MiTek®

City of Puyallup
Development & Permitting Services
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Engineering | Public Works
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PRMU20240401

These calculations must be on site and made available by the Permittee for all inspections.

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

Re: 4449076
MKM EAST TOWN CROSSING BLDG D

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: R87439331 thru R87439409

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

CHON KELLIE PIERUCCIONI
STATE OF WASHINGTON
42816
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES

XIAOMING ZHAO
STATE OF WASHINGTON
54074
REGISTERED
PROFESSIONAL ENGINEER

April 1,2025
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	MKM EAST TOWN CROSSING BLDG D
4449076	A01	Common	14	1	R87439331
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:40 Page: 1
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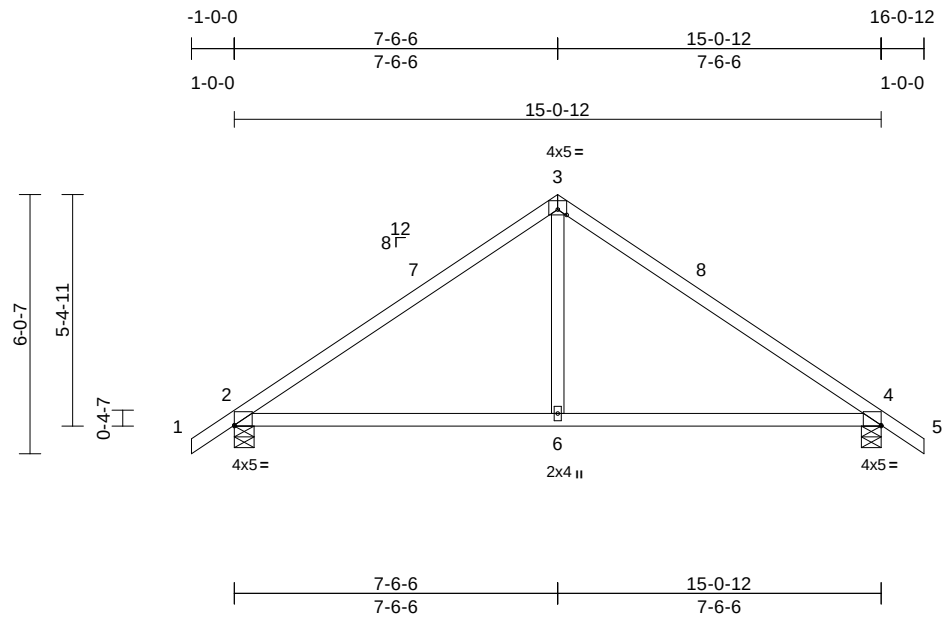

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Plate Offsets (X, Y): [2:Edge,0-0-4], [3:0-2-8,Edge], [4:Edge,0-0-4]

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	0.91	Vert(LL)	-0.08	2-6	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.18	2-6	>959	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.02	4	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 47 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 4=0-5-8
Max Horiz 2=96 (LC 11)
Max Uplift 2=-30 (LC 12), 4=-30 (LC 13)
Max Grav 2=829 (LC 1), 4=829 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/72, 2-3=-901/53, 3-4=-901/53, 4-5=0/72
BOT CHORD 2-6=0/603, 4-6=0/603
WEBS 3-6=0/367

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 7-6-6, Exterior(2R) 7-6-6 to 10-6-6, Interior (1) 10-6-6 to 16-0-12 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
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) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
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 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2 and 30 lb uplift at joint 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	A02	Common Supported Gable	4	1	R87439332
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:41 Page: 1
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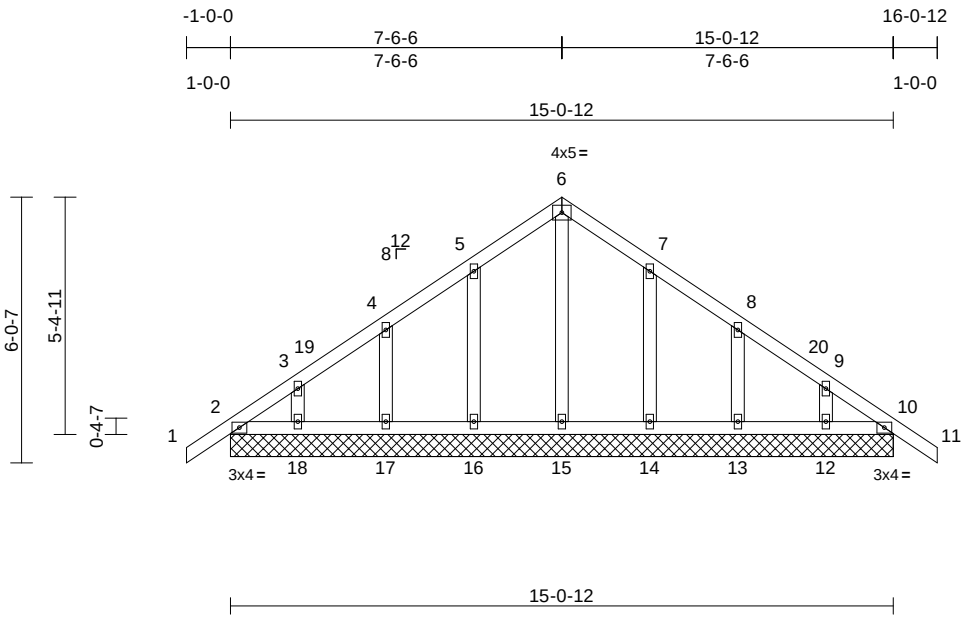

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 63 lb	FT = 10%

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

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

REACTIONS (size) 2=15-0-12, 10=15-0-12, 12=15-0-12, 13=15-0-12, 14=15-0-12, 15=15-0-12, 16=15-0-12, 17=15-0-12, 18=15-0-12
Max Horiz 2=96 (LC 11)
Max Uplift 2=-16 (LC 8), 12=-26 (LC 13), 13=-38 (LC 13), 14=-36 (LC 13), 16=-37 (LC 12), 17=-37 (LC 12), 18=-26 (LC 12)
Max Grav 2=215 (LC 18), 10=215 (LC 18), 12=158 (LC 1), 13=207 (LC 1), 14=207 (LC 1), 15=169 (LC 23), 16=207 (LC 1), 17=207 (LC 1), 18=158 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/68, 2-3=-96/70, 3-4=-93/61, 4-5=-86/63, 5-6=-79/114, 6-7=-77/114, 7-8=-67/63, 8-9=-67/33, 9-10=-77/35, 10-11=0/68
BOT CHORD 2-18=-35/88, 17-18=-35/88, 16-17=-35/88, 15-16=-35/88, 14-15=-35/88, 13-14=-35/88, 12-13=-35/88, 10-12=-35/88
WEBS 6-15=-128/16, 5-16=-168/74, 4-17=-163/79, 3-18=-134/68, 7-14=-168/74, 8-13=-163/79, 9-12=-134/68

NOTES

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 7-6-6, Corner(3R) 7-6-6 to 10-6-6, Exterior(2N) 10-6-6 to 16-0-12 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
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) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) All plates are 2x4 (||) MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2, 37 lb uplift at joint 16, 37 lb uplift at joint 17, 26 lb uplift at joint 18, 36 lb uplift at joint 14, 38 lb uplift at joint 13 and 26 lb uplift at joint 12.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	B01	Common	14	1	R87439333
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:42 Page: 1
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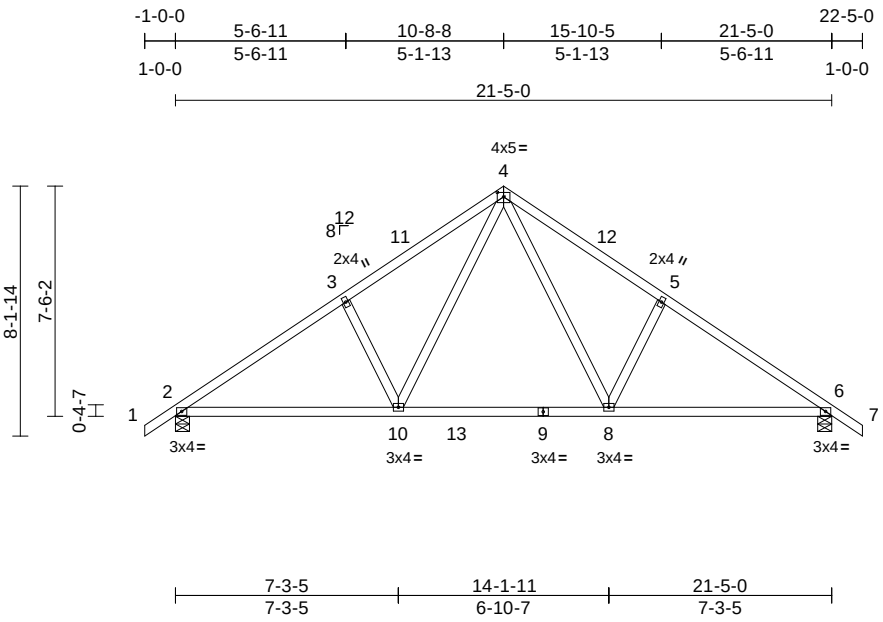

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Plate Offsets (X, Y): [4:0-2-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.09	8-10	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.17	6-8	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.04	6	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 85 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 4-1-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 6=0-5-8
Max Horiz 2=131 (LC 11)
Max Uplift 2=-36 (LC 12), 6=-36 (LC 13)
Max Grav 2=1210 (LC 20), 6=1209 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/72, 2-3=-1554/43, 3-4=-1425/86, 4-5=-1424/86, 5-6=-1554/43, 6-7=0/72
BOT CHORD 2-10=-49/1302, 8-10=0/857, 6-8=0/1219
WEBS 4-8=-50/674, 5-8=-359/142, 4-10=-50/676, 3-10=-359/141

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-8-8, Exterior(2R) 10-8-8 to 13-8-8, Interior (1) 13-8-8 to 22-5-0 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) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
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 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2 and 36 lb uplift at joint 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	B02	Common Supported Gable	4	1	R87439334
					Job Reference (optional)

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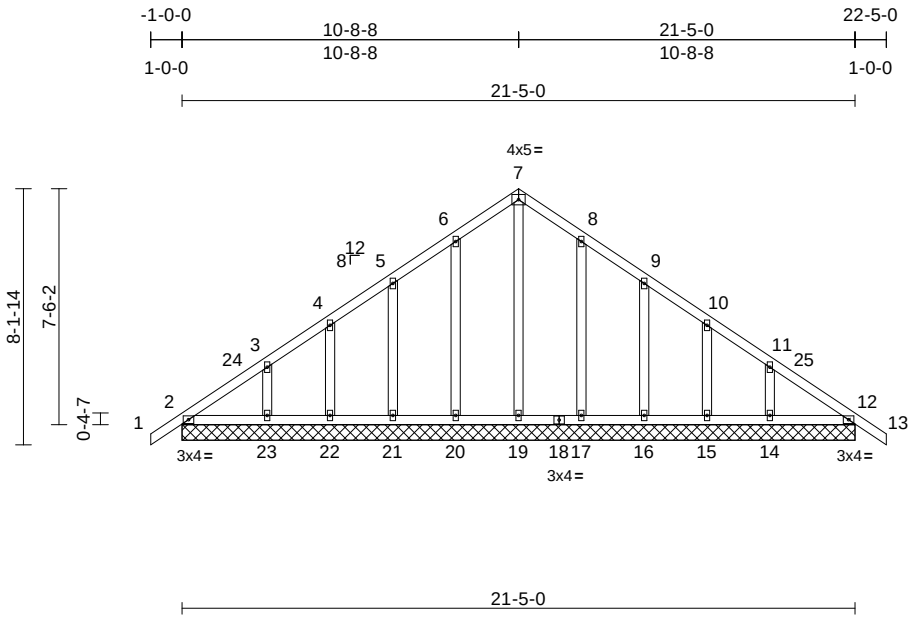

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 100 lb	FT = 10%

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

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

REACTIONS (size) 2=21-5-0, 12=21-5-0, 14=21-5-0, 15=21-5-0, 16=21-5-0, 17=21-5-0, 19=21-5-0, 20=21-5-0, 21=21-5-0, 22=21-5-0, 23=21-5-0
Max Horiz 2=131 (LC 11)
Max Uplift 2=-15 (LC 8), 14=-44 (LC 13), 15=-32 (LC 13), 16=-37 (LC 13), 17=-34 (LC 13), 20=-35 (LC 12), 21=-36 (LC 12), 22=-33 (LC 12), 23=-44 (LC 12)
Max Grav 2=223 (LC 1), 12=223 (LC 1), 14=255 (LC 1), 15=182 (LC 1), 16=203 (LC 1), 17=207 (LC 1), 19=187 (LC 23), 20=207 (LC 1), 21=203 (LC 1), 22=182 (LC 1), 23=255 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/68, 2-3=-134/106, 3-4=-114/76, 4-5=-100/71, 5-6=-92/96, 6-7=-93/134, 7-8=-93/134, 8-9=-70/92, 9-10=-66/48, 10-11=-78/31, 11-12=-110/64, 12-13=0/68
BOT CHORD 2-23=-50/99, 22-23=-50/99, 21-22=-50/99, 20-21=-50/99, 19-20=-50/99, 17-19=-50/99, 16-17=-50/99, 15-16=-50/99, 14-15=-50/99, 12-14=-50/99
WEBS 7-19=-147/40, 6-20=-168/59, 5-21=-161/63, 4-22=-149/56, 3-23=-197/74, 8-17=-168/58, 9-16=-161/63, 10-15=-149/56, 11-14=-197/74

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-8-8, Corner(3R) 10-8-8 to 13-8-8, Exterior(2N) 13-8-8 to 22-5-0 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) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) All plates are 2x4 (||) MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 2, 35 lb uplift at joint 20, 36 lb uplift at joint 21, 33 lb uplift at joint 22, 44 lb uplift at joint 23, 34 lb uplift at joint 17, 37 lb uplift at joint 16, 32 lb uplift at joint 15 and 44 lb uplift at joint 14.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D	R87439335
4449076	C01	Common	14	1	Job Reference (optional)	

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:42 Page: 1
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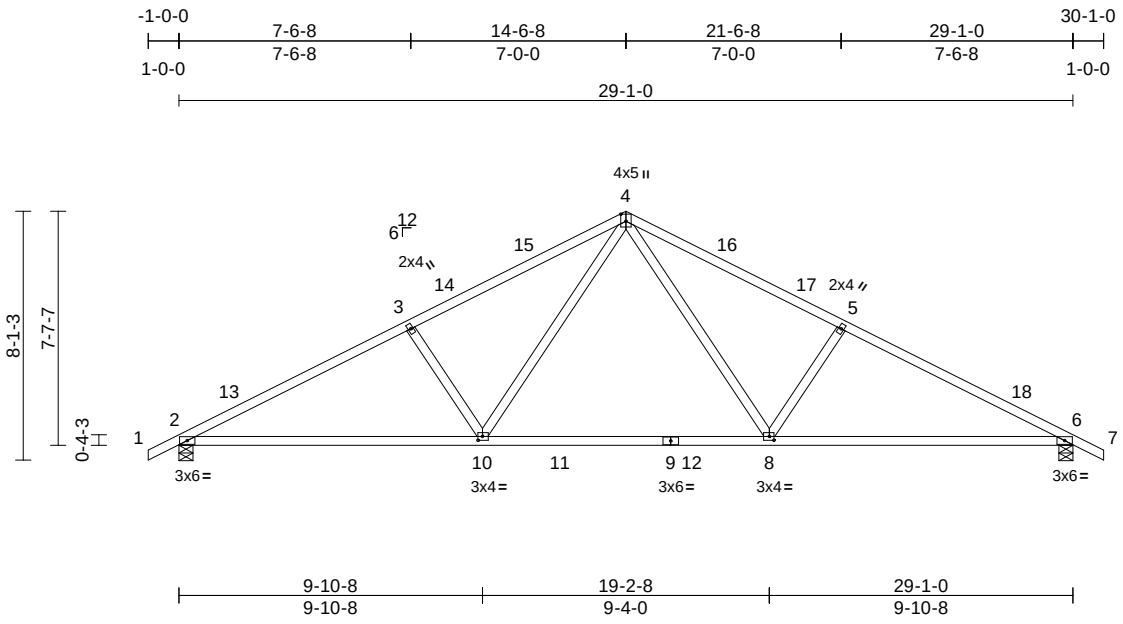

Scale = 1:74.9

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

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	0.79	Vert(LL)	-0.23	8-10	>999	240	MT20	220/195
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.46	6-8	>740	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.08	6	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 116 lb	FT = 10%

LUMBER
TOP CHORD 2x4 DF 1800F 1.6E
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2

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

REACTIONS (size) 2=0-5-8, 6=0-5-8
Max Horiz 2=-88 (LC 19)
Max Uplift 2=-50 (LC 14), 6=-50 (LC 15)
Max Grav 2=1584 (LC 3), 6=1584 (LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-2615/79, 3-4=-2359/95, 4-5=-2359/95, 5-6=-2615/79, 6-7=0/56
BOT CHORD 2-10=-84/2264, 8-10=0/1485, 6-8=-9/2264
WEBS 4-8=-35/1009, 5-8=-650/169, 4-10=-35/1009, 3-10=-650/169

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 14-6-8, Exterior(2R) 14-6-8 to 17-6-8, Interior (1) 17-6-8 to 30-1-0 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 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, with BCDL = 10.0psf.
7) All bearings are assumed to be HF No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2 and 50 lb uplift at joint 6.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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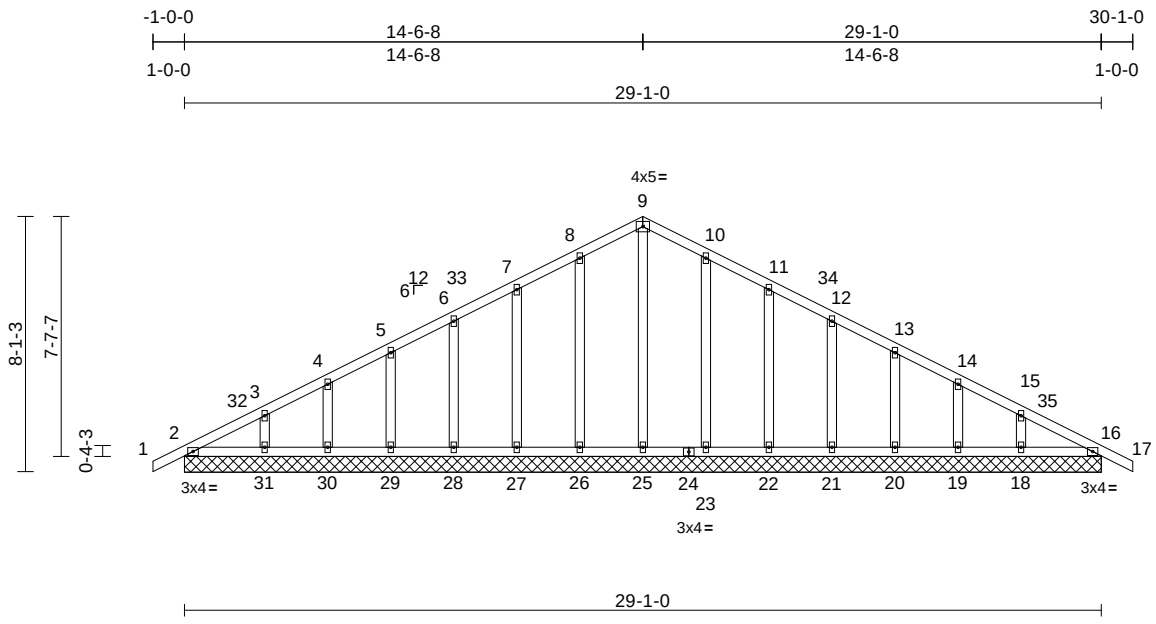
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	C02	Common Supported Gable	4	1	R87439336
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:43 Page: 1
ID:w3OFLoyjO0wEDycBJm8rgRzjrxb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:73.1

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 133 lb	FT = 10%

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

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

REACTIONS (size) 2=29-1-0, 16=29-1-0, 18=29-1-0, 19=29-1-0, 20=29-1-0, 21=29-1-0, 22=29-1-0, 23=29-1-0, 25=29-1-0, 26=29-1-0, 27=29-1-0, 28=29-1-0, 29=29-1-0, 30=29-1-0, 31=29-1-0
Max Horiz 2=-88 (LC 15)
Max Uplift 2=-8 (LC 15), 18=-28 (LC 15), 19=-24 (LC 15), 20=-25 (LC 15), 21=-25 (LC 15), 22=-26 (LC 15), 23=-24 (LC 15), 26=-25 (LC 14), 27=-26 (LC 14), 28=-25 (LC 14), 29=-25 (LC 14), 30=-24 (LC 14), 31=-29 (LC 14)
Max Grav 2=217 (LC 20), 16=217 (LC 20), 18=241 (LC 1), 19=188 (LC 22), 20=203 (LC 1), 21=223 (LC 22), 22=276 (LC 22), 23=292 (LC 22), 25=189 (LC 27), 26=292 (LC 21), 27=276 (LC 21), 28=223 (LC 21), 29=203 (LC 1), 30=188 (LC 21), 31=241 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/55, 2-3=-114/56, 3-4=-89/55, 4-5=-71/65, 5-6=-59/79, 6-7=-61/95, 7-8=-71/129, 8-9=-89/160, 9-10=-89/160, 10-11=-71/129, 11-12=-61/95, 12-13=-51/63, 13-14=-51/32, 14-15=-61/23, 15-16=-86/34, 16-17=0/55
BOT CHORD 2-31=-42/93, 30-31=-42/93, 29-30=-42/93, 28-29=-42/93, 27-28=-42/93, 26-27=-42/93, 25-26=-42/93, 23-25=-42/93, 22-23=-42/93, 21-22=-42/93, 20-21=-42/93, 19-20=-42/93, 18-19=-42/93, 16-18=-42/93
WEBS 9-25=-149/28, 8-26=-252/53, 7-27=-236/58, 6-28=-184/55, 5-29=-162/57, 4-30=-153/54, 3-31=-188/74, 10-23=-252/53, 11-22=-236/58, 12-21=-184/55, 13-20=-162/57, 14-19=-153/54, 15-18=-188/74

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 14-6-8, Corner(3R) 14-6-8 to 17-6-8, Exterior(2N) 17-6-8 to 30-1-0 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) Gable requires continuous bottom chord bearing.
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 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 2, 25 lb uplift at joint 26, 26 lb uplift at joint 27, 25 lb uplift at joint 28, 25 lb uplift at joint 29, 24 lb uplift at joint 30, 29 lb uplift at joint 31, 24 lb uplift at joint 23, 26 lb uplift at joint 22, 25 lb uplift at joint 21, 25 lb uplift at joint 20, 24 lb uplift at joint 19 and 28 lb uplift at joint 18.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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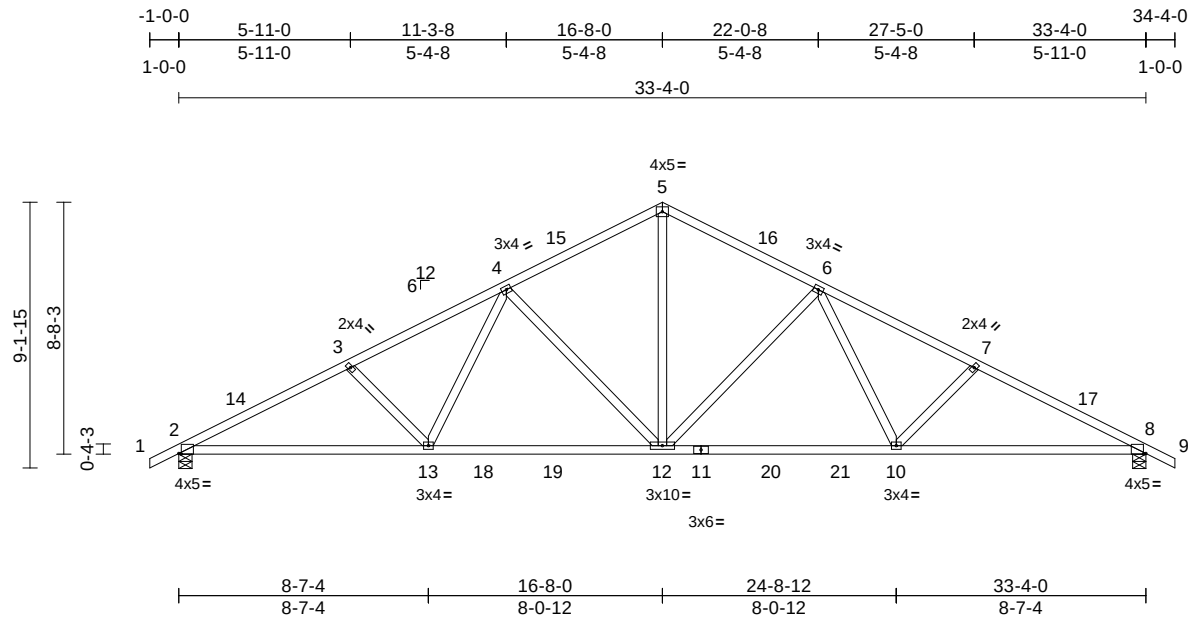
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439337
4449076	D01	Common	7	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:43 Page: 1
ID:W1mzrOKA5YqrRjT8dnC6Q_zjrx6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:79.4

Plate Offsets (X, Y): [2:0-1-0,Edge], [8:0-1-0,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	0.72	Vert(LL)	-0.24	12-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.45	12-13	>886	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.14	8	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 135 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 2-2-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 2=0-5-8, 8=0-5-8
Max Horiz 2=-100 (LC 19)
Max Uplift 2=-55 (LC 14), 8=-55 (LC 15)
Max Grav 2=1804 (LC 2), 8=1804 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-3144/85, 3-4=-2898/72, 4-5=-2025/109, 5-6=-2025/109, 6-7=-2898/72, 7-8=-3144/86, 8-9=0/56
BOT CHORD 2-13=-116/2733, 12-13=-39/2250, 10-12=0/2250, 8-10=-16/2733
WEBS 5-12=-7/1396, 6-12=-857/125, 6-10=0/623, 7-10=-373/120, 4-12=-857/125, 4-13=0/623, 3-13=-373/120

