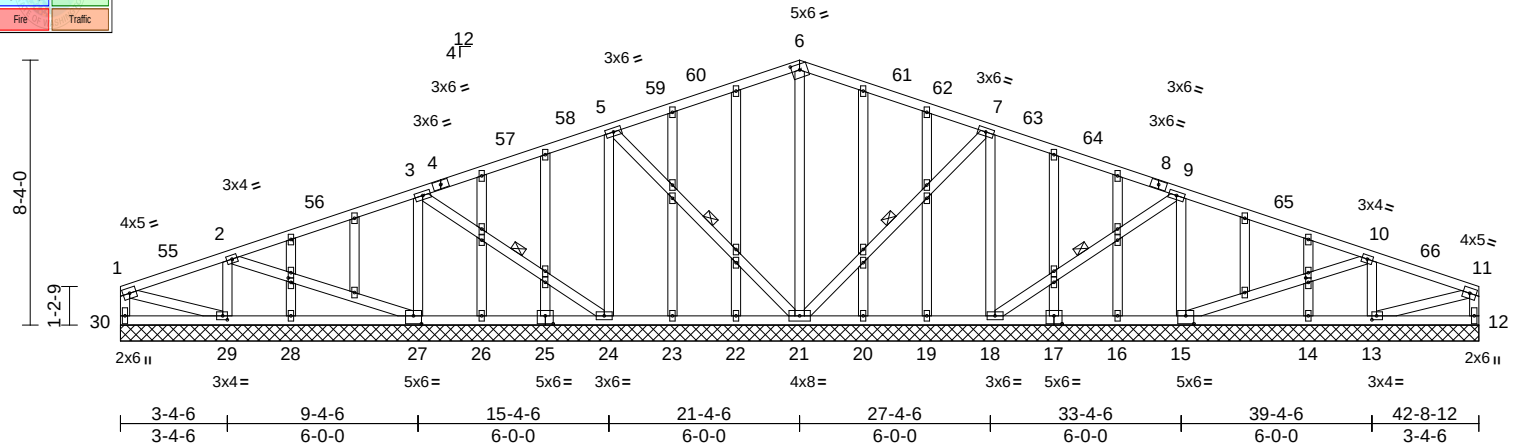
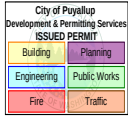
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387435
4319944	A08	Common Structural Gable	3	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:06

Page: 1

PRMU20241695



Scale = 1:72.5

Plate Offsets (X, Y): [6:0-3-0,0-2-2], [13:0-1-12,0-1-8], [15:0-3-0,0-3-0], [17:0-3-0,0-3-0], [25:0-3-0,0-3-0], [27:0-3-0,0-3-0], [29:0-1-12,0-1-8], [41:0-1-11,0-1-0], [54:0-1-11,0-1-0]

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	0.75	Vert(LL)	n/a	-	n/a	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a		
TCDL	7.0	Rep Stress Incr	YES	WB	0.87	Horiz(TL)	0.01	21	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 259 lb FT = 10%											

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
OTHERS 2x4 HF No.2

BRACING

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

WEBS 1 Row at midpt 9-18, 3-24, 5-21, 7-21

REACTIONS (size)

12=42-8-12, 13=42-8-12, 14=42-8-12, 15=42-8-12, 16=42-8-12, 18=42-8-12, 19=42-8-12, 20=42-8-12, 21=42-8-12, 22=42-8-12, 23=42-8-12, 24=42-8-12, 26=42-8-12, 27=42-8-12, 28=42-8-12, 29=42-8-12, 30=42-8-12
Max Horiz 30=37 (LC 50)
Max Uplift 12=794 (LC 50), 13=380 (LC 42), 15=761 (LC 42), 18=338 (LC 42), 21=57 (LC 39), 24=341 (LC 47), 27=763 (LC 47), 29=385 (LC 47), 30=800 (LC 49)
Max Grav 12=851 (LC 59), 13=620 (LC 33), 14=129 (LC 5), 15=945 (LC 33), 16=117 (LC 5), 18=733 (LC 33), 19=77 (LC 22), 20=88 (LC 5), 21=559 (LC 1), 22=88 (LC 5), 23=77 (LC 22), 24=733 (LC 32), 26=117 (LC 5), 27=945 (LC 32), 28=129 (LC 5), 29=620 (LC 32), 30=852 (LC 56)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1374/1356, 2-3=-1855/1829, 3-5=-1745/1729, 5-6=-1294/1301, 6-7=-1294/1317, 7-9=-1745/1734, 9-10=-1857/1820, 10-11=-1371/1340, 1-30=-832/810, 11-12=-828/809
BOT CHORD 29-30=-637/652, 28-29=-646/657, 27-28=-598/609, 26-27=-529/559, 24-26=-701/731, 23-24=-453/476, 22-23=-429/452, 21-22=-829/852, 20-21=-828/840, 19-20=-428/440, 18-19=-453/465, 16-18=-699/712, 15-16=-528/541, 14-15=-579/589, 13-14=-627/637, 12-13=-609/616
WEBS 2-29=-858/827, 3-27=-1239/1195, 6-21=-382/121, 5-24=-1167/1162, 7-18=-1167/1136, 9-15=-1238/1204, 9-18=-1355/1365, 10-13=-855/826, 3-24=-1354/1365, 5-21=-1174/1193, 7-21=-1174/1172, 2-27=-1159/1178, 1-29=-1297/1317, 10-15=-1163/1173, 11-13=-1283/1285

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-3-6 to 4-6-10, Exterior(2N) 4-6-10 to 21-6-0, Corner(3R) 21-6-0 to 25-9-4, Exterior(2N) 25-9-4 to 42-8-10 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.



November 18, 2024

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	A08	Common Structural Gable	3	1	R85387435
					Job Reference (optional)

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 800 lb uplift at joint 30, 794 lb uplift at joint 12, 385 lb uplift at joint 29, 763 lb uplift at joint 27, 57 lb uplift at joint 21, 341 lb uplift at joint 24, 338 lb uplift at joint 18, 761 lb uplift at joint 15 and 380 lb uplift at joint 13.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 42-8-12 for 200.0 plf.
- LOAD CASE(S) Standard

PRMU20241695

City of Puyallup
Development & Permitting Services
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Building

Planning

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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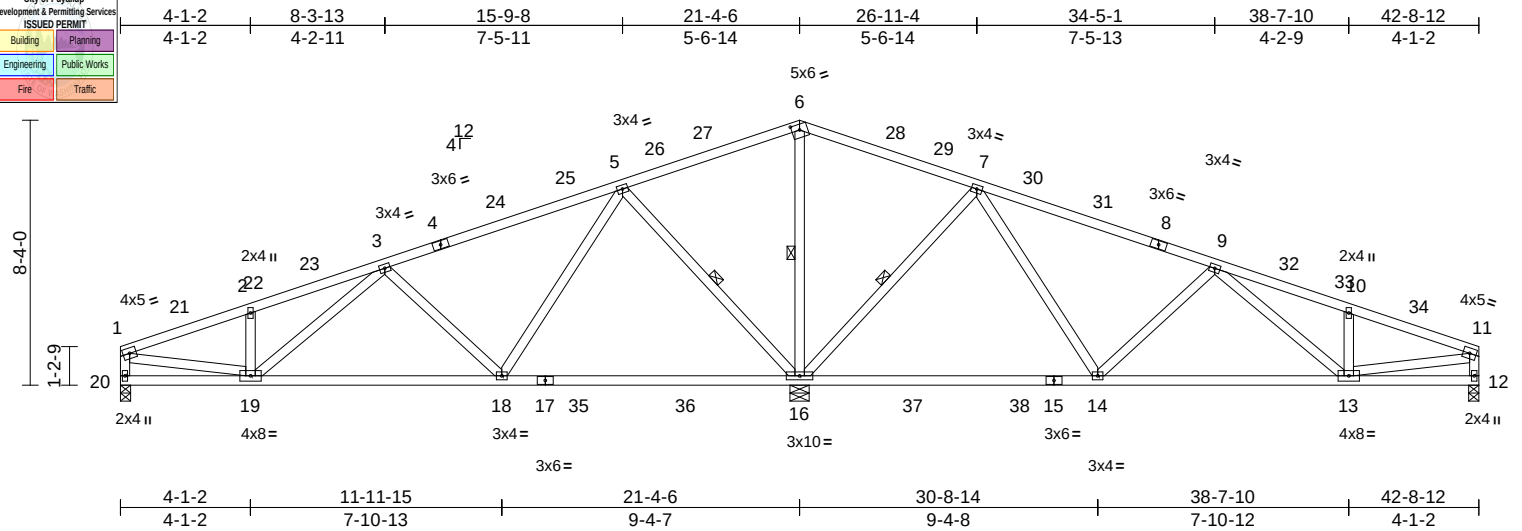
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387436
4319944	A09	Common	22	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:07

Page: 1

PRMU20241695



Scale = 1:72.5

Plate Offsets (X, Y): [6:0-3-0,0-2-2]

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	0.89	Vert(LL)	-0.20	14-16	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.32	14-16	>795	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	16	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 186 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING

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

WEBS 1 Row at midpt 6-16, 5-16, 7-16

REACTIONS

(size) 12=0-3-14, 16=0-7-4, 20=0-3-14
Max Horiz 20=37 (LC 18)
Max Uplift 12=9 (LC 15), 20=-3 (LC 14)
Max Grav 12=654 (LC 21), 16=2618 (LC 2), 20=654 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-982/94, 2-3=-971/137, 3-5=-459/143, 5-6=-25/969, 6-7=-20/969, 7-9=-460/142, 9-10=-971/124, 10-11=-982/81, 1-20=-625/93, 11-12=-625/86
BOT CHORD 19-20=-48/112, 18-19=-53/734, 16-18=-346/92, 14-16=-346/85, 13-14=-48/735, 12-13=-34/112
WEBS 6-16=-843/109, 2-19=-327/102, 1-19=-45/843, 3-18=-553/155, 3-19=-20/453, 5-16=-1092/177, 7-14=-6/809, 9-14=-553/158, 10-13=-327/102, 11-13=-33/842, 9-13=-24/452, 5-18=-4/809, 7-16=-1092/176

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-6 to 4-7-0, Interior (1) 4-7-0 to 21-6-0, Exterior(2R) 21-6-0 to 25-9-10, Interior (1) 25-9-10 to 42-8-10 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 20 and 9 lb uplift at joint 12.
- 8) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18,2024

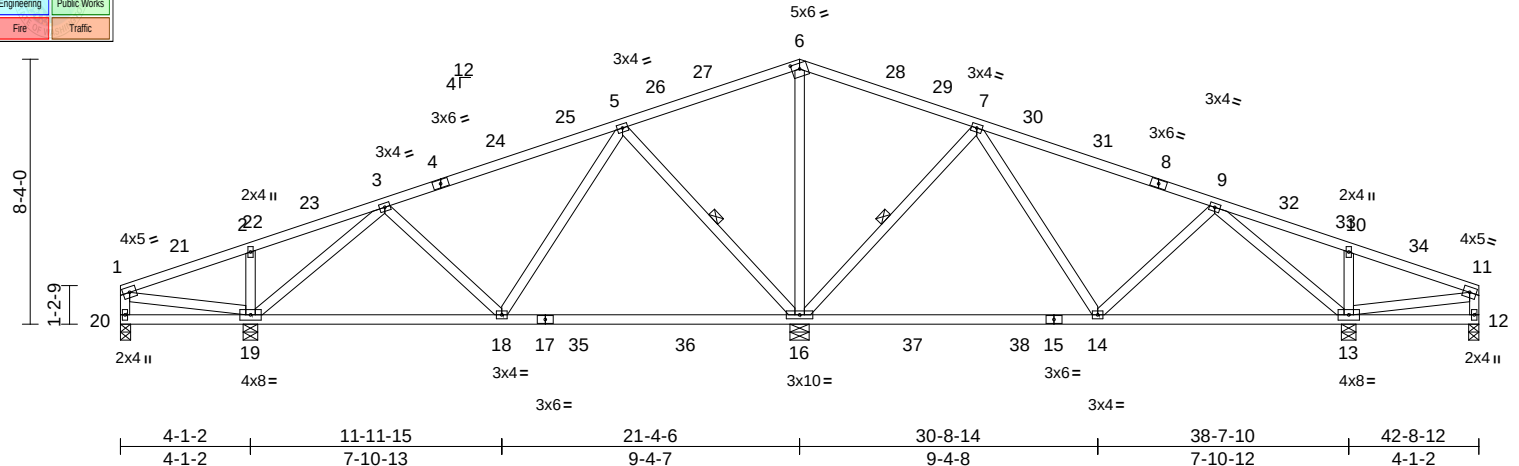
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:07 Page: 1
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Scale = 1:72.5

Plate Offsets (X, Y): [6:0-3-0,0-2-2]

[illegible]

TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2

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

WEBS	1 Row at midpt	5-16, 7-16
REACTIONS	(size)	12=0-3-14, 13=0-5-8, 16=0-7-4, 19=0-5-8, 20=0-3-14
	Max Horiz	20=37 (LC 18)
	Max Uplift	12=-17 (LC 36), 13=-1 (LC 15), 20=-17 (LC 31)
	Max Grav	12=306 (LC 38), 13=910 (LC 4) 16=1962 (LC 2), 19=909 (LC 3) 20=306 (LC 29)

Tension

TOP CHORD 1-2=-26/158, 2-3=0/168, 3-5=-465/77,
5-6=0/490, 6-7=0/490, 7-9=-465/76,
9-10=0/169, 10-11=-27/158, 1-20=-285/38,
11-12=-285/37

BOT CHORD 19-20=-47/93, 18-19=-34/444,
16-18=-76/221, 14-16=-76/221,
13-14=-26/444, 12-13=-31/93

WEBS 6-16=-556/82, 2-19=-341/104, 1-19=-155/64,
3-18=-172/114, 3-19=-734/76,
5-16=-847/159, 7-14=0/467, 9-14=-172/117,
10-13=-341/104, 11-13=-156/58,
9-13=-735/79, 5-18=0/467, 7-16=-847/157

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-6 to 4-6-10, Interior (1) 4-6-10 to 21-6-0, Exterior(2R) 21-6-0 to 25-9-4, Interior (1) 25-9-4 to 42-8-10 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 20, 17 lb uplift at joint 12 and 1 lb uplift at joint 13.
- 8) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18, 2024



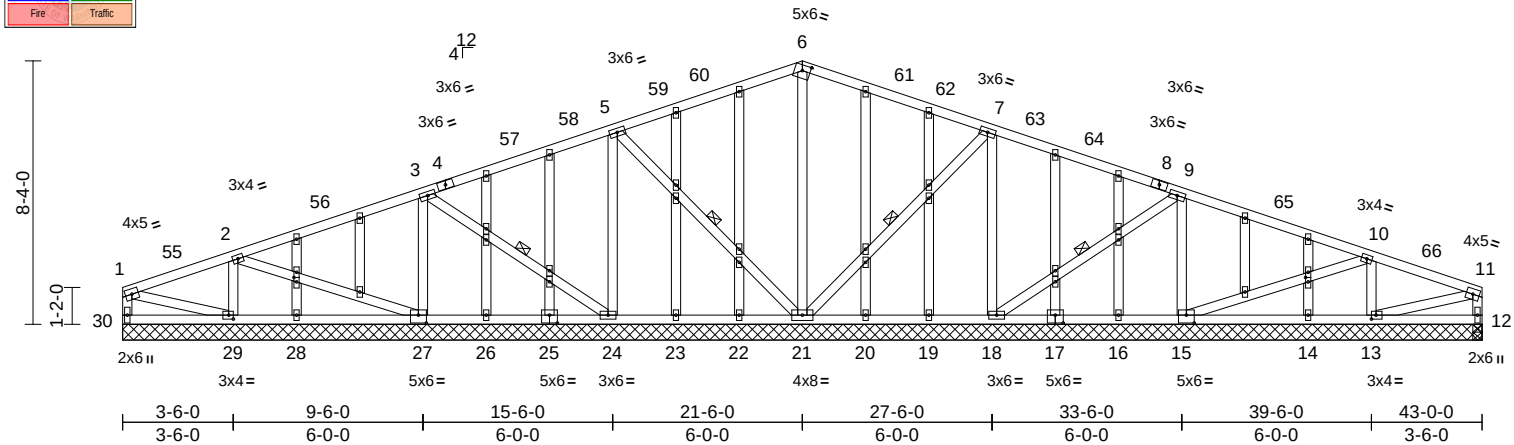
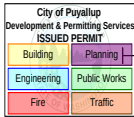
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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387438
4319944	A11	Common	1	1	Job Reference (optional)	

PRMU20241695



Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	A11	Common	1	1	R85387438
Job Reference (optional)					

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 768 lb uplift at joint 30, 425 lb uplift at joint 29, 770 lb uplift at joint 12, 416 lb uplift at joint 13, 763 lb uplift at joint 27, 341 lb uplift at joint 24, 57 lb uplift at joint 21, 337 lb uplift at joint 18 and 760 lb uplift at joint 15.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 13) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 42-10-6 for 200.6 plf.
- LOAD CASE(S) Standard

PRMU20241695

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

Planning

Engineering

Public Works

Fire

Traffic

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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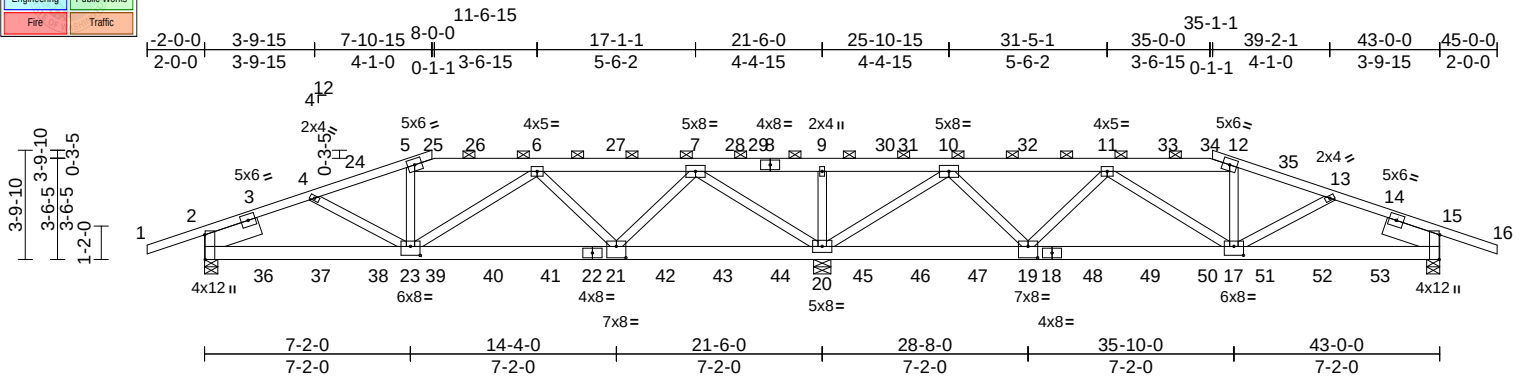


Plate Offsets (X, Y): [2:0-10-5,Edge], [15:0-10-5,Edge], [17:0-4-0,0-3-12], [19:0-4-0,0-4-12], [21:0-4-0,0-4-12], [23:0-4-0,0-3-12]

[illegible]

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 2, 25 lb uplift at joint 20 and 63 lb uplift at joint 15.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 18, 2024

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	A12	California Girder	1	2	Job Reference (optional)

R85387439

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

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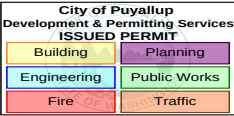
Page: 2

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 99 lb down and 50 lb up at 7-11-12, and 99 lb down and 50 lb up at 35-0-4 on top chord, and 94 lb down at 2-0-12, 95 lb down at 4-0-12, 579 lb down and 55 lb up at 6-0-12, 418 lb down and 14 lb up at 8-0-12, 752 lb down and 36 lb up at 10-0-12, 671 lb down and 31 lb up at 12-0-12, 593 lb down and 25 lb up at 14-0-12, 538 lb down and 19 lb up at 16-0-12, 530 lb down and 12 lb up at 18-0-12, 530 lb down at 20-0-12, 530 lb down at 22-11-4, 530 lb down and 12 lb up at 24-11-4, 538 lb down and 19 lb up at 26-11-4, 593 lb down and 25 lb up at 28-11-4, 671 lb down and 31 lb up at 30-11-4, 752 lb down and 36 lb up at 32-11-4, 418 lb down and 14 lb up at 34-11-4, 579 lb down and 55 lb up at 36-11-4, and 95 lb down at 38-11-4, and 94 lb down at 40-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-64, 5-12=-64, 12-16=-64, 2-15=-20
Concentrated Loads (lb)
Vert: 21=-593 (B), 19=-593 (B), 36=-88 (B), 37=-47 (B), 38=-579 (B), 39=-418 (B), 40=-752 (B), 41=-671 (B), 42=-538 (B), 43=-530 (B), 44=-530 (B), 45=-530 (B), 46=-530 (B), 47=-538 (B), 48=-671 (B), 49=-752 (B), 50=-418 (B), 51=-579 (B), 52=-47 (B), 53=-88 (B)

PRMU20241695



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

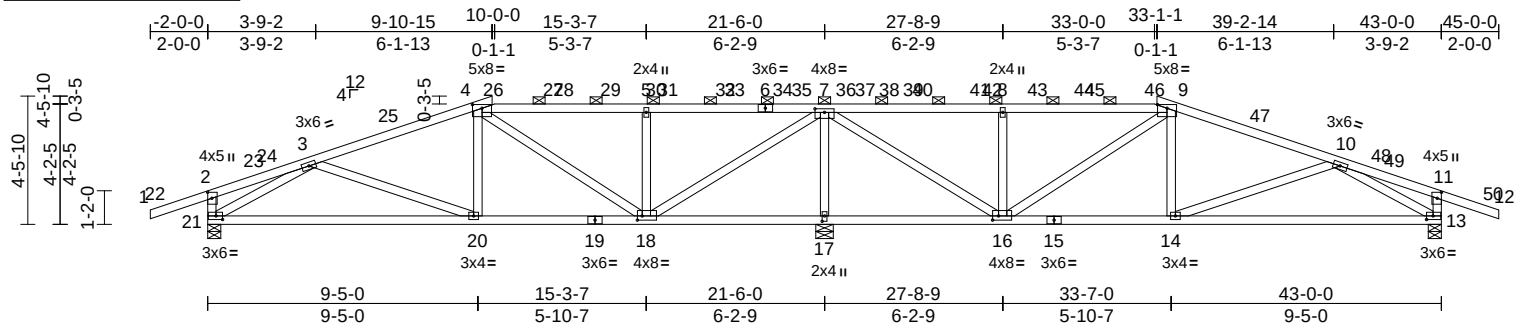
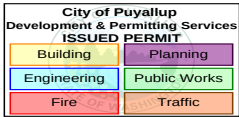
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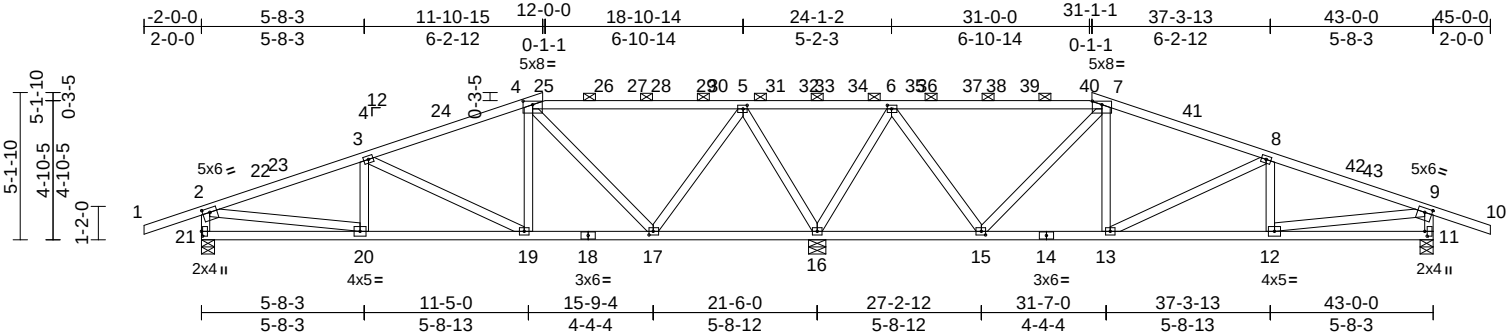
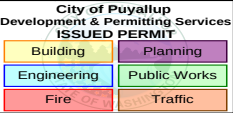
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387440
4319944	A13	California	1	1	Job Reference (optional)	

PRMU20241695



Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387441
4319944	A14	California	1	1	Job Reference (optional)	

PRMU20241695



Scale = 1:80.4

Plate Offsets (X, Y): [2:0-3-0,0-1-12], [4:0-4-0,0-1-8], [5:0-1-12,0-1-8], [6:0-1-12,0-1-8], [7:0-4-0,0-1-8], [9:0-3-0,0-1-12], [11:0-2-0,0-1-0], [15:0-1-12,0-1-8], [17:0-1-12,0-1-8], [21:0-2-0,0-0-8]

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	0.86	Vert(LL)	-0.07	19-20	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.11	12-13	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.02	11	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 193 lb	FT = 10%

- LUMBER**

TOP CHORD 2x4 HF No.2 *Except* 4-7:2x4 DF 1800F 1.6E

BOT CHORD 2x4 HF No.2

WEBS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 11=0-5-8, 16=0-7-4, 21=0-5-8

Max Horiz 21=18 (LC 19)

Max Uplift 11=52 (LC 11), 16=7 (LC 10), 21=51 (LC 10)

Max Grav 11=1134 (LC 39), 16=2795 (LC 35), 21=1134 (LC 37)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/77, 2-3=-1413/136, 3-4=-831/112, 4-5=-124/132, 5-6=-65/1395, 6-7=-124/131, 7-8=-831/119, 8-9=-1413/143, 9-10=0/77, 2-21=-1078/218, 9-11=-1078/215

BOT CHORD 20-21=-147/265, 19-20=-82/1262, 17-19=0/702, 16-17=-639/111, 15-16=-639/122, 13-15=0/702, 12-13=-61/1262, 11-12=-147/265

WEBS 3-20=-83/159, 3-19=-616/111, 4-19=0/369, 4-17=-977/126, 5-17=-41/983, 5-16=-1533/192, 6-16=-1533/196, 6-15=-37/984, 7-15=-977/121, 7-13=0/369, 8-13=-616/109, 8-12=-83/159, 2-20=-86/1194, 9-12=-83/1194

NOTES
- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 2-0-0 to 2-3-10, Interior (1) 2-3-10 to 11-6-12, Exterior(2R) 11-6-12 to 17-7-12, Interior (1) 17-7-12 to 31-5-4, Exterior(2R) 31-5-4 to 37-3-13, Interior (1) 37-3-13 to 45-0-0 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
 - TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 21, 7 lb uplift at joint 16 and 52 lb uplift at joint 11.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 94 lb up at 11-11-12, 125 lb down and 64 lb up at 14-0-12, 132 lb down and 68 lb up at 16-0-12, 122 lb down and 68 lb up at 18-0-12, 88 lb down and 68 lb up at 20-0-12, 88 lb down and 68 lb up at 22-11-4, 122 lb down and 68 lb up at 24-11-4, 132 lb down and 68 lb up at 26-11-4, and 125 lb down and 64 lb up at 28-11-4, and 104 lb down and 94 lb up at 31-0-4 on top chord. The design/selection of such connection device (s) is the responsibility of others.
- LOAD CASE(S)** Standard

 - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-64, 2-4=-64, 4-7=-64, 7-9=-64, 9-10=-64, 11-21=-20

Concentrated Loads (lb)



November 18,2024

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	A14	California	1	1	R85387441
Job Reference (optional)					

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:10

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Page: 2

Vert: 25=-5, 26=-59, 28=-62, 30=-52, 31=-18,
34=-18, 35=-52, 37=-62, 39=-59, 40=-5

PRMU20241695

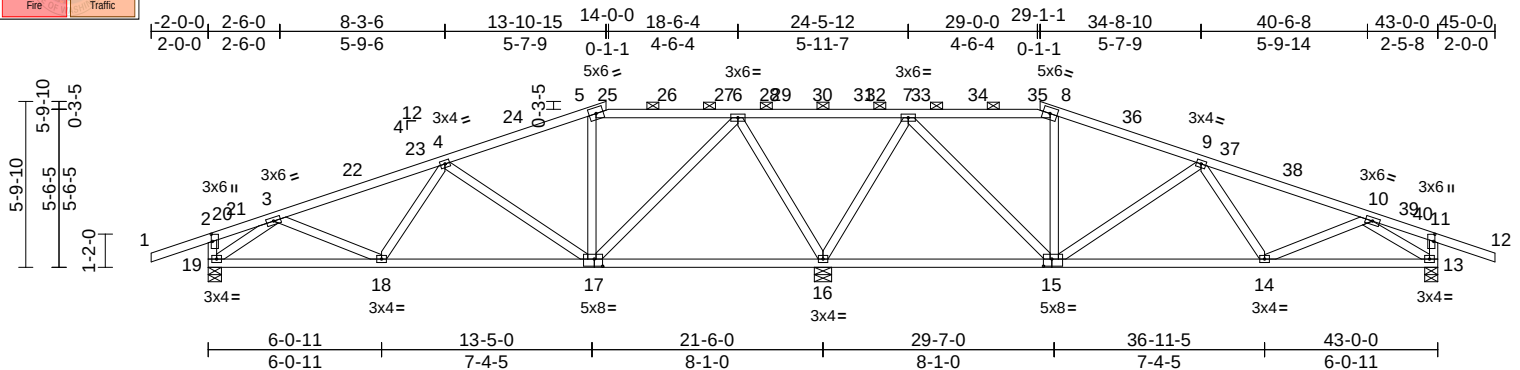
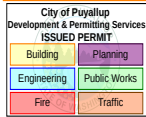
City of Puyallup Development & Permitting Services ISSUED PERMIT			
Building	Planning	Engineering	Public Works
Fire	Traffic		

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Scale = 1:80.6

Plate Offsets (X, Y): [2:0-3-0,0-0-8], [11:0-3-0,0-0-8], [15:0-3-8,0-3-0], [17:0-3-8,0-3-0]

[illegible]

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 16-6,16-7:2x4 DF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-2-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
bracing.

REACTIONS

Max Horiz 19=23 (LC 18)
Max Uplift 13=-53 (LC 11), 19=-51 (LC 10)
Max Grav 13=1074 (LC 39), 16=2976 (LC 35), 19=1074 (LC 37)

FORCES

Tension

TOP CHORD 1-2=0/77, 2-3=-144/128, 3-4=-1338/111,
4-5=-616/95, 5-6=-513/108, 6-7=-46/1294,
7-8=-513/120, 8-9=-616/105,
9-10=-1338/120, 10-11=-144/128,
11-12=0/77, 2-19=-336/117, 11-13=-336/117

BOT CHORD 18-19=-93/1089, 16-18=-495/1134,
14-16=-495/1134, 13-14=-72/1089

WEBS 5-17=-317/76, 6-17=-84/1233,
6-16=-1616/202, 7-16=-1616/207,
7-15=-78/1233, 8-15=-317/77,
3-19=-1440/167, 10-13=-1440/163,
3-18=-114/246, 4-18=0/255, 4-17=-760/145,
9-15=-760/143, 9-14=0/255, 10-14=-114/246

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TC DL=4.2psf; BC DL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 2-0-0 to 2-3-7, Interior (1) 2-3-7 to 13-6-12, Exterior(2R) 13-6-12 to 19-7-12, Interior (1) 19-7-12 to 29-5-4, Exterior(2R) 29-5-4 to 35-6-4, Interior (1) 35-6-4 to 45-0-0 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) T CLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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.
- 6) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 19 and 53 lb uplift at joint 13.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 172 lb down and 94 lb up at 13-11-12, 125 lb down and 64 lb up at 16-0-12, 132 lb down and 68 lb up at 18-0-12, 134 lb down and 68 lb up at 20-0-12, 134 lb down and 68 lb up at 22-11-4, 132 lb down and 68 lb up at 24-11-4, and 125 lb down and 64 lb up at 26-11-4, and 172 lb down and 94 lb up at 29-0-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-64, 2-5=-64, 5-8=-64, 8-11=-64,
11-12=-64, 13-19=20
Concentrated Loads (lb)
Vert: 25=-73, 26=-59, 27=-62, 29=-64, 31=-64,
33=-62, 34=-59, 35=73



November 18, 2024



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Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:10 Page: 1
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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

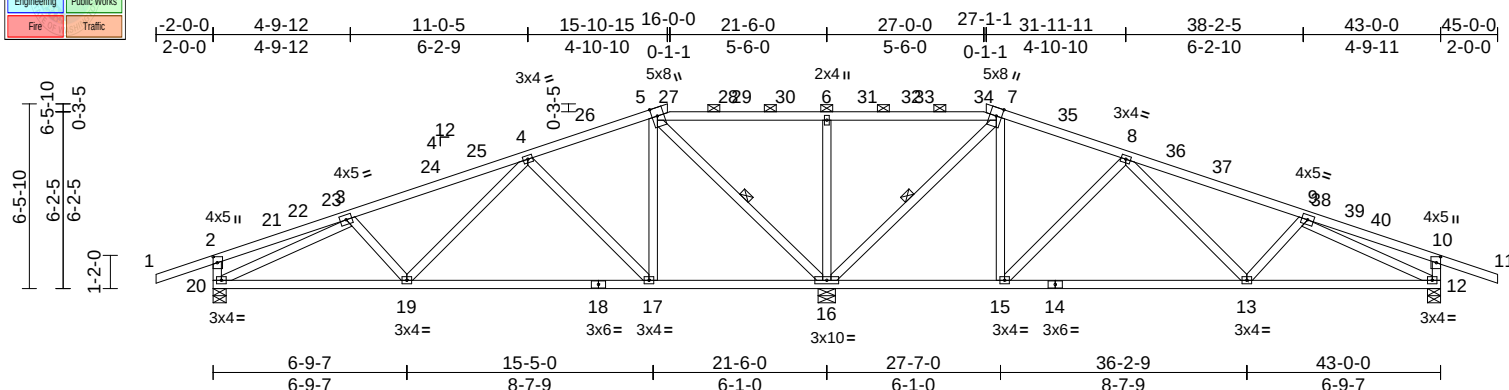


Plate Offsets (X, Y): [2:0-2-8.0-1-12], [5:0-3-8.Edge], [7:0-3-8.Edge], [9:0-0-0.0-0-0], [10:0-2-8.0-1-12]

[illegible]

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.); 5-7.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
bracing.

WEBS	1 Row at midpt	5-16, 7-16
------	----------------	------------

Max Horiz	20=-28 (LC 19)
Max Uplift	12=-51 (LC 11), 20=-48 (LC 10)
Max Grav	12=984 (LC 39), 16=3073 (LC 35), 20=984 (LC 37)

Tension

TOP CHORD 1-2=0/77, 2-3=-285/160, 3-4=-1227/102,
4-5=-260/155, 5-6=-17/1225, 6-7=-17/1225,
7-8=-260/155, 8-9=-1227/112,
9-10=-284/160, 10-11=0/77, 2-20=-362/152,
10-12=-362/151

BOT CHORD 19-20=-75/1239, 17-19=-20/753,
16-17=-139/177, 15-16=-139/178,

WEBS 13-15=-3/753, 12-13=-55/1239
5-17=-21/746, 5-16=-1676/133,
6-16=-681/156, 7-16=-1676/127,
7-15=-20/746, 3-20=-1389/125,
9-12=-1390/116, 8-15=-824/158, 8-13=0/481
9-13=-247/110, 3-19=-247/112, 4-19=0/481,
4-17=-824/160

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCdL=4.2psf; BCDL=6.0psf; h=35ft; Cat.
II; Exp B; Enclosed; MWFRS (fenitelo) and C-C
Exterior(2E) -2-0-0 to 2-3-10, Interior (1) 2-3-10 to
15-6-12, Exterior(2R) 15-6-12 to 21-6-0, Interior (1)
21-6-0 to 27-5-4, Exterior(2R) 27-5-4 to 33-6-4, Interior
(1) 33-6-4 to 45-0-0 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; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load
applied where required.
- 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 3x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 9) All bearings are assumed to be HF No.2 crushing
capacity of 405 psi.
- 10) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 48 lb uplift at joint
20 and 51 lb uplift at joint 12.
- 11) This truss has been designed for a moving concentrated
load of 250.0lb live and 40.0lb dead located at all mid
panels and at all panel points along the Top Chord,
nonconcurrent with any other live loads.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 200 lb down and 94 lb up at 15-11-12, 125 lb down and 64 lb up at 18-0-12, 136 lb down and 68 lb up at 20-0-12, 136 lb down and 68 lb up at 22-11-4, and 125 lb down and 64 lb up at 24-11-4, and 200 lb down and 94 lb up at 27-0-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-64, 2-5=-64, 5-7=-64, 7-10=-64, 10-11=-64, 12-20=-20
Concentrated Loads (lb)
Vert: 27=-101, 28=-59, 30=-66, 31=-66, 33=-59, 34=-101



November 18.2024



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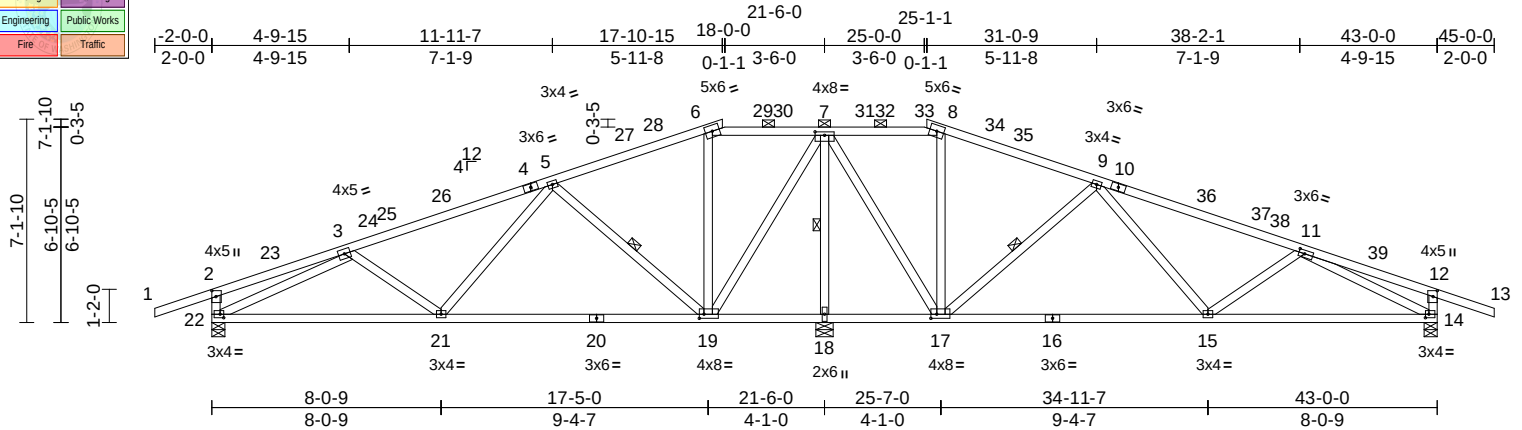
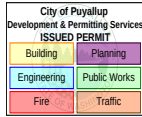
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387444
4319944	A17	California	2	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:11

Page: 1

PRMU20241695



Scale = 1:80.8

Plate Offsets (X, Y): [2:0-2-8,0-1-12], [7:0-4-0,0-1-8], [11:0-2-8,0-1-8], [12:0-2-8,0-1-12], [14:0-1-8,0-1-8], [17:0-2-8,0-1-12], [19:0-2-0,0-1-12], [22:0-1-8,0-1-8]

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	0.92	Vert(LL)	-0.16	19-21	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.33	19-21	>779	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03	14	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 201 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 5-6-12 oc bracing.
WEBS 1 Row at midpt 5-19, 7-18, 9-17

REACTIONS

(size) 14=0-5-8, 18=0-7-4, 22=0-5-8
Max Horiz 22=33 (LC 75)
Max Uplift 14=53 (LC 11), 22=49 (LC 10)
Max Grav 14=968 (LC 39), 18=2765 (LC 35), 22=953 (LC 37)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=-296/148, 3-5=-1123/96, 5-6=-81/337, 6-7=-65/299, 7-8=-94/236, 8-9=-111/277, 9-11=-1159/108, 11-12=-297/148, 12-13=0/77, 2-22=-363/141, 12-14=-363/141
BOT CHORD 21-22=-98/1196, 19-21=-25/703, 18-19=-963/174, 17-18=-963/174, 15-17=-9/740, 14-15=-79/1225
WEBS 3-21=-285/129, 5-21=0/482, 5-19=-1000/172, 6-19=-352/81, 7-19=-112/1368, 7-18=-2716/270, 7-17=-107/1443, 8-17=-419/78, 9-17=-994/173, 9-15=0/482, 11-15=-280/129, 3-22=-1365/170, 11-14=-1396/160

NOTES

- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 2-3-10, Interior (1) 2-3-10 to 17-6-12, Exterior(2R) 17-6-12 to 23-7-12, Interior (1) 23-7-12 to 25-5-4, Exterior(2R) 25-5-4 to 31-6-4, Interior (1) 31-6-4 to 45-0-0 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
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.
- 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 22 and 53 lb uplift at joint 14.
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 64 lb up at 20-0-12, and 129 lb down and 64 lb up at 22-11-4, and 145 lb down and 83 lb up at 25-0-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-64, 2-6=-64, 6-8=-64, 8-12=-64, 12-13=-64, 14-22=-20
Concentrated Loads (lb)
Vert: 30=-62, 31=-62, 33=-46



November 18, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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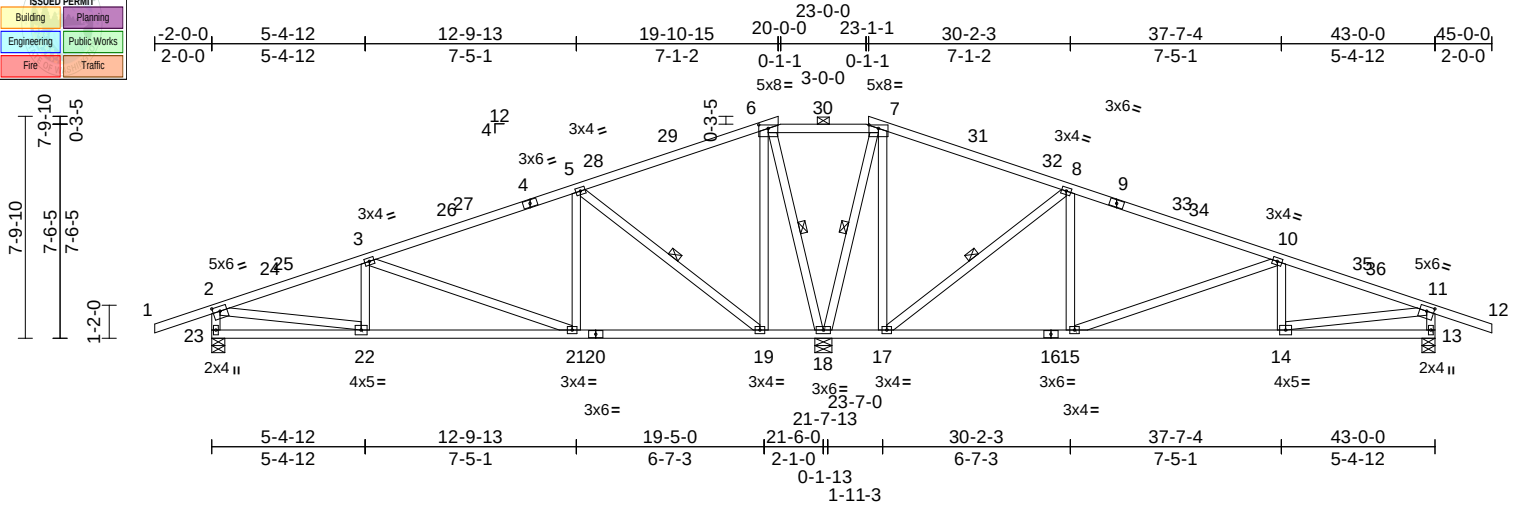
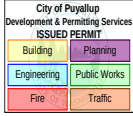
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	A18	California	2	1	R85387445
Job Reference (optional)					

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:11

Page: 1

PRMU20241695



Scale = 1:81

Plate Offsets (X, Y): [2:0-3-0,0-2-0], [6:0-4-0,0-1-8], [7:0-4-0,0-1-8], [11:0-3-0,0-2-0]

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	0.94	Vert(LL)	-0.07	21-22	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.15	14-15	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.02	13	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 209 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 21-22,14-15.
WEBS 1 Row at midpt 5-19, 6-18, 7-18, 8-17

REACTIONS

(size) 13=0-5-8, 18=0-7-4, 23=0-5-8
Max Horiz 23=39 (LC 19)
Max Uplift 13=55 (LC 11), 23=51 (LC 68)
Max Grav 13=867 (LC 39), 18=3032 (LC 35), 23=846 (LC 37)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=-1117/87, 3-5=-569/192, 5-6=0/855, 6-7=0/1085, 7-8=-5/801, 8-10=-625/129, 10-11=-1161/92, 11-12=0/77, 2-23=-799/198, 11-13=-820/192
BOT CHORD 22-23=-165/233, 21-22=-39/1015, 19-21=-147/468, 18-19=-768/185, 17-18=-717/182, 15-17=-88/521, 14-15=-15/1057, 13-14=-165/233
WEBS 5-19=-1224/155, 6-19=-23/797, 6-18=-1390/148, 7-18=-1616/139, 7-17=-23/794, 8-17=-1221/154, 2-22=-68/1013, 11-14=-58/1053, 3-22=-47/189, 3-21=-633/74, 5-21=0/442, 8-15=0/442, 10-15=-622/74, 10-14=-54/188

NOTES

- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 2-3-10, Interior (1) 2-3-10 to 19-9-1, Exterior(2E) 19-9-1 to 23-2-15, Exterior(2R) 23-2-15 to 29-3-15, Interior (1) 29-3-15 to 45-0-0 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
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 23 and 55 lb uplift at joint 13.
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 314 lb down and 115 lb up at 23-2-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-64, 2-6=-64, 6-7=-64, 7-11=-64, 11-12=-64, 13-23=-20
Concentrated Loads (lb)
Vert: 7=-215



November 18, 2024

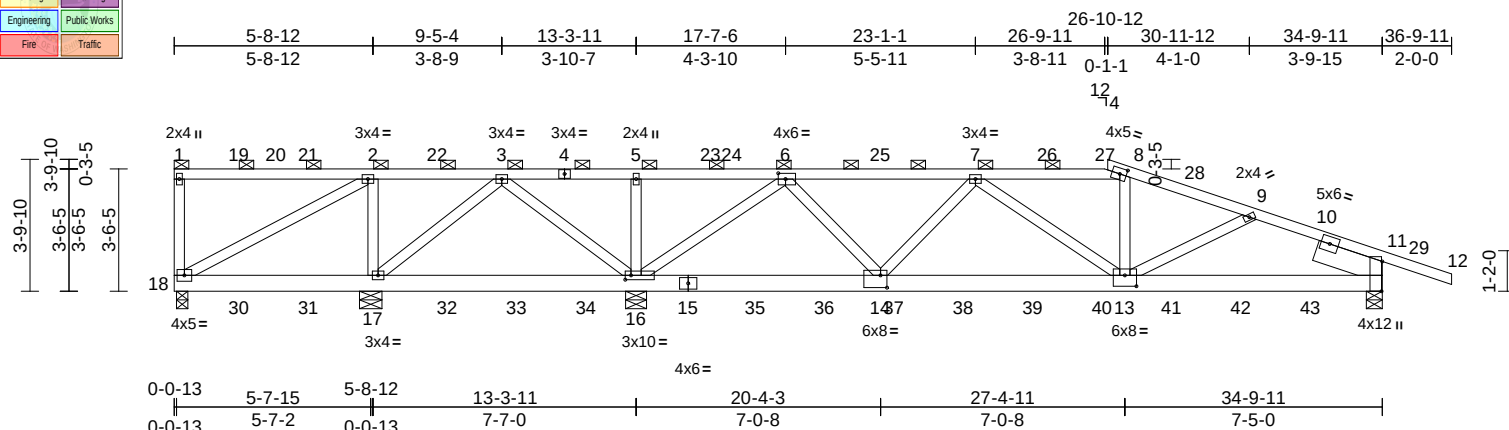
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:12 Page: 1
ID:TrvF5OK1GVWUfcbNSvGvkRylsb9-RfC?PsB70Hq3NSqPanL8w3ulTXbGKWCRDoi7J4zJC?#



Scale = 1:66.4

Plate Offsets (X, Y): [6:0-2-8,0-2-0], [8:0-2-4,0-2-0], [11:0-10-5,Edge], [13:0-4-0,0-3-12], [14:0-2-4,0-4-4], [16:0-2-0,0-1-8]

[illegible]

LUMBER

TOP CHORD 2x4 HF No.2 *Except* 8-12:2x4 DF 1800F

1.6E

BOT CHORD 2x6 DF No.2

WEBS 2x4 HF No. 2

SLIDER Right 2x8 DF SS -- 2-0-8

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-5 max.): 1-8.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
bracing.