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-4-0, Interior (1) 2-4-0 to 16-8-0, Exterior(2R) 16-8-0 to 20-0-0, Interior (1) 20-0-0 to 34-4-0 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 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, with BCDL = 10.0psf.
7) All bearings are assumed to be HF No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2 and 55 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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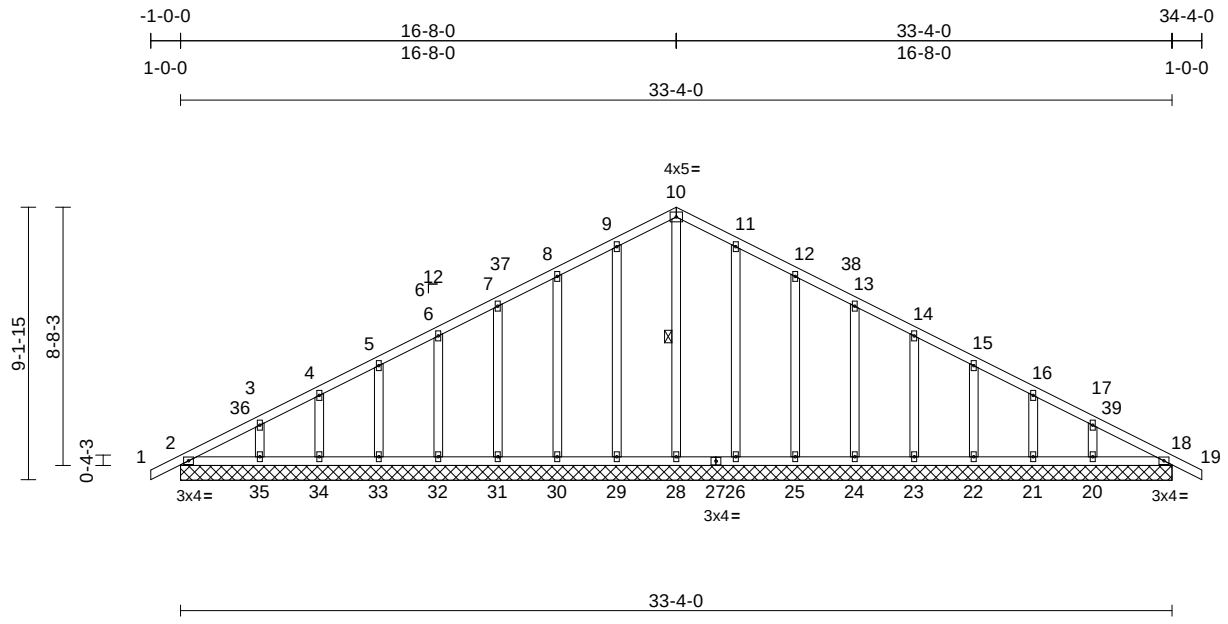
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439338
4449076	D02	Common Supported Gable	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:43 Page: 1
ID:aBi3ZLjFZNsIGewIVVncjjzjrwc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:77.5

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	18	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 162 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 10-28

REACTIONS (size) 2=33-4-0, 18=33-4-0, 20=33-4-0, 21=33-4-0, 22=33-4-0, 23=33-4-0, 24=33-4-0, 25=33-4-0, 26=33-4-0, 28=33-4-0, 29=33-4-0, 30=33-4-0, 31=33-4-0, 32=33-4-0, 33=33-4-0, 34=33-4-0, 35=33-4-0
Max Horiz 2=-100 (LC 15)
Max Uplift 2=-8 (LC 15), 20=-30 (LC 15), 21=-24 (LC 15), 22=-25 (LC 15), 23=-25 (LC 15), 24=-24 (LC 15), 25=-27 (LC 15), 26=-22 (LC 15), 29=-24 (LC 14), 30=-26 (LC 14), 31=-25 (LC 14), 32=-25 (LC 14), 33=-25 (LC 14), 34=-24 (LC 14), 35=-30 (LC 14)
Max Grav 2=218 (LC 20), 18=218 (LC 20), 20=252 (LC 22), 21=183 (LC 1), 22=205 (LC 22), 23=199 (LC 1), 24=224 (LC 22), 25=276 (LC 22), 26=292 (LC 22), 28=197 (LC 27), 29=292 (LC 21), 30=276 (LC 21), 31=224 (LC 21), 32=199 (LC 1), 33=205 (LC 21), 34=183 (LC 1), 35=252 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/55, 2-3=-127/61, 3-4=-100/59, 4-5=-81/69, 5-6=-66/81, 6-7=-58/97, 7-8=-65/119, 8-9=-84/152, 9-10=-102/183, 10-11=-102/183, 11-12=-84/152, 12-13=-65/119, 13-14=-51/87, 14-15=-52/54, 15-16=-50/32, 16-17=-68/23, 17-18=-94/39, 18-19=0/55
BOT CHORD 2-35=-48/105, 34-35=-48/105, 33-34=-48/105, 32-33=-48/105, 31-32=-48/105, 30-31=-48/105, 29-30=-48/105, 28-29=-48/105, 26-28=-48/105, 25-26=-48/105, 24-25=-48/105, 23-24=-48/105, 22-23=-48/105, 21-22=-48/105, 20-21=-48/105, 18-20=-48/105
WEBS 10-28=-157/38, 9-29=-252/51, 8-30=-236/58, 7-31=-184/55, 6-32=-159/56, 5-33=-163/57, 4-34=-149/53, 3-35=-195/82, 11-26=-252/51, 12-25=-236/58, 13-24=-184/55, 14-23=-159/56, 15-22=-163/57, 16-21=-149/53, 17-20=-195/82

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-4-0, Exterior(2N) 2-4-0 to 16-8-0, Corner(3R) 16-8-0 to 20-0-0, Exterior(2N) 20-0-0 to 34-4-0 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) Gable requires continuous bottom chord bearing.
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 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 2, 24 lb uplift at joint 29, 26 lb uplift at joint 30, 25 lb uplift at joint 31, 25 lb uplift at joint 32, 25 lb uplift at joint 33, 24 lb uplift at joint 34, 30 lb uplift at joint 35, 22 lb uplift at joint 26, 27 lb uplift at joint 25, 24 lb uplift at joint 24, 25 lb uplift at joint 23, 25 lb uplift at joint 22, 24 lb uplift at joint 21 and 30 lb uplift at joint 20.

April 1,2025

Continued on page 2

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13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	J01	Jack-Open Supported Gable	2	1	R87439339
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:43 Page: 1
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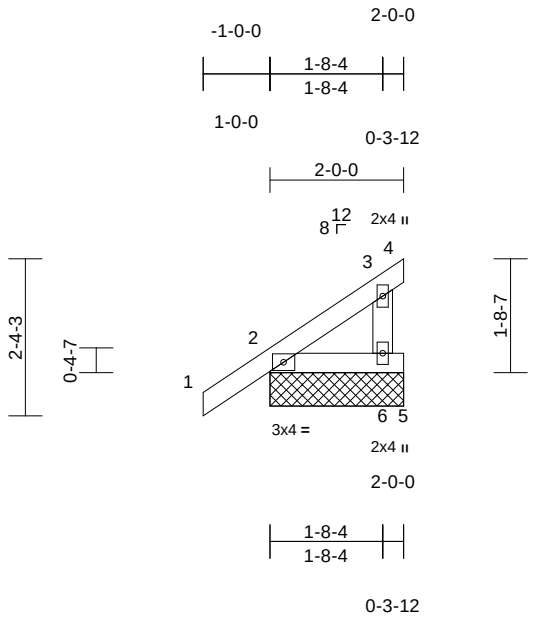

Scale = 1:34.5

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=2-0-0, 5=2-0-0, 6=2-0-0
Max Horiz 2=49 (LC 12)
Max Uplift 2=-13 (LC 12), 5=-32 (LC 3), 6=-2 (LC 12)
Max Grav 2=203 (LC 18), 5=-10 (LC 8), 6=114 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/68, 2-3=-55/28, 3-4=-23/0
BOT CHORD 2-6=0/0, 5-6=0/0
WEBS 3-6=-71/81

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 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) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
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 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 2, 32 lb uplift at joint 5 and 2 lb uplift at joint 6.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	J02	Jack-Closed	10	1	R87439340
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:44
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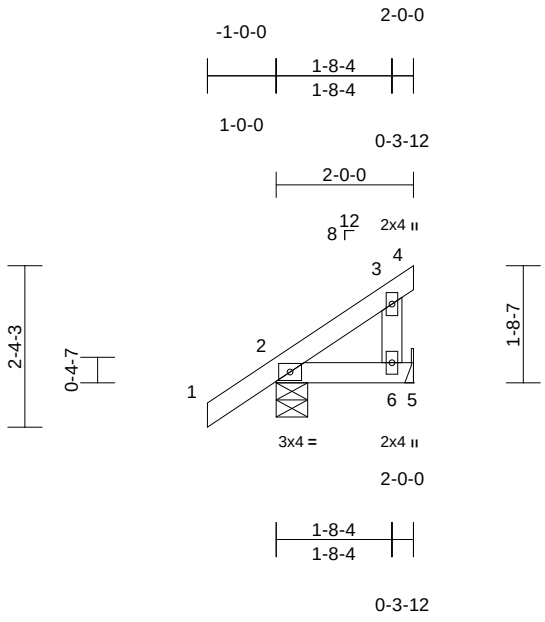

Scale = 1:33.6

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	0.14	Vert(LL)	0.00	2-6	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-6	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 5= Mechanical
Max Horiz 2=49 (LC 12)
Max Uplift 2=-14 (LC 12), 5=-11 (LC 12)
Max Grav 2=223 (LC 18), 5=76 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/69, 2-3=-55/26, 3-4=-23/0
BOT CHORD 2-6=0/0, 5-6=0/0
WEBS 3-6=-66/49

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
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 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 2 and 11 lb uplift at joint 5.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	L01	Flat Girder	2	3	R87439341
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:44 Page: 1
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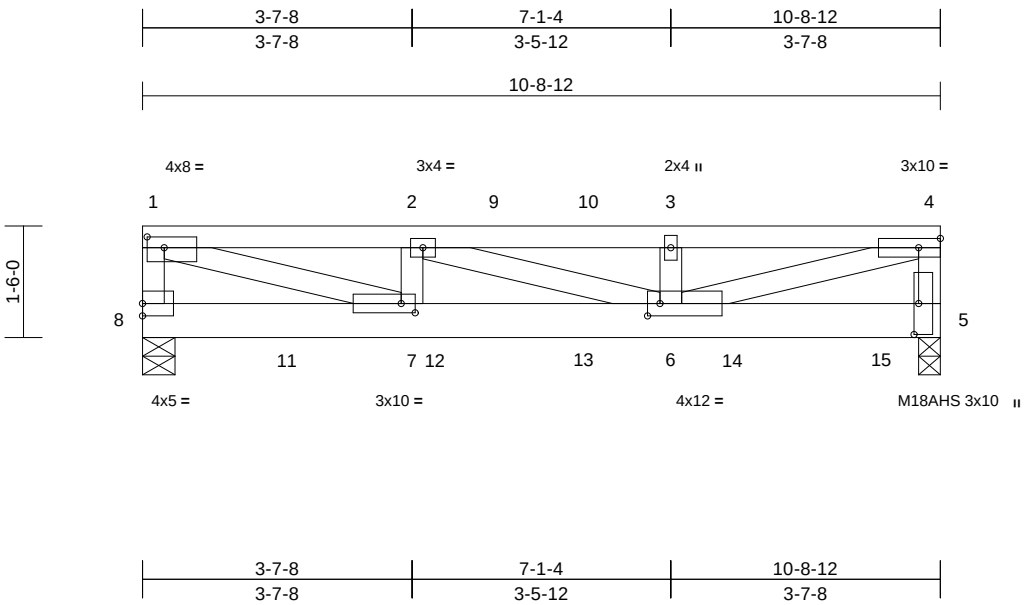

Scale = 1:31

Plate Offsets (X, Y): [1:0-2-12,0-1-12], [5:0-5-0,0-0-12], [6:0-2-0,0-2-0], [7:0-2-4,0-1-8]

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	0.53	Vert(LL)	-0.09	6-7	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.23	6-7	>547	180	M18AHS	145/140
TCDL	15.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 151 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5=0-3-8, 8=0-5-4
Max Horiz 8=-28 (LC 6)
Max Grav 5=5853 (LC 1), 8=4967 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-3870/0, 1-2=-11178/0, 2-3=-10878/0, 3-4=-10878/0, 4-5=-3770/0
BOT CHORD 7-8=0/765, 6-7=0/11178, 5-6=0/849
WEBS 4-6=0/10540, 2-7=-782/0, 1-7=0/10944, 2-6=-315/0, 3-6=-808/0

NOTES
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-6-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) 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.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates 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 .
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1544 lb down and 143 lb up at 1-11-4, 61 lb down and 21 lb up at 2-0-8, 1544 lb down and 143 lb up at 3-11-4, 61 lb down and 21 lb up at 4-0-8, 1544 lb down and 143 lb up at 5-11-4, 61 lb down and 21 lb up at 6-0-8, 1544 lb down and 143 lb up at 7-11-4, 61 lb down and 21 lb up at 8-0-8, and 1548 lb down and 141 lb up at 9-11-4, and 65 lb down and 19 lb up at 10-0-8 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: 1-4=-248, 5-8=-20
Concentrated Loads (lb)
Vert: 11=-1603 (F=-1544, B=-58), 12=-1603 (F=-1544, B=-58), 13=-1603 (F=-1544, B=-58), 14=-1603 (F=-1544, B=-58), 15=-1610 (F=-1548, B=-62)

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	M01	Monopitch	4	1	R87439342
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:44 Page: 1
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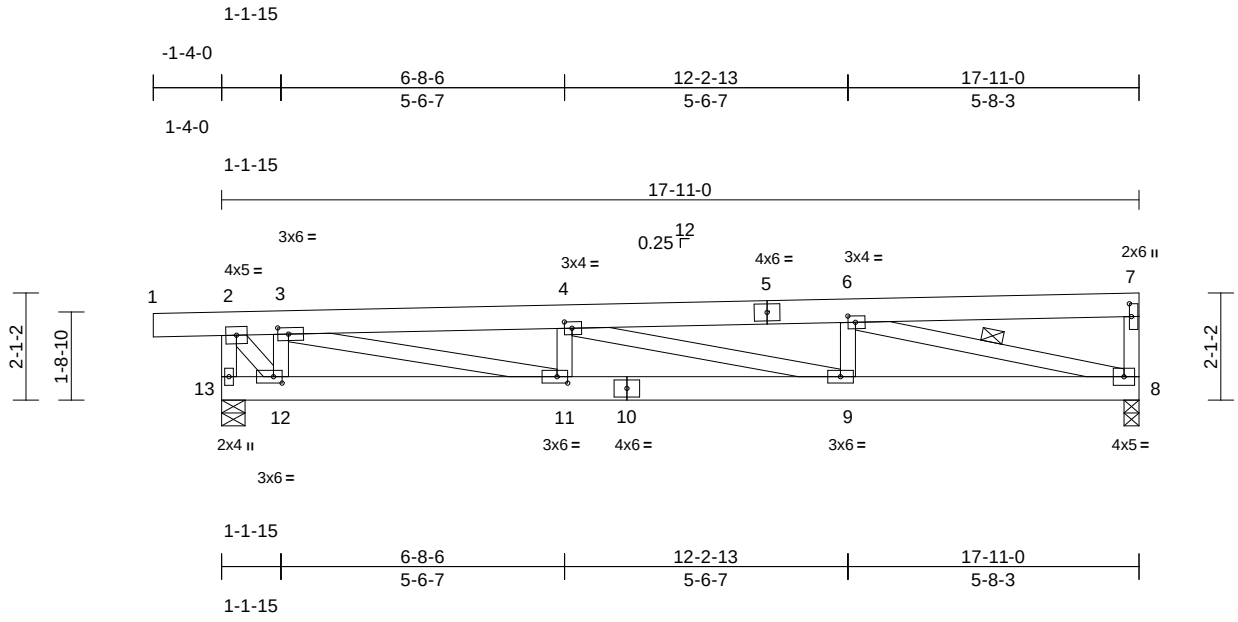

Scale = 1:45

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

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	0.24	Vert(LL)	-0.10	9-11	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.21	9-11	>998	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 105 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-2-3 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS (size) 8=0-3-8, 13=0-5-8
Max Horiz 13=41 (LC 9)
Max Uplift 8=-50 (LC 12), 13=-93 (LC 8)
Max Grav 8=876 (LC 1), 13=1005 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-13=-1087/290, 1-2=0/4, 2-3=-888/246, 3-4=-2507/690, 4-6=-2232/626, 6-7=-116/50, 7-8=-215/100
BOT CHORD 12-13=-75/79, 11-12=-293/890, 9-11=-729/2501, 8-9=-642/2228
WEBS 3-12=-851/324, 4-11=-315/186, 6-9=0/274, 6-8=-2195/618, 4-9=-281/90, 3-11=-465/1653, 2-12=-366/1348

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 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.
4) Provide adequate drainage to prevent water ponding.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 13 and 50 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	M02	Monopitch Supported Gable	2	1	R87439343
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:44 Page: 1
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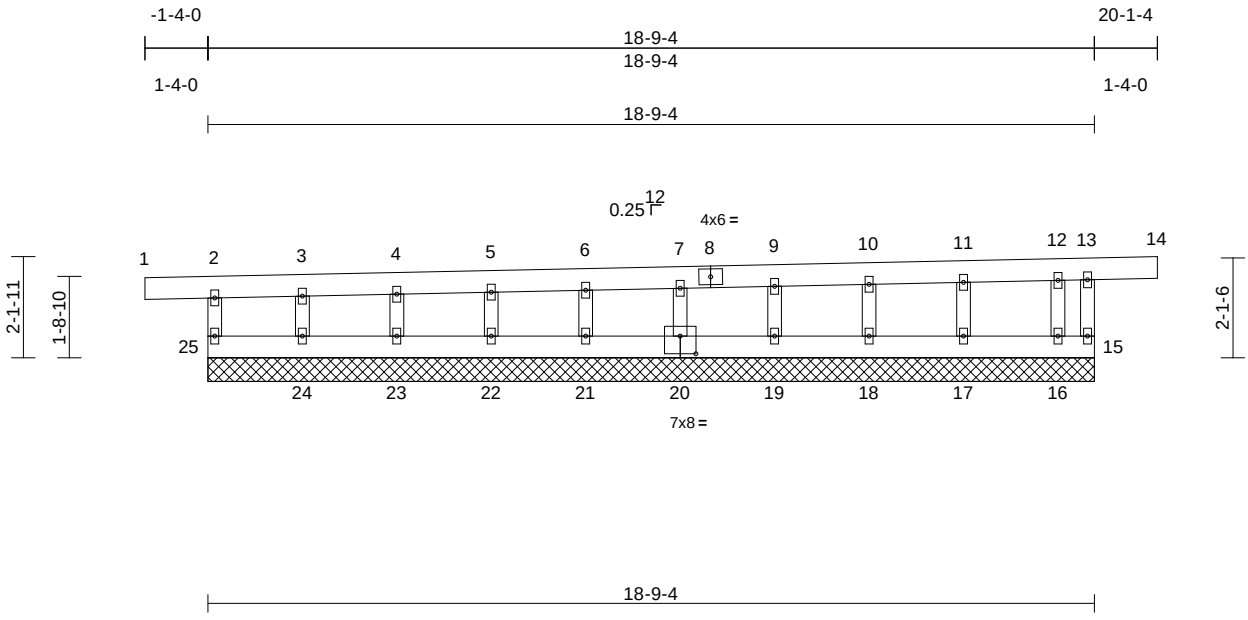

Scale = 1:48.8

Plate Offsets (X, Y): [20:0-4-0,0-4-8]

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 99 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 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) 15=18-9-4, 16=18-9-4, 17=18-9-4, 18=18-9-4, 19=18-9-4, 20=18-9-4, 21=18-9-4, 22=18-9-4, 23=18-9-4, 24=18-9-4, 25=18-9-4
Max Horiz 25=42 (LC 9)
Max Uplift 15=-62 (LC 9), 16=-29 (LC 18), 17=-10 (LC 8), 18=-13 (LC 12), 19=-12 (LC 12), 20=-12 (LC 12), 21=-12 (LC 8), 22=-11 (LC 12), 23=-16 (LC 8), 24=-4 (LC 9), 25=-65 (LC 8)
Max Grav 15=323 (LC 18), 16=86 (LC 21), 17=192 (LC 1), 18=203 (LC 1), 19=200 (LC 1), 20=200 (LC 1), 21=200 (LC 1), 22=199 (LC 1), 23=208 (LC 1), 24=155 (LC 1), 25=308 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-25=-294/99, 1-2=0/4, 2-3=-18/14, 3-4=-16/15, 4-5=-14/14, 5-6=-12/14, 6-7=-10/14, 7-9=-9/14, 9-10=-8/14, 10-11=-8/15, 11-12=-8/17, 12-13=-7/17, 13-14=-4/0, 13-15=-335/110
BOT CHORD 24-25=-34/35, 23-24=-34/35, 22-23=-34/35, 21-22=-34/35, 19-21=-34/35, 18-19=-34/35, 17-18=-34/35, 16-17=-34/35, 15-16=-34/35
WEBS 3-24=-112/74, 4-23=-169/82, 5-22=-159/78, 6-21=-160/78, 7-20=-160/78, 9-19=-159/77, 10-18=-163/79, 11-17=-151/75, 12-16=-40/73

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
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 2x4 (||) MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) All bearings are assumed to be HF No.2 .
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 25, 62 lb uplift at joint 15, 4 lb uplift at joint 24, 16 lb uplift at joint 23, 11 lb uplift at joint 22, 12 lb uplift at joint 21, 12 lb uplift at joint 20, 12 lb uplift at joint 19, 13 lb uplift at joint 18, 10 lb uplift at joint 17 and 29 lb uplift at joint 16.
14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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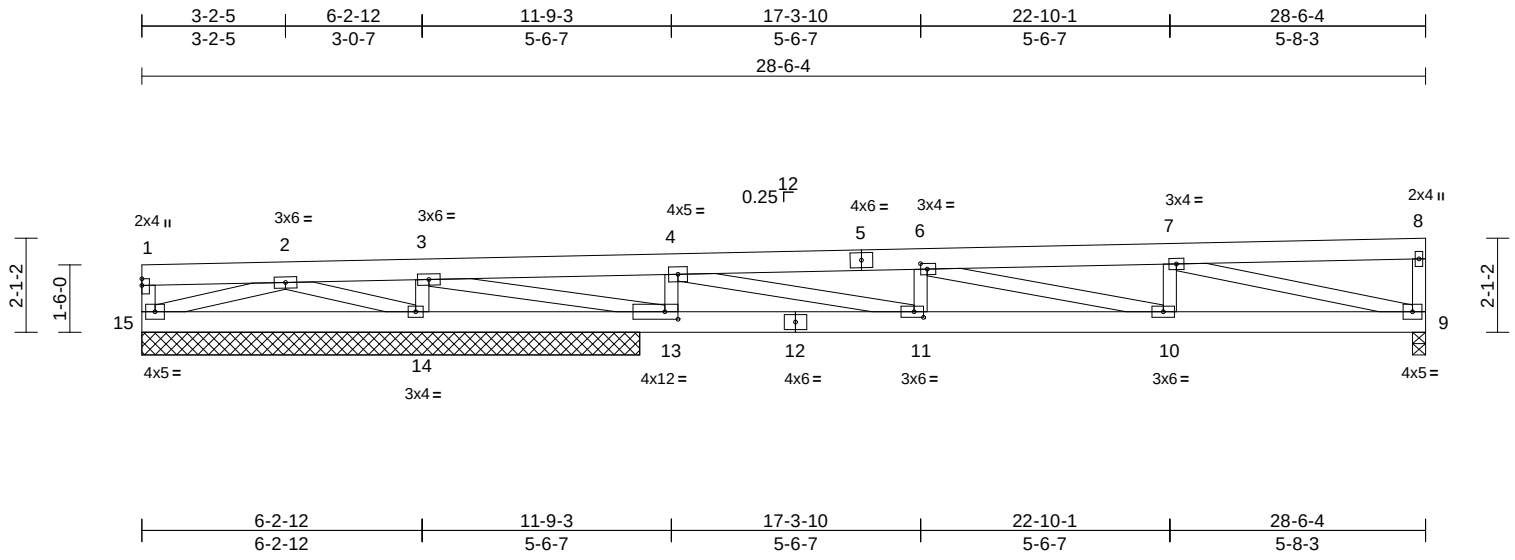
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	M03	Monopitch Structural Gable	2	3	R87439344
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:45 ID:ukc4irWS5moaRDsyr4OiAEziuvH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51.2

Plate Offsets (X, Y): [6:0-1-12,0-1-8], [11:0-2-8,0-1-8], [13:0-3-8,0-2-0]

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	0.50	Vert(LL)	-0.05	10-11	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.11	10-11	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 478 lb	FT = 10%

LUMBER

TOP CHORD 2x6 DF No.2 *Except* 1-5:2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 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) 9=0-3-8, 13=11-0-12, 14=11-0-12, 15=11-0-12
Max Horiz 15=41 (LC 9)
Max Uplift 9=-57 (LC 12), 13=-445 (LC 8), 14=-330 (LC 12), 15=-148 (LC 8)
Max Grav 9=969 (LC 1), 13=7541 (LC 1), 14=5718 (LC 1), 15=2472 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-1539/313, 1-2=-328/63, 2-3=-228/1031, 3-4=-301/1477, 4-6=-3395/647, 6-7=-2542/492, 7-8=-126/43, 8-9=-238/81
BOT CHORD 14-15=-576/2662, 13-14=-988/203, 11-13=-1416/279, 10-11=-637/3332, 9-10=-489/2535
WEBS 3-14=-4372/898, 4-13=-7097/1416, 6-11=-1215/312, 7-10=0/418, 7-9=-2501/470, 6-10=-879/154, 4-11=-908/4875, 3-13=-438/78, 2-15=-2518/538, 2-14=-3885/797

NOTES

1) 3-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, 2x6 - 2 rows staggered 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) 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.
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 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 15, 57 lb uplift at joint 9, 330 lb uplift at joint 14 and 445 lb uplift at joint 13.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-956, 5-8=-80, 9-15=-20

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439345
4449076	M04	Monopitch Girder	14	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:45 Page: 1
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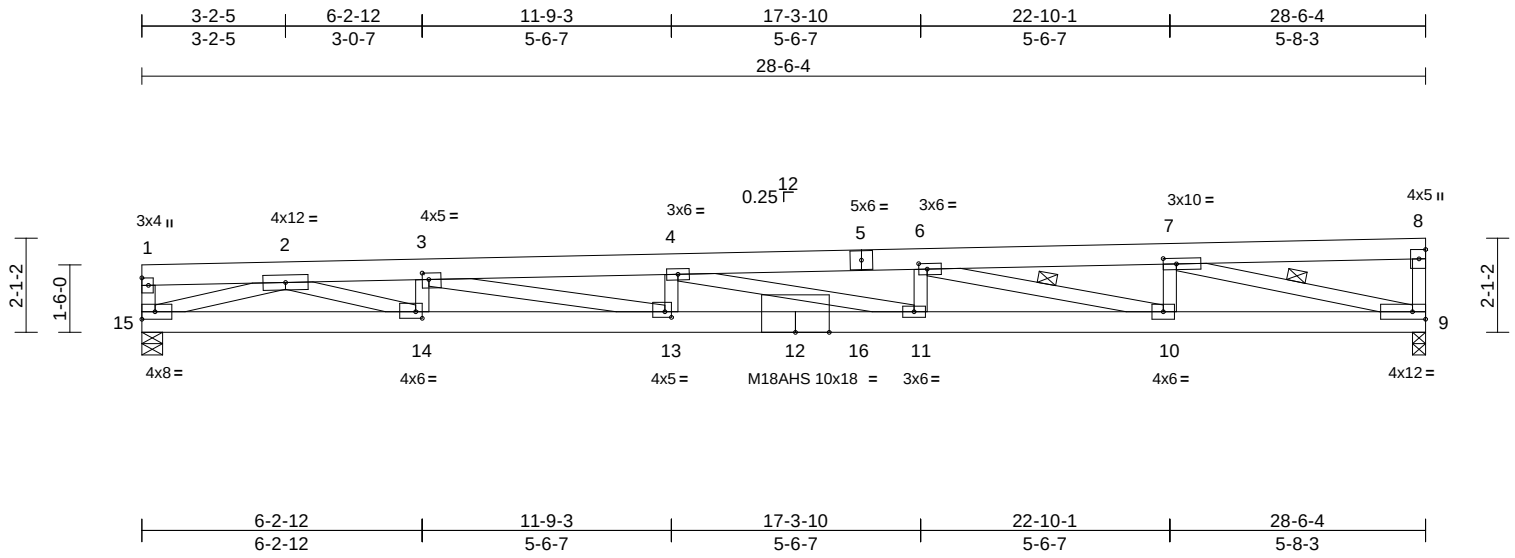

Scale = 1:51.2

Plate Offsets (X, Y): [3:0-1-12,0-1-12], [6:0-2-4,0-1-8], [7:0-3-8,0-1-8], [8:Edge,0-3-8], [13:0-1-12,0-1-8], [14:0-1-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.55	11-13	>616	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.88	Vert(CT)	-1.24	11-13	>274	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.13	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 159 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-10, 7-9

REACTIONS (size) 9=0-3-8, 15=0-5-8
Max Horiz 15=41 (LC 7)
Max Uplift 9=-145 (LC 8), 15=-132 (LC 4)
Max Grav 9=1628 (LC 1), 15=1582 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-213/35, 8-9=-230/44, 1-2=-237/8, 2-3=-6560/569, 3-4=-8745/860, 4-6=-8414/876, 6-7=-4877/467, 7-8=-194/27
BOT CHORD 14-15=-341/3714, 13-14=-561/6558, 11-13=-849/8739, 10-11=-862/8410, 9-10=-450/4873
WEBS 3-14=-942/162, 2-14=-234/3028, 2-15=-3704/363, 3-13=-295/2386, 4-13=-300/100, 4-11=-497/330, 6-11=-22/659, 6-10=-3748/425, 7-10=-20/957, 7-9=-4857/460

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 15 and 145 lb uplift at joint 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 319 lb down and 61 lb up at 15-11-4, and 319 lb down and 61 lb up at 15-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) 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: 9-15=-20, 1-8=-80
Concentrated Loads (lb)
Vert: 16=-387 (F=-193, B=-193)

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439346
4449076	M05	Monopitch Girder	4	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:45 Page: 1
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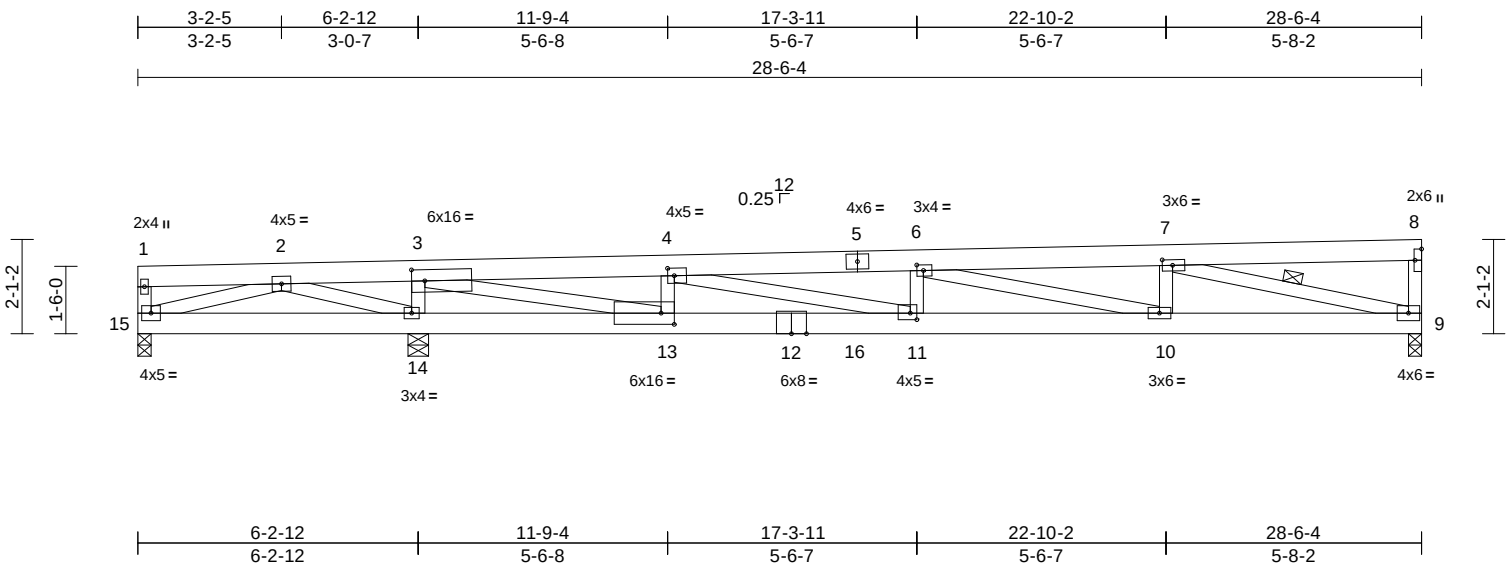

Scale = 1:51.2

Plate Offsets (X, Y): [3:0-3-8,0-3-0], [4:0-1-12,0-2-0], [6:0-1-12,0-1-8], [7:0-2-12,0-1-8], [8:Edge,0-3-8], [11:0-1-12,0-1-12], [13:0-3-8,0-3-0]

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	0.91	Vert(LL)	-0.24	11-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.53	11-13	>504	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 159 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2 *Except* 12-9:2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-2 oc bracing.
WEBS 1 Row at midpt 7-9

REACTIONS (size) 9=0-3-8, 14=0-5-8, 15=0-3-8
Max Horiz 15=41 (LC 7)
Max Uplift 9=-97 (LC 8), 14=-220 (LC 8), 15=-318 (LC 2)
Max Grav 9=1118 (LC 1), 14=2366 (LC 1), 15=41 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-116/32, 8-9=-218/43, 1-2=-23/69, 2-3=-235/2147, 3-4=-2408/267, 4-6=-4612/516, 6-7=-3064/299, 7-8=-143/22
BOT CHORD 14-15=-1152/106, 13-14=-2140/243, 11-13=-255/2401, 10-11=-501/4608, 9-10=-281/3060
WEBS 3-14=-1704/233, 2-14=-1074/146, 2-15=-82/1155, 4-13=-842/150, 3-13=-508/4642, 4-11=-252/2265, 6-11=-157/389, 6-10=-1657/227, 7-10=0/449, 7-9=-3029/290

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 318 lb uplift at joint 15, 97 lb uplift at joint 9 and 220 lb uplift at joint 14.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 319 lb down and 61 lb up at 15-11-4, and 319 lb down and 61 lb up at 15-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
10) 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: 9-15=-20, 1-8=-80
Concentrated Loads (lb)
Vert: 16=-387 (F=-193, B=-193)

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	M07	Monopitch Girder	8	1	R87439347
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:46 Page: 1
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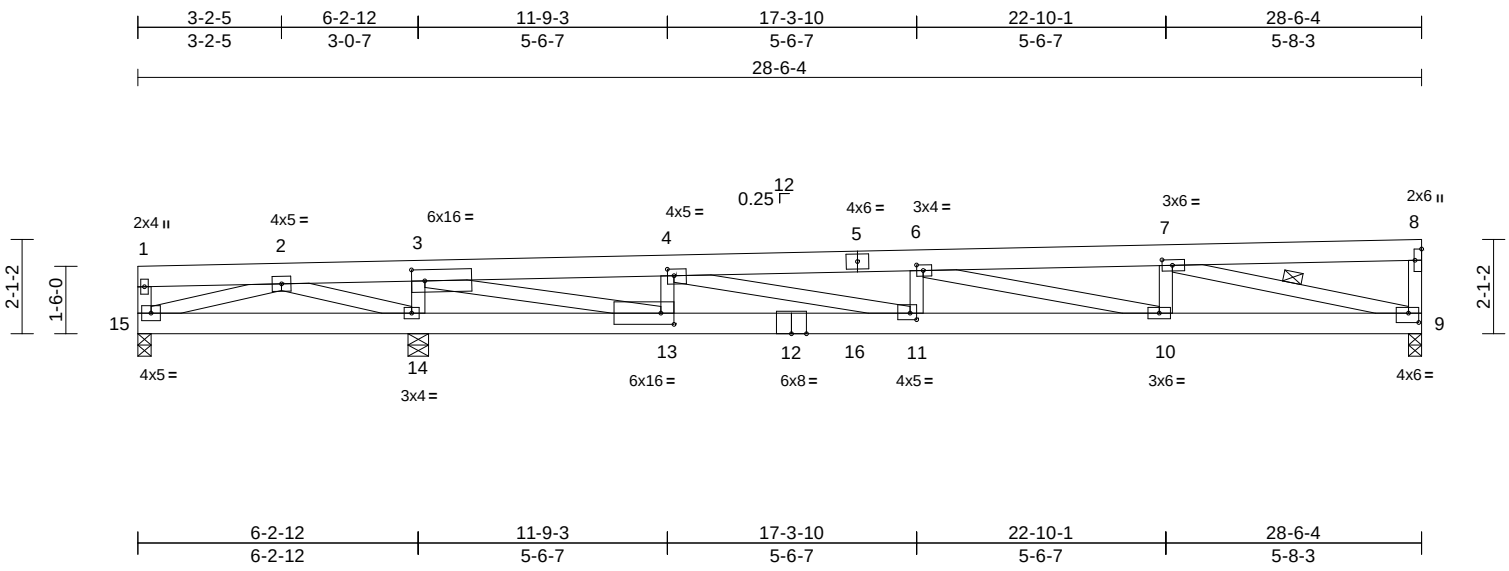

Scale = 1:51.2

Plate Offsets (X, Y): [3:0-3-8,0-3-0], [4:0-1-12,0-1-12], [6:0-1-12,0-1-8], [7:0-2-12,0-1-8], [8:Edge,0-3-8], [9:0-2-12,0-2-8], [11:0-1-12,0-1-12], [13:0-3-8,0-3-0]

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	0.94	Vert(LL)	-0.25	11-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.55	11-13	>480	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 159 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-12 oc bracing.
WEBS 1 Row at midpt 7-9

REACTIONS (size) 9=0-3-8, 14=0-5-8, 15=0-3-8
Max Horiz 15=41 (LC 33)
Max Uplift 9=-96 (LC 8), 14=-224 (LC 8), 15=-351 (LC 2)
Max Grav 9=1109 (LC 1), 14=2407 (LC 1), 15=44 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-114/33, 1-2=-23/74, 2-3=-251/2301, 3-4=-2297/256, 4-6=-4557/511, 6-7=-3043/296, 7-8=-140/21, 8-9=-219/43
BOT CHORD 14-15=-1237/115, 13-14=-2294/259, 11-13=-244/2290, 10-11=-496/4553, 9-10=-278/3039
WEBS 3-14=-1718/235, 2-14=-1146/154, 2-15=-91/1240, 3-13=-513/4685, 4-13=-857/152, 4-11=-259/2323, 6-11=-162/390, 6-10=-1624/224, 7-10=0/444, 7-9=-3011/288

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 15, 96 lb uplift at joint 9 and 224 lb uplift at joint 14.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 319 lb down and 61 lb up at 15-11-4, and 319 lb down and 61 lb up at 15-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
10) 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: 1-8=-80, 9-15=-20
Concentrated Loads (lb)
Vert: 16=-387 (F=-193, B=-193)

April 1,2025

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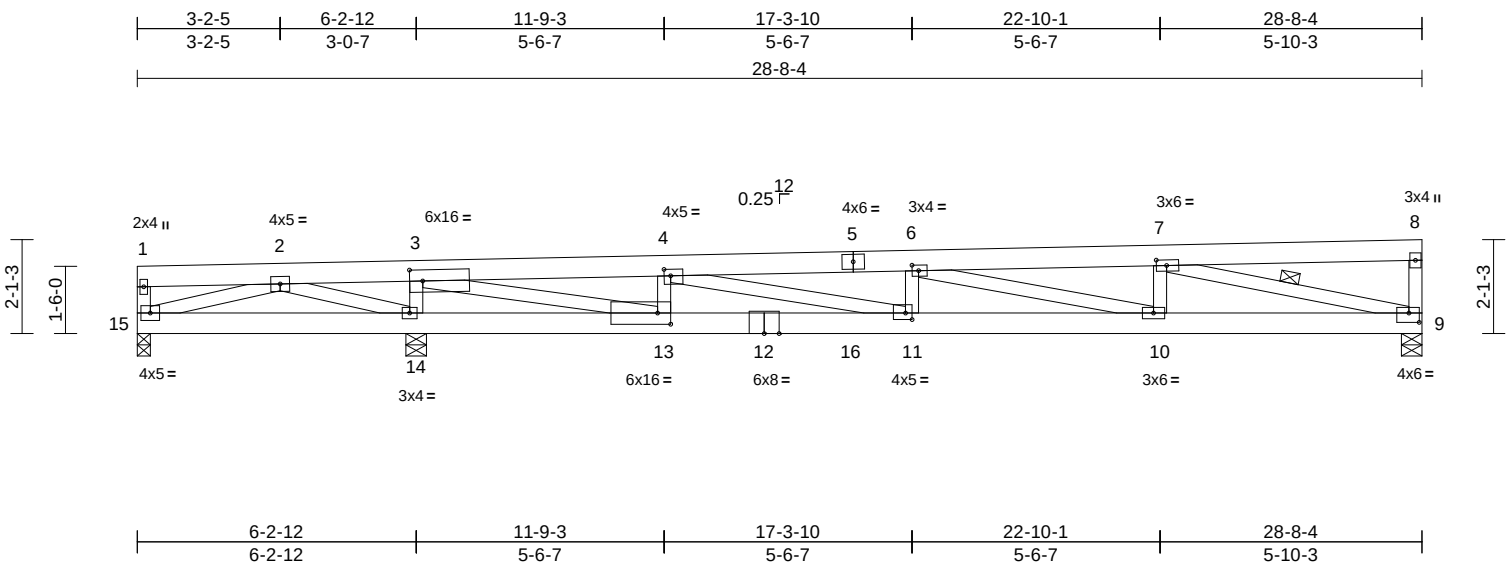
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	M08	Monopitch Girder	2	1	R87439348 Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:46 Page: 1
ID:RwmaLGiRhV0q?yDdhNif_KzivX3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51.4

Plate Offsets (X, Y): [3:0-3-8,0-3-0], [4:0-1-12,0-1-12], [6:0-1-12,0-1-8], [7:0-2-12,0-1-8], [9:0-2-12,0-2-8], [11:0-1-12,0-1-12], [13:0-3-8,0-3-0]

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	0.94	Vert(LL)	-0.25	11-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.55	11-13	>486	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 160 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-11 oc bracing.
WEBS 1 Row at midpt 7-9

REACTIONS (size) 9=0-5-8, 14=0-5-8, 15=0-3-8
Max Horiz 15=41 (LC 5)
Max Uplift 9=-106 (LC 8), 14=-253 (LC 8), 15=-352 (LC 2)
Max Grav 9=1101 (LC 1), 14=2395 (LC 1), 15=54 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-114/32, 1-2=-25/74, 2-3=-293/2312, 3-4=-2237/290, 4-6=-4489/590, 6-7=-3068/336, 7-8=-146/23, 8-9=-227/45
BOT CHORD 14-15=-1241/141, 13-14=-2305/301, 11-13=-278/2230, 10-11=-576/4485, 9-10=-319/3064
WEBS 3-14=-1703/257, 7-9=-3024/328, 2-14=-1153/171, 2-15=-117/1244, 4-13=-856/162, 3-13=-591/4635, 6-11=-184/376, 4-11=-306/2316, 7-10=0/430, 6-10=-1531/265

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 352 lb uplift at joint 15, 106 lb uplift at joint 9 and 253 lb uplift at joint 14.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 319 lb down and 61 lb up at 15-11-4, and 294 lb down and 83 lb up at 15-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
10) 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: 1-8=-80, 9-15=-20
Concentrated Loads (lb)
Vert: 16=-349 (F=-193, B=-155)

April 1,2025

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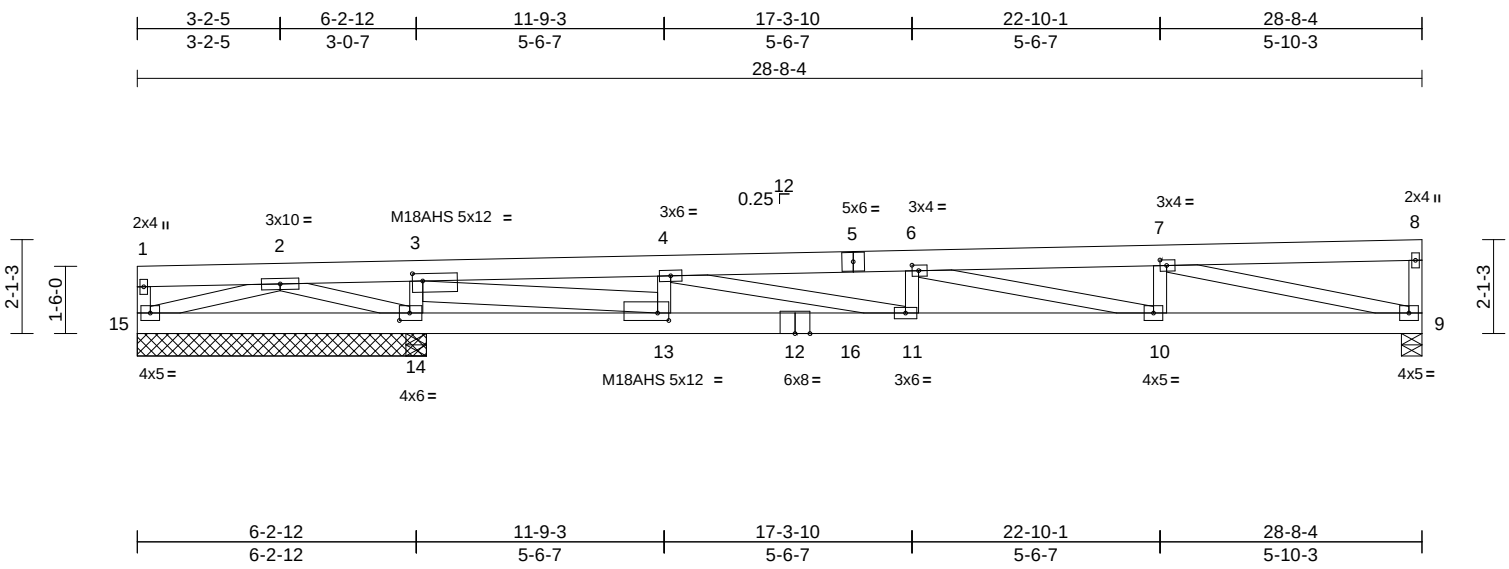
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	M09	Monopitch Girder	2	3	R87439349
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:46 Page: 1
ID:XnzylL896ZTAE_gSXoK1AwzivTv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51.4

Plate Offsets (X, Y): [3:0-2-12,0-2-0], [6:0-1-12,0-1-8], [7:0-1-12,0-1-8], [13:0-3-0,0-2-0], [14:0-2-12,0-2-0]

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	0.78	Vert(LL)	-0.23	11-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.47	11-13	>572	180	M18AHS	145/140
TCDL	15.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 496 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2 *Except* 1-5:2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E *Except* 12-9:2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 3-13:2x6 DF 2400F 2.0E

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) 9=0-5-8, 14=6-5-8, 15=6-5-8
Max Horiz 15=185 (LC 27)
Max Uplift 9=-220 (LC 33), 14=-1148 (LC 33), 15=-518 (LC 44)
Max Grav 9=2180 (LC 1), 14=14922 (LC 1), 15=366 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-1411/109, 1-2=-299/423, 2-3=-2181/12383, 3-4=-11946/2237, 4-6=-13248/2180, 6-7=-7010/1423, 7-8=-714/615, 8-9=-283/48
BOT CHORD 14-15=-5374/2049, 13-14=-12326/2128, 11-13=-1612/11426, 10-11=-1497/13012, 9-10=-744/6944
WEBS 3-14=-11120/864, 4-13=-5381/501, 7-10=-107/1655, 6-11=-122/265, 2-15=-1190/4543, 2-14=-8613/1401, 3-13=-2061/23756, 4-11=-533/1998, 6-10=-6378/776, 7-9=-6921/754

NOTES
1) 3-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, 2x6 - 2 rows staggered 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 0-4-0 oc, 2x6 - 2 rows staggered 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) 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.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates 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 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 518 lb uplift at joint 15, 220 lb uplift at joint 9 and 1148 lb uplift at joint 14.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-5-8 for 464.5 plf.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 294 lb down and 83 lb up at 15-11-4 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=-956, 5-8=-80, 9-15=-20
Concentrated Loads (lb)
Vert: 16=-155 (F)

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439350
4449076	M10	Monopitch	24	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:47 Page: 1
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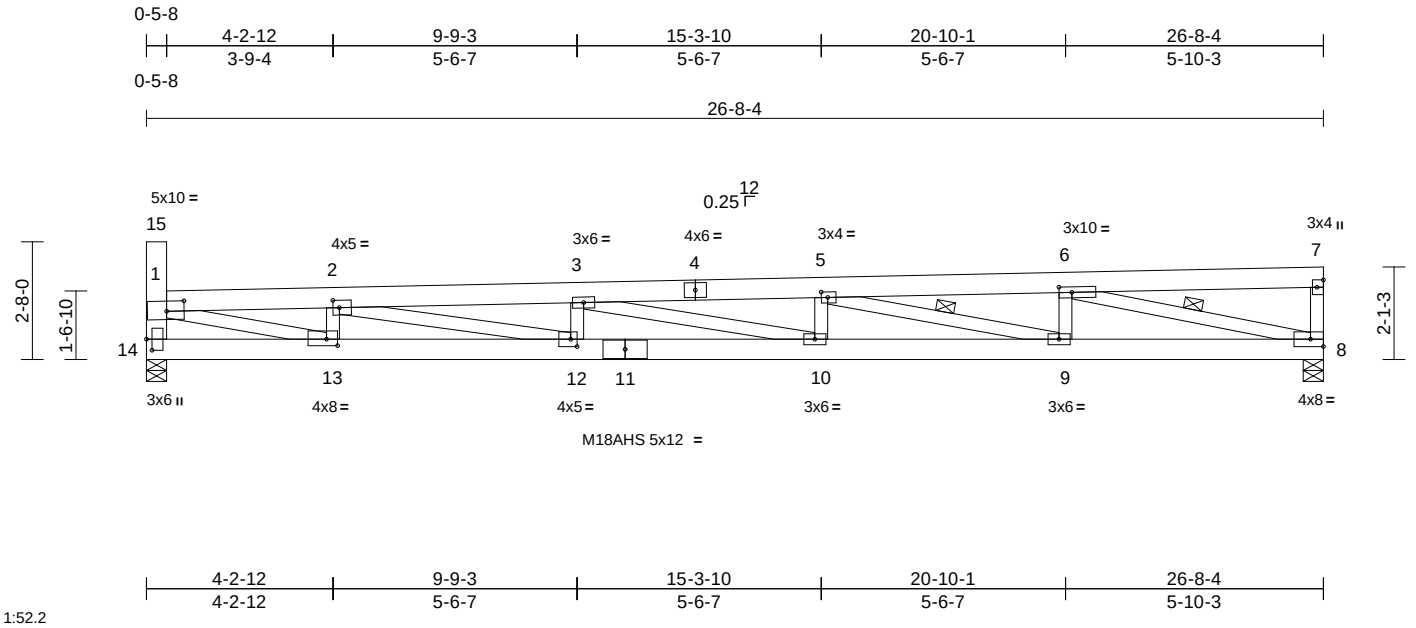

Scale = 1:52.2

Plate Offsets (X, Y): [1:0-4-12,0-2-12], [2:0-1-12,0-2-0], [5:0-1-12,0-1-8], [6:0-3-8,0-1-8], [7:Edge,0-3-8], [12:0-1-12,0-2-0], [13:0-3-0,0-1-12], [14:0-3-0,0-1-8]

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	0.58	Vert(LL)	-0.40	10-12	>787	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.81	10-12	>392	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 152 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 15-14:2x6 DF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.
WEBS 1 Row at midpt 6-8, 5-9

REACTIONS (size) 8=0-5-8, 14=0-5-8
Max Horiz 14=81 (LC 9)
Max Uplift 8=-80 (LC 12), 14=-75 (LC 8)
Max Grav 8=1327 (LC 1), 14=1309 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-8=-234/85, 1-2=-3960/867, 2-3=-6150/1278, 3-5=-6015/1226, 5-6=-3890/779, 6-7=-171/53, 1-14=-1302/285, 1-15=0/0
BOT CHORD 13-14=-290/668, 12-13=-915/3955, 10-12=-1321/6145, 9-10=-1265/6010, 8-9=-814/3886
WEBS 2-13=-847/259, 1-13=-716/3407, 3-12=-393/180, 2-12=-494/2238, 5-10=0/243, 6-9=-28/611, 6-8=-3849/791, 5-9=-2192/465, 3-10=-138/64