REACTIONS	(size)	
		11=0-5-8, 16=0-7-4, 17=0-7-12, 18=0-3-15
	Max Horiz	18=-74 (LC 6)
	Max Uplift	11=-73 (LC 7), 17=-90 (LC 7), 18=-100 (LC 6)
	Max Grav	11=2593 (LC 18), 16=6872 (LC 27), 17=805 (LC 27), 18=276 (LC 41)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-373/121, 1-2=-41/38, 2-3=0/427,
3-5=-79/3202, 5-6=-79/3202, 6-7=-3804/105,
7-8=-4593/144, 8-9=-4822/141,
9-11=-4336/123, 11-12=-13/0
BOT CHORD 17-18=-427/27, 16-17=-1674/75,
14-16=-15/1295, 13-14=-96/4358,
11-13=-72/3770

WEBS 2-17=-924/203, 3-17=-67/1674,
3-16=-2008/82, 5-16=-367/55, 8-13=0/1038,
9-13=-26/1207, 2-18=-3/521,
6-16=-5573/177, 6-14=-62/3826,
7-14=-844/73, 7-13=-23/702

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCELL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 5) Unbalanced snow loads have been considered for this design.
- 6) 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.
- 7) Provide adequate drainage to prevent water ponding.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 18, 90 lb uplift at joint 17 and 73 lb uplift at joint 11.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 18.2024

Continued on page 2



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 and DSB-22** available from Truss Plate Institute (www.tpinstitute.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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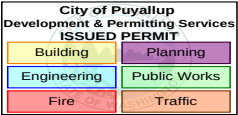
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	A19	Roof Special Girder	1	2	R85387446
					Job Reference (optional)

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 308 lb down and 143 lb up at 1-10-7, 131 lb down and 54 lb up at 3-10-7, and 248 lb down and 68 lb up at 5-10-7, and 91 lb down and 50 lb up at 26-10-0 on top chord, and 5 lb down at 1-10-7, 32 lb down at 3-10-7, 570 lb down and 34 lb up at 7-10-7, 530 lb down and 12 lb up at 9-10-7, 530 lb down at 11-10-7, 530 lb down at 14-8-15, 530 lb down and 12 lb up at 16-8-15, 538 lb down and 19 lb up at 18-8-15, 593 lb down and 25 lb up at 20-8-15, 671 lb down and 31 lb up at 22-8-15, 752 lb down and 36 lb up at 24-8-15, 418 lb down and 14 lb up at 26-8-15, 579 lb down and 55 lb up at 28-8-15, and 95 lb down at 30-8-15, and 94 lb down at 32-8-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-8=-64, 8-12=-64, 11-18=-20
- Concentrated Loads (lb)
- Vert: 15=-530 (F), 2=-178, 19=-141, 21=-61, 31=-16 (F), 32=-570 (F), 33=-530 (F), 34=-530 (F), 35=-530 (F), 36=-538 (F), 37=-593 (F), 38=-671 (F), 39=-752 (F), 40=-418 (F), 41=-579 (F), 42=-47 (F), 43=-88 (F)

PRMU20241695



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

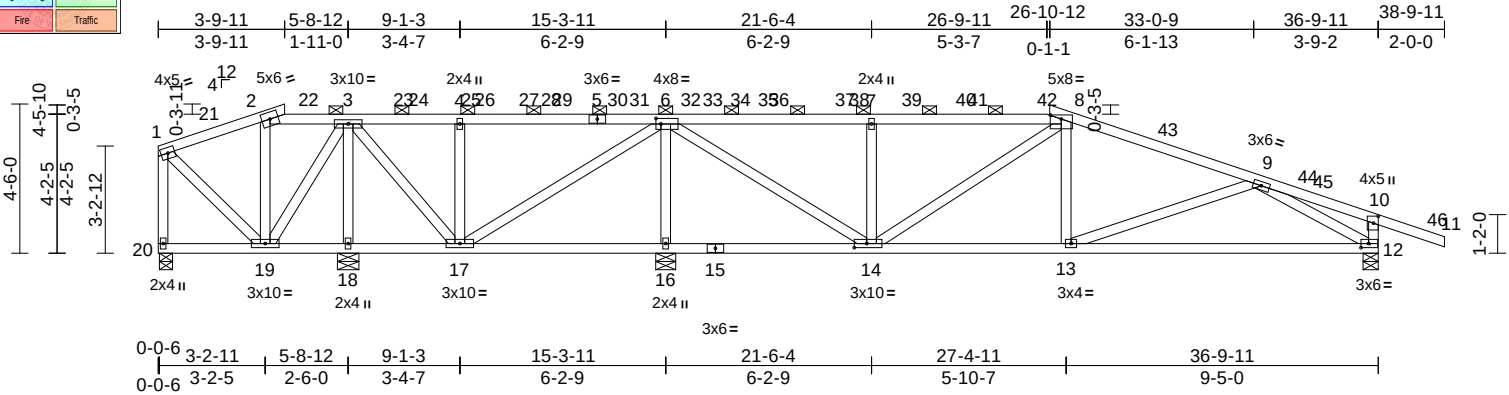
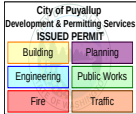
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387447
4319944	A20	California	1	1	Job Reference (optional)	

PRMU20241695



Scale = 1:69.5

Plate Offsets (X, Y): [6:0-1-12,0-2-0], [8:0-4-0,0-1-8], [10:0-2-8,0-1-12], [12:0-2-12,0-1-8], [14:0-4-8,0-1-8]

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	0.86	Vert(LL)	-0.21	12-13	>999	240	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.43	12-13	>600	180	
TCDL	7.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	12	n/a	n/a	
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 170 lb FT = 10%											

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-2 max.): 2-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 12=0-5-8, 16=0-7-4, 18=0-7-12, 20=0-4-12
Max Horiz 20=72 (LC 12)
Max Uplift 12=69 (LC 11), 16=119 (LC 11), 18=54 (LC 11), 20=14 (LC 101)
Max Grav 12=1126 (LC 39), 16=1800 (LC 34), 18=866 (LC 34), 20=316 (LC 50)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-111/50, 2-3=-111/62, 3-4=-123/102, 4-6=-123/102, 6-7=-768/156, 7-8=-768/156, 8-9=-1136/182, 9-10=-275/96, 10-11=0/77, 1-20=-287/72, 10-12=-371/121
BOT CHORD 19-20=-69/129, 18-19=-145/114, 17-18=-145/114, 16-17=-504/136, 14-16=-504/136, 13-14=-74/995, 12-13=-168/1192
WEBS 2-19=-293/77, 8-13=0/313, 1-19=-40/132, 4-17=-427/136, 3-17=-60/337, 6-16=-1653/284, 7-14=-563/147, 9-13=-304/182, 9-12=-1418/308, 8-14=-564/61, 6-17=-72/606, 6-14=-198/1491, 3-18=-800/121, 3-19=-46/300

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 6-4-1 to 9-6-12, Exterior(2R) 9-6-12 to 15-7-12, Interior (1) 15-7-12 to 33-5-4, Exterior(2R) 33-5-4 to 39-5-11, Interior (1) 39-5-11 to 45-0-0 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.

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) Provide adequate drainage to prevent water ponding.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 20, 69 lb uplift at joint 12, 119 lb uplift at joint 16 and 54 lb uplift at joint 18.

10) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 294 lb down and 104 lb up at 12-0-12, 63 lb down and 53 lb up at 14-0-12, 10 lb down and 186 lb up at 16-0-12, 38 lb down and 83 lb up at 18-0-12, 38 lb down and 88 lb up at 20-0-12, 38 lb down and 88 lb up at 22-11-4, 38 lb down and 83 lb up at 24-11-4, 38 lb down and 78 lb up at 26-11-4, 40 lb down and 73 lb up at 28-11-4, and 38 lb down and 65 lb up at 30-11-4, and 108 lb down and 221 lb up at 33-0-4 on top chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-64, 2-8=-64, 8-10=-64, 10-11=-64, 12-20=-20
Concentrated Loads (lb)



November 18,2024

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387447
4319944	A20	California	1	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:12
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Page: 2

Vert: 3=-224, 26=30

PRMU20241695

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

Planning

Engineering

Public Works

Fire

Traffic

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387448
4319944	A21	California	1	1	Job Reference (optional)	

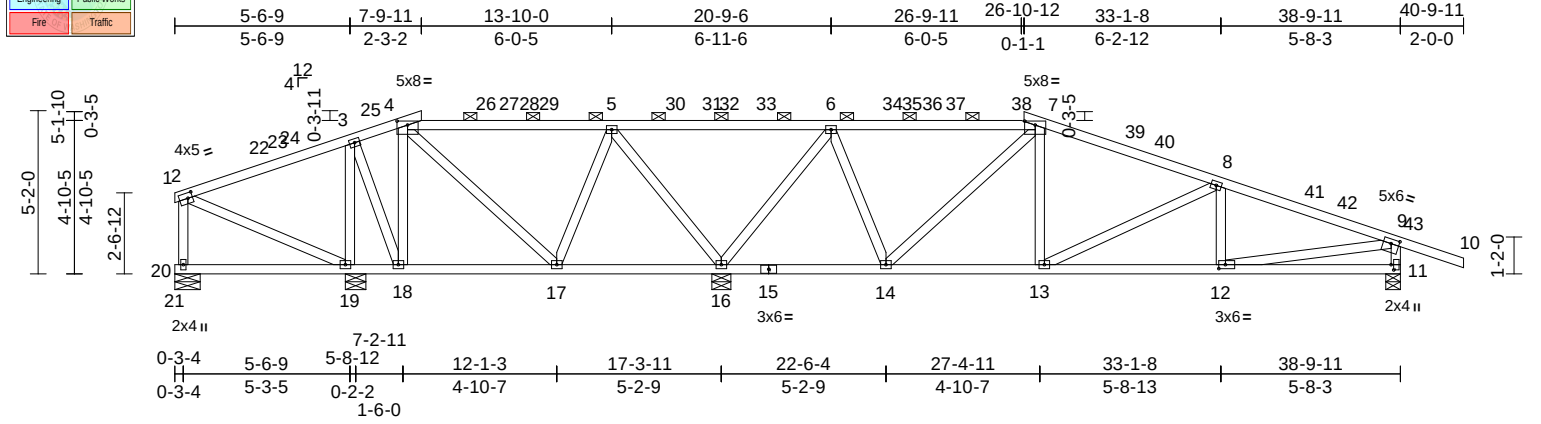
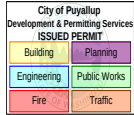
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PRMU20241695



Scale = 1:73									
Plate Offsets (X, Y): [2:0-1-12,0-2-0], [4:0-4-0,0-1-8], [7:0-4-0,0-1-8], [9:0-3-0,0-1-12], [11:0-2-0,0-1-0], [12:0-2-8,0-1-8]									
Loading		(psf)	Spacing		2-0-0	CSI		DEFL	
TCLL	25.0		Plate Grip DOL	1.15		TC	0.79	Vert(LL)	-0.07 12-13 >999 240
(Roof Snow = 25.0)			Lumber DOL	1.15		BC	0.36	Vert(CT)	-0.11 12-13 >999 180
TCDL	7.0		Rep Stress Incr	YES		WB	0.99	Horz(CT)	0.02 11 n/a n/a
BCLL	0.0*		Code	IBC2021/TPI2014		Matrix-SH			
BCDL	10.0								
									Weight: 183 lb FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2 *Except* 4-7:2x4 DF 1800F 1.6E

BOT CHORD 2x4 HF No.2

WEBS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 11=0-5-8, 16=0-7-4, 19=0-7-12, 20=0-9-10

Max Horiz 20=49 (LC 10)

Max Uplift 11=47 (LC 11), 16=39 (LC 11), 19=15 (LC 10), 20=14 (LC 76)

Max Grav 11=1106 (LC 39), 16=2244 (LC 35), 19=770 (LC 37), 20=343 (LC 50)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/93, 2-3=40/147, 3-4=104/77, 4-5=36/194, 5-6=32/984, 6-7=239/77, 7-8=960/124, 8-9=1512/138, 9-10=0/77, 2-20=288/84, 9-11=1049/217

BOT CHORD 20-21=0/0, 19-20=30/88, 18-19=92/82, 17-18=49/107, 16-17=304/91, 14-16=90/122, 13-14=0/826, 12-13=57/1360, 11-12=145/267

WEBS 2-19=154/37, 4-18=336/71, 4-17=281/47, 5-17=0/318, 5-16=1183/148, 6-16=1554/174, 6-14=3726, 7-14=843/90, 7-13=0/362, 8-13=580/95, 8-12=93/139, 9-12=96/1244, 3-19=634/113, 3-18=45/409

NOTES

- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 4-2-5 to 8-0-14, Interior (1) 8-0-14 to 11-6-12, Exterior(2R) 11-6-12 to 15-5-5, Interior (1) 15-5-5 to 31-5-4, Exterior(2R) 31-5-4 to 35-3-13, Interior (1) 35-3-13 to 45-0-0 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
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 19, 39 lb uplift at joint 16, 14 lb uplift at joint 20 and 47 lb uplift at joint 11.
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 294 lb down and 104 lb up at 14-0-12, 63 lb down and 53 lb up at 16-0-12, 122 lb down and 68 lb up at 18-0-12, 88 lb down and 68 lb up at 20-0-12, 88 lb down and 68 lb up at 22-11-4, 122 lb down and 68 lb up at 24-11-4, 132 lb down and 68 lb up at 26-11-4, and 125 lb down and 64 lb up at 28-11-4, and 104 lb down and 94 lb up at 31-0-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-64, 2-4=-64, 4-7=-64, 7-9=-64, 9-10=-64, 11-21=-20

Concentrated Loads (lb)

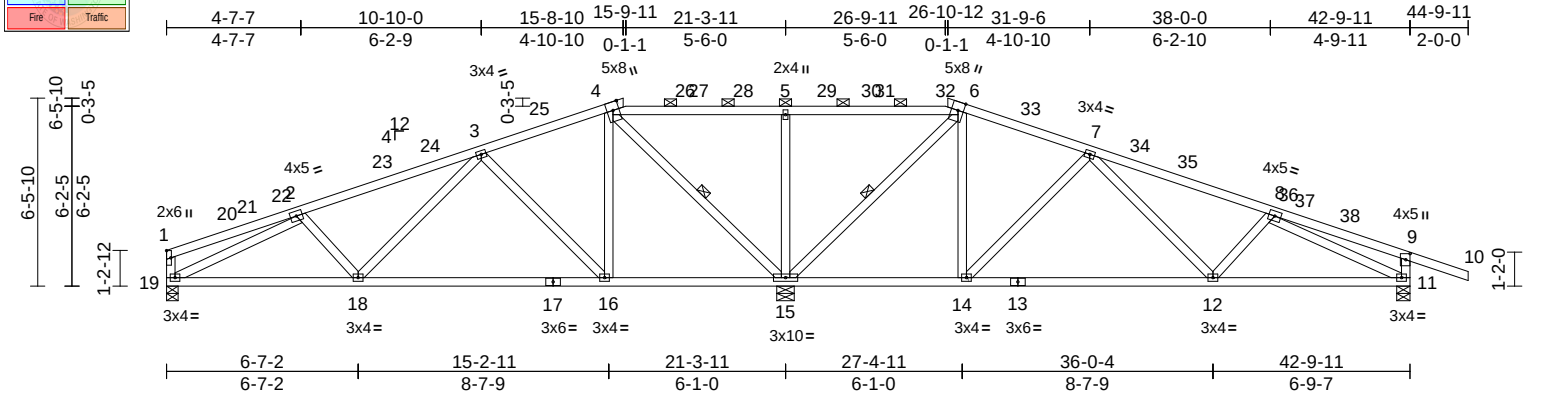
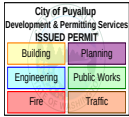
Vert: 5=-52, 6=-52, 26=-224, 30=-18, 33=-18, 34=-62, 37=-59, 38=-5



November 18,2024

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387450
4319944	A23	California	1	1	Job Reference (optional)	

PRMU20241695



Scale = 1:79.3									
Plate Offsets (X, Y): [1:Edge,0-1-12], [6:0-3-8,Edge], [9:0-2-8,0-1-12]									
Loading		(psf)	Spacing		2-0-0	CSI		DEFL	
TCLL		25.0	Plate Grip DOL		1.15	TC		in (loc)	
(Roof Snow = 25.0)			Lumber DOL		1.15	BC		l/defl	
TCDL		7.0	Rep Stress Incr		YES	WB		L/d	
BCLL		0.0*	Code		IBC2021/TPI2014	Matrix-SH		MT20	
BCDL		10.0						GRIP	
								185/148	
								Weight: 192 lb FT = 10%	

LUMBER		1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-1 to 4-8-7, Interior (1) 4-8-7 to 15-6-12, Exterior(2R) 15-6-12 to 21-6-0, Interior (1) 21-6-0 to 27-5-4, Exterior(2R) 27-5-4 to 33-5-14, Interior (1) 33-5-14 to 45-0-0 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		12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.	
TOP CHORD	2x4 HF No.2				
BOT CHORD	2x4 HF No.2				
WEBS	2x4 HF No.2				
BRACING				13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 64 lb up at 18-0-12, 136 lb down and 68 lb up at 20-0-12, 136 lb down and 68 lb up at 22-11-4, and 125 lb down and 64 lb up at 24-11-4, and 200 lb down and 94 lb up at 27-0-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.	
TOP CHORD	Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-6.				
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.				
WEBS	1 Row at midpt 6-15, 4-15				
REACTIONS				LOAD CASE(S) Standard	
(size)	11=0-5-8, 15=0-7-4, 19=0-4-12	2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.		1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Max Horiz	19=-34 (LC 19)	3) Unbalanced snow loads have been considered for this design.		Uniform Loads (lb/ft)	
Max Uplift	11=-52 (LC 11), 19=-1 (LC 74)	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.		Vert: 1-4=-64, 4-6=-64, 6-9=-64, 9-10=-64, 11-19=-20	
Max Grav	11=979 (LC 39), 15=2941 (LC 35), 19=810 (LC 37)	5) Provide adequate drainage to prevent water ponding.		Concentrated Loads (lb)	
FORCES		6) All plates are 3x4 MT20 unless otherwise indicated.		Vert: 26=-59, 28=-66, 29=-66, 31=-59, 32=-101	
(lb) - Maximum Compression/Maximum Tension		7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.			
TOP CHORD	1-2=-200/36, 2-3=-1183/117, 3-4=-204/246, 4-5=-16/1175, 5-6=-16/1175, 6-7=-301/113, 7-8=-1237/107, 8-9=-286/160, 9-10=0/77, 1-19=-328/58, 9-11=-362/151	8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.			
BOT CHORD	18-19=-82/1204, 16-18=-24/704, 15-16=-228/145, 14-15=-113/203, 12-14=-2/779, 11-12=-51/1237	9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.			
WEBS	4-16=-19/752, 6-14=-21/736, 5-15=-674/156, 6-15=-1659/130, 2-18=-263/134, 7-14=-811/160, 7-12=0/475, 8-12=-241/112, 2-19=-1290/124, 3-18=-1/495, 3-16=-832/157, 8-11=-1393/116, 4-15=-1524/133	10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 11 and 1 lb uplift at joint 19.			
NOTES		11) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.			



November 18,2024

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387451
4319944	B01	Common Supported Gable	6	1	Job Reference (optional)	

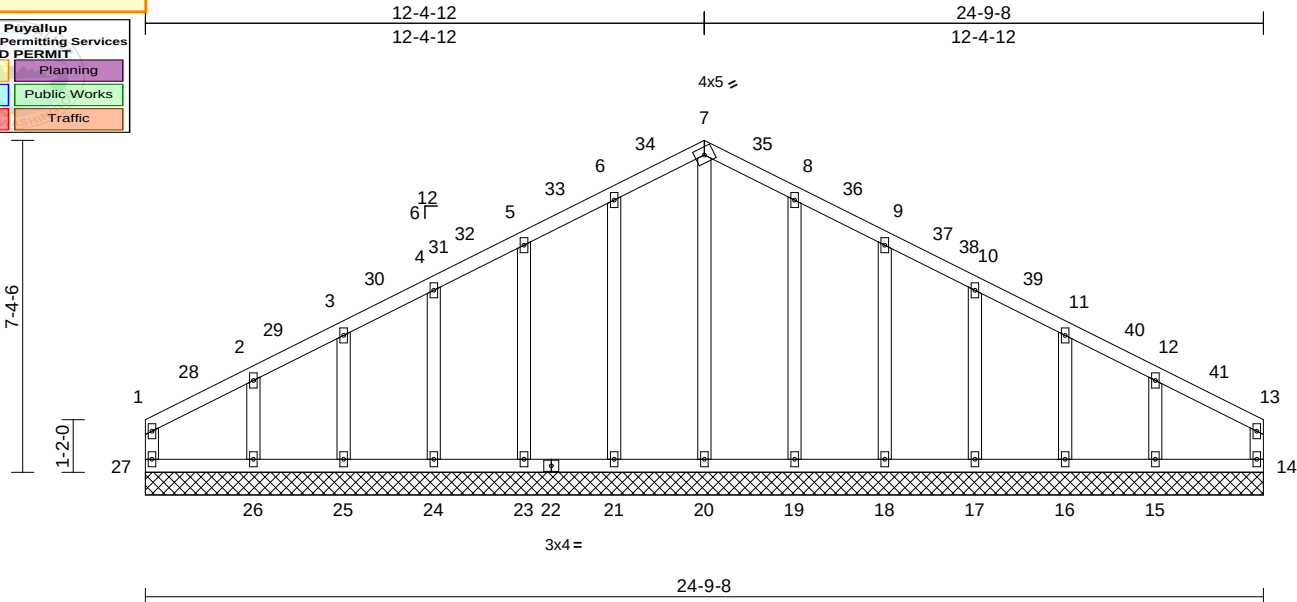
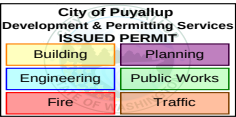
Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:14

Page: 1

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PRMU20241695



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	0.24	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.27	Horiz(TL)	0.00	14	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-R							
BCDL	10.0										
Weight: 116 lb FT = 10%											

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
OTHERS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)
14=24-9-8, 15=24-9-8, 16=24-9-8, 17=24-9-8, 18=24-9-8, 19=24-9-8, 20=24-9-8, 21=24-9-8, 23=24-9-8, 24=24-9-8, 25=24-9-8, 26=24-9-8, 27=24-9-8
Max Horiz 27=69 (LC 13)
Max Uplift 14=8 (LC 14), 15=29 (LC 15), 16=4 (LC 15), 17=11 (LC 15), 18=10 (LC 15), 19=8 (LC 15), 21=8 (LC 14), 23=10 (LC 14), 24=11 (LC 14), 25=3 (LC 14), 26=31 (LC 14), 27=14 (LC 10)
Max Grav 14=326 (LC 42), 15=365 (LC 53), 16=346 (LC 52), 17=347 (LC 51), 18=343 (LC 50), 19=344 (LC 49), 20=330 (LC 48), 21=344 (LC 47), 23=343 (LC 46), 24=347 (LC 45), 25=346 (LC 44), 26=365 (LC 43), 27=326 (LC 29)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-27=-306/37, 1-2=-91/53, 2-3=-92/67, 3-4=-79/101, 4-5=-78/136, 5-6=-86/173, 6-7=-104/207, 7-8=-104/207, 8-9=-86/173, 9-10=-78/136, 10-11=-79/101, 11-12=-92/67, 12-13=-91/53, 13-14=-306/34

BOT CHORD 26-27=-28/39, 25-26=-28/39, 24-25=-28/39, 23-24=-28/39, 21-23=-28/39, 20-21=-28/39, 19-20=-28/39, 18-19=-28/39, 17-18=-28/39, 16-17=-28/39, 15-16=-28/39, 14-15=-28/39
WEBS 7-20=-290/40, 6-21=-304/59, 5-23=-303/65, 4-24=-306/64, 3-25=-308/59, 2-26=-318/113, 8-19=-304/59, 9-18=-303/65, 10-17=-306/64, 11-16=-308/59, 12-15=-318/114

- NOTES**
- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCCL=4.2psf; BCCL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 12-4-12, Corner(3R) 12-4-12 to 15-4-12, Exterior(2N) 15-4-12 to 24-7-12 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
 - 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.
 - TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 27, 8 lb uplift at joint 14, 8 lb uplift at joint 21, 10 lb uplift at joint 23, 11 lb uplift at joint 24, 3 lb uplift at joint 25, 31 lb uplift at joint 26, 8 lb uplift at joint 19, 10 lb uplift at joint 18, 11 lb uplift at joint 17, 4 lb uplift at joint 16 and 29 lb uplift at joint 15.
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18, 2024

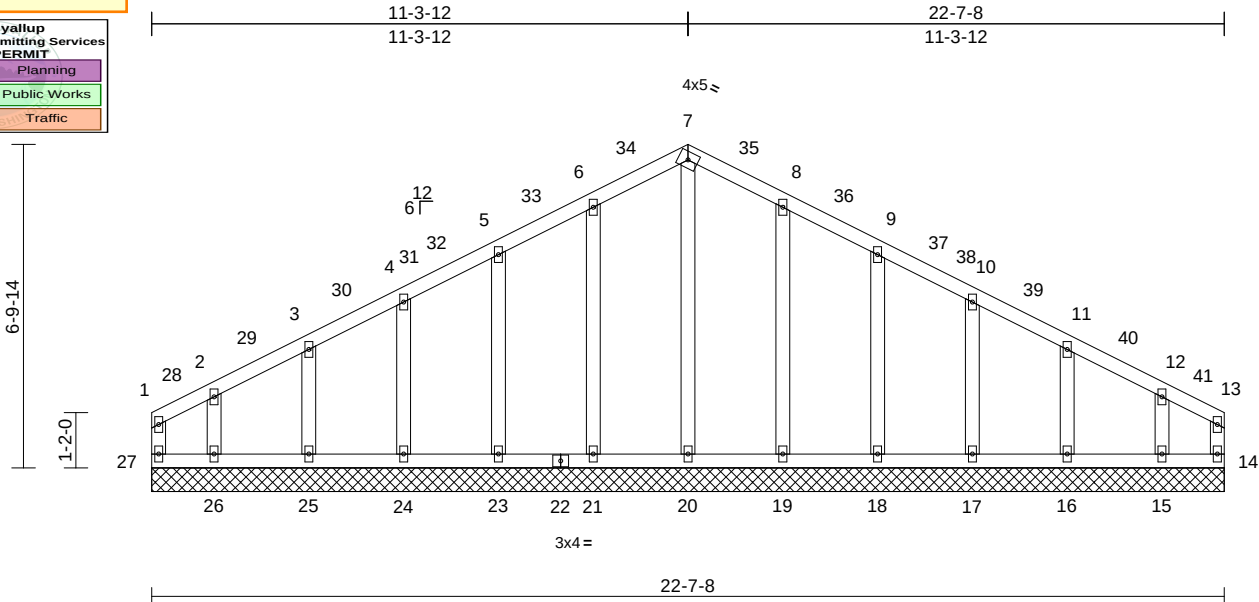
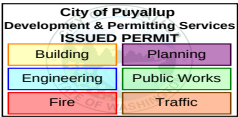
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387452
4319944	C01	Common Supported Gable	1	1	Job Reference (optional)	

PRMU20241695



Scale = 1:48.6

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	0.21	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.00	14	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-R							
BCDL	10.0										
Weight: 103 lb FT = 10%											

LUMBER	
TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2
OTHERS	2x4 HF No.2

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

REACTIONS (size)	
14=22-7-8, 15=22-7-8, 16=22-7-8, 17=22-7-8, 18=22-7-8, 19=22-7-8, 20=22-7-8, 21=22-7-8, 23=22-7-8, 24=22-7-8, 25=22-7-8, 26=22-7-8, 27=22-7-8	
Max Horiz	27=65 (LC 10)
Max Uplift	14=36 (LC 40), 15=35 (LC 15), 16=6 (LC 15), 17=10 (LC 15), 18=10 (LC 15), 19=9 (LC 15), 21=9 (LC 14), 23=10 (LC 14), 24=10 (LC 14), 25=6 (LC 14), 26=38 (LC 14), 27=36 (LC 31)
Max Grav	14=301 (LC 42), 15=341 (LC 53), 16=352 (LC 52), 17=347 (LC 51), 18=345 (LC 50), 19=346 (LC 49), 20=333 (LC 48), 21=346 (LC 47), 23=345 (LC 46), 24=347 (LC 45), 25=352 (LC 44), 26=341 (LC 43), 27=301 (LC 29)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-27=-293/46, 1-2=-73/64, 2-3=-72/70, 3-4=-74/76, 4-5=-73/110, 5-6=-72/147, 6-7=-86/181, 7-8=-86/181, 8-9=-72/147, 9-10=-73/110, 10-11=-74/75, 11-12=-72/70, 12-13=-73/64, 13-14=-293/46

BOT CHORD	
26-27=-29/37, 25-26=-29/37, 24-25=-29/37, 23-24=-29/37, 21-23=-29/37, 20-21=-29/37, 19-20=-29/37, 18-19=-29/37, 17-18=-29/37, 16-17=-29/37, 15-16=-29/37, 14-15=-29/37	
WEBS	
7-20=-293/26, 6-21=-306/60, 5-23=-304/66, 4-24=-307/62, 3-25=-311/82, 2-26=-305/97, 8-19=-306/60, 9-18=-304/65, 10-17=-307/62, 11-16=-311/82, 12-15=-305/98	

- NOTES**
- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-1-12 to 3-3-12, Exterior(2N) 3-3-12 to 11-3-12, Corner(3R) 11-3-12 to 14-3-12, Exterior(2N) 14-3-12 to 22-5-12 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
 - 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.
 - TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 27, 36 lb uplift at joint 14, 9 lb uplift at joint 21, 10 lb uplift at joint 23, 10 lb uplift at joint 24, 6 lb uplift at joint 25, 38 lb uplift at joint 26, 9 lb uplift at joint 19, 10 lb uplift at joint 18, 10 lb uplift at joint 17, 6 lb uplift at joint 16 and 35 lb uplift at joint 15.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- LOAD CASE(S)** Standard



November 18, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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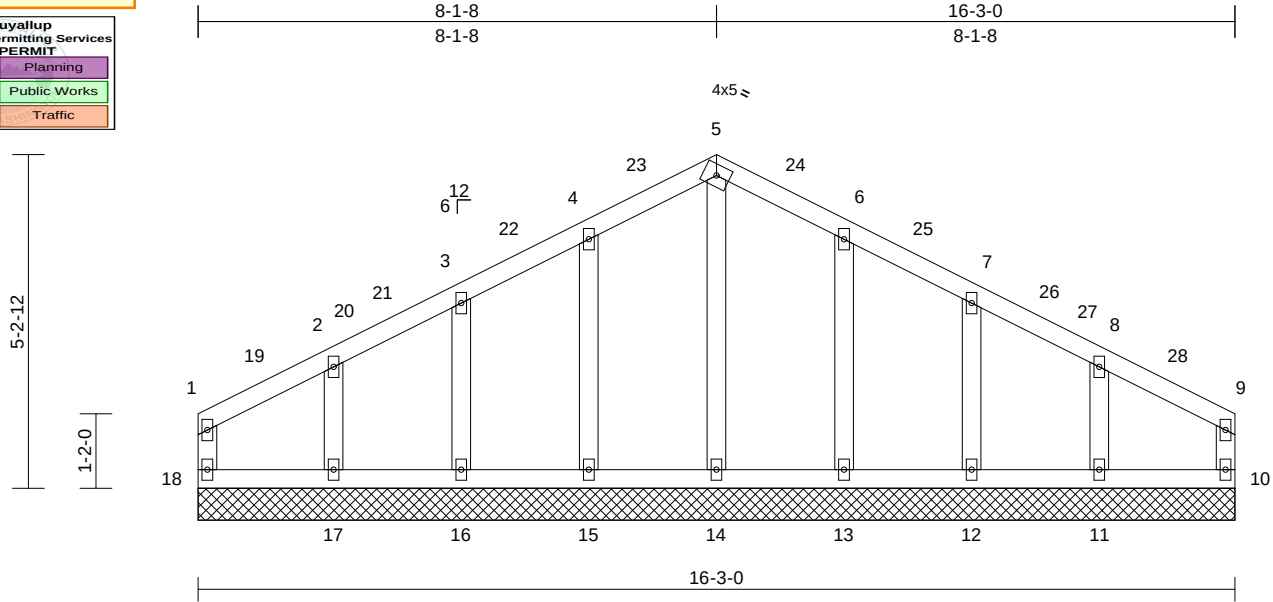
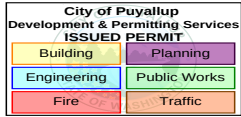
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387453
4319944	D01	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:14

Page: 1

PRMU20241695



Scale = 1:36.1

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	0.21	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	10	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-R							
BCDL	10.0										
										Weight: 66 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
OTHERS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 10=16-3-0, 11=16-3-0, 12=16-3-0, 13=16-3-0, 14=16-3-0, 15=16-3-0, 16=16-3-0, 17=16-3-0, 18=16-3-0
Max Horiz 18=52 (LC 11)
Max Uplift 10=-6 (LC 14), 11=-21 (LC 15), 12=-7 (LC 15), 13=-11 (LC 15), 15=-11 (LC 14), 16=-7 (LC 14), 17=-22 (LC 14), 18=-10 (LC 10)
Max Grav 10=320 (LC 38), 11=358 (LC 45), 12=348 (LC 44), 13=350 (LC 43), 14=336 (LC 42), 15=350 (LC 41), 16=348 (LC 40), 17=358 (LC 39), 18=320 (LC 29)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-303/38, 1-2=-88/55, 2-3=-71/73, 3-4=-77/116, 4-5=-86/158, 5-6=-86/158, 6-7=-77/116, 7-8=-71/74, 8-9=-88/55, 9-10=-303/36
BOT CHORD 17-18=-23/29, 16-17=-23/29, 15-16=-23/29, 14-15=-23/29, 13-14=-23/29, 12-13=-23/29, 11-12=-23/29, 10-11=-23/29
WEBS 5-14=-296/11, 4-15=-309/79, 3-16=-308/79, 2-17=-315/104, 6-13=-309/78, 7-12=-308/78, 8-11=-315/105

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 8-1-8, Corner(3R) 8-1-8 to 11-1-8, Exterior(2N) 11-1-8 to 16-1-4 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 18, 6 lb uplift at joint 10, 11 lb uplift at joint 15, 7 lb uplift at joint 16, 22 lb uplift at joint 17, 11 lb uplift at joint 13, 7 lb uplift at joint 12 and 21 lb uplift at joint 11.

- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387454
4319944	E01	Common	5	1	Job Reference (optional)	

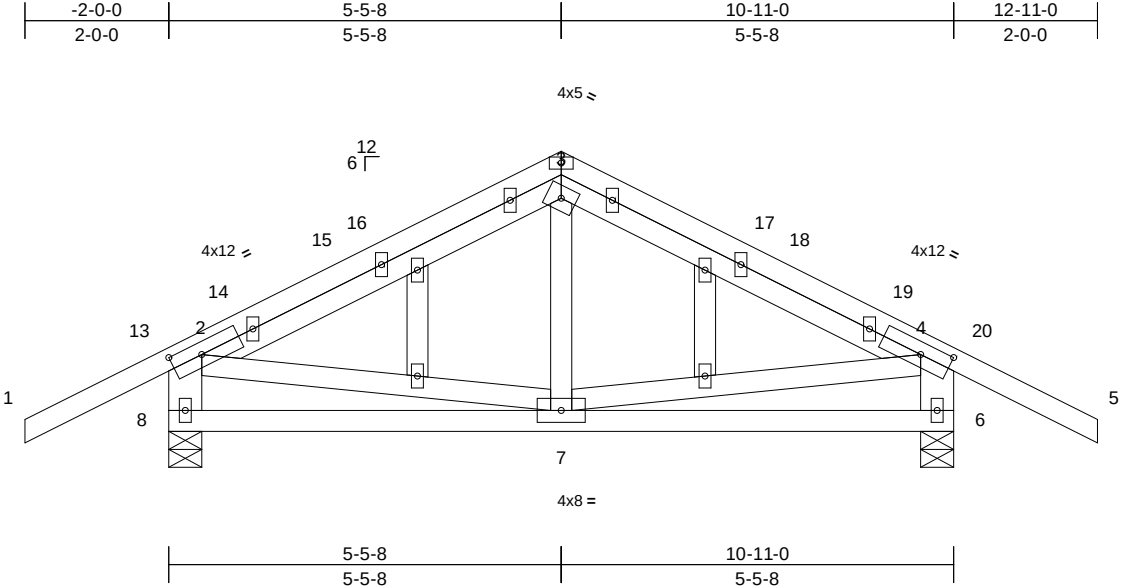
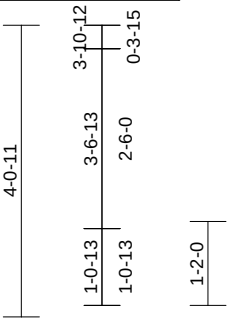
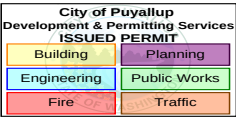
Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

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Page: 1

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PRMU20241695



Scale = 1:32

Plate Offsets (X, Y): [2:0-5-2,0-2-0], [4:0-5-2,0-2-0]

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	0.63	Vert(LL)	-0.02	6-7	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	6-7	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 67 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 8-2,6-4:2x6 DF No.2
OTHERS 2x4 HF No.2

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

REACTIONS (size) 6=0-5-8, 8=0-5-8
Max Horiz 8=-47 (LC 12)
Max Uplift 6=-2 (LC 15), 8=-2 (LC 14)
Max Grav 6=708 (LC 22), 8=708 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/111, 2-3=-523/103, 3-4=-523/104, 4-5=0/111, 2-8=-705/214, 4-6=-705/214
BOT CHORD 7-8=-174/351, 6-7=-174/351
WEBS 3-7=0/177, 2-7=-64/287, 4-7=-64/287

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-5-8, Exterior(2R) 5-5-8 to 8-5-8, Interior (1) 8-5-8 to 12-11-0 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 18.0 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 8 and 2 lb uplift at joint 6.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) No notches allowed in overhang and 20000 from left end and 20000 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.
- LOAD CASE(S)** Standard



November 18,2024

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387455
4319944	E02	Common	1	1	Job Reference (optional)	

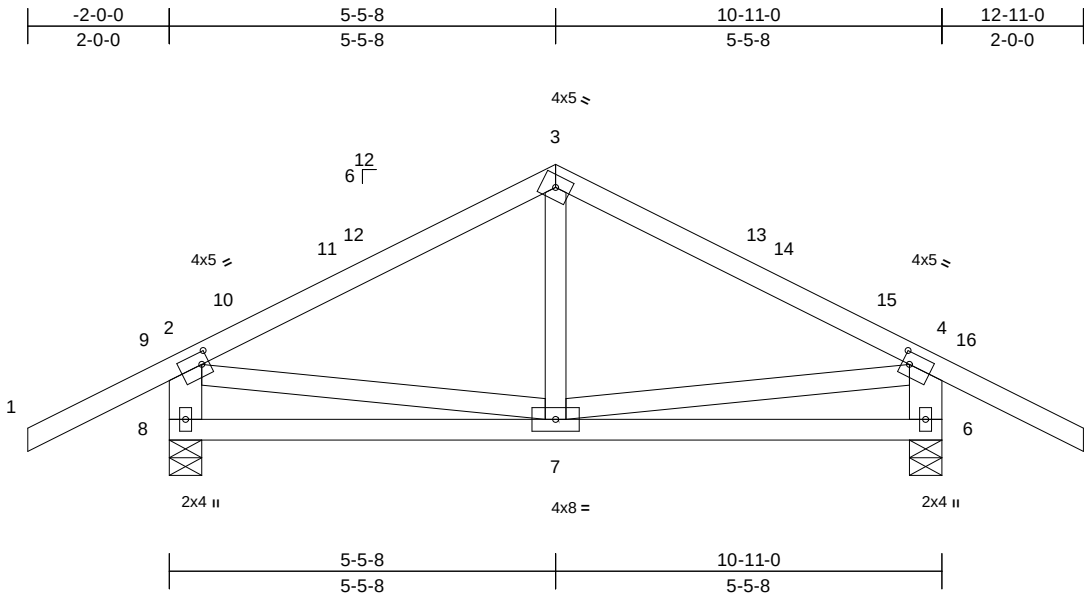
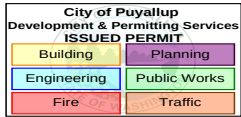
Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

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PRMU20241695



Scale = 1:32.6									
Plate Offsets (X, Y): [2:0-1-4,0-2-0], [4:0-1-4,0-2-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.02	6-7	>999
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.03	6-7	>999
TCDL	7.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH					
BCDL	10.0								
							Weight: 51 lb		
							FT = 10%		

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 8-2,6-4:2x6 DF No.2

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

REACTIONS (size) 6=0-5-8, 8=0-5-8
Max Horiz 8=-51 (LC 12)
Max Uplift 6=-4 (LC 15), 8=-4 (LC 14)
Max Grav 6=708 (LC 22), 8=708 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/114, 2-3=-506/103, 3-4=-506/103, 4-5=0/114, 2-8=-660/228, 4-6=-660/228
BOT CHORD 7-8=-195/274, 6-7=-195/274
WEBS 3-7=-2/169, 2-7=-36/313, 4-7=-38/313

- 4) This truss has been designed for greater of min roof live load of 18.0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 8 and 4 lb uplift at joint 6.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-5-8, Exterior(2R) 5-5-8 to 8-5-8, Interior (1) 8-5-8 to 12-11-0 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.