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) All plates are MT20 plates unless otherwise indicated.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 8 and 75 lb uplift at joint 14.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 26, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . 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 Except:
26) User defined (1): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 8-14=-12, 1-7=-5
Horz: 7-8=27, 1-7=-4
Concentrated Loads (lb)
Horz: 15=-200
27) User defined (2): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 8-14=-12, 1-7=-5
Horz: 7-8=27, 1-7=-4
Concentrated Loads (lb)
Horz: 15=200 (F)

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439351
4449076	M11	Monopitch	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:47 Page: 1
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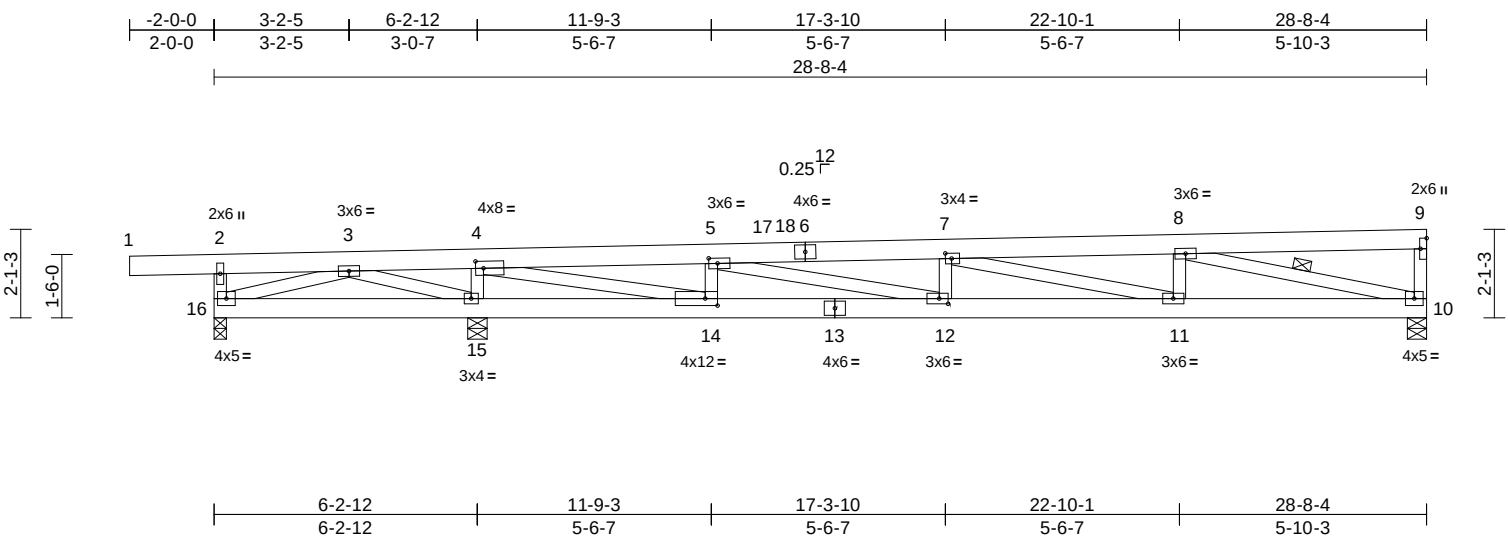

Scale = 1:54.5

Plate Offsets (X, Y): [4:0-2-4,0-2-0], [5:0-2-8,0-1-8], [7:0-1-12,0-1-8], [9:Edge,0-3-8], [12:0-2-8,0-1-8], [14:0-3-8,0-2-0]

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	0.69	Vert(LL)	-0.20	12	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.40	12	>667	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 165 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-1 oc bracing.
WEBS 1 Row at midpt 8-10

REACTIONS (size) 10=0-5-8, 15=0-5-8, 16=0-3-8
Max Horiz 16=41 (LC 11)
Max Uplift 10=-58 (LC 8), 15=-113 (LC 12), 16=-61 (LC 3)
Max Grav 10=980 (LC 1), 15=2022 (LC 1), 16=233 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-16=-403/121, 1-2=0/6, 2-3=-39/101, 3-4=-367/1791, 4-5=-1736/339, 5-7=-3341/636, 7-8=-2635/507, 8-9=-133/44, 9-10=-227/80
BOT CHORD 15-16=-975/167, 14-15=-1785/352, 12-14=-344/1729, 11-12=-637/3337, 10-11=-505/2630
WEBS 4-15=-1443/349, 3-15=-862/216, 3-16=-153/931, 8-11=0/344, 7-12=-250/130, 5-14=-742/224, 4-14=-677/3591, 5-12=-301/1651, 7-11=-729/137, 8-10=-2589/484

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -2-0-0 to 13-0-0, Exterior (2) 13-0-0 to 13-6-8, Corner (3) 13-6-8 to 28-6-8 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) 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) 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.
4) Provide adequate drainage to prevent water ponding.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 16, 58 lb uplift at joint 10 and 113 lb uplift at joint 15.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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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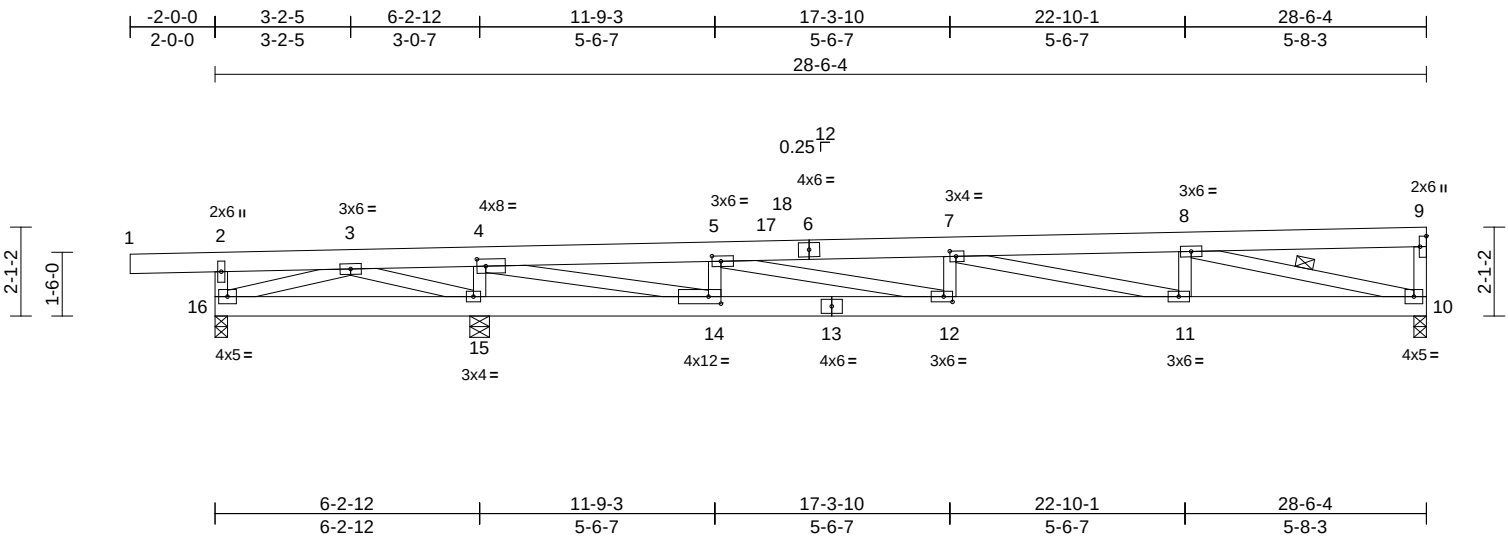
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439352
4449076	M12	Monopitch	10	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:47 Page: 1
ID:pcw9lJyEMRWEPTb7_vsz?kzivHF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:54.3

Plate Offsets (X, Y): [4:0-2-8,0-2-0], [5:0-2-8,0-1-8], [7:0-1-12,0-1-8], [9:Edge,0-3-8], [12:0-2-8,0-1-8], [14:0-3-8,0-2-0]

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	0.68	Vert(LL)	-0.20	12	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.39	12-14	>679	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 164 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-2 oc bracing.
WEBS 1 Row at midpt 8-10

REACTIONS (size) 10=0-3-8, 15=0-5-8, 16=0-3-8
Max Horiz 16=41 (LC 11)
Max Uplift 10=-58 (LC 8), 15=-111 (LC 12), 16=-59 (LC 8)
Max Grav 10=974 (LC 1), 15=2000 (LC 1), 16=238 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-16=-403/122, 1-2=0/6, 2-3=-39/99, 3-4=-360/1741, 4-5=-1746/344, 5-7=-3309/635, 7-8=-2570/499, 8-9=-126/43, 9-10=-219/77
BOT CHORD 15-16=-946/163, 14-15=-1734/345, 12-14=-349/1739, 11-12=-636/3305, 10-11=-496/2565
WEBS 4-15=-1431/349, 3-15=-839/213, 3-16=-149/903, 5-14=-732/224, 7-12=-242/129, 8-11=0/347, 8-10=-2534/477, 7-11=-763/145, 5-12=-295/1608, 4-14=-675/3550

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -2-0-0 to 13-0-0, Exterior (2) 13-0-0 to 13-4-8, Corner (3) 13-4-8 to 28-4-8 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) 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) 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.
4) Provide adequate drainage to prevent water ponding.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 16, 58 lb uplift at joint 10 and 111 lb uplift at joint 15.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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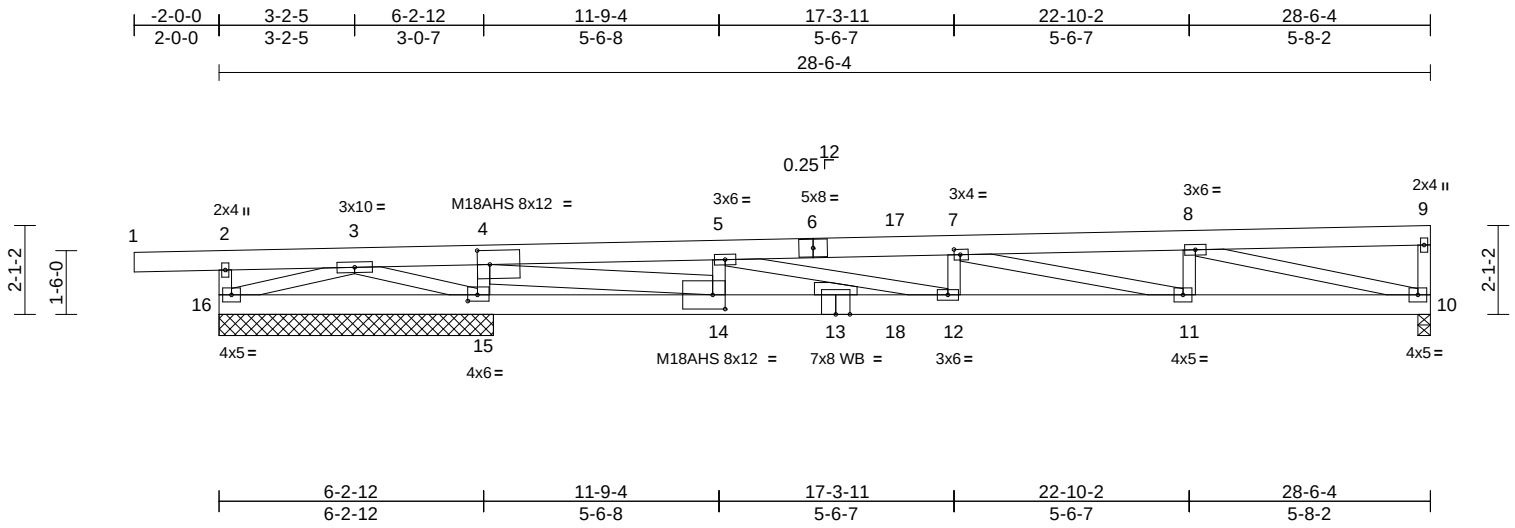
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439353
4449076	M13	Monopitch Girder	2	3	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:48 Page: 1
ID:MU9WHeQU6YTeLOMgWv5L1AzitbU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:54.3

Plate Offsets (X, Y): [4:0-3-8,0-4-0], [7:0-1-12,0-1-8], [14:0-3-8,0-4-0], [15:0-2-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.26	12-14	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.52	12-14	>511	180	M18AHS	145/140
TCDL	15.0	Rep Stress Incr	Yes	WB	0.47	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 510 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2 *Except* 1-6:2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 4-14:2x6 DF 2400F 2.0E
OTHERS 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.

REACTIONS (size) 10=0-3-8, 15=6-5-8, 16=6-5-8
Max Horiz 16=166 (LC 32)
Max Uplift 10=-224 (LC 26), 15=-1231 (LC 34), 16=-334 (LC 47)
Max Grav 10=2339 (LC 1), 15=16216 (LC 1), 16=335 (LC 40)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-16=-1802/193, 1-2=0/6, 2-3=-274/397, 3-4=-2139/12891, 4-5=-13444/2220, 5-7=-14338/2174, 7-8=-7335/1357, 8-9=-629/525, 9-10=-287/47
BOT CHORD 15-16=-5235/1817, 14-15=-12722/1932, 12-14=-1570/12913, 11-12=-1517/14210, 10-11=-737/7326
WEBS 8-11=-116/1861, 7-12=-78/282, 5-14=-5800/515, 4-15=-12302/932, 3-16=-1144/4595, 3-15=-9080/1359, 4-14=-2164/26015, 5-12=-469/1543, 7-11=-7157/805, 8-10=-7326/749

NOTES
1) 3-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, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 2 rows staggered at 0-6-0 oc, 2x6 - 2 rows staggered 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) 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.
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 334 lb uplift at joint 16, 224 lb uplift at joint 10 and 1231 lb uplift at joint 15.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 2600 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-5-8 for 402.6 plf.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 281 lb down and 102 lb up at 15-11-4 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: 1-2=-80, 2-17=-1066, 9-17=-80, 10-16=-20
Concentrated Loads (lb)
Vert: 18=-131 (B)

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	M14	Monopitch Girder	2	1	R87439354
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:48 Page: 1
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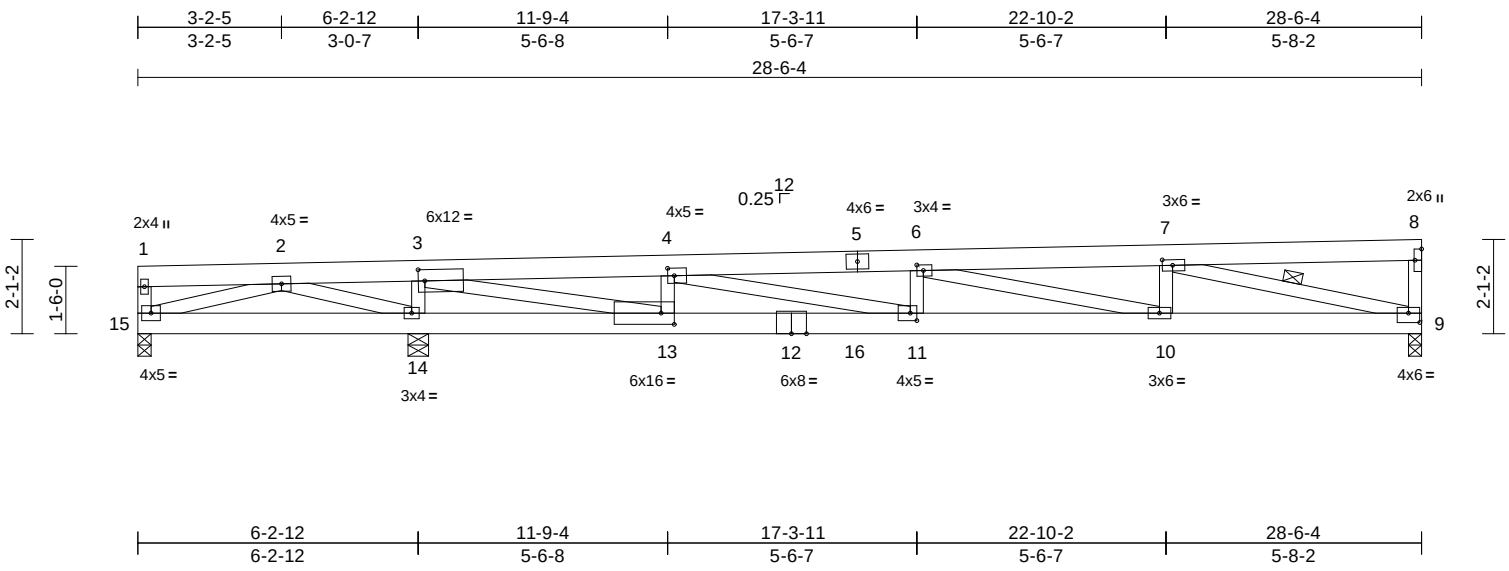

Scale = 1:51.2

Plate Offsets (X, Y): [3:0-1-12,0-3-0], [4:0-1-12,0-2-0], [6:0-1-12,0-1-8], [7:0-2-12,0-1-8], [8:Edge,0-3-8], [9:0-3-0,0-2-8], [11:0-1-12,0-2-0], [13:0-3-8,0-3-0]

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	0.92	Vert(LL)	-0.25	11-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.53	11-13	>499	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 159 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-1 oc bracing.
WEBS 1 Row at midpt 7-9

REACTIONS (size) 9=0-3-8, 14=0-5-8, 15=0-3-8
Max Horiz 15=41 (LC 7)
Max Uplift 9=-113 (LC 8), 14=-269 (LC 8), 15=-332 (LC 2)
Max Grav 9=1088 (LC 1), 14=2346 (LC 1), 15=59 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-115/32, 1-2=-26/70, 2-3=-311/2223, 3-4=-2224/316, 4-6=-4393/639, 6-7=-2965/352, 7-8=-138/23, 8-9=-219/43
BOT CHORD 14-15=-1188/153, 13-14=-2216/319, 11-13=-304/2217, 10-11=-624/4389, 9-10=-335/2961
WEBS 3-14=-1671/270, 7-9=-2933/345, 2-15=-128/1192, 2-14=-1113/177, 4-13=-836/167, 6-11=-185/372, 7-10=0/429, 6-10=-1532/299, 4-11=-329/2230, 3-13=-635/4531

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 332 lb uplift at joint 15, 113 lb uplift at joint 9 and 269 lb uplift at joint 14.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 281 lb down and 102 lb up at 15-11-4, and 319 lb down and 61 lb up at 15-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
10) 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: 1-8=-80, 9-15=-20
Concentrated Loads (lb)
Vert: 16=-325 (F=-131, B=-193)

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439355
4449076	M15	Monopitch Girder	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:48 Page: 1
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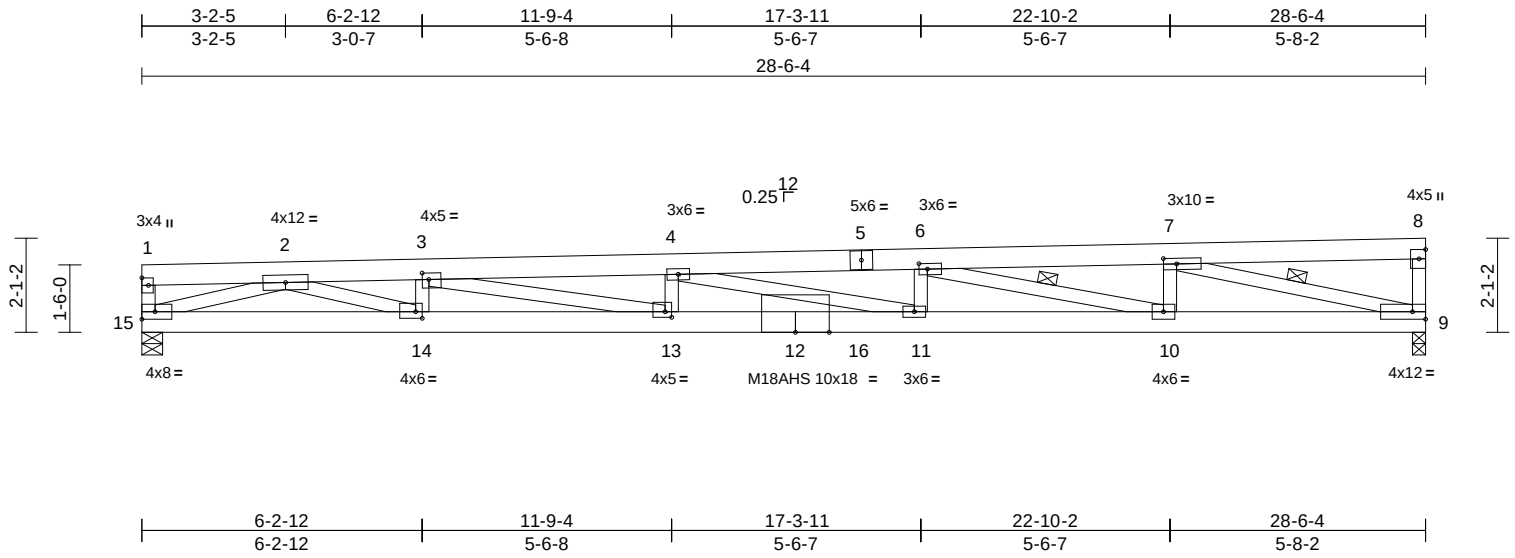

Scale = 1:51.2

Plate Offsets (X, Y): [3:0-1-12,0-1-12], [6:0-2-4,0-1-8], [7:0-3-8,0-1-8], [8:Edge,0-3-8], [13:0-1-12,0-1-8], [14:0-1-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.55	11-13	>616	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.89	Vert(CT)	-1.24	11-13	>274	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.13	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 159 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-9, 6-10

REACTIONS (size) 9=0-3-8, 15=0-5-8
Max Horiz 15=41 (LC 7)
Max Uplift 9=-145 (LC 8), 15=-132 (LC 4)
Max Grav 9=1628 (LC 1), 15=1582 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-213/35, 8-9=-230/44, 1-2=-237/8, 2-3=-6560/569, 3-4=-8746/860, 4-6=-8412/876, 6-7=-4874/467, 7-8=-193/27
BOT CHORD 14-15=-341/3714, 13-14=-561/6558, 11-13=-849/8740, 10-11=-861/8407, 9-10=-449/4870
WEBS 7-9=-4854/459, 3-14=-942/162, 2-14=-234/3028, 2-15=-3704/363, 4-13=-299/100, 3-13=-295/2387, 6-11=-22/660, 4-11=-498/328, 7-10=-20/958, 6-10=-3749/425

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 15 and 145 lb uplift at joint 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 319 lb down and 61 lb up at 15-11-4, and 319 lb down and 61 lb up at 15-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) 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: 9-15=-20, 1-8=-80
Concentrated Loads (lb)
Vert: 16=-387 (F=-193, B=-193)

April 1,2025

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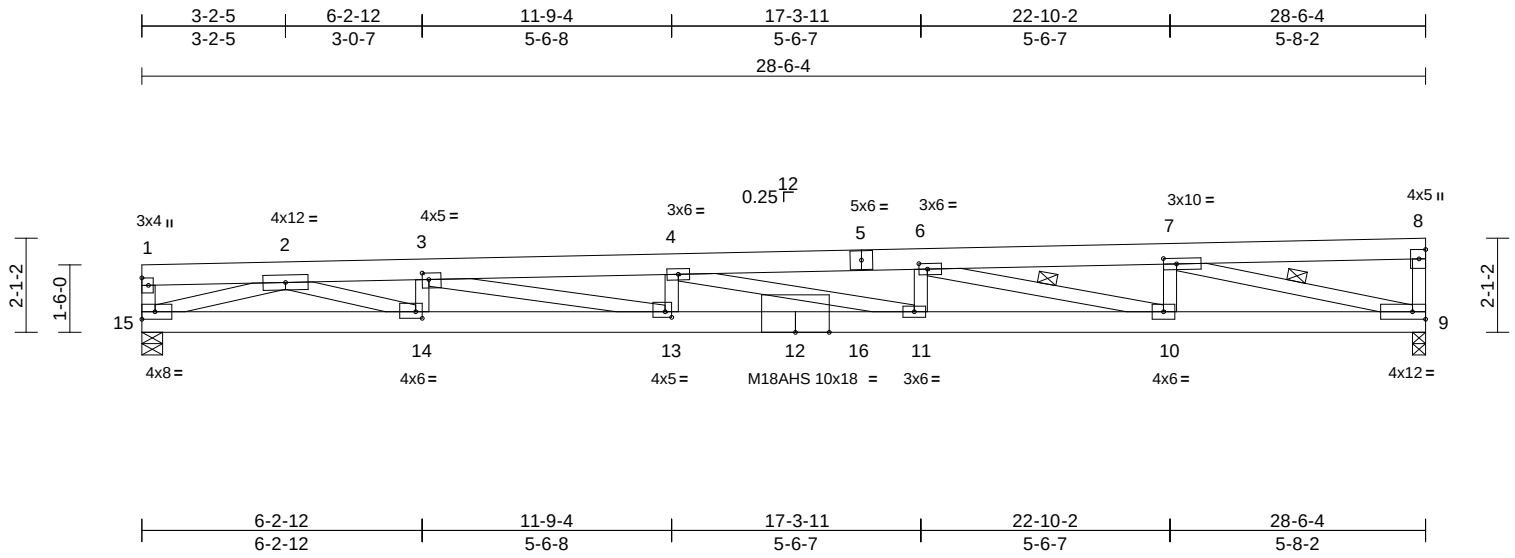
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439356
4449076	M16	Monopitch Girder	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:49 Page: 1
ID:Mq0tdacHBC1VA?GpyBnMlPziubn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51.2

Plate Offsets (X, Y): [3:0-1-12,0-1-12], [6:0-2-4,0-1-8], [7:0-3-8,0-1-8], [8:Edge,0-3-8], [13:0-1-12,0-1-8], [14:0-1-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.55	11-13	>616	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.89	Vert(CT)	-1.24	11-13	>274	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.13	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 159 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-9, 6-10

REACTIONS (size) 9=0-3-8, 15=0-5-8
Max Horiz 15=41 (LC 5)
Max Uplift 9=-145 (LC 8), 15=-132 (LC 4)
Max Grav 9=1628 (LC 1), 15=1582 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-213/35, 8-9=-230/44, 1-2=-237/8, 2-3=-6561/569, 3-4=-8746/860, 4-6=-8412/876, 6-7=-4874/467, 7-8=-193/27
BOT CHORD 14-15=-341/3714, 13-14=-561/6558, 11-13=-849/8740, 10-11=-861/8407, 9-10=-449/4870
WEBS 7-9=-4854/459, 3-14=-942/162, 4-13=-299/100, 6-11=-22/660, 7-10=-20/958, 6-10=-3749/425, 4-11=-498/328, 3-13=-295/2387, 2-15=-3704/363, 2-14=-234/3028

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 15 and 145 lb uplift at joint 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 319 lb down and 61 lb up at 15-11-4, and 319 lb down and 61 lb up at 15-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) 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: 9-15=-20, 1-8=-80
Concentrated Loads (lb)
Vert: 16=-387 (F=-193, B=-193)

April 1,2025

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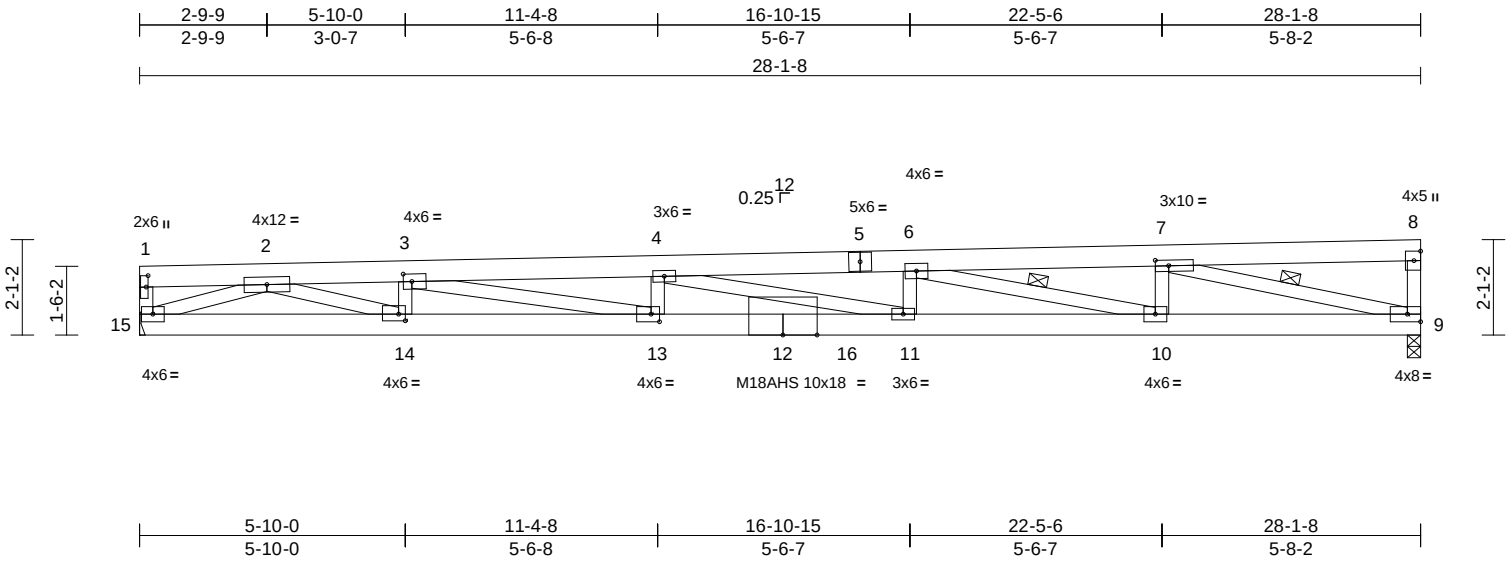
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439357
4449076	M17	Monopitch	10	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:49 Page: 1
ID:c_p6dzav2_RWcvfxRChMJZziuZF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:50.6

Plate Offsets (X, Y): [1:0-3-1,0-0-4], [3:0-2-4,0-2-0], [7:0-3-8,0-1-8], [8:Edge,0-3-8], [13:0-2-4,0-2-0], [14:0-1-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.52	11-13	>637	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-1.18	11-13	>284	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.12	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 157 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-9-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-9, 6-10

REACTIONS (size) 9=0-3-8, 15= Mechanical
Max Horiz 15=41 (LC 33)
Max Uplift 9=-143 (LC 8), 15=-131 (LC 4)
Max Grav 9=1606 (LC 1), 15=1564 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-180/30, 8-9=-229/44, 1-2=-195/5, 2-3=-6176/540, 3-4=-8469/836, 4-6=-8251/861, 6-7=-4795/460, 7-8=-191/27
BOT CHORD 14-15=-300/3280, 13-14=-532/6174, 11-13=-825/8462, 10-11=-847/8246, 9-10=-443/4791
WEBS 7-9=-4774/453, 3-14=-953/162, 4-13=-327/103, 6-11=-20/637, 7-10=-18/936, 6-10=-3660/417, 4-11=-409/342, 3-13=-300/2491, 2-15=-3348/328, 2-14=-247/3081

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
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 .
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 15 and 143 lb uplift at joint 9.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 319 lb down and 61 lb up at 15-6-8, and 319 lb down and 61 lb up at 15-6-8 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: 9-15=-20, 1-8=-80
Concentrated Loads (lb)
Vert: 16=-387 (F=-193, B=-193)

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439358
4449076	M18	Monopitch Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:49 Page: 1
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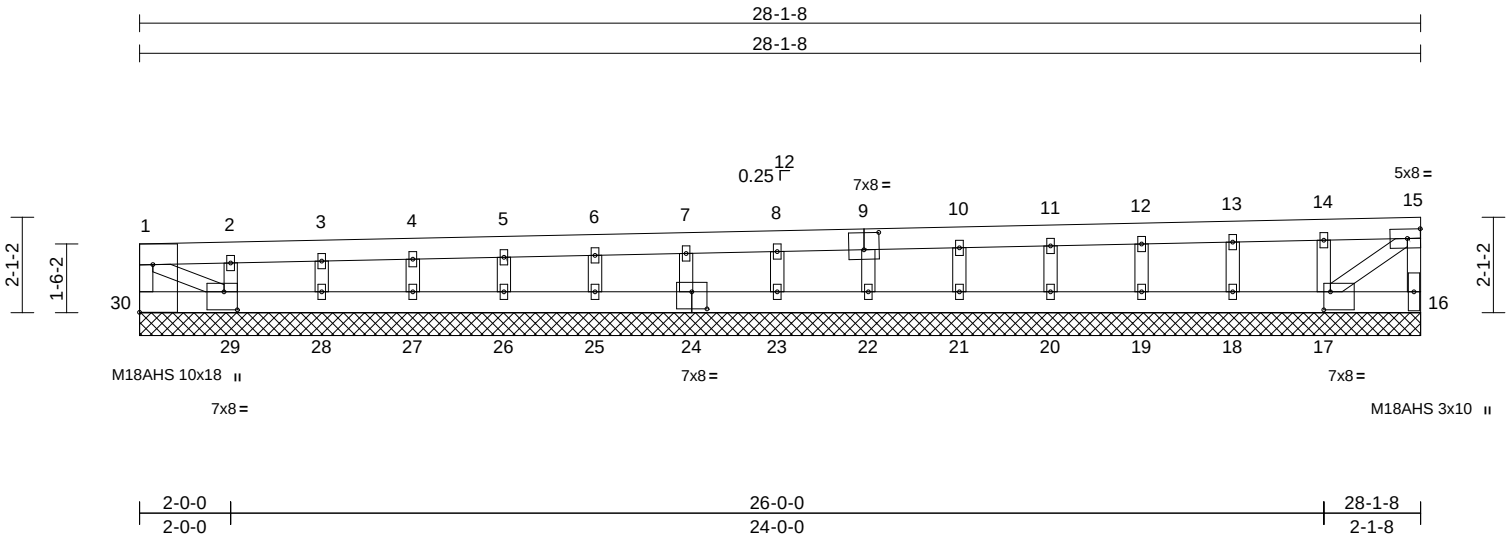

Scale = 1:50.6

Plate Offsets (X, Y): [9:0-4-0,0-4-8], [15:0-3-7,0-2-8], [17:0-1-12,0-4-12], [24:0-4-0,0-4-8], [29:0-3-8,0-4-12], [30:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	n/a	-	n/a	999	M18AHS	145/140
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.39	Vert(TL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Rep Stress Incr	NO	WB	0.71	Horiz(TL)	-0.02	23	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 140 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-15 oc bracing.

REACTIONS (size) 16=28-1-8, 17=28-1-8, 18=28-1-8, 19=28-1-8, 20=28-1-8, 21=28-1-8, 22=28-1-8, 23=28-1-8, 24=28-1-8, 25=28-1-8, 26=28-1-8, 27=28-1-8, 28=28-1-8, 29=28-1-8, 30=28-1-8
Max Horiz 30=41 (LC 34)
Max Uplift 16=-2499 (LC 41), 17=-2563 (LC 32), 18=-22 (LC 40), 19=-17 (LC 32), 20=-44 (LC 41), 21=-105 (LC 32), 22=-179 (LC 41), 23=-226 (LC 32), 24=-210 (LC 41), 25=-136 (LC 32), 26=-57 (LC 41), 27=-16 (LC 40), 28=-26 (LC 32), 29=-2029 (LC 41), 30=-2090 (LC 32)
Max Grav 16=2530 (LC 52), 17=2665 (LC 53), 18=197 (LC 1), 19=201 (LC 1), 20=199 (LC 1), 21=249 (LC 27), 22=300 (LC 26), 23=330 (LC 27), 24=324 (LC 26), 25=272 (LC 27), 26=208 (LC 26), 27=200 (LC 1), 28=199 (LC 1), 29=2124 (LC 52), 30=2126 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-30=-2053/2025, 1-2=-3542/3522, 2-3=-3095/3078, 3-4=-2617/2600, 4-5=-2138/2123, 5-6=-1657/1644, 6-7=-1183/1169, 7-8=-716/703, 8-10=-744/732, 10-11=-1220/1208, 11-12=-1697/1689, 12-13=-2175/2168, 13-14=-2649/2648, 14-15=-3123/3123, 15-16=-2470/2474
BOT CHORD 29-30=-317/262, 28-29=-3104/3081, 27-28=-2577/2603, 26-27=-2146/2124, 25-26=-1667/1645, 23-25=-1189/1166, 22-23=-282/267, 21-22=-754/737, 20-21=-1233/1215, 19-20=-1711/1694, 18-19=-2142/2173, 17-18=-2669/2651, 16-17=-407/400
WEBS 2-29=-172/106, 3-28=-159/71, 4-27=-160/73, 5-26=-170/108, 6-25=-230/188, 7-24=-285/262, 8-23=-292/274, 9-22=-260/230, 10-21=-209/155, 11-20=-159/93, 12-19=-160/63, 13-18=-158/87, 14-17=-173/78, 1-29=-3830/3867, 15-17=-3940/3927

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 (||) MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) All bearings are assumed to be HF No.2 .

April 1,2025

Continued on page 2

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13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2090 lb uplift at joint 30, 2499 lb uplift at joint 16, 2029 lb uplift at joint 29, 26 lb uplift at joint 28, 16 lb uplift at joint 27, 57 lb uplift at joint 26, 136 lb uplift at joint 25, 210 lb uplift at joint 24, 226 lb uplift at joint 23, 179 lb uplift at joint 22, 105 lb uplift at joint 21, 44 lb uplift at joint 20, 17 lb uplift at joint 19, 22 lb uplift at joint 18 and 2563 lb uplift at joint 17.
14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
15) This truss has been designed for a total drag load of 6732 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 28-1-8 for 239.4 plf.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439359
4449076	M18A	Monopitch Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:50 Page: 1
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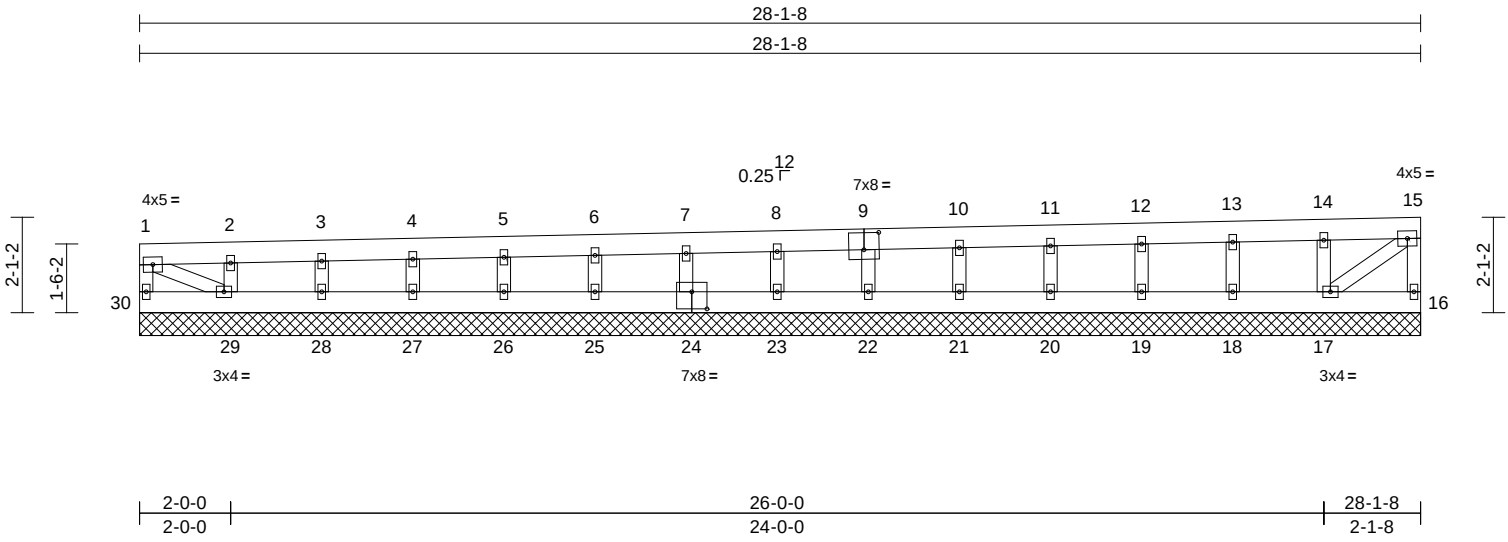

Scale = 1:50.6

Plate Offsets (X, Y): [9:0-4-0,0-4-8], [24:0-4-0,0-4-8]

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.01	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	16	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 140 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 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) 16=28-1-8, 17=28-1-8, 18=28-1-8, 19=28-1-8, 20=28-1-8, 21=28-1-8, 22=28-1-8, 23=28-1-8, 24=28-1-8, 25=28-1-8, 26=28-1-8, 27=28-1-8, 28=28-1-8, 29=28-1-8, 30=28-1-8
Max Horiz 30=41 (LC 11)
Max Uplift 16=-4 (LC 12), 17=-13 (LC 8), 18=-12 (LC 12), 19=-12 (LC 8), 20=-11 (LC 12), 21=-13 (LC 8), 22=-11 (LC 12), 23=-12 (LC 8), 24=-12 (LC 12), 25=-11 (LC 8), 26=-12 (LC 12), 27=-12 (LC 12), 28=-12 (LC 8), 29=-9 (LC 12), 30=-8 (LC 8)
Max Grav 16=68 (LC 1), 17=232 (LC 1), 18=197 (LC 1), 19=201 (LC 1), 20=199 (LC 1), 21=206 (LC 1), 22=200 (LC 1), 23=193 (LC 1), 24=200 (LC 1), 25=203 (LC 1), 26=199 (LC 1), 27=200 (LC 1), 28=199 (LC 1), 29=206 (LC 1), 30=81 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-30=-65/33, 1-2=-22/15, 2-3=-22/15, 3-4=-22/15, 4-5=-21/17, 5-6=-21/18, 6-7=-21/20, 7-8=-18/20, 8-10=-19/25, 10-11=-17/25, 11-12=-16/24, 12-13=-14/24, 13-14=-13/24, 14-15=-11/23, 15-16=-52/27
BOT CHORD 29-30=-66/60, 28-29=-29/32, 27-28=-29/32, 26-27=-29/32, 25-26=-29/32, 23-25=-29/32, 22-23=-24/27, 21-22=-30/31, 20-21=-30/31, 19-20=-30/31, 18-19=-30/31, 17-18=-30/31, 16-17=-18/26
WEBS 2-29=-167/65, 3-28=-159/62, 4-27=-160/62, 5-26=-160/62, 6-25=-161/62, 7-24=-160/63, 8-23=-155/60, 9-22=-159/62, 10-21=-166/64, 11-20=-159/62, 12-19=-160/62, 13-18=-158/62, 14-17=-173/69, 1-29=-32/43, 15-17=-23/6

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
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 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 30, 4 lb uplift at joint 16, 9 lb uplift at joint 29, 12 lb uplift at joint 28, 12 lb uplift at joint 27, 12 lb uplift at joint 26, 11 lb uplift at joint 25, 12 lb uplift at joint 24, 12 lb uplift at joint 23, 11 lb uplift at joint 22, 13 lb uplift at joint 21, 11 lb uplift at joint 20, 12 lb uplift at joint 19, 12 lb uplift at joint 18 and 13 lb uplift at joint 17.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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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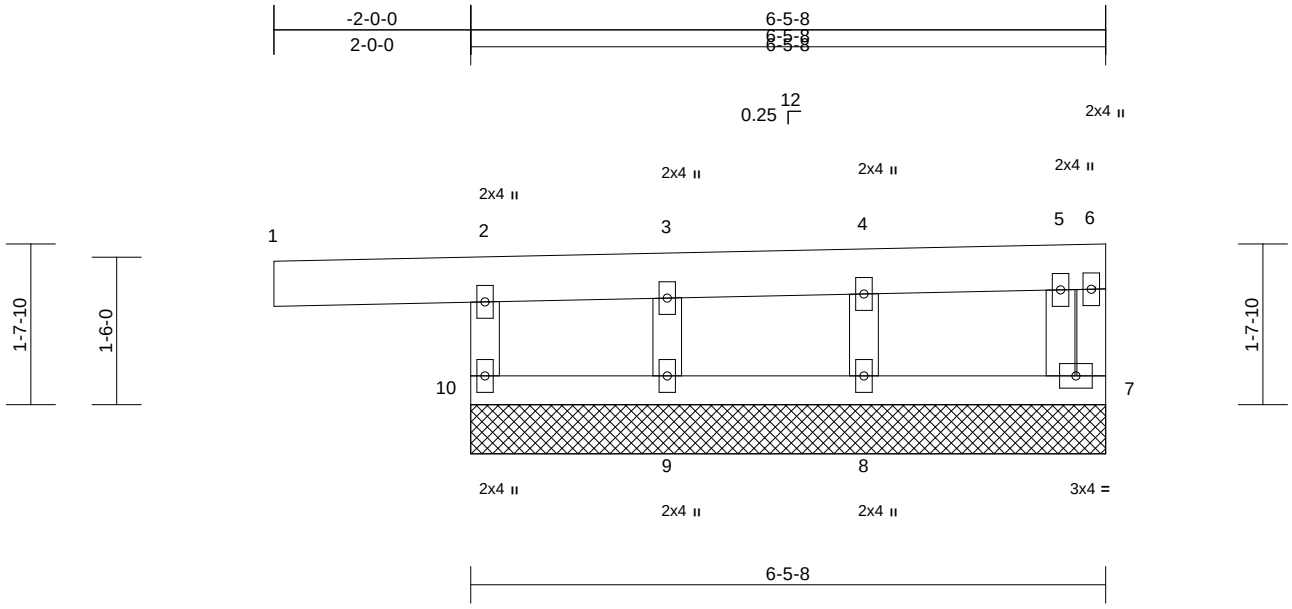
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	M20	Monopitch Supported Gable	2	1	R87439360
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:50 Page: 1
ID:zfujW0JkMYCc0FNFBkKu9EzjF1u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:23.4

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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 30 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF 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) 7=6-5-8, 8=6-5-8, 9=6-5-8, 10=6-5-8
Max Horiz 10=32 (LC 11)
Max Uplift 7=-4 (LC 9), 8=-31 (LC 8), 9=-109 (LC 18), 10=-101 (LC 8)
Max Grav 7=92 (LC 1), 8=263 (LC 1), 9=91 (LC 3), 10=492 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-10=-474/242, 1-2=0/6, 2-3=-7/21, 3-4=-6/25, 4-5=-7/24, 5-6=-6/17, 6-7=-77/70
BOT CHORD 9-10=-34/39, 8-9=-34/39, 7-8=-34/39
WEBS 3-9=-69/146, 4-8=-214/165, 5-7=-76/92

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
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) 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 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 10, 4 lb uplift at joint 7, 109 lb uplift at joint 9 and 31 lb uplift at joint 8.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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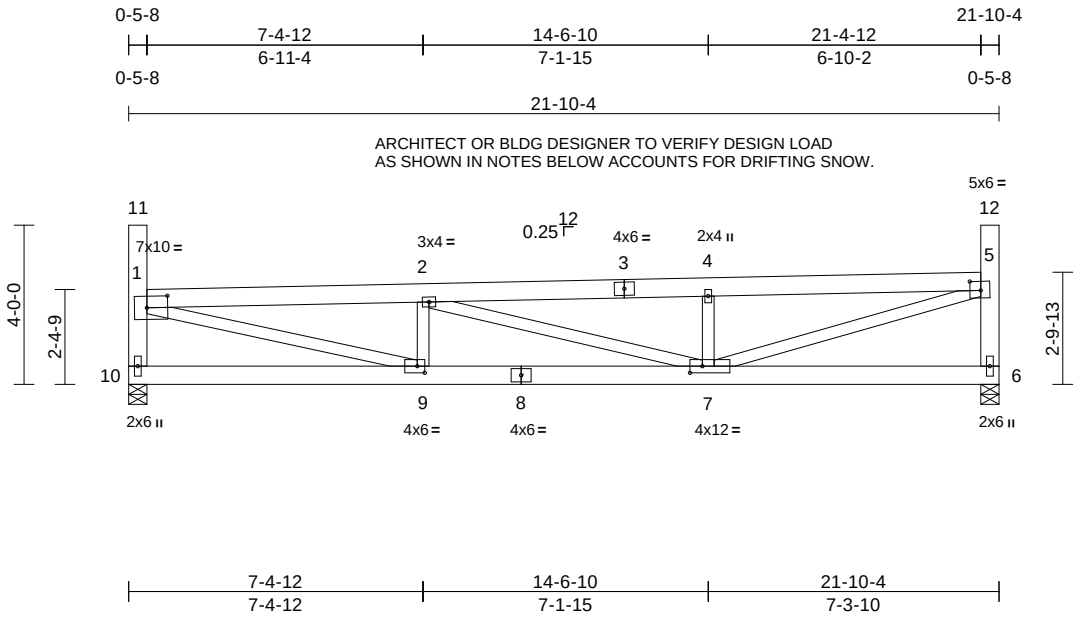
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439361
4449076	N01	Monopitch	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:50 Page: 1
ID:asZSz8SXWQiVgW5PfaRYzGzismV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:57.9

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

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	0.36	Vert(LL)	-0.13	7-9	>999	240	MT20	220/195
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.27	7-9	>974	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 135 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 11-10,12-6:2x6 DF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-2 oc bracing.