November 18,2024

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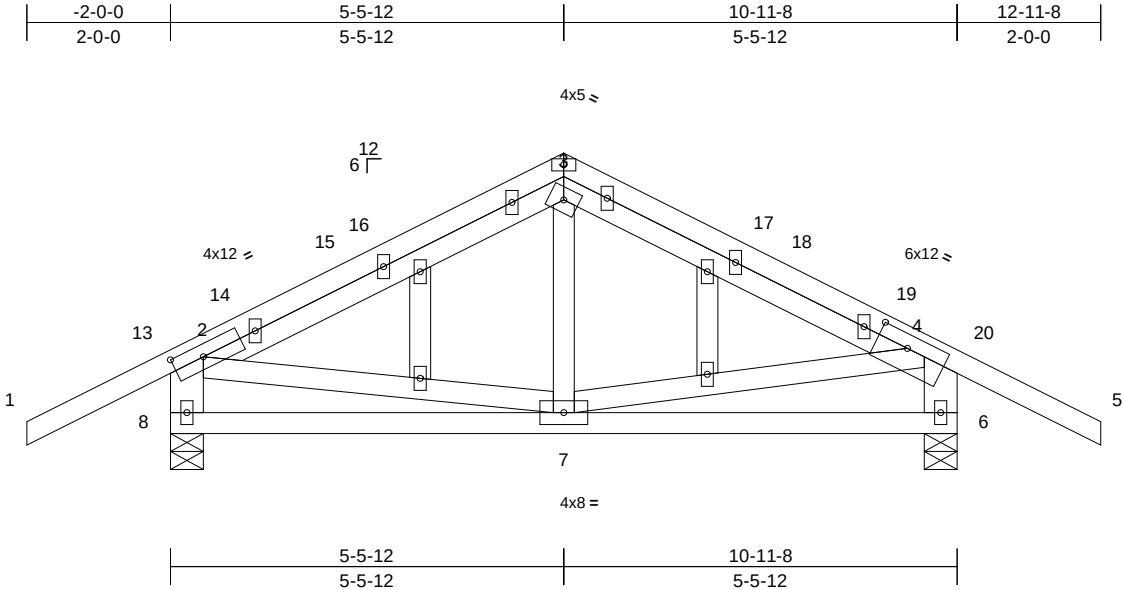
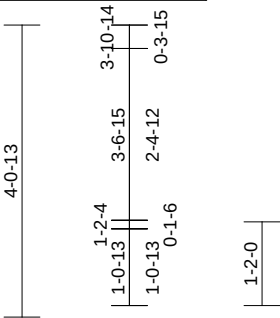
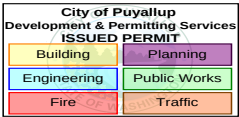
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387456
4319944	F01	Common	2	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

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PRMU20241695



Scale = 1:32.1

Plate Offsets (X, Y): [2:0-5-2,0-2-0], [4:0-5-4,0-2-4]

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	0.69	Vert(LL)	-0.02	6-7	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.04	6-7	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 67 lb	FT = 10%

LUMBER

TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2 *Except* 8-2,6-4:2x6 DF No.2
OTHERS	2x4 HF No.2

BRACING

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

REACTIONS

(size)	6=0-5-8, 8=0-5-8
Max Horiz	8=48 (LC 13)
Max Uplift	6=-1 (LC 15), 8=-2 (LC 14)
Max Grav	6=709 (LC 22), 8=709 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/111, 2-3=-526/104, 3-4=-522/104, 4-5=0/116, 2-8=-707/214, 4-6=-722/208
BOT CHORD	7-8=-173/353, 6-7=-148/363
WEBS	3-7=0/179, 2-7=-64/287, 4-7=-73/267

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-5-12, Exterior(2R) 5-5-12 to 8-5-12, Interior (1) 8-5-12 to 12-11-8 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 18.0 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2'-0-0 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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 8 and 1 lb uplift at joint 6.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) No notches allowed in overhang and 20000 from left end and 20000 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2'-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard



November 18,2024

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	J01	Jack-Open	3	1	
					Job Reference (optional)

R85387457

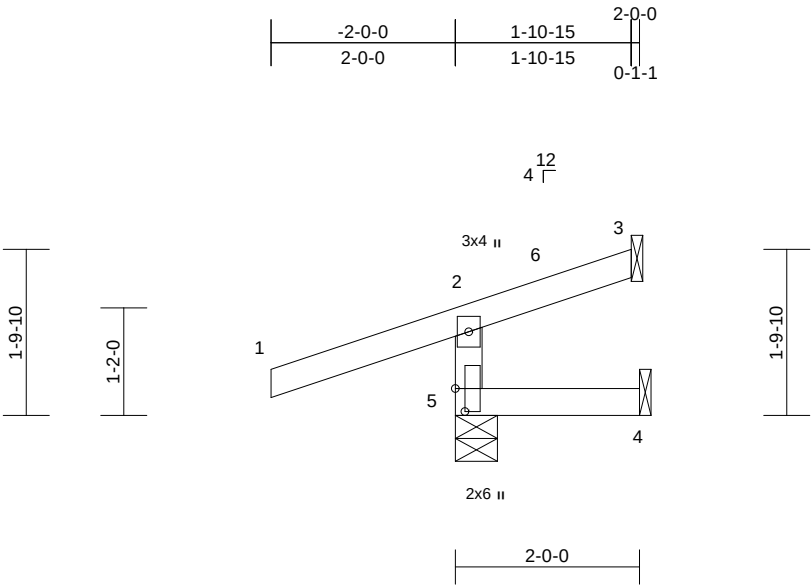
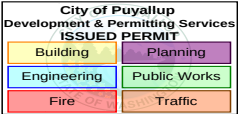
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PRMU20241695



Scale = 1:25

Plate Offsets (X, Y): [5:0-3-0,0-1-4]

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	0.53	Vert(LL)	0.00	4-5	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.15	Vert(CT)	0.00	4-5	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-R								
BCDL	10.0										Weight: 8 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 3= Mechanical, 4= Mechanical, 5=0-5-8
Max Horiz 5=28 (LC 11)
Max Uplift 3=-94 (LC 20), 4=-23 (LC 20), 5=-60 (LC 10)
Max Grav 3=290 (LC 32), 4=30 (LC 5), 5=423 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-367/227, 1-2=0/77, 2-3=-60/39
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 1-10-13 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 5, 23 lb uplift at joint 4 and 94 lb uplift at joint 3.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

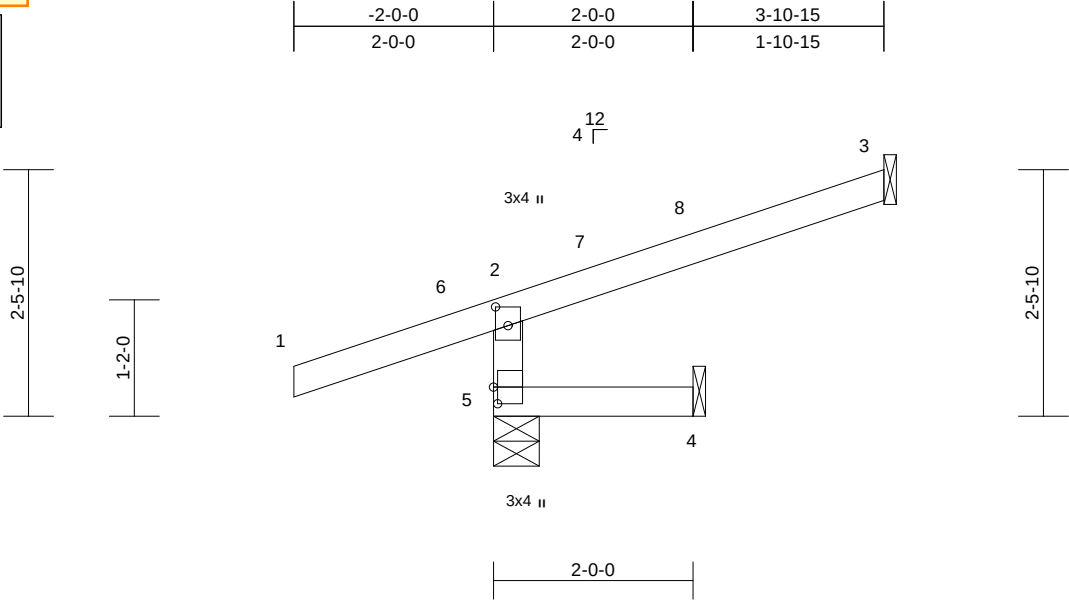
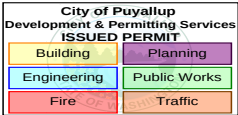
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387458
4319944	J02	Jack-Open	3	1	Job Reference (optional)	

PRMU20241695



Scale = 1:23.1

Plate Offsets (X, Y): [2:0-2-4,0-1-8], [5:0-2-0,0-0-8]

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	0.48	Vert(LL)	0.01	4-5	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.01	4-5	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-R								
BCDL	10.0											
Weight: 10 lb											FT = 10%	

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 3= Mechanical, 4= Mechanical,
5=0-5-8
Max Horiz 5=38 (LC 10)
Max Uplift 3=-23 (LC 14), 4=-42 (LC 20),
5=-55 (LC 10)
Max Grav 3=309 (LC 32), 4=66 (LC 31),
5=465 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-432/234, 1-2=0/77, 2-3=-72/42
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat.
II; Exp B; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 3-10-3
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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load
applied where required.
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing
capacity of 405 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 55 lb uplift at joint
5, 23 lb uplift at joint 3 and 42 lb uplift at joint 4.
- 10) This truss has been designed for a moving concentrated
load of 250.0lb live and 40.0lb dead located at all mid
panels and at all panel points along the Top Chord,
nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18,2024

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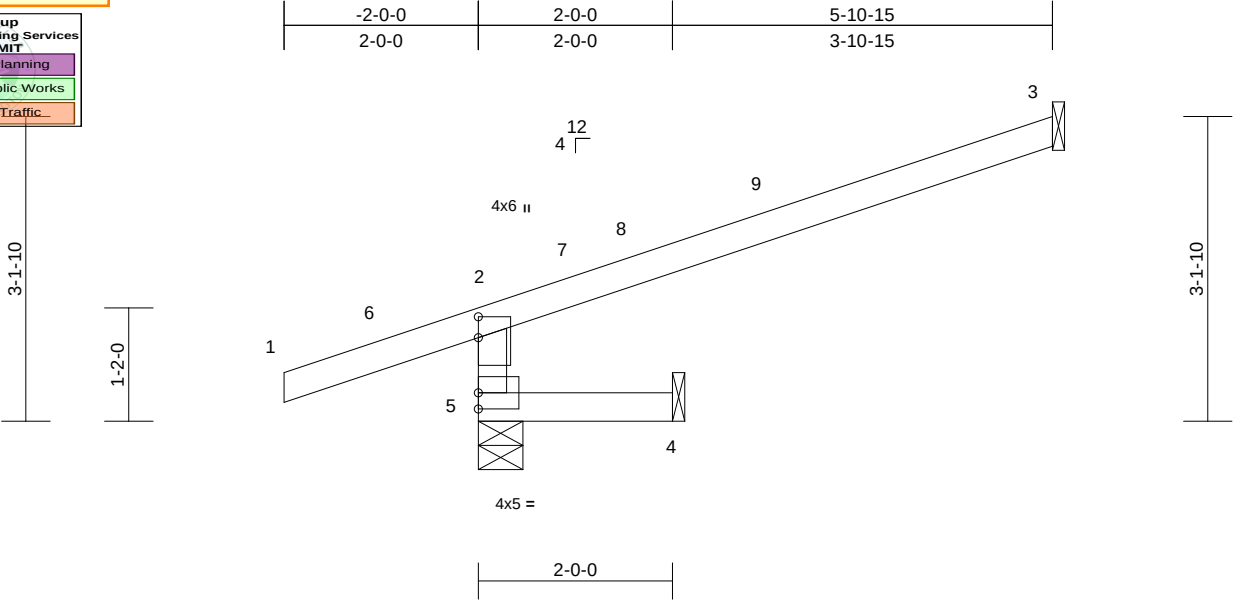
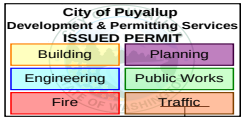
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387459
4319944	J03	Jack-Open	3	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:15
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Page: 1

PRMU20241695



Scale = 1:23.7

Plate Offsets (X, Y): [2:0-2-9,Edge]

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	0.79	Vert(LL)	-0.01	4-5	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.01	4-5	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-R								
BCDL	10.0										Weight: 13 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-5-8
Max Horiz 5=51 (LC 10)
Max Uplift 3=-35 (LC 14), 4=-46 (LC 20), 5=-50 (LC 10)
Max Grav 3=322 (LC 32), 4=121 (LC 31), 5=446 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-495/266, 1-2=0/77, 2-3=-102/53
BOT CHORD 4-5=0/0

- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 5, 35 lb uplift at joint 3 and 46 lb uplift at joint 4.
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- NOTES**
- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-10-3 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
 - TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - Unbalanced snow loads have been considered for this design.



November 18,2024

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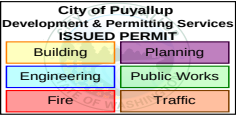
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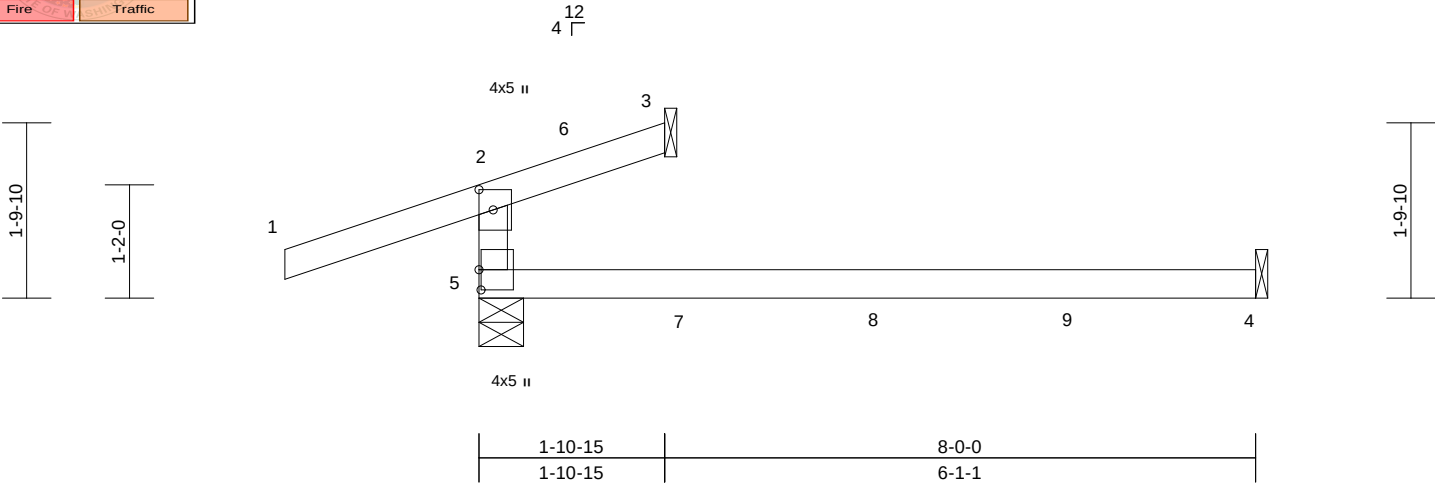
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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387460
4319944	J04	Jack-Open	3	1	Job Reference (optional)	

PRMU20241695



-2-0-0	1-10-15	8-0-0
2-0-0	1-10-15	6-1-1



Scale = 1:23.7

Plate Offsets (X, Y): [2:0-2-8,0-1-12], [5:0-2-8,0-0-4]

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	0.53	Vert(LL)	-0.15	4-5	>627	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.30	4-5	>311	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-R								
BCDL	10.0										Weight: 15 lb	FT = 10%

LUMBER	
TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (size)	
	3= Mechanical, 4= Mechanical, 5=0-5-8
Max Horiz	5=28 (LC 11)
Max Uplift	3=-62 (LC 20), 5=-51 (LC 10)
Max Grav	3=349 (LC 32), 4=135 (LC 35), 5=427 (LC 20)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-5=-336/257, 1-2=0/77, 2-3=-44/61
BOT CHORD	4-5=0/0

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 1-10-3 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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 5 and 62 lb uplift at joint 3.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 7 lb down and 24 lb up at 2-0-12, and 8 lb down and 10 lb up at 4-0-12, and 65 lb down and 29 lb up at 6-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-64, 2-3=-64, 4-5=-20
Concentrated Loads (lb)
Vert: 7=5 (F), 8=2 (F), 9=-65 (F)



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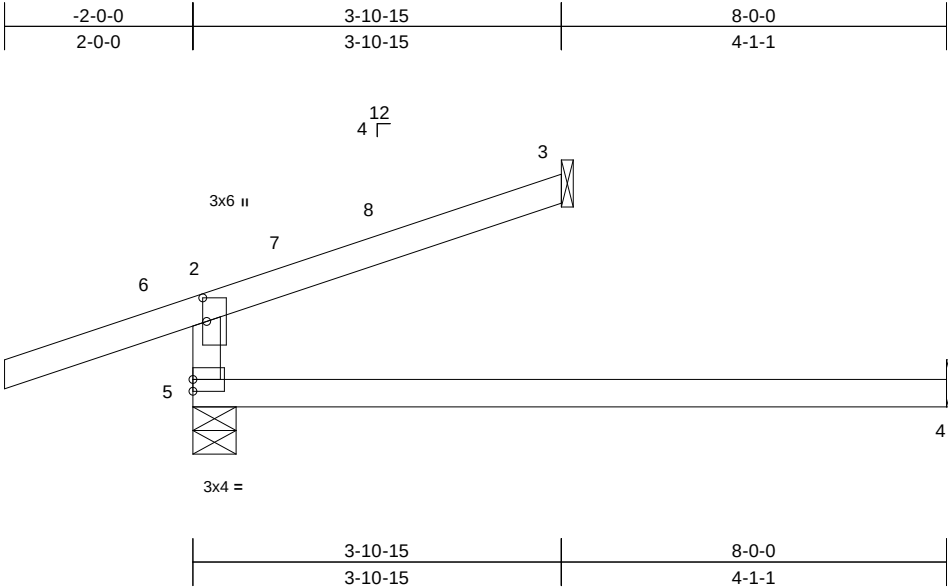
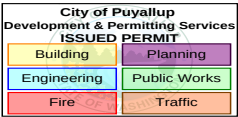
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387461
4319944	J05	Jack-Open	3	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:15
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Page: 1

PRMU20241695



Scale = 1:24.5

Plate Offsets (X, Y): [2-0-3-0,0-0-8]

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	0.58	Vert(LL)	-0.16	4-5	>578	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.32	4-5	>291	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-R								
BCDL	10.0											
Weight: 17 lb											FT = 10%	

- LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
- REACTIONS** (size) 3= Mechanical, 4= Mechanical, 5=0-5-8
Max Horiz 5=38 (LC 10)
Max Uplift 3=-12 (LC 14), 5=-29 (LC 10)
Max Grav 3=330 (LC 32), 4=135 (LC 5), 5=504 (LC 21)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-413/228, 1-2=0/77, 2-3=-66/52
BOT CHORD 4-5=0/0

- 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5 and 12 lb uplift at joint 3.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCCL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 3-10-3 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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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.



November 18,2024

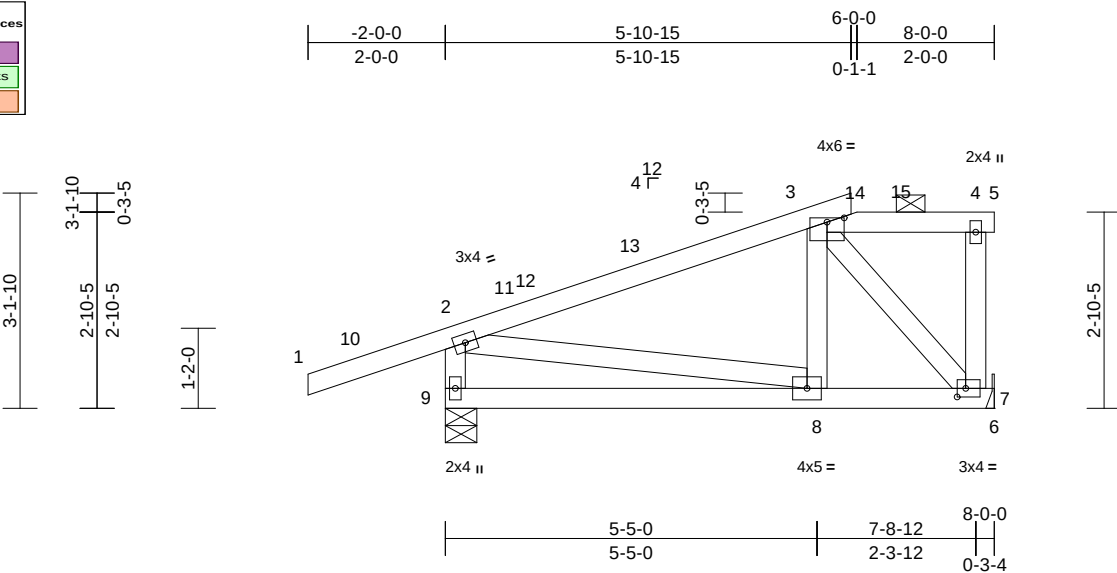
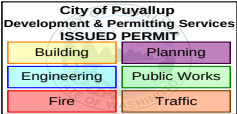
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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387462
4319944	J06	Roof Special	3	1	Job Reference (optional)	

PRMU20241695



Scale = 1:33.6												
Plate Offsets (X, Y): [3:0-3-0,0-0-12], [7:0-1-8,0-1-8]												
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	0.95	Vert(LL)	-0.03	8-9	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.06	8-9	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0										Weight: 38 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7= Mechanical, 9=0-5-8
Max Horiz 9=67 (LC 11)
Max Uplift 7=-43 (LC 11), 9=-61 (LC 10)
Max Grav 7=601 (LC 48), 9=707 (LC 32)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=-497/49, 3-4=-35/38, 4-5=0/0, 4-7=-353/63, 2-9=-662/267
BOT CHORD 8-9=-177/86, 7-8=-101/396, 6-7=0/0
WEBS 3-8=0/179, 3-7=-614/119, 2-8=0/403

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-6-12, Exterior(2E) 5-6-12 to 8-0-0 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - 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) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 7 and 61 lb uplift at joint 9.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 428 lb down and 122 lb up at 5-11-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-64, 2-3=-64, 3-4=-64, 4-5=-64, 6-9=-20
Concentrated Loads (lb)
Vert: 14=-360



November 18,2024

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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387463
4319944	J07	Jack-Closed	3	1	Job Reference (optional)	

PRMU20241695

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

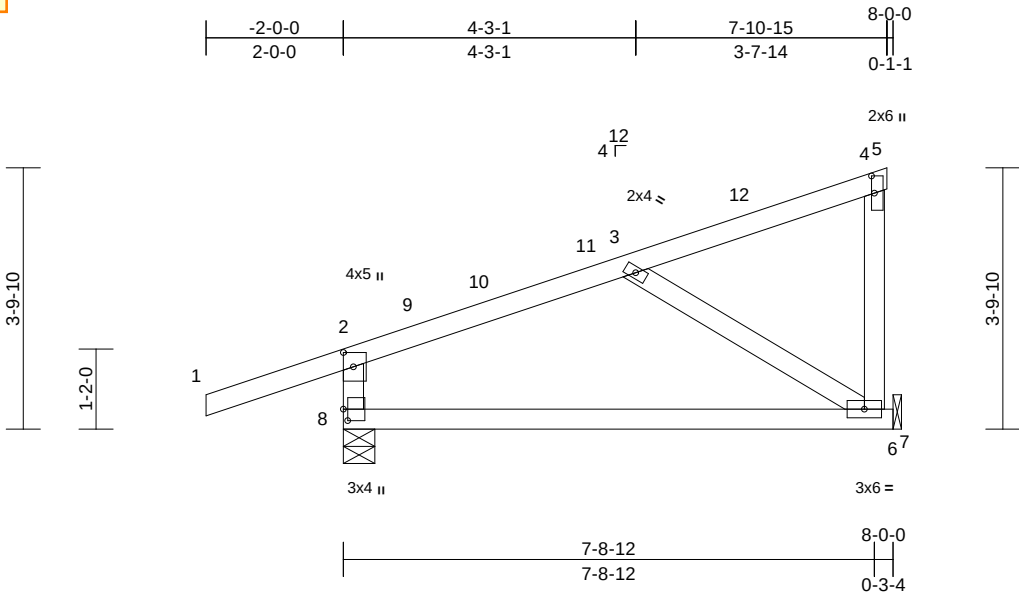
Engineering

Fire

Planning

Public Works

Traffic



Scale = 1:33.5									
Plate Offsets (X, Y): [2:0-2-8,0-1-12], [4:0-3-0,0-0-8], [8:0-2-0,0-0-12]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL	25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.11	7-8	>840
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.21	7-8	>431
TCDL	7.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH					
BCDL	10.0								
							PLATES	GRIP	
							MT20	185/148	
							Weight: 31 lb	FT = 10%	

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

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

REACTIONS (size) 7= Mechanical, 8=0-5-8
Max Horiz 8=88 (LC 13)
Max Uplift 7=-2 (LC 14), 8=-45 (LC 10)
Max Grav 7=438 (LC 21), 8=566 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-8=-481/276, 1-2=0/77, 2-3=-406/98,
3-4=-93/28, 4-5=-5/0, 4-7=-313/104
BOT CHORD 7-8=-212/313, 6-7=0/0
WEBS 3-7=-331/219

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 8 and 2 lb uplift at joint 7.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 7-10-15 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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.