REACTIONS (size) 6=0-5-8, 10=0-5-8
Max Horiz 10=139 (LC 9)
Max Uplift 6=-63 (LC 12), 10=-71 (LC 8)
Max Grav 6=1081 (LC 1), 10=1063 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2652/660, 2-4=-2444/719, 4-5=-2444/726, 1-10=-998/365, 1-11=0/0, 5-6=-992/332, 5-12=0/0
BOT CHORD 9-10=-381/774, 7-9=-817/2645, 6-7=-124/153
WEBS 2-9=-502/332, 4-7=-577/278, 5-7=-678/2408, 2-7=-299/193, 1-9=-918/2400

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 10 and 63 lb uplift at joint 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 26, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.
11) 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 Except:
26) User defined (1): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-5=36, 6-10=-12, 1-10=-18
Horz: 1-5=-44, 1-10=18, 1-11=71, 5-6=27, 5-12=45
Concentrated Loads (lb)
Horz: 11=200, 12=200 (F)
27) User defined (2): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-5=36, 6-10=-12, 1-10=-18
Horz: 1-5=-44, 1-10=18, 1-11=71, 5-6=27, 5-12=45
Concentrated Loads (lb)
Horz: 11=-200, 12=-200 (F)

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N02	Monopitch Supported Gable	2	1	R87439362
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:51 Page: 1
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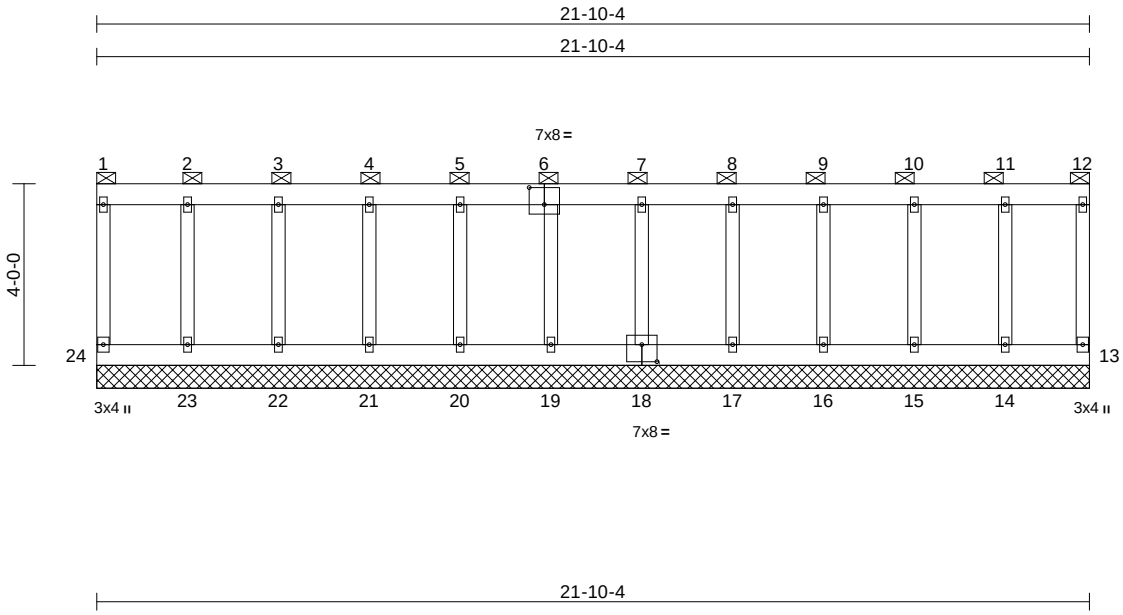

Scale = 1:50.7

Plate Offsets (X, Y): [6:0-4-0,0-4-8], [18:0-4-0,0-4-8]

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.04	Horiz(TL)	0.00	13	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 136 lb	FT = 10%

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

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-12, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 13=21-10-4, 14=21-10-4, 15=21-10-4, 16=21-10-4, 17=21-10-4, 18=21-10-4, 19=21-10-4, 20=21-10-4, 21=21-10-4, 22=21-10-4, 23=21-10-4, 24=21-10-4
Max Horiz 24=-87 (LC 10)
Max Uplift 13=-54 (LC 9), 14=-72 (LC 8), 15=-22 (LC 9), 16=-15 (LC 8), 17=-23 (LC 9), 18=-49 (LC 8), 19=-63 (LC 9), 20=-52 (LC 8), 21=-25 (LC 9), 22=-25 (LC 8), 23=-66 (LC 9), 24=-55 (LC 8)
Max Grav 13=84 (LC 19), 14=207 (LC 1), 15=202 (LC 1), 16=200 (LC 1), 17=197 (LC 1), 18=213 (LC 1), 19=192 (LC 1), 20=198 (LC 1), 21=199 (LC 1), 22=203 (LC 1), 23=199 (LC 1), 24=97 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-67/69, 12-13=-63/65, 1-2=-12/18, 2-3=-12/18, 3-4=-12/18, 4-5=-12/18, 5-7=-12/18, 7-8=-11/15, 8-9=-11/15, 9-10=-11/15, 10-11=-11/15, 11-12=-11/15
BOT CHORD 23-24=-89/104, 22-23=-89/104, 21-22=-89/104, 20-21=-89/104, 19-20=-89/104, 17-19=-87/102, 16-17=-87/102, 15-16=-87/102, 14-15=-87/102, 13-14=-87/102
WEBS 2-23=-161/109, 3-22=-162/79, 4-21=-159/95, 5-20=-158/152, 6-19=-181/177, 7-18=-173/148, 8-17=-157/93, 9-16=-160/73, 10-15=-163/76, 11-14=-161/110

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
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 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 24, 54 lb uplift at joint 13, 66 lb uplift at joint 23, 25 lb uplift at joint 22, 25 lb uplift at joint 21, 52 lb uplift at joint 20, 63 lb uplift at joint 19, 49 lb uplift at joint 18, 23 lb uplift at joint 17, 15 lb uplift at joint 16, 22 lb uplift at joint 15 and 72 lb uplift at joint 14.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N03	Monopitch	2	1	R87439363
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:51 Page: 1
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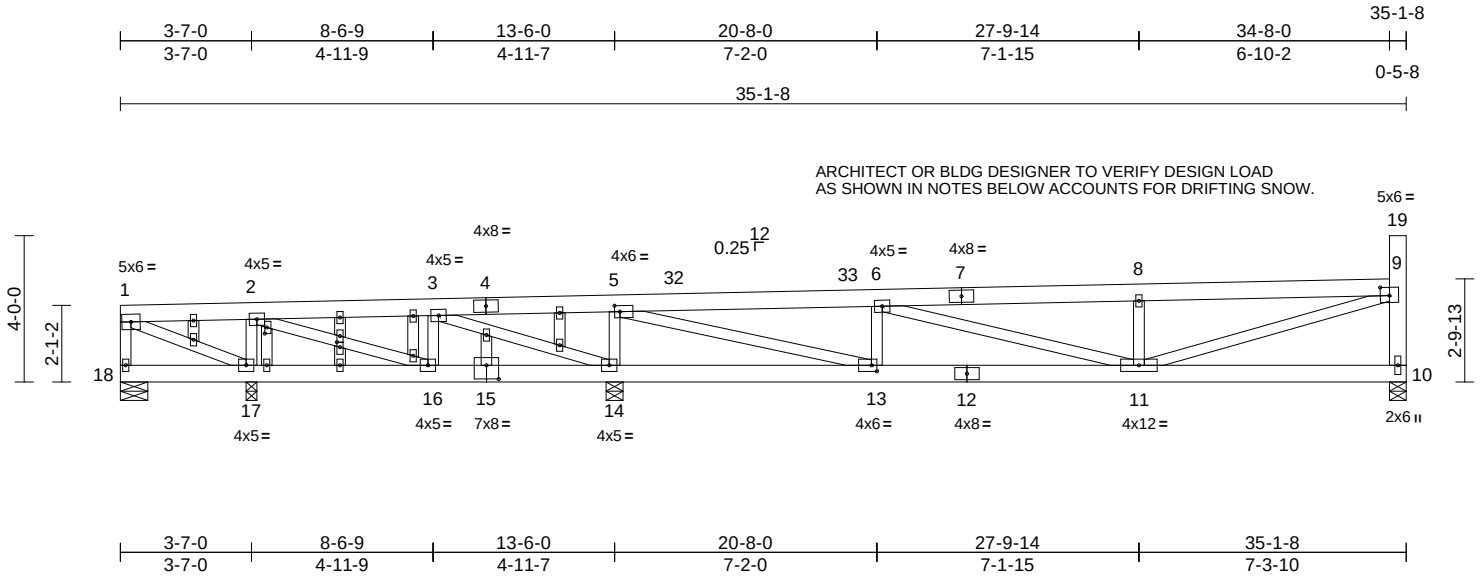

Scale = 1:62.9

Plate Offsets (X, Y): [5:0-1-12,0-2-0], [9:0-3-0,0-2-12], [13:0-1-12,0-2-0], [15:0-4-0,0-4-8], [23:0-2-0,0-0-11], [24:0-1-10,0-1-0]

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	0.54	Vert(LL)	-0.12	11-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.24	11-13	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 213 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 19-10:2x6 DF No.2
OTHERS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 10=0-5-8, 14=0-5-8, 17=0-3-8, 18=0-9-0
Max Horiz 18=104 (LC 9)
Max Uplift 10=-53 (LC 12), 14=-113 (LC 8), 17=-28 (LC 12), 18=-14 (LC 8)
Max Grav 10=957 (LC 1), 14=1867 (LC 1), 17=640 (LC 1), 18=22 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-19/72, 1-2=-72/175, 2-3=-78/136, 3-5=-200/892, 5-6=-1774/496, 6-8=-2059/640, 8-9=-2060/645, 9-10=-871/198, 9-19=0/0
BOT CHORD 17-18=-186/312, 16-17=-208/229, 14-16=-175/210, 13-14=-886/307, 11-13=-308/1767, 10-11=-113/142
WEBS 2-17=-426/137, 3-16=-3/117, 5-14=-1363/322, 6-13=-618/223, 8-11=-587/210, 9-11=-337/2015, 6-11=-145/297, 5-13=-504/2747, 3-14=-802/134, 2-16=-21/41, 1-17=-189/102

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 15-1-12, Exterior (2) 15-1-12 to 19-10-12, Corner (3) 19-10-12 to 34-10-12 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
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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 (||) MT20 unless otherwise indicated.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 18, 53 lb uplift at joint 10, 28 lb uplift at joint 17 and 113 lb uplift at joint 14.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 26, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard Except:
26) User defined (1): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-32=27, 32-33=26, 9-33=27, 10-18=-12
Horz: 1-18=17, 1-32=-35, 32-33=-34, 9-33=-35, 9-10=27, 9-19=45
Concentrated Loads (lb)
Horz: 19=-200
27) User defined (2): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-32=27, 32-33=26, 9-33=27, 10-18=-12

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Continued on page 2

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Horz: 1-18=17, 1-32=-35, 32-33=-34, 9-33=-35, 9-10=27, 9-19=45

Concentrated Loads (lb)

Horz: 19=200

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N04	Monopitch	6	1	R87439364
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:51 Page: 1
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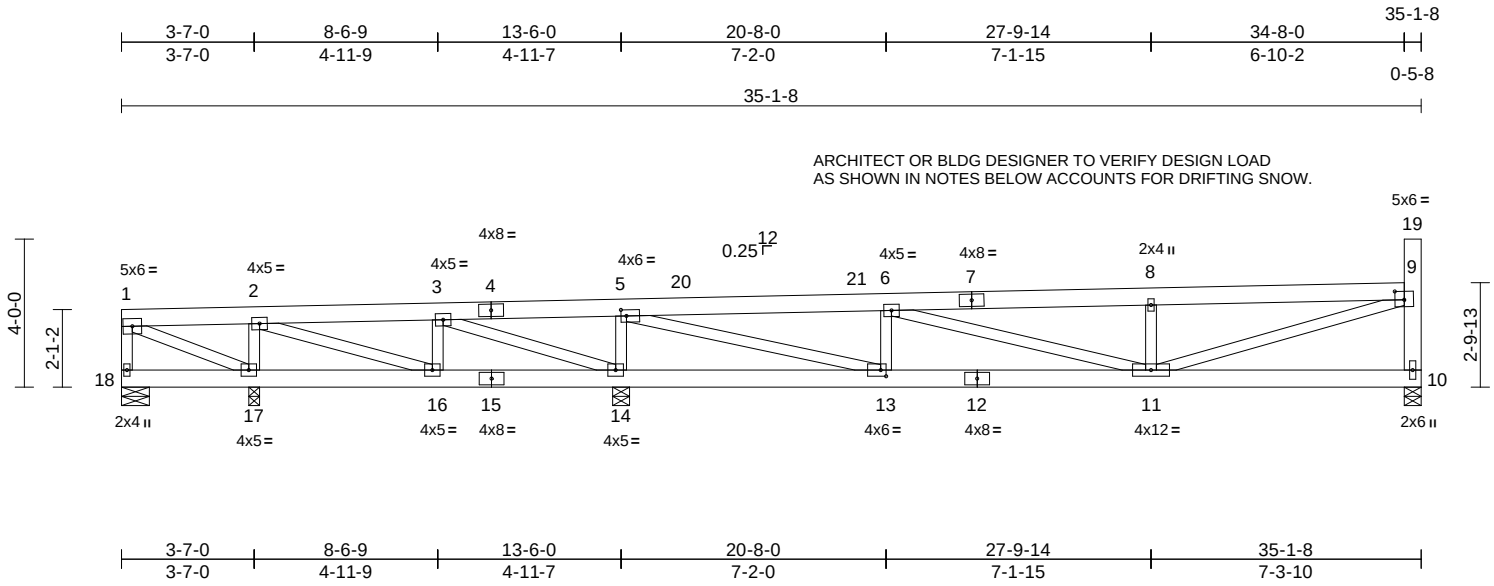

Scale = 1:62.3

Plate Offsets (X, Y): [5:0-1-12,0-2-0], [9:0-3-0,0-2-12], [13:0-1-12,0-2-0]

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	0.54	Vert(LL)	-0.12	11-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.24	11-13	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 206 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 19-10:2x6 DF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 10=0-5-8, 14=0-5-8, 17=0-3-8, 18=0-9-0
Max Horiz 18=104 (LC 9)
Max Uplift 10=-53 (LC 12), 14=-113 (LC 8), 17=-28 (LC 12), 18=-14 (LC 8)
Max Grav 10=957 (LC 1), 14=1867 (LC 1), 17=640 (LC 1), 18=22 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-19/72, 1-2=-72/175, 2-3=-78/136, 3-5=-200/892, 5-6=-1774/496, 6-8=-2059/640, 8-9=-2060/645, 9-10=-871/198, 9-19=0/0
BOT CHORD 17-18=-186/312, 16-17=-208/229, 14-16=-175/210, 13-14=-886/307, 11-13=-308/1767, 10-11=-113/142
WEBS 2-17=-426/137, 3-16=-3/117, 5-14=-1363/322, 6-13=-618/223, 8-11=-587/210, 1-17=-189/102, 2-16=-21/41, 3-14=-802/134, 5-13=-504/2747, 6-11=-145/297, 9-11=-337/2015

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 15-1-12, Exterior (2) 15-1-12 to 19-10-12, Corner (3) 19-10-12 to 34-10-12 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
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 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 18, 53 lb uplift at joint 10, 28 lb uplift at joint 17 and 113 lb uplift at joint 14.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 26, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard Except:
26) User defined (1): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-20=27, 20-21=26, 9-21=27, 10-18=-12
Horz: 1-18=17, 1-20=-35, 20-21=-34, 9-21=-35, 9-10=27, 9-19=45
Concentrated Loads (lb)
Horz: 19=200
27) User defined (2): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-20=27, 20-21=26, 9-21=27, 10-18=-12
Horz: 1-18=17, 1-20=-35, 20-21=-34, 9-21=-35, 9-10=27, 9-19=45
Concentrated Loads (lb)
Horz: 19=-200

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439365
4449076	N05	Monopitch	16	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:52 Page: 1
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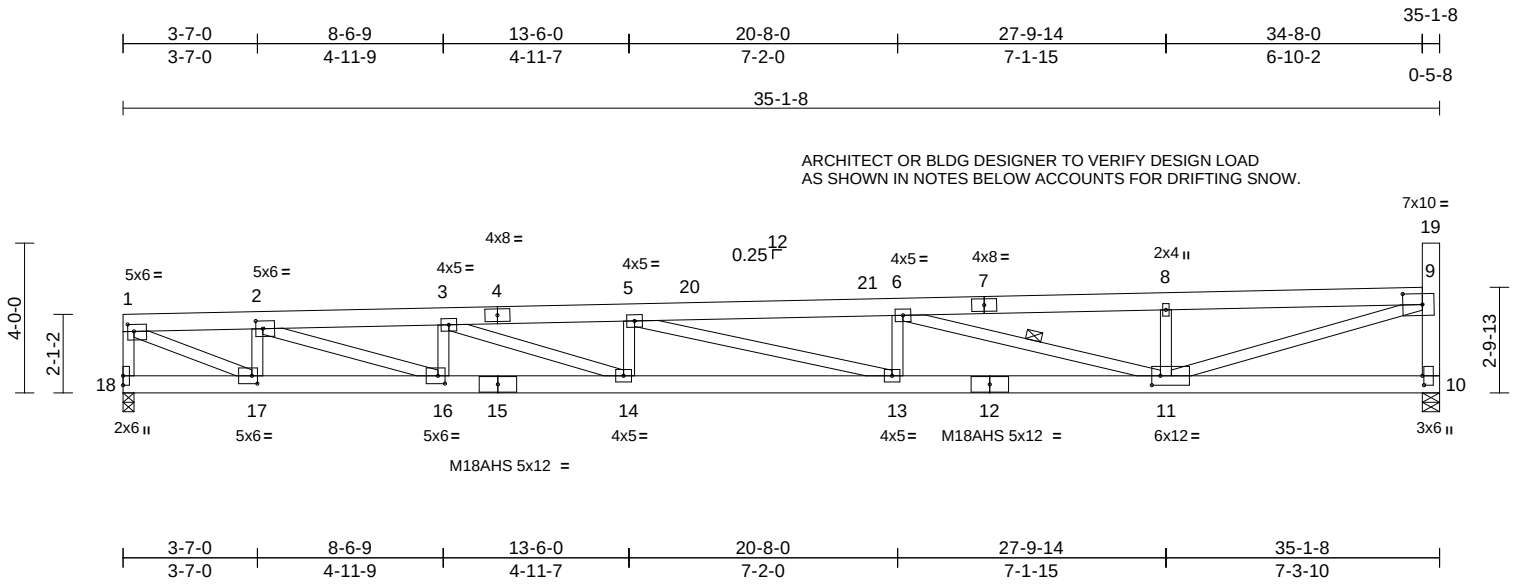

Scale = 1:61.5

Plate Offsets (X, Y): [1:0-2-0,0-2-4], [2:0-2-4,0-2-8], [9:0-6-4,0-3-8], [10:0-3-0,0-0-8], [11:0-2-12,0-3-0], [16:0-2-4,0-2-8], [17:0-1-12,0-2-8]

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	0.81	Vert(LL)	-0.54	13-14	>777	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.55	Vert(CT)	-1.08	13-14	>386	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.11	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 206 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 19-10:2x6 DF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-15 oc bracing.
WEBS 1 Row at midpt 6-11

REACTIONS (size) 10=0-5-8, 18=0-3-8
Max Horiz 18=104 (LC 9)
Max Uplift 10=-99 (LC 12), 18=-106 (LC 8)
Max Grav 10=1738 (LC 1), 18=1738 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-1677/268, 1-2=-3199/469, 2-3=-6009/896, 3-5=-7445/1122, 5-6=-7116/1098, 6-8=-4482/741, 8-9=-4482/746, 9-10=-1626/296, 9-19=0/0
BOT CHORD 17-18=-201/355, 16-17=-624/3196, 14-16=-999/6003, 13-14=-1172/7441, 11-13=-1086/7108, 10-11=-54/214
WEBS 2-17=-1396/281, 3-16=-904/206, 3-14=-236/1531, 2-16=-449/2970, 1-17=-517/3441, 5-14=-402/156, 6-13=0/351, 8-11=-561/197, 9-11=-681/4493, 6-11=-2740/429, 5-13=-378/89

NOTES

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 15-1-12, Exterior (2) 15-1-12 to 19-10-12, Corner (3) 19-10-12 to 34-10-12 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
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) All plates are MT20 plates unless otherwise indicated.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 18 and 99 lb uplift at joint 10.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 26, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . 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 Except:

26) User defined (1): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 10-18=-12, 1-5=-26, 5-9=-5
Horz: 1-5=17, 5-9=-4, 9-10=27, 9-19=45
Concentrated Loads (lb)
Horz: 19=200
27) User defined (2): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 10-18=-12, 1-5=-26, 5-9=-5
Horz: 1-5=17, 5-9=-4, 9-10=27, 9-19=45
Concentrated Loads (lb)
Horz: 19=-200 (F)

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N06	Monopitch Girder	2	**2**	R87439366
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:52 Page: 1
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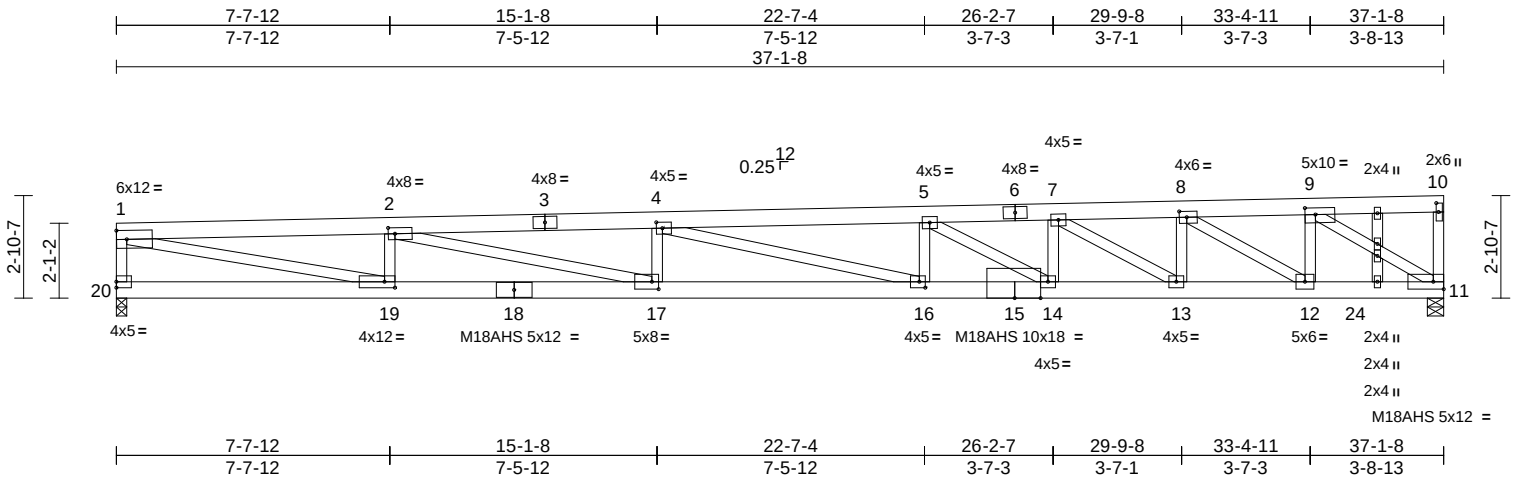

Scale = 1:64.4

Plate Offsets (X, Y): [2:0-2-4,0-2-0], [4:0-2-0,0-2-0], [8:0-2-8,0-2-0], [9:0-3-8,0-2-4], [10:0-3-1,0-1-0], [15:0-8-11,Edge], [16:0-2-0,0-2-0], [17:0-2-4,0-2-8], [19:0-3-8,0-2-0]

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	0.66	Vert(LL)	-0.73	16-17	>603	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-1.50	16-17	>295	180	M18AHS	145/140
TCDL	15.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.18	11	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 439 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 19-1,9-11:2x4 DF 1800F 1.6E
OTHERS 2x4 HF No.2

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

REACTIONS (size) 11=0-5-8, (req. 0-6-6), 20=0-3-8
Max Horiz 20=214 (LC 31)
Max Uplift 11=-671 (LC 33), 20=-444 (LC 24)
Max Grav 11=7732 (LC 1), 20=3316 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-3158/470, 10-11=-917/79, 1-2=-12151/1726, 2-4=-19495/2426, 4-5=-23102/2752, 5-7=-22132/2187, 7-8=-17694/1717, 8-9=-10427/1088, 9-10=-400/315
BOT CHORD 19-20=-168/485, 17-19=-1559/12141, 16-17=-2861/19486, 14-16=-3787/23363, 13-14=-3851/22771, 12-13=-3669/18713, 11-12=-3329/11940
WEBS 1-19=-1717/11986, 8-13=-345/2765, 5-16=-722/406, 4-17=-1642/398, 2-19=-2491/477, 2-17=-1340/7780, 4-16=-957/4592, 9-11=-12239/1133, 9-12=-445/4558, 8-12=-8574/927, 7-13=-5201/749, 7-14=-242/780, 5-14=-1441/538

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, 2x6 - 2 rows staggered at 0-6-0 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, Except member 5-16 2x4 - 1 row at 0-6-0 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) 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.
5) 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.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
13) All bearings are assumed to be HF No.2 .
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 444 lb uplift at joint 20 and 671 lb uplift at joint 11.
15) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
16) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 34-8-0 to 37-1-8 for 1220.3 plf.
17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 413 lb down and 151 lb up at 22-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
18) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

April 1,2025

Continued on page 2

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Uniform Loads (lb/ft)
Vert: 11-20=-20, 1-5=-80, 5-10=-579
Concentrated Loads (lb)
Vert: 16=-192 (F)

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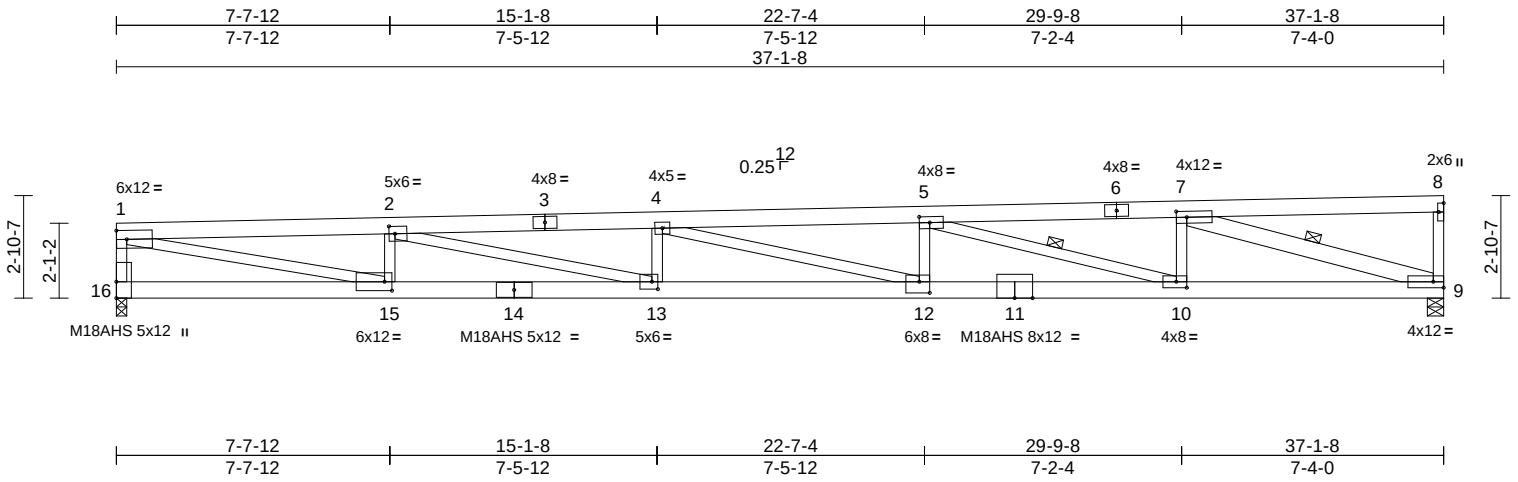
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439367
4449076	N07	Monopitch Girder	4	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:53 Page: 1
ID:fr274AkH3FAQi5l3BFcyVNzhz?i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:64.4

Plate Offsets (X, Y): [2:0-2-0,0-2-8], [5:0-3-8,0-2-0], [7:0-3-8,0-2-0], [8:Edge,0-3-8], [10:0-3-8,0-2-0], [12:0-3-8,0-3-12], [13:0-2-0,0-2-8], [15:0-2-8,0-3-0]

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	0.60	Vert(LL)	-0.66	12-13	>665	240	M18AHS	145/140
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.69	Vert(CT)	-1.45	12-13	>306	180	MT20	185/148
TCDL	15.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.17	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 221 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF 2400F 2.0E *Except* 6-8:2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 9-7:2x6 DF No.2, 5-10,1-15:2x4 DF 1800F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-14 oc bracing.
WEBS 1 Row at midpt 7-9, 5-10

REACTIONS (size) 9=0-5-8, 16=0-3-8
Max Horiz 16=60 (LC 7)
Max Uplift 9=-292 (LC 8), 16=-226 (LC 4)
Max Grav 9=2077 (LC 1), 16=1992 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-1868/257, 8-9=-256/55, 1-2=-6762/835, 2-4=-9533/1386, 4-5=-9557/1660, 5-7=-5644/885, 7-8=-95/24
BOT CHORD 15-16=-47/282, 13-15=-821/6754, 12-13=-1368/9524, 10-12=-1637/9551, 9-10=-859/5639
WEBS 7-9=-5831/908, 2-15=-1318/284, 4-13=-544/213, 5-12=-130/797, 7-10=-141/1315, 5-10=-4076/811, 4-12=-654/916, 2-13=-562/3014, 1-15=-830/6625

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 16 and 292 lb uplift at joint 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 414 lb down and 150 lb up at 22-5-4, and 413 lb down and 151 lb up at 22-5-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) 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: 9-16=-20, 1-8=-80
Concentrated Loads (lb)
Vert: 12=-385 (F=-193, B=-192)

April 1,2025

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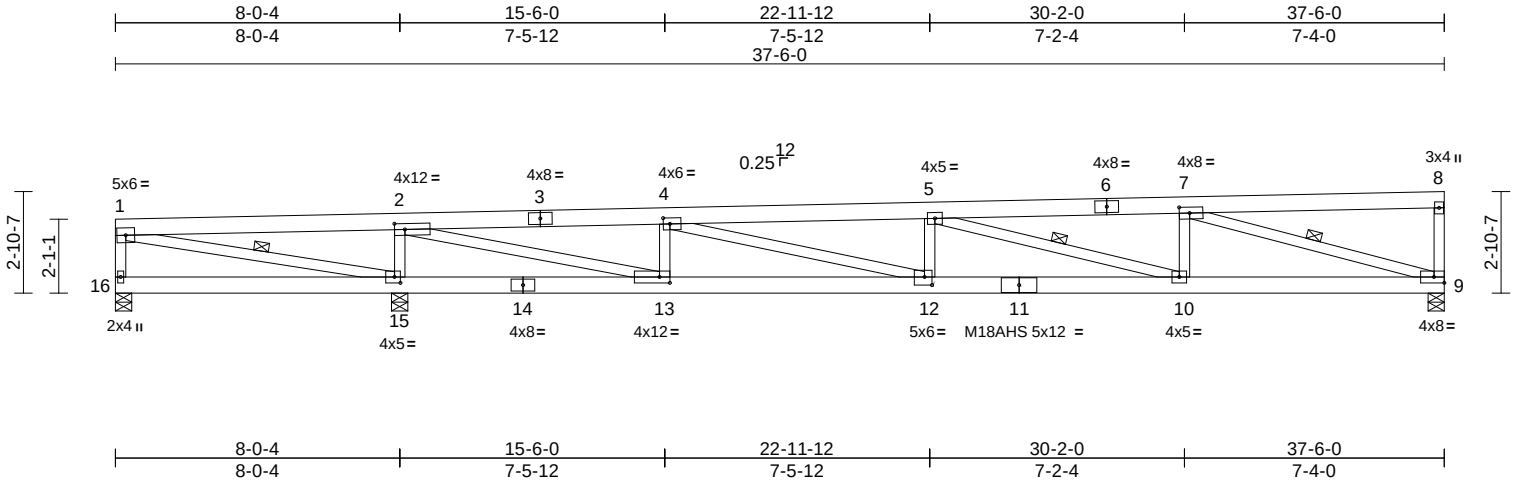
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439368
4449076	N08	Monopitch Girder	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:53 Page: 1
ID:le3m7Uqo10PhNzFuUnI8eGzhz29-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:65

Plate Offsets (X, Y): [2:0-3-8,0-2-0], [4:0-2-4,0-2-0], [7:0-3-8,0-2-0], [12:0-2-8,0-2-12], [13:0-3-8,0-2-0], [15:0-2-0,0-2-0]

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)	0.33	12-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.69	12-13	>511	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 216 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E *Except* 16-14:2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 7-9,2-13:2x4 DF 1800F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-1 oc bracing.
WEBS 1 Row at midpt 7-9, 5-10, 1-15

REACTIONS (size) 9=0-5-8, 15=0-5-8, 16=0-5-8
Max Horiz 16=60 (LC 7)
Max Uplift 9=-230 (LC 8), 15=-396 (LC 8), 16=-216 (LC 18)
Max Grav 9=1497 (LC 1), 15=2726 (LC 1), 16=74 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-26/238, 8-9=-258/55, 1-2=-355/1837, 2-4=-3283/579, 4-5=-5753/1241, 5-7=-3828/689, 7-8=-98/25
BOT CHORD 15-16=-84/35, 13-15=-1829/369, 12-13=-561/3275, 10-12=-1218/5747, 9-10=-662/3822
WEBS 2-15=-2084/411, 4-13=-1135/312, 5-12=-217/515, 7-10=-77/728, 7-9=-3923/700, 5-10=-2015/580, 4-12=-680/2555, 2-13=-954/5250, 1-15=-1846/343

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 16, 230 lb uplift at joint 9 and 396 lb uplift at joint 15.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 414 lb down and 150 lb up at 22-9-12, and 394 lb down and 184 lb up at 22-9-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) 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: 9-16=-20, 1-8=-80
Concentrated Loads (lb)
Vert: 12=-348 (F=-155, B=-193)

April 1,2025

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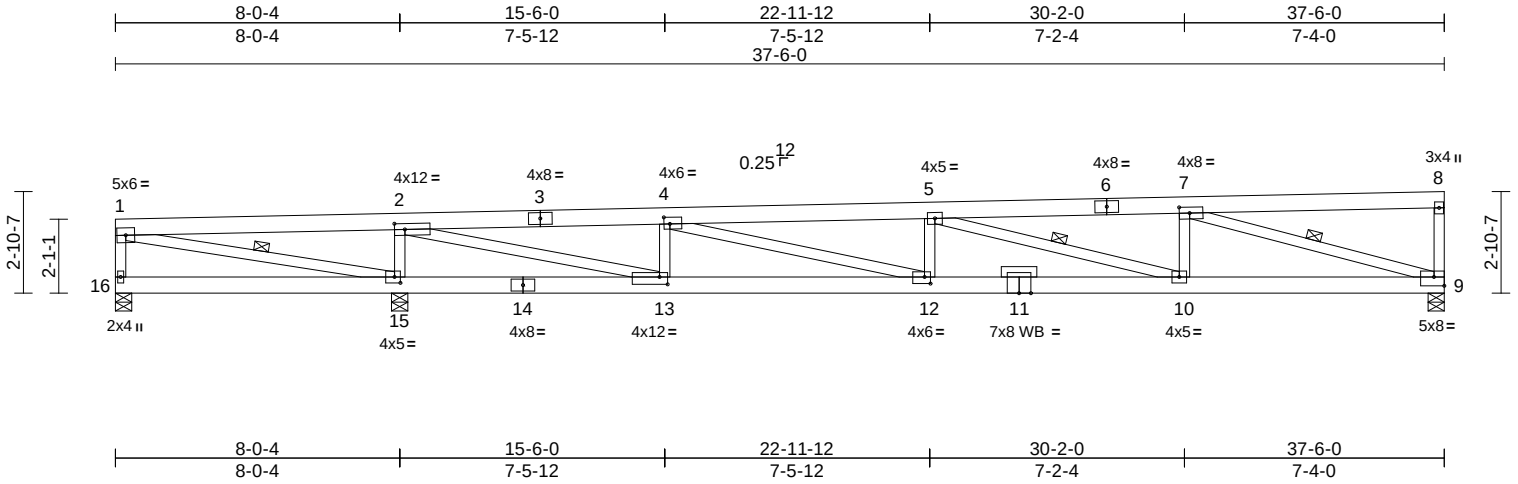
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N09	Monopitch Girder	10	1	R87439369
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:53 Page: 1
ID:vzryUt4PVGove4OGhcjvxOzhz5i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:65

Plate Offsets (X, Y): [2:0-3-8,0-2-0], [4:0-2-0,0-2-4], [7:0-3-8,0-2-0], [9:Edge,0-3-0], [12:0-2-0,0-2-4], [13:0-2-12,0-2-8], [15:0-2-0,0-2-0]

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	0.97	Vert(LL)	-0.31	12-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.69	12-13	>512	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 217 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 2-13,7-9:2x4 DF 1800F 1.6E
OTHERS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-2-13 oc bracing.
WEBS 1 Row at midpt 1-15, 5-10, 7-9

REACTIONS (size) 9=0-5-8, 15=0-5-8, 16=0-5-8
Max Horiz 16=60 (LC 5)
Max Uplift 9=-94 (LC 8), 15=-172 (LC 8), 16=-213 (LC 18)
Max Grav 9=1491 (LC 1), 15=2775 (LC 1), 16=13 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=0/241, 1-2=-121/1903, 2-4=-3153/210, 4-5=-5318/365, 5-7=-3749/254, 7-8=-95/21, 8-9=-259/55
BOT CHORD 15-16=-78/23, 13-15=-1894/135, 12-13=-191/3145, 10-12=-342/5310, 9-10=-227/3743
WEBS 2-15=-2104/244, 5-12=-147/404, 1-15=-1921/117, 2-13=-334/5182, 4-13=-1129/169, 4-12=-156/2311, 5-10=-1739/120, 7-10=0/644, 7-9=-3834/249

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 16, 94 lb uplift at joint 9 and 172 lb uplift at joint 15.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 414 lb down and 150 lb up at 22-9-12, and 180 lb down at 22-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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: 1-8=-80, 9-16=-20
Concentrated Loads (lb)
Vert: 12=-354 (F=-161, B=-193)

April 1,2025

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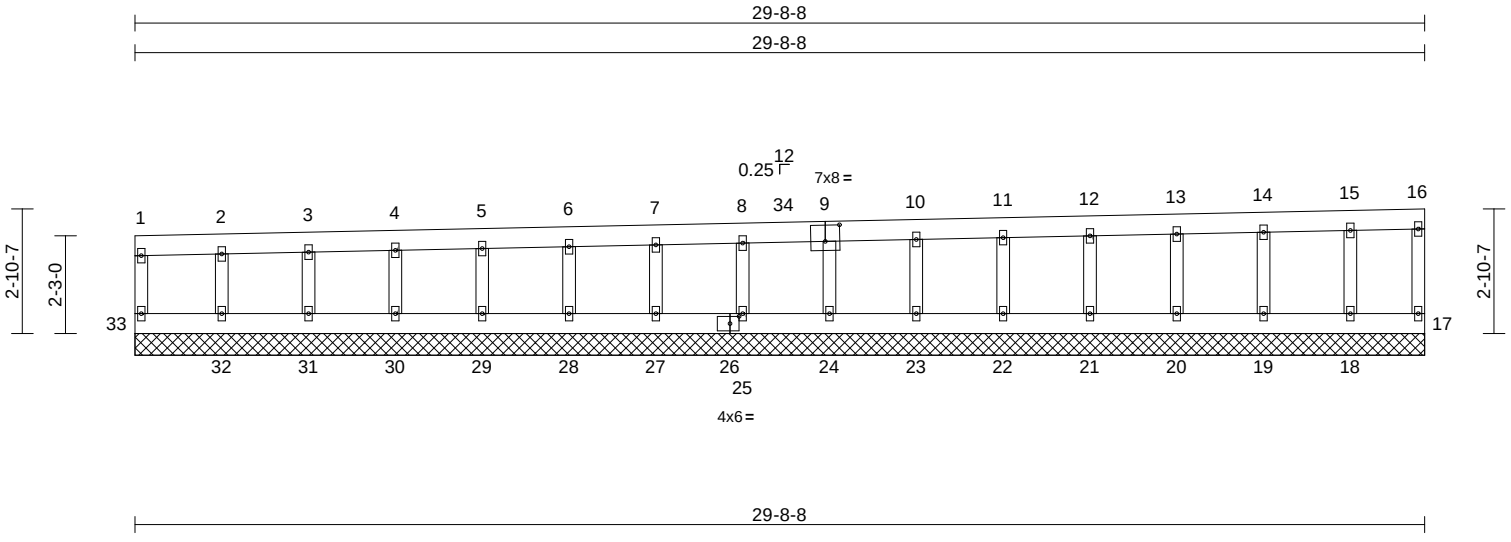
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439370
4449076	N10	Monopitch Supported Gable	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:54 Page: 1
ID:M6N259OO9rpf0QGFoKXT8mzhyvg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:53.1

Plate Offsets (X, Y): [9:0-4-0,0-4-8], [26:0-2-8,0-2-0]

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horiz(TL)	0.00	17	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 157 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 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) 17=29-8-8, 18=29-8-8, 19=29-8-8, 20=29-8-8, 21=29-8-8, 22=29-8-8, 23=29-8-8, 24=29-8-8, 25=29-8-8, 27=29-8-8, 28=29-8-8, 29=29-8-8, 30=29-8-8, 31=29-8-8, 32=29-8-8, 33=29-8-8
Max Horiz 33=60 (LC 9)
Max Uplift 17=-16 (LC 12), 18=-75 (LC 8), 19=-71 (LC 12), 20=-70 (LC 8), 21=-70 (LC 8), 22=-69 (LC 12), 23=-78 (LC 8), 24=-61 (LC 12), 25=-19 (LC 8), 27=-10 (LC 12), 28=-12 (LC 8), 29=-12 (LC 8), 30=-11 (LC 12), 31=-15 (LC 8), 32=-22 (LC 9), 33=-17 (LC 8)
Max Grav 17=347 (LC 1), 18=1167 (LC 1), 19=1221 (LC 1), 20=1195 (LC 1), 21=1200 (LC 1), 22=1182 (LC 1), 23=1275 (LC 1), 24=1080 (LC 1), 25=300 (LC 1), 27=171 (LC 1), 28=204 (LC 1), 29=200 (LC 1), 30=198 (LC 1), 31=210 (LC 1), 32=159 (LC 1), 33=120 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-47/16, 2-3=-46/17, 3-4=-46/19, 4-5=-46/20, 5-6=-46/22, 6-7=-46/23, 7-8=-45/25, 8-10=-47/34, 10-11=-16/33, 11-12=-15/32, 12-13=-16/32, 13-14=-16/32, 14-15=-17/31, 15-16=-17/30, 16-17=-349/87, 1-33=-82/38
BOT CHORD 32-33=-51/78, 31-32=-51/78, 30-31=-51/78, 29-30=-51/78, 28-29=-51/78, 27-28=-51/78, 25-27=-51/78, 24-25=-51/78, 23-24=-49/51, 22-23=-49/51, 21-22=-49/51, 20-21=-49/51, 19-20=-49/51, 18-19=-49/51, 17-18=-49/51
WEBS 14-19=-1184/246, 2-32=-144/88, 3-31=-164/63, 4-30=-159/60, 5-29=-160/60, 6-28=-164/61, 7-27=-131/61, 8-25=-260/84, 9-24=-1041/241, 10-23=-1235/261, 11-22=-1142/241, 12-21=-1160/240, 13-20=-1154/238, 15-18=-1112/230

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
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 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 17, 17 lb uplift at joint 33, 71 lb uplift at joint 19, 22 lb uplift at joint 32, 15 lb uplift at joint 31, 11 lb uplift at joint 30, 12 lb uplift at joint 29, 12 lb uplift at joint 28, 10 lb uplift at joint 27, 19 lb uplift at joint 25, 61 lb uplift at joint 24, 78 lb uplift at joint 23, 69 lb uplift at joint 22, 70 lb uplift at joint 21, 70 lb uplift at joint 20 and 75 lb uplift at joint 18.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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.sbcscomponents.com)

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1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-34=-80, 16-34=-579, 17-33=-20

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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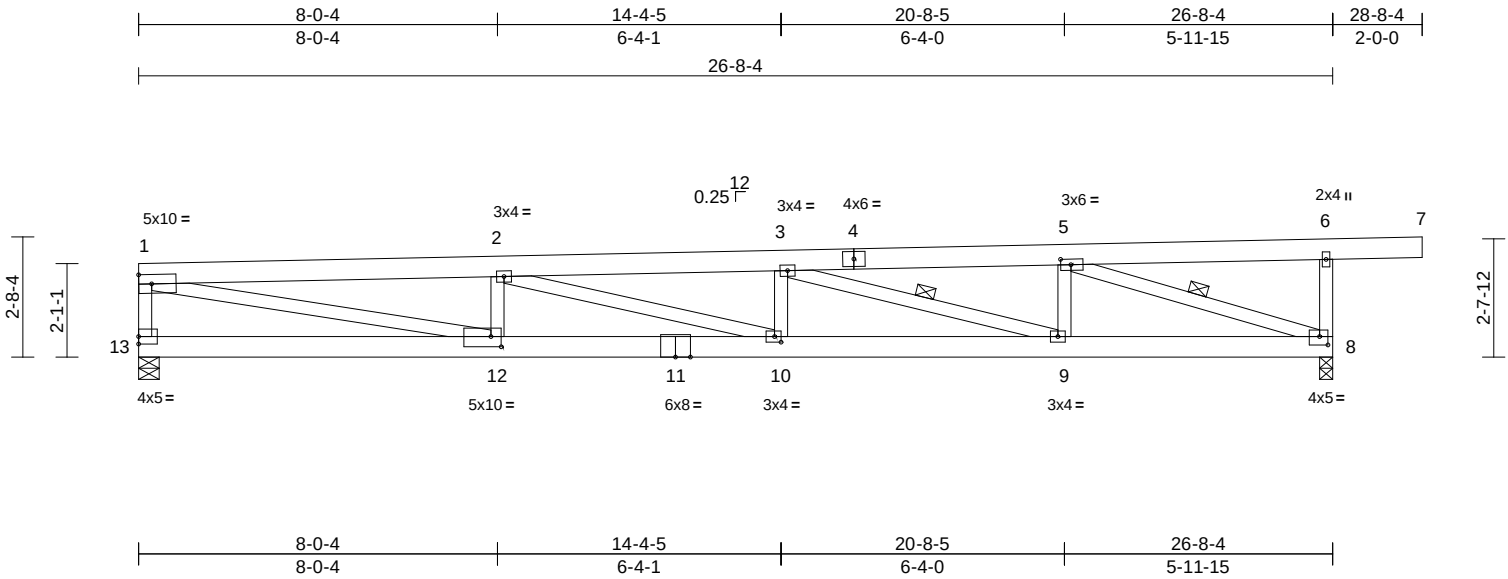
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N11	Monopitch	12	1	R87439371
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:54 Page: 1
ID:i_3Esdet?Utbyky8cbvi5Uzhywf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51.5

Plate Offsets (X, Y): [5:0-2-12,0-1-8], [8:0-2-4,0-2-4], [10:0-1-12,0-1-8], [12:0-2-12,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.29	10-12	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.57	10-12	>553	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 157 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.
WEBS 1 Row at midpt 5-8, 3-9

REACTIONS (size) 8=0-3-8, 13=0-5-8
Max Horiz 13=55 (LC 9)
Max Uplift 8=-108 (LC 12), 13=-77 (LC 8)
Max Grav 8=1498 (LC 1), 13=1313 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-13=-1195/294, 1-2=-4064/810, 2-3=-4488/901, 3-5=-2925/594, 5-6=-72/37, 6-7=-6/0, 6-8=-418/152
BOT CHORD 12-13=-133/255, 10-12=-867/4056, 9-10=-933/4481, 8-9=-602/2919
WEBS 2-12=-701/271, 3-10=0/160, 5-9=-13/586, 5-8=-3030/609, 3-9=-1633/346, 2-10=-92/442, 1-12=-781/3883

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 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.
4) Provide adequate drainage to prevent water ponding.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 13 and 108 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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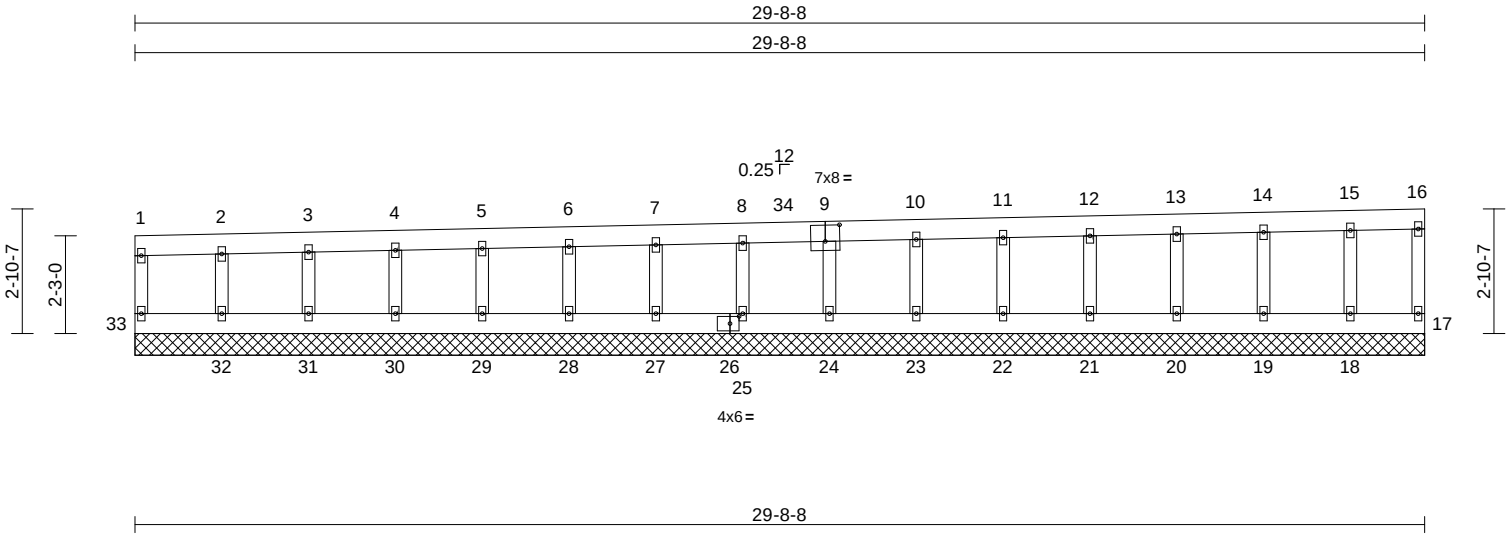
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439372
4449076	N12	Common Girder	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:54 Page: 1
ID:ZscQNnCTbOB_6sCNzZ2lyMzhy6H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:53.1

Plate Offsets (X, Y): [9:0-4-0,0-4-8], [26:0-2-8,0-2-0]

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	0.27	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	15.0	Rep Stress Incr	NO	WB	0.21	Horiz(TL)	0.00	17	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 157 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 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) 17=29-8-8, 18=29-8-8, 19=29-8-8, 20=29-8-8, 21=29-8-8, 22=29-8-8, 23=29-8-8, 24=29-8-8, 25=29-8-8, 27=29-8-8, 28=29-8-8, 29=29-8-8, 30=29-8-8, 31=29-8-8, 32=29-8-8, 33=29-8-8
Max Horiz 33=60 (LC 9)
Max Uplift 17=-23 (LC 12), 18=-97 (LC 8), 19=-94 (LC 12), 20=-93 (LC 8), 21=-93 (LC 8), 22=-91 (LC 12), 23=-102 (LC 8), 24=-80 (LC 12), 25=-22 (LC 8), 27=-9 (LC 12), 28=-12 (LC 8), 29=-12 (LC 8), 30=-11 (LC 12), 31=-16 (LC 8), 32=-23 (LC 9), 33=-18 (LC 8)
Max Grav 17=457 (LC 1), 18=1538 (LC 1), 19=1609 (LC 1), 20=1574 (LC 1), 21=1581 (LC 1), 22=1557 (LC 1), 23=1682 (LC 1), 24=1416 (LC 1), 25=339 (LC 1), 27=160 (LC 1), 28=206 (LC 1), 29=200 (LC 1), 30=197 (LC 1), 31=213 (LC 1), 32=143 (LC 1), 33=133 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-33=-89/40, 1-2=-58/18, 2-3=-57/19, 3-4=-57/21, 4-5=-57/22, 5-6=-56/24, 6-7=-56/26, 7-8=-55/27, 8-10=-58/40, 10-11=-16/39, 11-12=-16/39, 12-13=-16/38, 13-14=-16/38, 14-15=-17/37, 15-16=-17/30, 16-17=-464/108
BOT CHORD 32-33=-54/87, 31-32=-54/87, 30-31=-54/87, 29-30=-54/87, 28-29=-54/87, 27-28=-54/87, 25-27=-54/87, 24-25=-54/87, 23-24=-51/52, 22-23=-51/52, 21-22=-51/52, 20-21=-51/52, 19-20=-51/52, 18-19=-51/52, 17-18=-51/52
WEBS 2-32=-136/87, 3-31=-165/63, 4-30=-159/60, 5-29=-159/60, 6-28=-166/61, 7-27=-120/59, 8-25=-299/91, 9-24=-1377/301, 10-23=-1642/334, 11-22=-1517/308, 12-21=-1541/308, 13-20=-1532/306, 14-19=-1573/315, 15-18=-1477/296

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
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 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 33, 23 lb uplift at joint 17, 23 lb uplift at joint 32, 16 lb uplift at joint 31, 11 lb uplift at joint 30, 12 lb uplift at joint 29, 12 lb uplift at joint 28, 9 lb uplift at joint 27, 22 lb uplift at joint 25, 80 lb uplift at joint 24, 102 lb uplift at joint 23, 91 lb uplift at joint 22, 93 lb uplift at joint 21, 93 lb uplift at joint 20, 94 lb uplift at joint 19 and 97 lb uplift at joint 18.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

Continued on page 2

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1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-34=-80, 16-34=-769, 17-33=-20

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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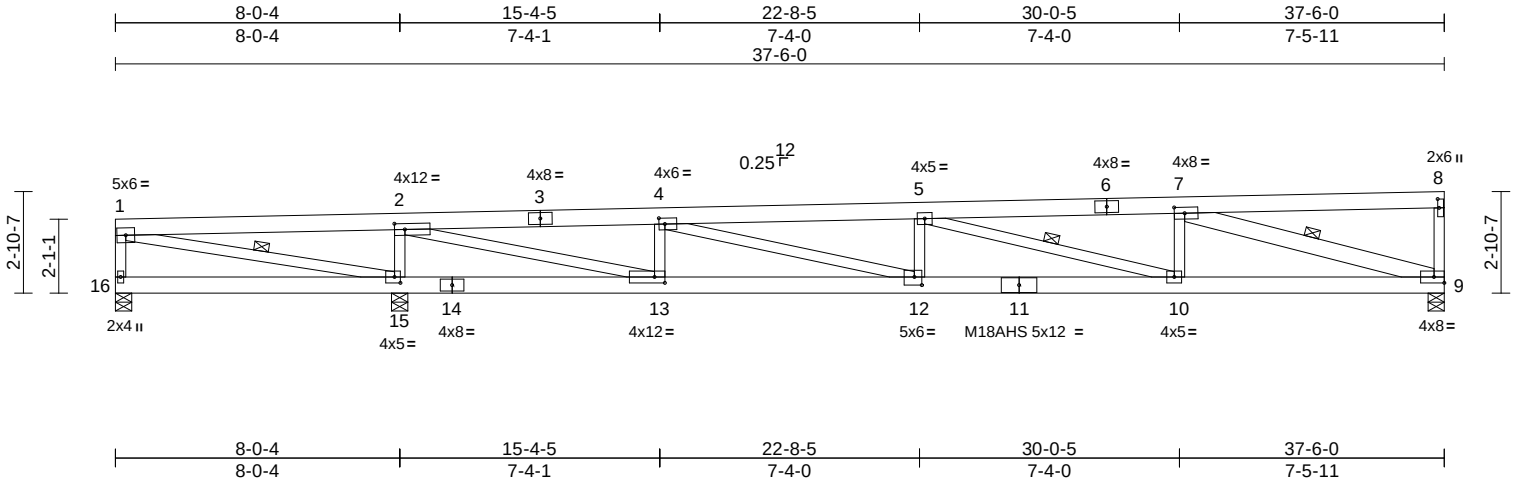
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439373
4449076	N13	Monopitch Girder	6	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:55 Page: 1
ID:6G8Bv7IpwFTPomxws?r979zhyHn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:65