November 18,2024

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387464
4319944	J08	Jack-Closed	3	1	Job Reference (optional)	

PRMU20241695

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

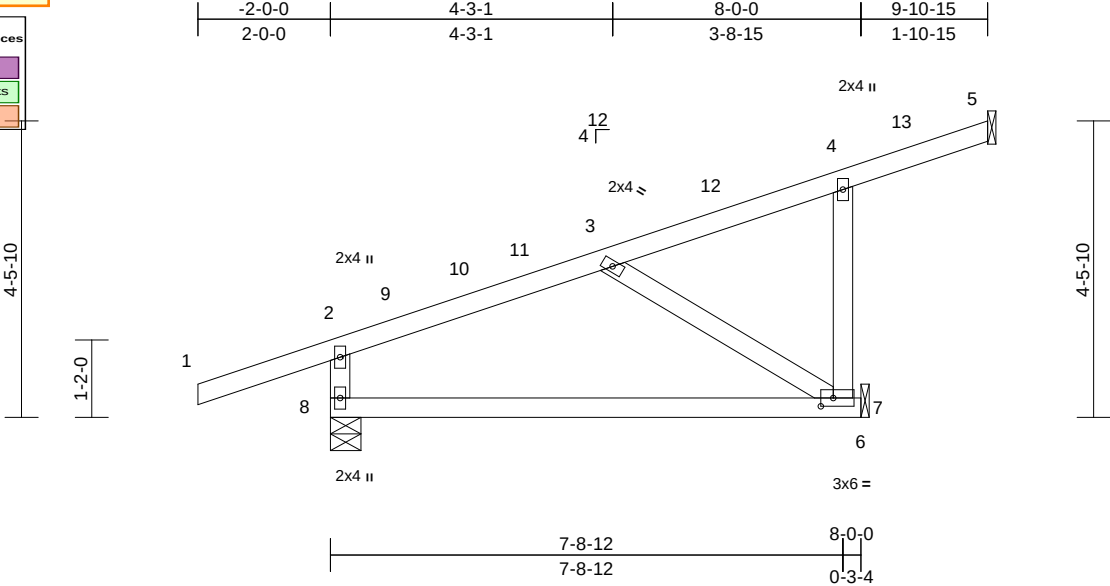
Engineering

Fire

Planning

Public Works

Traffic



Scale = 1:34.8									
Plate Offsets (X, Y): [7-0-2-4,0-1-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.21	7-8	>427
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.43	7-8	>214
TCDL	7.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.42	5	n/a
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P					
BCDL	10.0								
					Weight: 33 lb FT = 10%				

- LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 5= Mechanical, 7= Mechanical, 8=0-5-8
Max Horiz 8=98 (LC 11)
Max Uplift 5=-170 (LC 35), 7=-24 (LC 14), 8=-40 (LC 10)
Max Grav 5=273 (LC 36), 7=772 (LC 21), 8=463 (LC 21)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-8=-387/262, 1-2=0/77, 2-3=-79/91, 3-4=-88/121, 4-5=-97/36, 4-7=-690/118
BOT CHORD 7-8=-254/132, 6-7=0/0
WEBS 3-7=-112/259

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 8, 170 lb uplift at joint 5 and 24 lb uplift at joint 7.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 9-10-3 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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.



November 18,2024

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387465
4319944	J09	Jack-Closed	3	1	Job Reference (optional)	

PRMU20241695

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

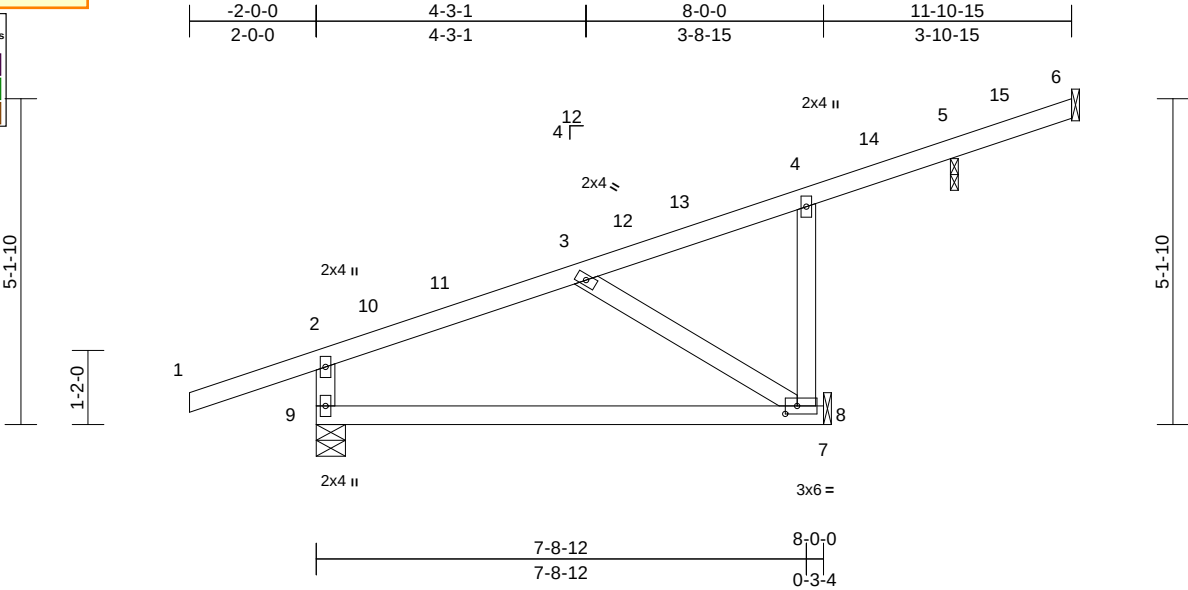
Planning

Engineering

Public Works

Fire

Traffic



Scale = 1:36.3									
Plate Offsets (X, Y): [8:0-2-4,0-1-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	L/defl
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.21	8-9	>427
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.43	8-9	>214
TCDL	7.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.43	6	n/a
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P					
BCDL	10.0								
						PLATES	GRIP		
						MT20	185/148		
						Weight: 36 lb	FT = 10%		

- LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-7 oc bracing.
- REACTIONS** (size) 5=0-1-8, 6= Mechanical, 8= Mechanical, 9=0-5-8
Max Horiz 9=108 (LC 11)
Max Uplift 5=-136 (LC 36), 6=-12 (LC 10), 8=-19 (LC 14), 9=-36 (LC 10)
Max Grav 5=290 (LC 37), 6=303 (LC 38), 8=691 (LC 21), 9=444 (LC 30)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-9=-369/253, 1-2=0/77, 2-3=-73/88, 3-4=-114/108, 4-5=-85/37, 5-6=-49/49, 4-8=-610/89
BOT CHORD 8-9=-284/144, 7-8=0/0
WEBS 3-8=-126/295

- NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 11-10-3 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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 9, 12 lb uplift at joint 6, 19 lb uplift at joint 8 and 136 lb uplift at joint 5.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18,2024

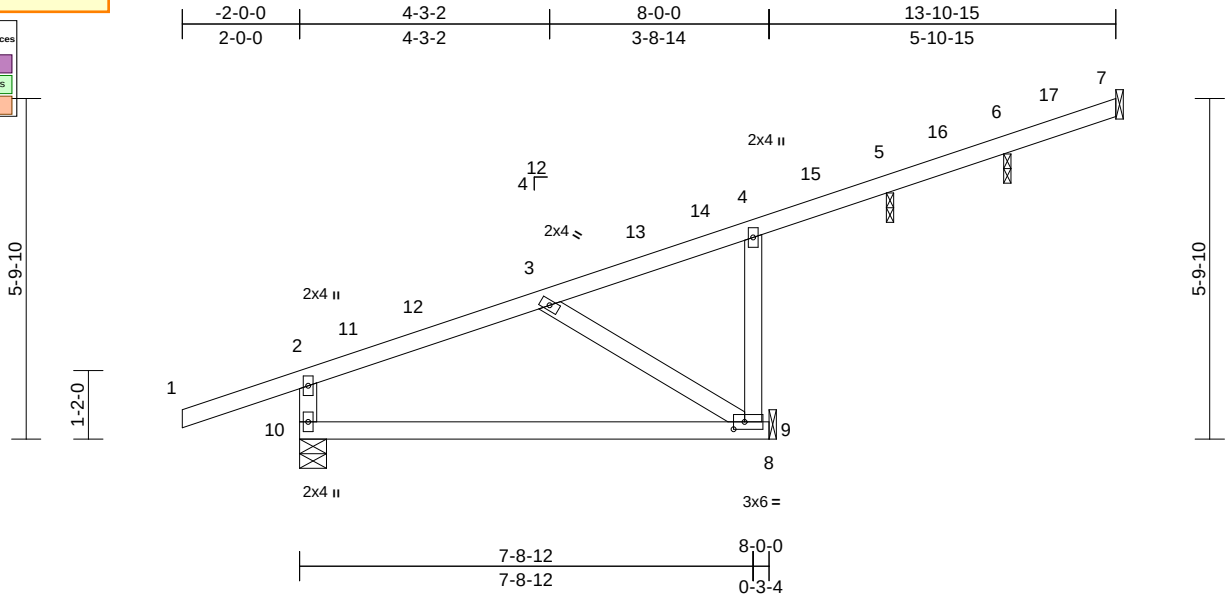
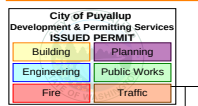
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387466
4319944	J10	Jack-Closed	3	1	Job Reference (optional)	

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Page: 1

PRMU20241695



Scale = 1:39.3

Plate Offsets (X, Y): [9:0-2-4,0-1-8]

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	0.86	Vert(LL)	-0.21	9-10	>427	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.43	9-10	>214	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.43	7	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0										Weight: 38 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-12 oc bracing.

REACTIONS (size) 5=0-1-8, 6=0-1-8, 7= Mechanical, 9= Mechanical, 10=0-5-8
Max Horiz 10=118 (LC 11)
Max Uplift 5=-134 (LC 37), 6=-26 (LC 10), 7=-12 (LC 10), 9=-13 (LC 14), 10=-31 (LC 10)
Max Grav 5=292 (LC 38), 6=317 (LC 39), 7=303 (LC 40), 9=613 (LC 21), 10=444 (LC 30)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-10=-369/243, 1-2=0/77, 2-3=-73/85, 3-4=-140/100, 4-5=-93/37, 5-6=-49/49, 6-7=-49/49, 4-9=-531/57
BOT CHORD 9-10=-314/155, 8-9=0/0
WEBS 3-9=-139/330

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 13-10-3 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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5, 6.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 10, 12 lb uplift at joint 7, 13 lb uplift at joint 9, 134 lb uplift at joint 5 and 26 lb uplift at joint 6.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18,2024

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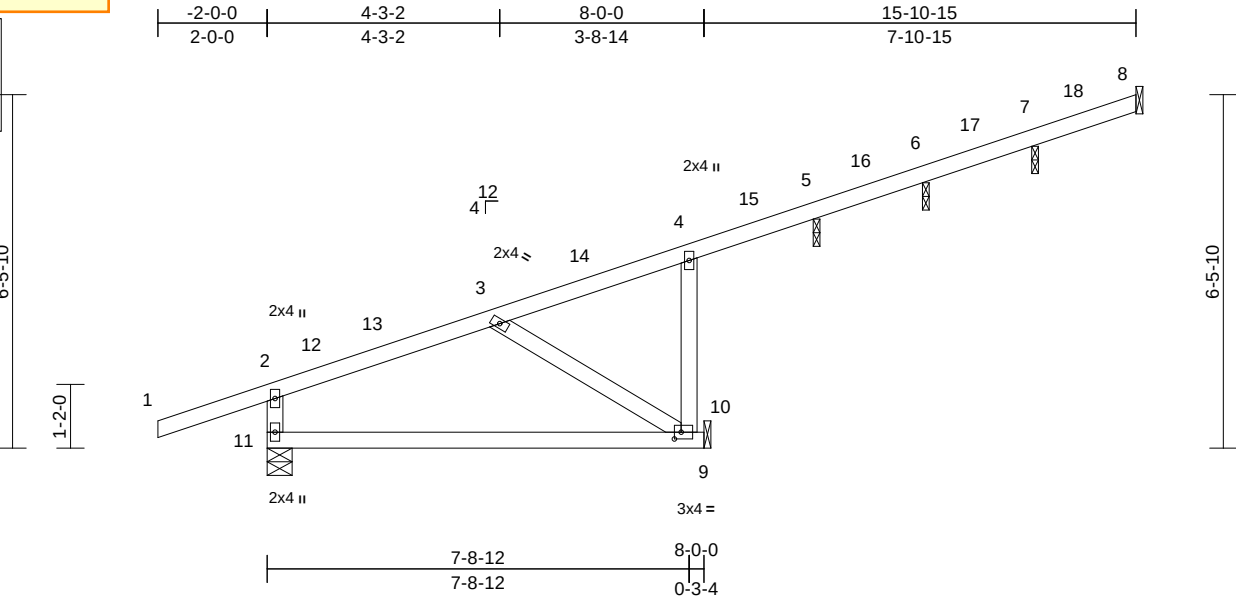
MiTek®
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387467
4319944	J11	Jack-Closed	3	1	Job Reference (optional)	

PRMU20241695

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building Planning
Engineering Public Works
Fire Traffic



Scale = 1:42.2

Plate Offsets (X, Y): [10:0-1-8,0-1-8]

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	0.86	Vert(LL)	-0.21	10-11	>427	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.43	10-11	>214	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.43	8	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0										Weight: 41 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-15 oc bracing.

REACTIONS (size) 5=0-1-8, 6=0-1-8, 7=0-1-8, 8= Mechanical, 10= Mechanical, 11=0-5-8
Max Horiz 11=128 (LC 11)
Max Uplift 5=-134 (LC 38), 6=-28 (LC 10), 7=-26 (LC 10), 8=-12 (LC 10), 10=-7 (LC 14), 11=-27 (LC 10)
Max Grav 5=292 (LC 39), 6=318 (LC 40), 7=317 (LC 41), 8=303 (LC 42), 10=558 (LC 21), 11=444 (LC 30)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-11=-369/234, 1-2=0/77, 2-3=-73/82, 3-4=-165/110, 4-5=-130/42, 5-6=-78/49, 6-7=-49/49, 7-8=-49/49, 4-10=-477/24
BOT CHORD 10-11=-344/167, 9-10=0/0
WEBS 3-10=-153/365

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 15-10-3 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

- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5, 6, 7.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 11, 12 lb uplift at joint 8, 7 lb uplift at joint 10, 134 lb uplift at joint 5, 28 lb uplift at joint 6 and 26 lb uplift at joint 7.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6, 7.
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18,2024

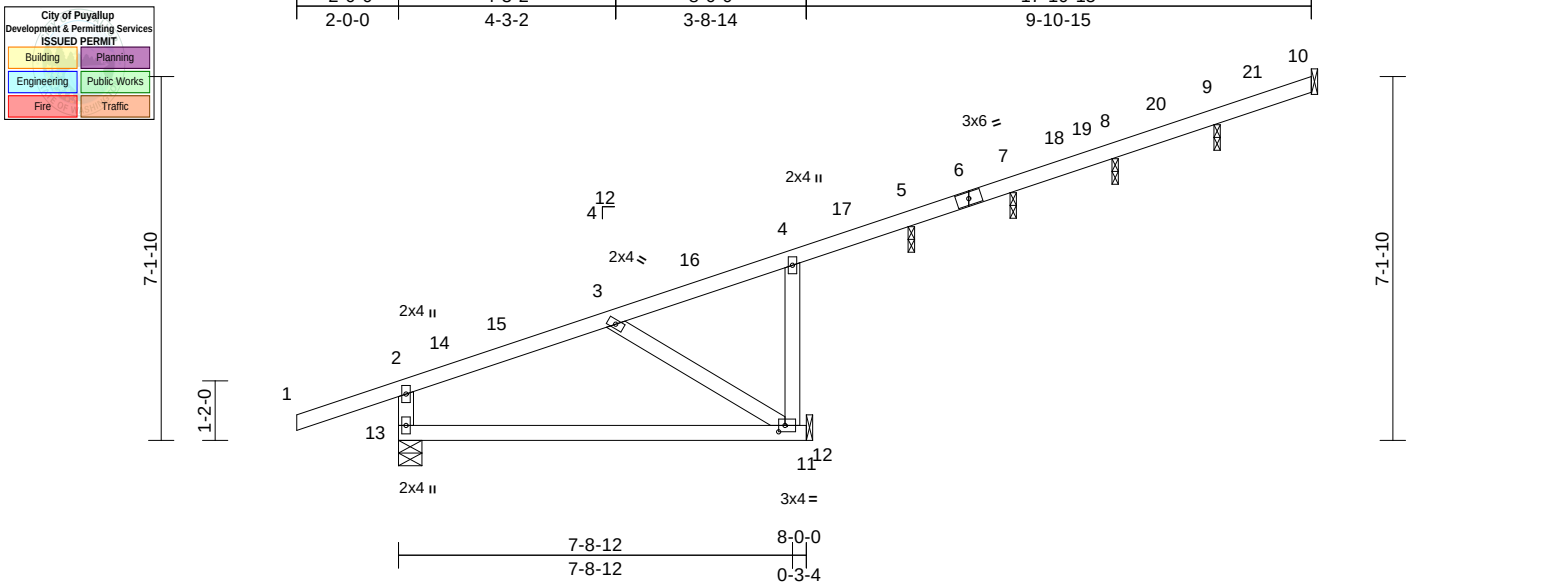
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387468
4319944	J12	Jack-Closed	4	1	Job Reference (optional)	

PRMU20241695



Scale = 1:45.2									
Plate Offsets (X, Y): [12:0-1-8,0-1-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.21 12-13	>427	240
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.43 12-13	>214	180
TCDL	7.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.43 10	n/a	n/a
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P					
BCDL	10.0								
Weight: 43 lb									FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-3 oc bracing.

REACTIONS (size)
5=0-1-8, 7=0-1-8, 8=0-1-8, 9=0-1-8, 10= Mechanical, 12= Mechanical, 13=0-5-8
Max Horiz 13=138 (LC 11)
Max Uplift 5=-134 (LC 39), 7=-28 (LC 10), 8=-28 (LC 10), 9=-26 (LC 10), 10=-12 (LC 10), 13=-23 (LC 10)
Max Grav 5=292 (LC 40), 7=318 (LC 41), 8=318 (LC 42), 9=317 (LC 43), 10=303 (LC 44), 12=555 (LC 32), 13=444 (LC 30)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-13=-369/224, 1-2=0/77, 2-3=-73/79, 3-4=-201/120, 4-5=-179/53, 5-7=-122/55, 7-8=-90/49, 8-9=-54/49, 9-10=-49/49, 4-12=-473/0
BOT CHORD 12-13=-386/179, 11-12=0/0
WEBS 3-12=-167/414

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 17-10-3 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

- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5, 7, 8, 9.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 13, 12 lb uplift at joint 10, 134 lb uplift at joint 5, 28 lb uplift at joint 7, 28 lb uplift at joint 8 and 26 lb uplift at joint 9.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 7, 8, 9.
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

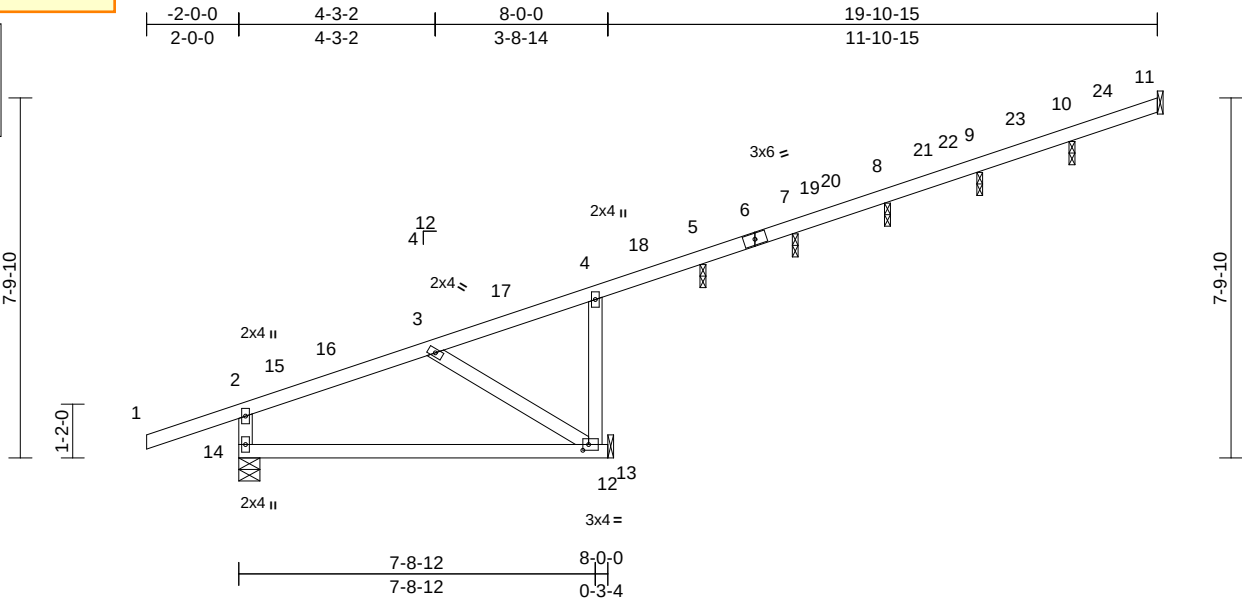


November 18,2024

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387469
4319944	J13	Jack-Closed	4	1	Job Reference (optional)	

PRMU20241695

City of Puyallup Development & Permitting Services ISSUED PERMIT			
Building	Planning	Engineering	Public Works
Fire	Traffic		



Scale = 1:49.9

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

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	0.86	Vert(LL)	-0.21	13-14	>427	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.43	13-14	>214	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.43	11	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 46 lb	FT = 10%

LUMBER	
TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-3-8 oc bracing.
REACTIONS (size)	
	5=0-1-8, 7=0-1-8, 8=0-1-8, 9=0-1-8, 10=0-1-8, 11= Mechanical, 13= Mechanical, 14=0-5-8
Max Horiz	14=148 (LC 11)
Max Uplift	5=-134 (LC 40), 7=-28 (LC 10), 8=-28 (LC 10), 9=-28 (LC 10), 10=-26 (LC 10), 11=-12 (LC 10), 14=-19 (LC 10)
Max Grav	5=292 (LC 41), 7=318 (LC 42), 8=318 (LC 43), 9=318 (LC 44), 10=317 (LC 45), 11=303 (LC 46), 13=555 (LC 32), 14=444 (LC 30)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-14=-369/215, 1-2=0/77, 2-3=-73/76, 3-4=-227/129, 4-5=-215/67, 5-7=-153/57, 7-8=-122/49, 8-9=-90/49, 9-10=-54/49, 10-11=-49/49, 4-13=-473/0
BOT CHORD	13-14=-416/190, 12-13=0/0
WEBS	3-13=-180/449
NOTES	

- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 19-10-3 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
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5, 7, 8, 9, 10.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 14, 12 lb uplift at joint 11, 134 lb uplift at joint 5, 28 lb uplift at joint 7, 28 lb uplift at joint 8, 28 lb uplift at joint 9 and 26 lb uplift at joint 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 7, 8, 9, 10.

- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18,2024

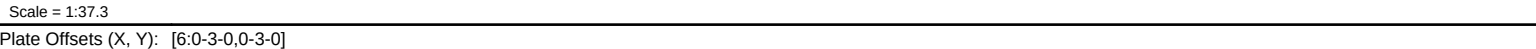
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City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic



LUMBER	
TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2
OTHERS	2x4 HF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-6-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-6-4 oc bracing.
REACTIONS (size)	
	5=8-0-0, 6=8-0-0, 7=8-0-0, 8=8-0-0, 9=8-0-0
Max Horiz	9=143 (LC 43)
Max Uplift	5=-466 (LC 74), 6=-463 (LC 41), 8=-400 (LC 48), 9=-568 (LC 40)
Max Grav	5=108 (LC 73), 6=679 (LC 74), 7=50 (LC 5), 8=642 (LC 33), 9=670 (LC 33)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/77, 2-3=-1000/945, 3-4=-917/844, 4-5=-148/99, 4-6=-651/241, 2-9=-651/633
BOT CHORD	8-9=-1065/826, 7-8=-440/332, 6-7=-752/643
WEBS	2-8=-919/1052, 3-6=-799/875, 3-8=-730/716

- ## NOTES
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat.
II; Exp B; Enclosed; MWFRS (envelope) and C-C
Exterior (2E) -2.0-0 to 1.0-0, Interior (1) 1.0-0 to 8.0-0
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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2'-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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 466 lb uplift at joint 5, 463 lb uplift at joint 6, 568 lb uplift at joint 9 and 400 lb uplift at joint 8.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 13) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0'-0" to 8'-0" for 200.0 plf.

LOAD CASE(S) Standard



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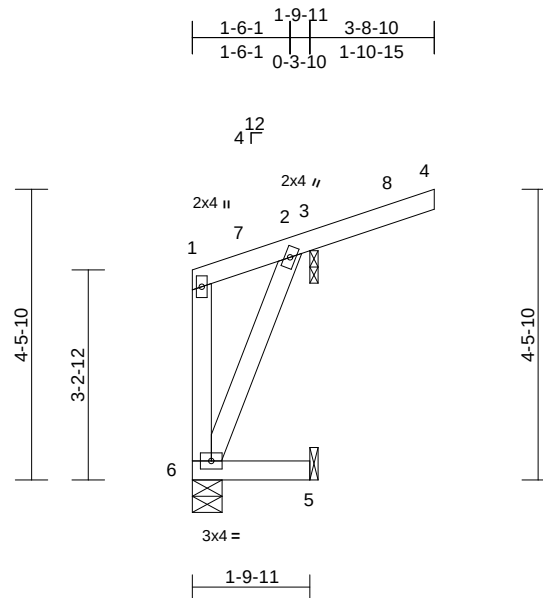
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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

[illegible]

TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 3=0-1-8, 5= Mechanical, 6=0-5-8 Max Horiz 6=65 (LC 11) Max Uplift 3=-145 (LC 11), 6=-84 (LC 20) Max Grav 3=336 (LC 20), 5=33 (LC 5), 6=305 (LC 30)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-6=-288/101, 1-2=-58/62, 2-3=-131/84, 3-4=-67/0
BOT CHORD	5-6=0/0
WEBS	2-6=-295/111

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 6 and 145 lb uplift at joint 3.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 6-4-1 to 9-4-1, Interior (1) 9-4-1 to 9-10-15 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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.



 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

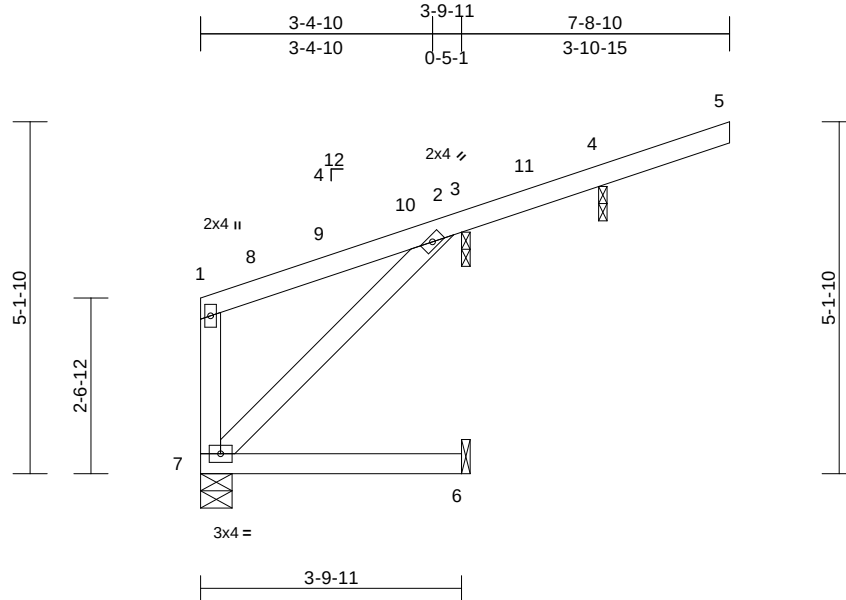
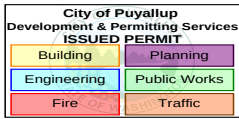
WARNING – Verify design parameters and READ NOTES ON THIS and INCLUDED MITER REFERENCE PAGE MIF-473 (rev. 3/2/2023) BEFORE USE.

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MiTek®

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Roseville, CA 95661
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PRMU20241695



Scale = 1:33.6

[illegible]

LUMBER

TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 3=0-1-8, 4=0-1-8, 6= Mechanical,
7=0-5-8
Max Horiz 7=73 (LC 11)
Max Uplift 3=58 (LC 14), 4=59 (LC 11)
Max Grav 3=298 (LC 32), 4=352 (LC 21),
6=72 (LC 5), 7=352 (LC 30)

FORCES

TOP CHORD	1-7=-316/114, 1-2=-56/72, 2-3=-138/94, 3-4=-74/56, 4-5=-67/0
BOT CHORD	6-7=0/0
WEBS	2-7=-235/85

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 4-4-1 to 7-4-1, Interior (1) 7-4-1 to 11-10-15 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=1.0); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3, 4.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 3 and 59 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18, 2024



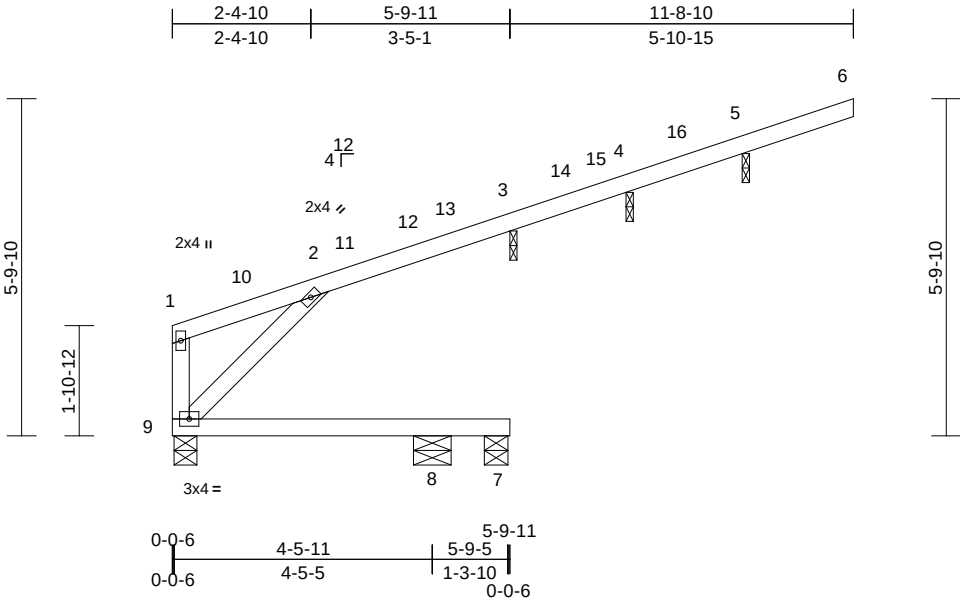
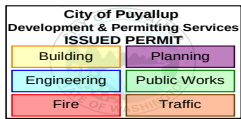
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MiTek®

400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	J20	Jack-Open	1	1	Job Reference (optional)
					R85387473

PRMU20241695



Scale = 1:39.7												
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 0.90		Vert(LL) -0.01 8-9 >999 240					MT20 185/148	
(Roof Snow = 25.0)		Lumber DOL 1.15		BC 0.13		Vert(CT) -0.02 8-9 >999 180						
TCDL 7.0		Rep Stress Incr YES		WB 0.06		Horz(CT) 0.22 5 n/a n/a						
BCLL 0.0*		Code IBC2021/TPI2014		Matrix-P								
BCDL 10.0											Weight: 27 lb FT = 10%	

LUMBER		
TOP CHORD	2x4 HF No.2	
BOT CHORD	2x4 HF No.2	
WEBS	2x4 HF No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS (size)		
		3=0-1-8, 4=0-1-8, 5=0-1-8, 7=0-4-14, 8=0-7-12, 9=0-4-12
Max Horiz		9=85 (LC 11)
Max Uplift		3=-74 (LC 14), 4=-69 (LC 20), 5=-59 (LC 11), 7=-44 (LC 5)
Max Grav		3=344 (LC 36), 4=306 (LC 37), 5=352 (LC 21), 7=-13 (LC 10), 8=193 (LC 5), 9=365 (LC 30)
FORCES (lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-9=-330/228, 1-2=-84/97, 2-3=-177/77, 3-4=-96/49, 4-5=-72/56, 5-6=-67/0	
BOT CHORD	8-9=0/0, 7-8=0/0	
WEBS	2-9=-306/109	

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-8-10 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3, 4, 5.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 7, 74 lb uplift at joint 3, 69 lb uplift at joint 4 and 59 lb uplift at joint 5.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 18,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387474
4319944	J21	Jack-Closed	1	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:18

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Page: 1

PRMU20241695

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

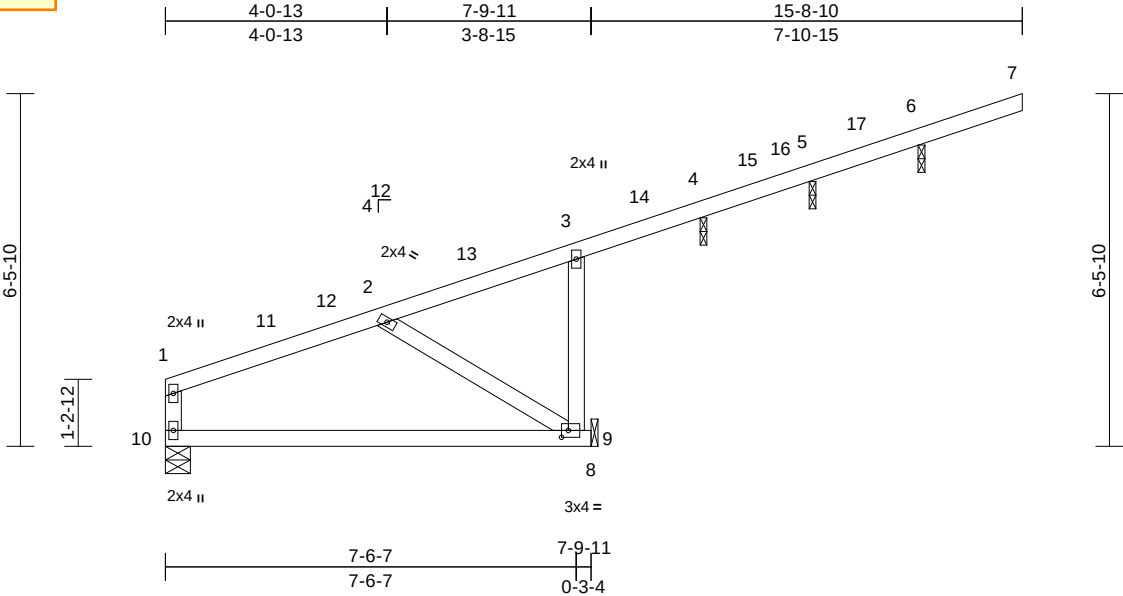
Planning

Engineering

Public Works

Fire

Traffic



Scale = 1:42.3												
Plate Offsets (X, Y): [9:0-1-8,0-1-8]												
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	0.87	Vert(LL)	-0.19	9-10	>461	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.38	9-10	>231	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.42	4	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0										Weight: 38 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-6 oc bracing.

REACTIONS (size) 4=0-1-8, 5=0-1-8, 6=0-1-8, 9=Mechanical, 10=0-5-8
Max Horiz 10=127 (LC 11)
Max Uplift 4=-133 (LC 37), 5=-69 (LC 20), 6=-59 (LC 11), 9=-22 (LC 10)
Max Grav 4=288 (LC 38), 5=306 (LC 39), 6=352 (LC 21), 9=590 (LC 21), 10=405 (LC 30)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-332/88, 1-2=-72/34, 2-3=-187/100, 3-4=-133/43, 4-5=-89/49, 5-6=-66/56, 6-7=-67/0, 3-9=-511/134
BOT CHORD 9-10=-325/159, 8-9=0/0
WEBS 2-9=-143/343

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-1 to 3-4-1, Interior (1) 3-4-1 to 15-10-15 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4, 5, 6.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 9, 133 lb uplift at joint 4, 69 lb uplift at joint 5 and 59 lb uplift at joint 6.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 5, 6.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

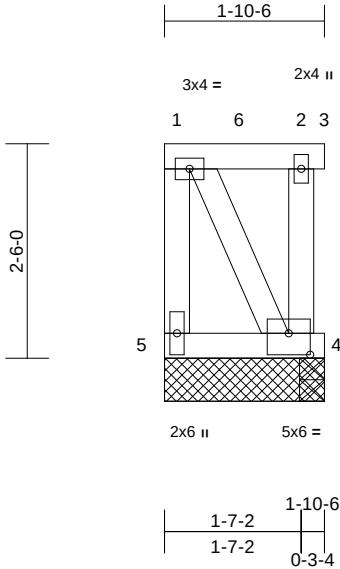
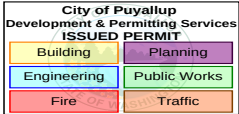
LOAD CASE(S) Standard



November 18, 2024

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	P01	Blocking	38	1	R85387475
					Job Reference (optional)

PRMU20241695



Scale = 1:26.9												
Plate Offsets (X, Y): [4:0-3-0,0-3-0]												
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	0.18	Vert(LL)	0.00	4-5	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	180		
TCDL	7.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0											
										Weight: 11 lb	FT = 10%	

LUMBER	
TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
REACTIONS	
(size)	3=1-10-6, 4=1-10-6, 5=1-10-6
Max Horiz	5=-89 (LC 32)
Max Uplift	3=-125 (LC 65), 4=-535 (LC 35), 5=-536 (LC 32)
Max Grav	3=81 (LC 66), 4=549 (LC 36), 5=553 (LC 39)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-5=-598/545, 1-2=-346/329, 2-3=-54/54, 2-4=-308/90
BOT CHORD	4-5=-397/351
WEBS	1-4=-652/706

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 536 lb uplift at joint 5, 125 lb uplift at joint 3 and 535 lb uplift at joint 4.
 - 8) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
 - 9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 200.0 plf.
- LOAD CASE(S)** Standard



November 18,2024

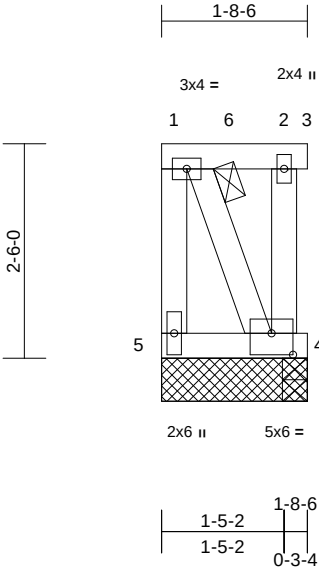
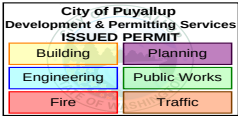
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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	P02	Blocking	2	1	R85387476
Job Reference (optional)					

PRMU20241695



Scale = 1:26.9												
Plate Offsets (X, Y): [4:0-3-0,0-3-0]												
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	0.14	Vert(LL)	0.00	4-5	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 11 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=1-8-6, 4=1-8-6, 5=1-8-6
Max Horiz 5=-89 (LC 32)
Max Uplift 3=-93 (LC 65), 4=-542 (LC 35), 5=-548 (LC 32)
Max Grav 3=89 (LC 66), 4=555 (LC 36), 5=563 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-613/556, 1-2=-316/299, 2-3=-54/54, 2-4=-271/76
BOT CHORD 4-5=-367/321
WEBS 1-4=-644/702

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 548 lb uplift at joint 5, 93 lb uplift at joint 3 and 542 lb uplift at joint 4.
- 8) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-6 for 200.0 plf.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 18,2024

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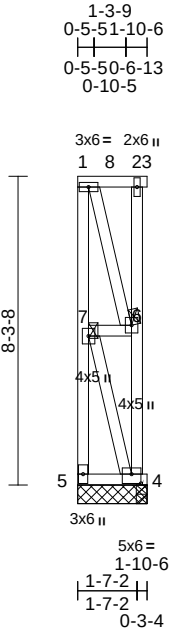
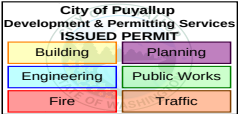
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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	P03	Blocking	65	1	R85387477
					Job Reference (optional)

PRMU20241695



Scale = 1:61.9

0-3-4

Plate Offsets (X, Y): [4:0-3-0,0-3-0]

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	0.41	Vert(LL)	0.00	4-5	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	180		
TCDL	7.0	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.14	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0										Weight: 33 lb	FT = 10%

LUMBER		
TOP CHORD	2x4 HF No.2	
BOT CHORD	2x4 HF No.2	
WEBS	2x4 HF No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS	1 Row at midpt	1-5
JOINTS	1 Brace at Jt(s): 6	
REACTIONS		
(size)	3=1-10-6, 4=1-10-6, 5=1-10-6	
Max Horiz	5=42 (LC 53)	
Max Uplift	3=-343 (LC 33), 4=-1433 (LC 33), 5=-1774 (LC 32)	
Max Grav	3=344 (LC 52), 4=1458 (LC 52), 5=1800 (LC 53)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	5-7=-1793/1828, 1-7=-890/924, 1-2=-312/312, 2-3=-54/54, 4-6=-549/581, 2-6=-421/452	
BOT CHORD	4-5=-316/316	
WEBS	1-6=-995/995, 6-7=-336/336, 4-7=-967/965	

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - 3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1774 lb uplift at joint 5, 343 lb uplift at joint 3 and 1433 lb uplift at joint 4.
- 8) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 200.0 plf.

LOAD CASE(S) Standard



November 18,2024

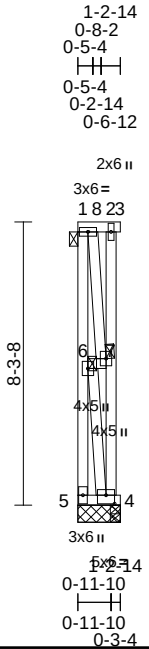
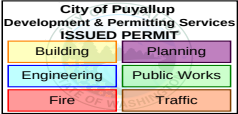
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	P04	Blocking	1	1	R85387478
					Job Reference (optional)

PRMU20241695



Scale = 1:67.4																		
Plate Offsets (X, Y): [4:0-3-0,0-3-0]																		
0-3-4																		
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		0.47	Vert(LL)		0.00	5	>999	240	MT20		185/148	
(Roof Snow = 25.0)			Lumber DOL		1.15	BC		0.04	Vert(CT)		0.00	5	>999	180				
TCDL		7.0	Rep Stress Incr		YES	WB		0.32	Horz(CT)		0.24	3	n/a	n/a				
BCLL		0.0*	Code		IBC2021/TPI2014	Matrix-P												
BCDL		10.0													Weight: 30 lb		FT = 10%	

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-5
JOINTS 1 Brace at Jt(s): 1, 7

REACTIONS (size) 3=1-2-14, 4=1-2-14, 5=1-2-14
Max Horiz 5=-42 (LC 32)
Max Uplift 3=-448 (LC 33), 4=-1426 (LC 33), 5=-1873 (LC 32)
Max Grav 3=448 (LC 52), 4=1441 (LC 52), 5=1888 (LC 53)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-1885/1907, 1-6=-888/909, 1-2=-198/198, 2-3=-54/54, 4-7=-439/451, 2-7=-596/608
BOT CHORD 4-5=-205/205
WEBS 4-6=-1022/1021, 6-7=-212/212, 1-7=-1043/1043

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1873 lb uplift at joint 5, 448 lb uplift at joint 3 and 1426 lb uplift at joint 4.
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-2-14 for 200.0 plf.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

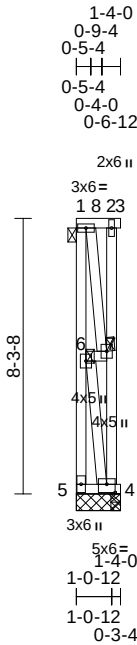
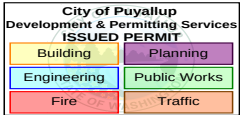
- NOTES**
- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - Provide adequate drainage to prevent water ponding.



November 18,2024

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	P05	Blocking	1	1	R85387479
					Job Reference (optional)

PRMU20241695



Scale = 1:69.3

0-3-4

Plate Offsets (X, Y): [4:0-3-0,0-3-0]

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	0.45	Vert(LL)	0.00	5	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.21	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 31 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-5
JOINTS 1 Brace at Jt(s): 1, 7

REACTIONS (size) 3=1-4-0, 4=1-4-0, 5=1-4-0
Max Horiz 5=-42 (LC 54)
Max Uplift 3=-429 (LC 33), 4=-1422 (LC 33), 5=-1850 (LC 32)
Max Grav 3=430 (LC 52), 4=1439 (LC 52), 5=1867 (LC 53)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-1864/1888, 1-6=-890/913, 1-2=-215/215, 2-3=-54/54, 4-7=-459/473, 2-7=-558/572
BOT CHORD 4-5=-222/222
WEBS 4-6=-1004/1003, 6-7=-231/231, 1-7=-1028/1029

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1850 lb uplift at joint 5, 429 lb uplift at joint 3 and 1422 lb uplift at joint 4.
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- This truss has been designed for a total drag load of 200 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 200.0 plf.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- NOTES**
- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - Provide adequate drainage to prevent water ponding.



November 18,2024

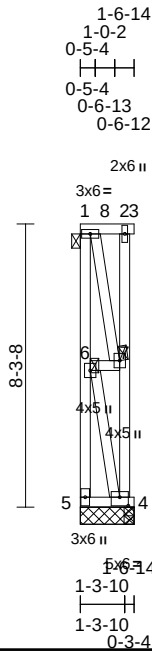
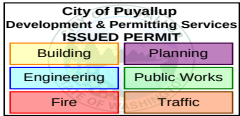
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	P06	Blocking	1	1	R85387480
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:19

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PRMU20241695



Scale = 1:67.4									
Plate Offsets (X, Y): [4:0-3-0,0-3-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.00	4-5	>999
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999
TCDL	7.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.17	3	n/a
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P					
BCDL	10.0								
						PLATES		GRIP	
						MT20		185/148	
						Weight: 31 lb		FT = 10%	

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-5
JOINTS 1 Brace at Jt(s): 1, 7

REACTIONS (size) 3=1-6-14, 4=1-6-14, 5=1-6-14
Max Horiz 5=42 (LC 33)
Max Uplift 3=-387 (LC 33), 4=-1423 (LC 33), 5=-1808 (LC 32)
Max Grav 3=387 (LC 52), 4=1444 (LC 52), 5=1829 (LC 53)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-1824/1853, 1-6=-891/919, 1-2=-259/259, 2-3=-54/54, 4-7=-505/525, 2-7=-484/504
BOT CHORD 4-5=-264/264
WEBS 4-6=-977/975, 6-7=-278/278, 1-7=-1005/1005

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - 3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1808 lb uplift at joint 5, 387 lb uplift at joint 3 and 1423 lb uplift at joint 4.
- 8) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-6-14 for 200.0 plf.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 18,2024

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	P07	Blocking	1	1	Job Reference (optional)

R85387481

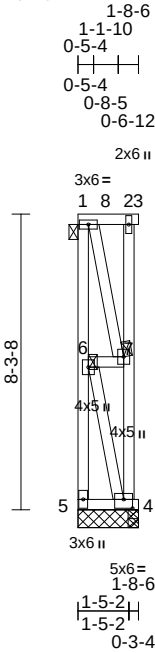
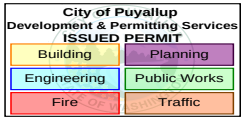
Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:19

Page: 1

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PRMU20241695



Scale = 1:64.6

Plate Offsets (X, Y): [4:0-3-0,0-3-0]

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	0.42	Vert(LL)	0.00	4-5	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.15	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0										Weight: 32 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING

TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-5
JOINTS 1 Brace at Jt(s): 1, 7

REACTIONS

(size) 3=1-8-6, 4=1-8-6, 5=1-8-6
Max Horiz 5=42 (LC 33)
Max Uplift 3=-367 (LC 33), 4=-1427 (LC 33), 5=-1792 (LC 32)
Max Grav 3=368 (LC 52), 4=1449 (LC 52), 5=1815 (LC 53)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 5-6=-1809/1841, 1-6=-891/921, 1-2=-282/282, 2-3=-54/54, 4-7=-525/550, 2-7=-454/479
BOT CHORD 4-5=-286/286
WEBS 4-6=-970/969, 6-7=-303/303, 1-7=-998/999

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1792 lb uplift at joint 5, 367 lb uplift at joint 3 and 1427 lb uplift at joint 4.
- 8) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-6 for 200.0 plf.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 18,2024

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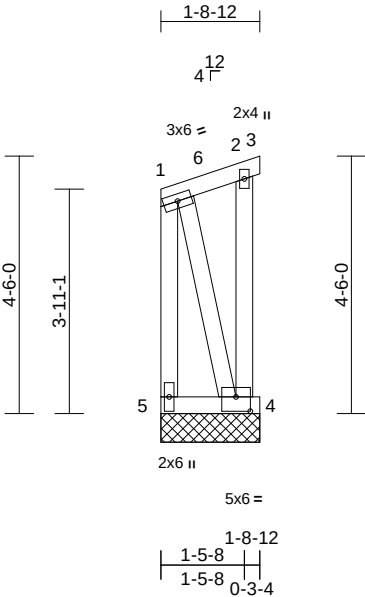
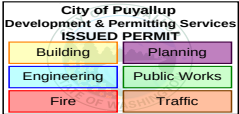
Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387482
4319944	P08	Monopitch	2	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

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Page: 1

PRMU20241695



Scale = 1:40.2

Plate Offsets (X, Y): [4:0-3-0,0-3-0]

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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.26	Horiz(TL)	-0.04	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0										Weight: 17 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING

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

REACTIONS (size) 3=1-8-12, 4=1-8-12, 5=1-8-12
Max Horiz 5=52 (LC 40)
Max Uplift 3=-52 (LC 72), 4=-841 (LC 40), 5=-932 (LC 61)
Max Grav 3=122 (LC 73), 4=836 (LC 59), 5=979 (LC 44)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-329/309, 2-3=-71/67, 2-4=-220/92, 1-5=-1012/953
BOT CHORD 4-5=-328/300
WEBS 1-4=-934/1013

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone; cantilever 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 3, 841 lb uplift at joint 4 and 932 lb uplift at joint 5.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-12 for 200.0 plf.

LOAD CASE(S) Standard



November 18,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

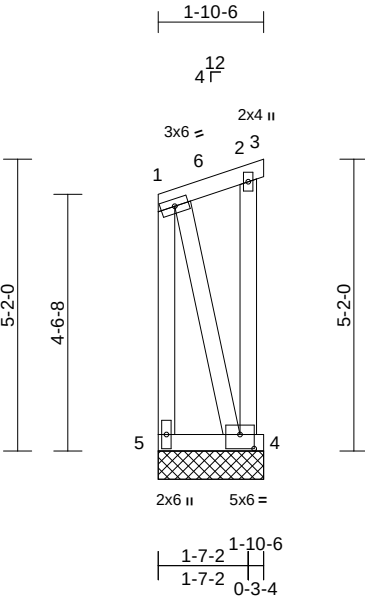
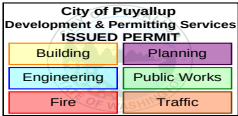
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387483
4319944	P09	Monopitch	2	1	Job Reference (optional)	

PRMU20241695



Scale = 1:40.8

Plate Offsets (X, Y): [4:0-3-0,0-3-0]												
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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.40	Horiz(TL)	-0.06	3	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0										Weight: 19 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

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

REACTIONS (size) 3=1-10-6, 4=1-10-6, 5=1-10-6
Max Horiz 5=53 (LC 40)
Max Uplift 3=-61 (LC 72), 4=-974 (LC 40), 5=-1071 (LC 61)
Max Grav 3=126 (LC 73), 4=966 (LC 59), 5=1124 (LC 44)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-357/335, 2-3=-72/68, 2-4=-230/102, 1-5=-1165/1096
BOT CHORD 4-5=-356/325
WEBS 1-4=-1071/1162

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 3, 974 lb uplift at joint 4 and 1071 lb uplift at joint 5.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 200.0 plf.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone; cantilever 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



November 18,2024

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:19 Page: 1
ID:plXpzqzQzysATVUPcwXQJ4ylu6T-RfC?PsB70Hg3NSgPqnL8w3uITxBGKWRcDoi7J4Cz?i

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

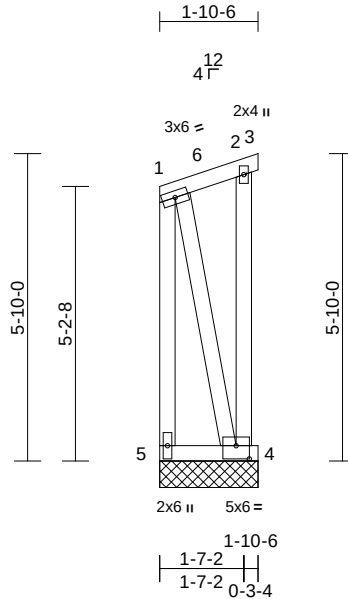


Plate Offsets (X, Y): [4:0-3-0,0-3-0]

[illegible]

TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2

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

Max Horiz 5=24 (LC 39)
Max Uplift 4=-991 (LC 40), 5=-1032 (LC 61)
Max Grav 4=980 (LC 59), 5=1089 (LC 44)

Tension

TOP CHORD	1-2=-301/279, 2-3=-7/0, 2-4=-303/73, 1-5=-1144/1061
BOT CHORD	4-5=-301/271
WEBS	1-4=-1031/1134

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TC DL=4.2psf; BC DL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCDL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 991 lb uplift at joint 4 and 1032 lb uplift at joint 5.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 200.0 plf.

LOAD CASE(S) Standard



November 18, 2024



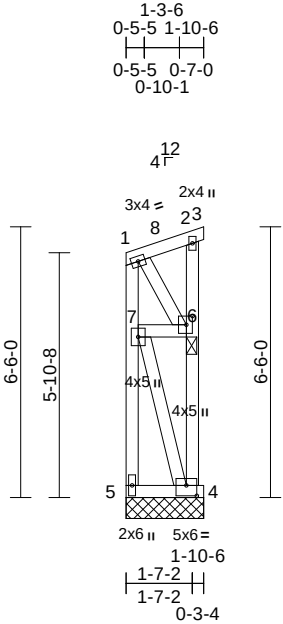
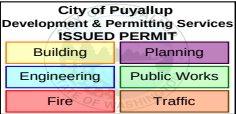
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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	P11	Monopitch	2	1	R85387485
Job Reference (optional)					

PRMU20241695



Scale = 1:55.3									
Plate Offsets (X, Y): [4:0-3-0,0-3-0], [6:0-2-8,0-1-12]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	n/a	-	n/a
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a
TCDL	7.0	Rep Stress Incr	YES	WB	0.29	Horiz(TL)	-0.07	3	n/a
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P					
BCDL	10.0								
						PLATES	GRIP		
						MT20	185/148		
						Weight: 26 lb	FT = 10%		

LUMBER	
TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 6
REACTIONS	
(size)	3=1-10-6, 4=1-10-6, 5=1-10-6
Max Horiz	5=53 (LC 40)
Max Uplift	3=-185 (LC 40), 4=-1117 (LC 40), 5=-1355 (LC 61)
Max Grav	3=180 (LC 59), 4=1105 (LC 59), 5=1415 (LC 40)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-349/327, 2-3=-125/116, 4-6=-250/299, 2-6=-233/245, 5-7=-1483/1389, 1-7=-516/499
BOT CHORD	4-5=-355/325
WEBS	1-6=-565/613, 6-7=-381/351, 4-7=-960/1041

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 3, 1117 lb uplift at joint 4 and 1355 lb uplift at joint 5.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 200.0 plf.

LOAD CASE(S) Standard

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone; cantilever 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.



November 18,2024

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Nov 15 18:24:20 Page: 1
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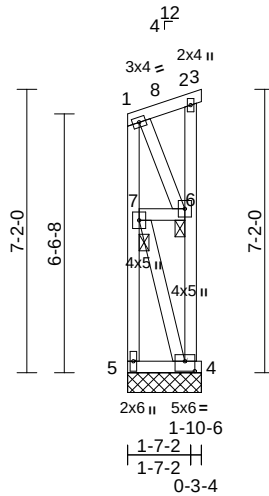
$$\begin{array}{ccccccc} & & 1-3-8 & & & & \\ 0-5-5 & 1-10-6 & & & & & \\ | & | & | & | & & & \\ 0-5-5 & 0-6-14 & & & & & \\ & 0-10-3 & & & & & \end{array}$$


Plate Offsets (X, Y): [4:0-3-0,0-3-0]

[illegible]

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCCL=4.2psf; BCCL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone; cantilever 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 3, 1218 lb uplift at joint 4 and 1500 lb uplift at joint 5.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 200.0 plf.

LOAD CASE(S) Standard



November 18, 2024



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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

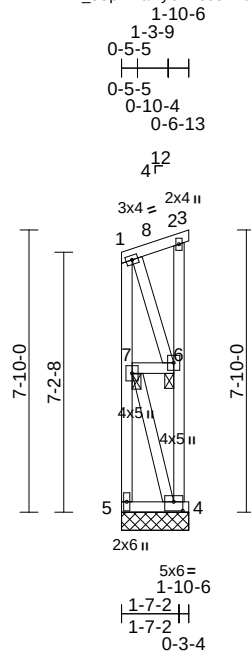


Plate Offsets (X, Y): [4:0-3-0,0-3-0]

[illegible]

TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2

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

WEBS	1 Row at midpt	1-5
JOINTS	1 Brace at Jt(s): 6	

(size) 3=1-10-6, 4=1-10-6, 5=1-10-6
 Max Horiz 5=53 (LC 40)
 Max Uplift 3=-280 (LC 40), 4=-1323 (LC 40),
 5=-1646 (LC 61)
 Max Grav 3=271 (LC 59), 4=1305 (LC 59),
 5=1716 (LC 40)

(lb) - Maximum Compression/Maximum Tension
1-2=339/318, 2-3=-158/146, 4-6=-453/517,
2-6=334/333, 5-7=-1809/1690, 1-7=-837/794
4-5=358/327
1-6=833/904, 6-7=-377/347, 4-7=-962/1044

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCCL=4.2psf; BCCL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone; cantilever 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; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 3, 1323 lb uplift at joint 4 and 1646 lb uplift at joint 5.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 200.0 plf.

LOAD CASE(S) Standard



November 18, 2024



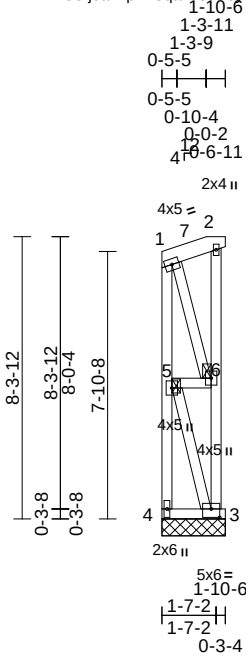
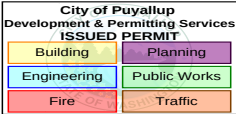
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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments
4319944	P14	Half Hip	2	1	R85387488
Job Reference (optional)					

PRMU20241695



Scale = 1:67.9

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

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	0.31	Vert(LL)	n/a	-	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.24	Horiz(TL)	0.00	3	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P							
BCDL	10.0										
										Weight: 34 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-4
JOINTS 1 Brace at Jt(s): 6

REACTIONS (size) 3=1-10-6, 4=1-10-6
Max Horiz 4=22 (LC 39)
Max Uplift 3=-1494 (LC 40), 4=-1526 (LC 61)
Max Grav 3=1470 (LC 59), 4=1592 (LC 40)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-292/275, 3-6=-774/864, 2-6=-300/54, 4-5=-1675/1566, 1-5=-866/820
BOT CHORD 3-4=-298/272
WEBS 3-5=-801/869, 5-6=-310/286, 1-6=-803/872

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1494 lb uplift at joint 3 and 1526 lb uplift at joint 4.
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 200.0 plf.

LOAD CASE(S) Standard

- NOTES**
- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.



November 18,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	2nd Street Apartments	R85387489
4319944	R01	Corner Rafter	3	1	Job Reference (optional)	

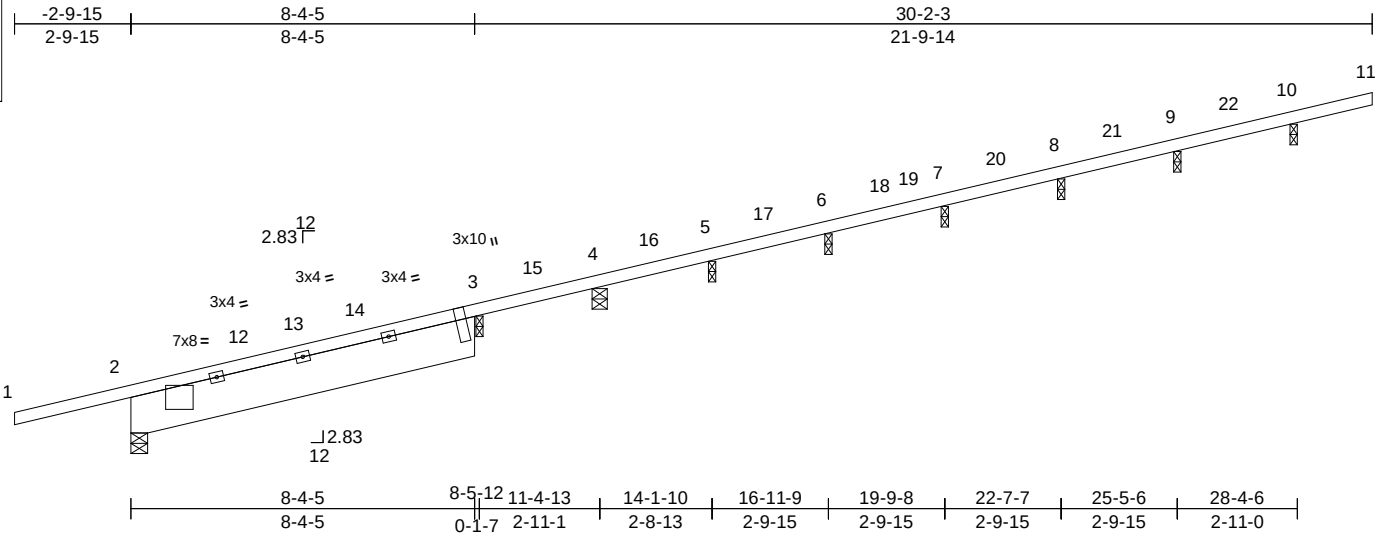
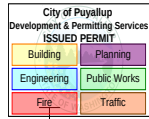
Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

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PRMU20241695



Scale = 1:56

Plate Offsets (X, Y): [2:0-10-2,0-6-14], [2:2-2-2,0-8-10], [3:Edge,8-3-13], [3:4-3-15,0-8-10], [3:6-5-11,0-8-10]

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	0.51	Vert(LL)	-0.03	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.00	Vert(CT)	-0.04	3-4	>837	180		
TCDL	7.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 78 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2 *Except* 2-3:2x12 DF SS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=0-4-14, 3=0-2-2, 4=0-4-7, 5=0-2-2, 6=0-2-2, 7=0-2-2, 8=0-2-2, 9=0-2-2, 10=0-2-2
Max Horiz 2=161 (LC 63)
Max Uplift 2=-82 (LC 6), 3=-87 (LC 10), 4=-36 (LC 6), 5=-67 (LC 60), 6=-36 (LC 6), 7=-36 (LC 6), 8=-36 (LC 6), 9=-31 (LC 6), 10=-53 (LC 7)
Max Grav 2=508 (LC 1), 3=541 (LC 1), 4=330 (LC 36), 5=332 (LC 37), 6=362 (LC 38), 7=362 (LC 39), 8=362 (LC 40), 9=353 (LC 41), 10=396 (LC 16)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/38, 2-3=-154/72, 3-4=-99/37, 4-5=-85/37, 5-6=-72/37, 6-7=-58/37, 7-8=-44/37, 8-9=-37/37, 9-10=-35/47, 10-11=-44/0

NOTES

- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.

- Plates checked for a plus or minus 0 degree rotation about its center.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3, 5, 6, 7, 8, 9, 10.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 2, 87 lb uplift at joint 3, 36 lb uplift at joint 4, 67 lb uplift at joint 5, 36 lb uplift at joint 6, 36 lb uplift at joint 7, 36 lb uplift at joint 8, 31 lb uplift at joint 9 and 53 lb uplift at joint 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5, 6, 7, 8, 9, 10.
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down at 2-9-8, 31 lb down and 100 lb up at 2-9-8, 102 lb down and 17 lb up at 5-7-7, 85 lb down and 28 lb up at 5-7-7, 179 lb down and 37 lb up at 8-5-6, 3 lb down and 197 lb up at 14-1-4, 51 lb down and 18 lb up at 16-11-3, 51 lb down and 18 lb up at 19-9-2, 51 lb down and 18 lb up at 22-7-1, and 51 lb down and 18 lb up at 25-5-0, and 53 lb down and 18 lb up at 28-3-0 on top chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

- Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-11=-64
Concentrated Loads (lb)
Vert: 3=-130 (F), 5=37 (B), 6=-2 (B), 7=-2 (B), 8=-2 (B), 9=-2 (B), 10=-3 (B), 12=-13 (F=20, B=-34), 14=-88 (F=-35, B=-53)



November 18, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

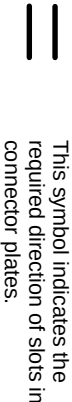
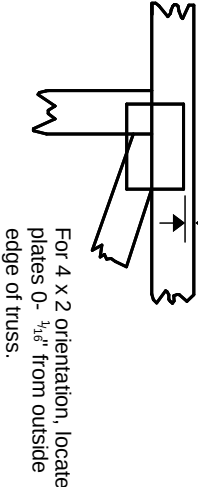
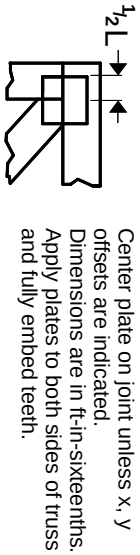
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

MiTek®

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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION

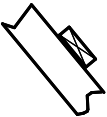


* Plate location details available in MITek software or upon request.

PLATE SIZE

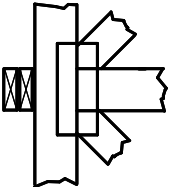
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

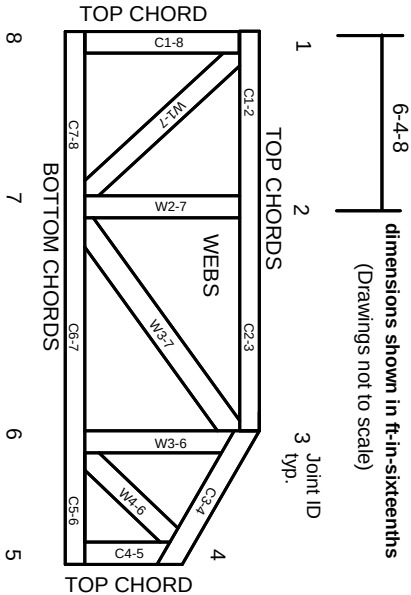
BEARING



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

Industry Standards:
ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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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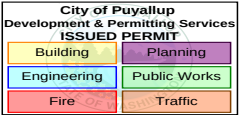


MITek Engineering Reference Sheet: MIL-7473 rev. 1/12/2023

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 Tor I 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.



PRMU20241695