Plate Offsets (X, Y): [2:0-3-8,0-2-0], [4:0-2-0,0-2-0], [7:0-3-8,0-2-0], [8:0-3-1,0-1-4], [12:0-2-8,0-2-12], [13:0-3-8,0-2-0], [15:0-2-0,0-2-0]

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	0.92	Vert(LL)	0.32	12-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.66	12-13	>534	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 222 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 13-2:2x4 DF 1800F 1.6E, 9-7:2x6 DF 2400F 2.0E

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-15, 5-10, 7-9

REACTIONS (size) 9=0-5-8, 15=0-5-8, 16=0-5-8
Max Horiz 16=60 (LC 7)
Max Uplift 9=-218 (LC 8), 15=-385 (LC 8), 16=-216 (LC 18)
Max Grav 9=1505 (LC 1), 15=2739 (LC 1), 16=70 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-23/233, 8-9=-253/58, 1-2=-336/1813, 2-4=-3264/552, 4-5=-5809/1184, 5-7=-3949/671, 7-8=-79/21
BOT CHORD 15-16=-89/33, 13-15=-1806/350, 12-13=-534/3256, 10-12=-1161/5802, 9-10=-644/3943
WEBS 2-15=-2088/401, 1-15=-1817/325, 4-13=-1159/304, 2-13=-908/5212, 4-12=-650/2634, 5-12=-244/512, 5-10=-1939/538, 7-10=-62/718, 7-9=-4063/684

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 16, 218 lb uplift at joint 9 and 385 lb uplift at joint 15.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 414 lb down and 150 lb up at 22-9-12, and 405 lb down and 165 lb up at 22-9-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) 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: 9-16=-20, 1-8=-80
Concentrated Loads (lb)
Vert: 12=-370 (F=-193, B=-176)

April 1,2025

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	MKM EAST TOWN CROSSING BLDG D
4449076	N13A	Monopitch Girder	2	1	R87439374
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:55 Page: 1
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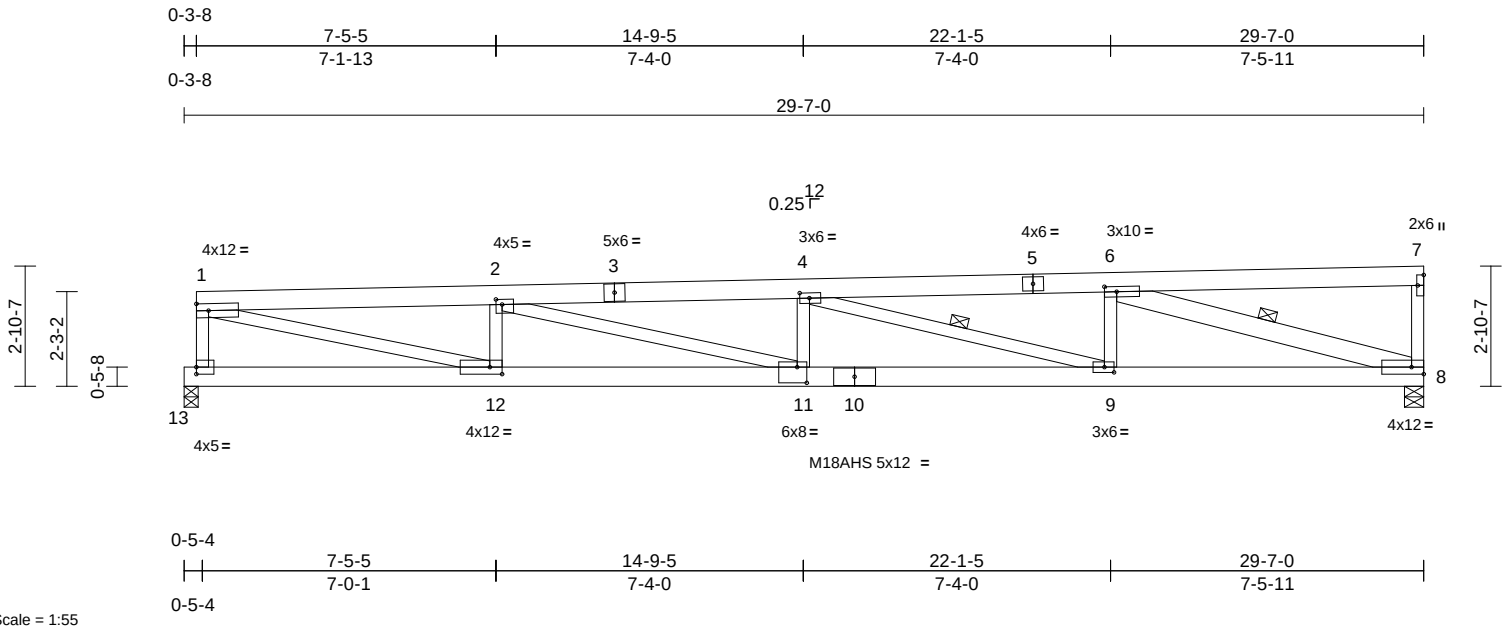

Scale = 1:55

Plate Offsets (X, Y): [2:0-1-12,0-1-8], [4:0-2-12,0-1-8], [6:0-3-8,0-1-8], [7:Edge,0-3-8], [9:0-2-12,0-1-8], [11:0-2-12,0-4-8], [12:0-3-8,0-2-0], [13:Edge,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)	0.44	11-12	>788	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.85	11-12	>409	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 177 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 12-1:2x4 DF 1800F 1.6E, 8-6:2x6 DF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-9-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
7-10-5 oc bracing: 9-11.
WEBS 1 Row at midpt 6-8, 4-9

REACTIONS (size) 8=0-5-8, 13=0-4-0
Max Horiz 13=60 (LC 7)
Max Uplift 8=-307 (LC 8), 13=-314 (LC 4)
Max Grav 8=1794 (LC 2), 13=1805 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-13=-1707/343, 7-8=-255/58, 1-2=-5468/1050, 2-4=-7908/1776, 4-6=-4969/962, 6-7=-90/24
BOT CHORD 12-13=-54/175, 11-12=-1032/5462, 9-11=-1754/7901, 8-9=-935/4965
WEBS 1-12=-1064/5463, 6-8=-5121/987, 2-12=-1219/354, 4-11=-221/784, 6-9=-152/1041, 4-9=-3069/852, 2-11=-748/2559

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 13 and 307 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 827 lb down and 301 lb up at 14-10-12, and 414 lb down and 150 lb up at 14-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) 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: 8-13=-20, 1-7=-80
Concentrated Loads (lb)
Vert: 11=-580 (F=-193, B=-387)

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N14	Monopitch Girder	1	1	R87439375
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:55 Page: 1
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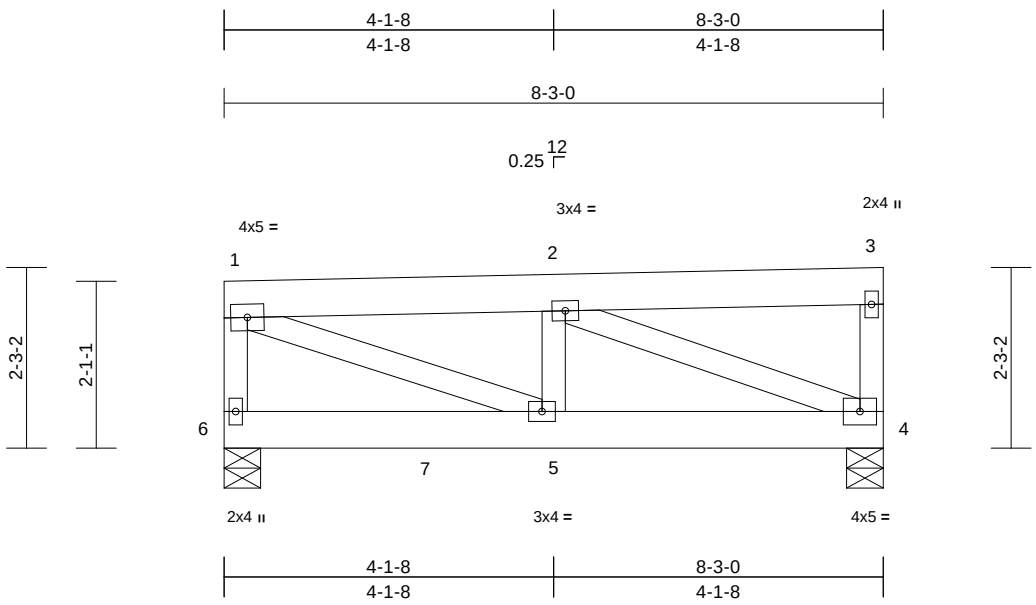

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	5-6	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	5-6	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 49 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 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) 4=0-5-8, 6=0-5-8
Max Horiz 6=44 (LC 7)
Max Uplift 4=-37 (LC 8), 6=-53 (LC 4)
Max Grav 4=510 (LC 1), 6=566 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-472/62, 1-2=-773/71, 2-3=-18/12, 3-4=-140/28
BOT CHORD 5-6=-39/29, 4-5=-51/771
WEBS 1-5=-85/833, 2-5=-9/125, 2-4=-839/69

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 6 and 37 lb uplift at joint 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 140 lb down and 21 lb up at 2-6-4, and 140 lb down and 21 lb up at 4-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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: 1-3=-80, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-140 (B), 7=-140 (B)

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N14A	Monopitch Girder	1	1	R87439376
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:55 Page: 1
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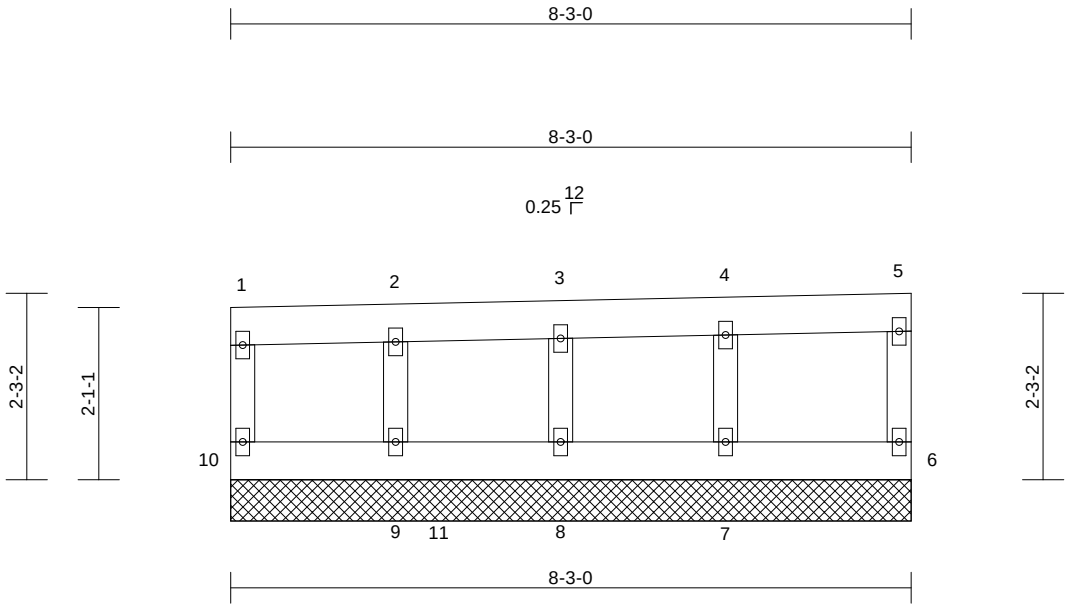

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 42 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 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) 6=8-3-0, 7=8-3-0, 8=8-3-0, 9=8-3-0, 10=8-3-0
Max Horiz 10=44 (LC 7)
Max Uplift 6=-6 (LC 5), 7=-25 (LC 22), 8=-44 (LC 4), 9=-26 (LC 5), 10=-20 (LC 22)
Max Grav 6=90 (LC 1), 7=217 (LC 1), 8=394 (LC 1), 9=343 (LC 1), 10=64 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-62/18, 1-2=-10/3, 2-3=-9/3, 3-4=-9/4, 4-5=-9/6, 5-6=-70/14
BOT CHORD 9-10=-25/19, 8-9=-25/19, 7-8=-25/19, 6-7=-25/19
WEBS 2-9=-167/33, 3-8=-156/35, 4-7=-181/43

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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) Provide adequate drainage to prevent water ponding.
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 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 10, 6 lb uplift at joint 6, 26 lb uplift at joint 9, 44 lb uplift at joint 8 and 25 lb uplift at joint 7.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 156 lb down and 24 lb up at 2-6-4, and 156 lb down and 24 lb up at 4-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) 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: 1-5=-80, 6-10=-20
Concentrated Loads (lb)
Vert: 8=-156 (F), 11=-156 (F)

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N15	Flat	1	1	R87439377
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:56 Page: 1
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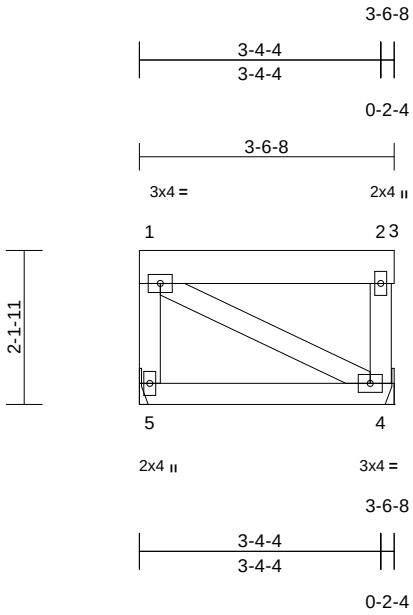

Scale = 1:32

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	0.09	Vert(LL)	-0.01	4-5	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 19 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 3-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical
Max Uplift 4=-12 (LC 9), 5=-9 (LC 8)
Max Grav 4=176 (LC 1), 5=160 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/0
WEBS 1-5=-128/101, 2-4=-144/112, 1-4=0/0

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 5 and 12 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N16	Flat	1	1	R87439378
					Job Reference (optional)

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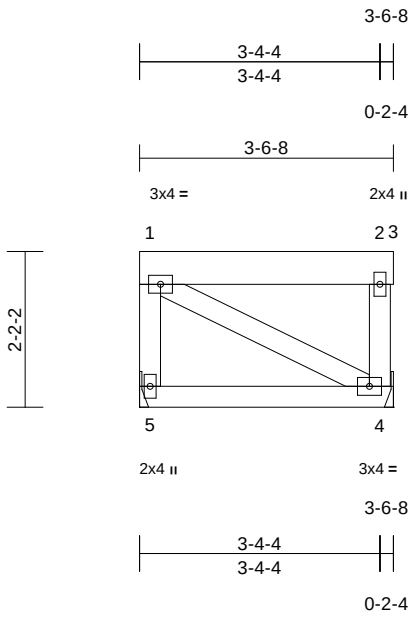

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.01	4-5	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 19 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 3-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical
Max Uplift 4=-12 (LC 9), 5=-9 (LC 8)
Max Grav 4=176 (LC 1), 5=160 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/0
WEBS 1-5=-128/101, 2-4=-144/112, 1-4=0/0

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 5 and 12 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N17	Flat Supported Gable	1	1	R87439379
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:56 Page: 1
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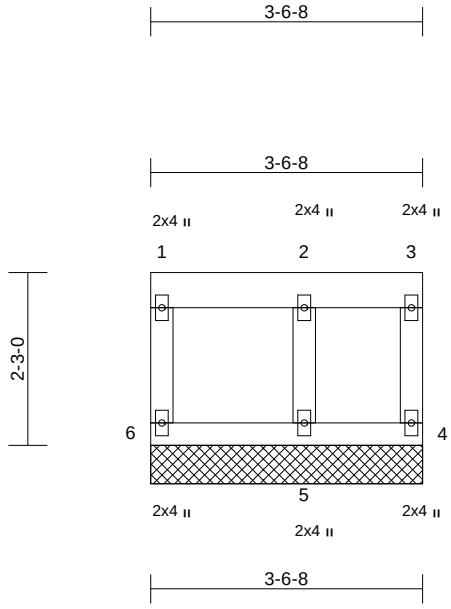

Scale = 1:30

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 17 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF 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 3-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4=3-6-8, 5=3-6-8, 6=3-6-8
Max Horiz 6=-46 (LC 10)
Max Uplift 4=-19 (LC 9), 5=-13 (LC 8), 6=-17 (LC 8)
Max Grav 4=54 (LC 1), 5=190 (LC 1), 6=81 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-65/65, 1-2=-7/9, 2-3=-7/9, 3-4=-44/50
BOT CHORD 5-6=-46/55, 4-5=-46/55
WEBS 2-5=-151/119

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 6, 19 lb uplift at joint 4 and 13 lb uplift at joint 5.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439380
4449076	N18	Monopitch Girder	12	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:56 Page: 1
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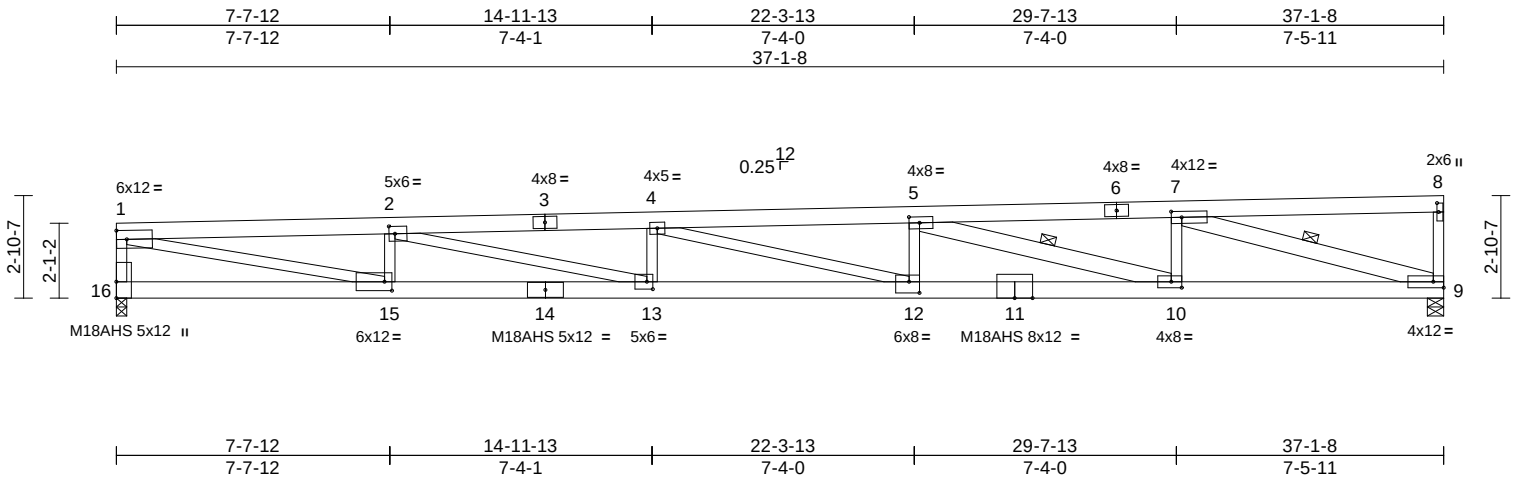

Scale = 1:64.4

Plate Offsets (X, Y): [2:0-2-0,0-2-8], [5:0-3-8,0-2-0], [7:0-3-8,0-2-0], [8:0-3-1,0-1-4], [10:0-3-8,0-2-0], [12:0-3-8,0-3-12], [13:0-2-0,0-2-8], [15:0-2-8,0-3-0]

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	0.60	Vert(LL)	-0.64	12-13	>692	240	M18AHS	145/140
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.68	Vert(CT)	-1.39	12-13	>318	180	MT20	185/148
TCDL	15.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.17	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 227 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 15-1:2x4 DF 1800F 1.6E, 9-7,5-10:2x6 DF 2400F 2.0E

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-6 oc bracing.
WEBS 1 Row at midpt 7-9, 5-10

REACTIONS (size) 9=0-5-8, 16=0-3-8
Max Horiz 16=60 (LC 7)
Max Uplift 9=-289 (LC 8), 16=-228 (LC 4)
Max Grav 9=2074 (LC 1), 16=1996 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-1870/259, 8-9=-264/56, 1-2=-6769/842, 2-4=-9519/1389, 4-5=-9705/1682, 5-7=-5697/886, 7-8=-92/23
BOT CHORD 15-16=-47/283, 13-15=-829/6761, 12-13=-1372/9511, 10-12=-1660/9699, 9-10=-860/5692
WEBS 1-15=-837/6631, 7-9=-5878/908, 2-15=-1321/285, 4-13=-565/214, 5-12=-127/779, 7-10=-136/1303, 5-10=-4169/832, 4-12=-531/944, 2-13=-560/2998

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 16 and 289 lb uplift at joint 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 414 lb down and 150 lb up at 22-5-4, and 414 lb down and 150 lb up at 22-5-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) 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: 9-16=-20, 1-8=-80
Concentrated Loads (lb)
Vert: 12=-387 (F=-193, B=-193)

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	N19	Monopitch Girder	2	**2**	R87439381
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:57 Page: 1
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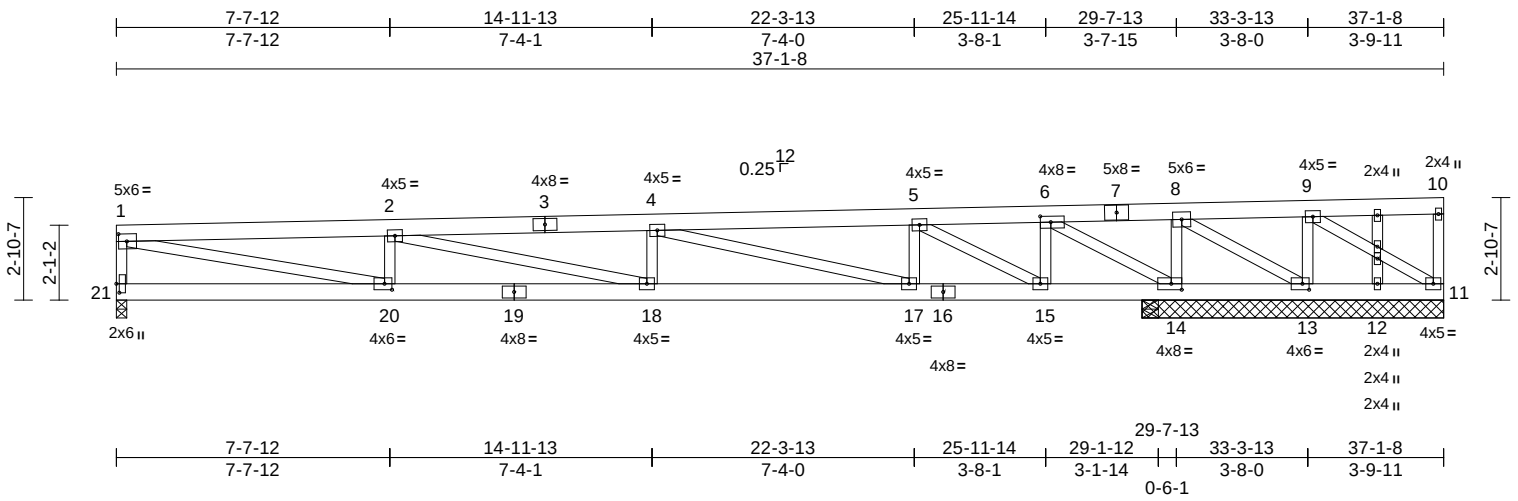

Scale = 1:64.4

Plate Offsets (X, Y): [1:0-2-12,0-2-8], [6:0-3-8,0-2-0], [13:0-2-4,0-2-0], [14:0-3-8,0-2-0], [20:0-2-8,0-2-0], [21:0-3-0,0-1-0]

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	0.55	Vert(LL)	-0.19	18-20	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.39	18-20	>913	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.04	14	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 435 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 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 5-8-9 oc bracing.

REACTIONS (size) 11=8-5-4, 12=8-5-4, 13=8-5-4, 14=8-5-4, 21=0-3-8
Max Horiz 21=65 (LC 30)
Max Uplift 11=-879 (LC 23), 12=-27 (LC 24), 13=-217 (LC 68), 14=-1411 (LC 32), 21=-230 (LC 24)
Max Grav 11=478 (LC 24), 12=278 (LC 1), 13=1739 (LC 48), 14=11101 (LC 1), 21=1509 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-1395/261, 1-2=-4771/847, 2-4=-5877/885, 4-5=-4732/1087, 5-6=-1199/569, 6-8=-1462/7078, 8-9=-592/2817, 9-10=-294/266, 10-11=-1192/93
BOT CHORD 20-21=-58/250, 18-20=-839/4764, 17-18=-1398/5870, 15-17=-1710/5179, 14-15=-576/1261, 13-14=-7042/1355, 12-13=-2791/575, 11-12=-2963/876
WEBS 2-20=-887/286, 4-18=-205/222, 5-17=-289/817, 8-14=-5980/1000, 4-17=-1478/315, 2-18=-576/1494, 1-20=-841/4620, 6-14=-8696/1112, 6-15=-394/1967, 5-15=-4632/894, 9-11=-1011/3531, 9-13=-4722/751, 8-13=-1319/5155

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, 2x6 - 2 rows staggered 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,
Except member 5-17 2x4 - 1 row at 0-6-0 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) 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.
5) 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.
6) Provide adequate drainage to prevent water ponding.
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 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 21, 879 lb uplift at joint 11, 1411 lb uplift at joint 14, 217 lb uplift at joint 13 and 27 lb uplift at joint 12.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a total drag load of 2600 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 22-4-8 to 37-1-8 for 176.3 plf.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 380 lb down and 284 lb up at 22-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-80, 5-10=-769, 11-21=-20

April 1,2025

Continued on page 2

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Concentrated Loads (lb)
Vert: 17=-107 (F)

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439382
4449076	N20	Monopitch	14	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:57 Page: 1
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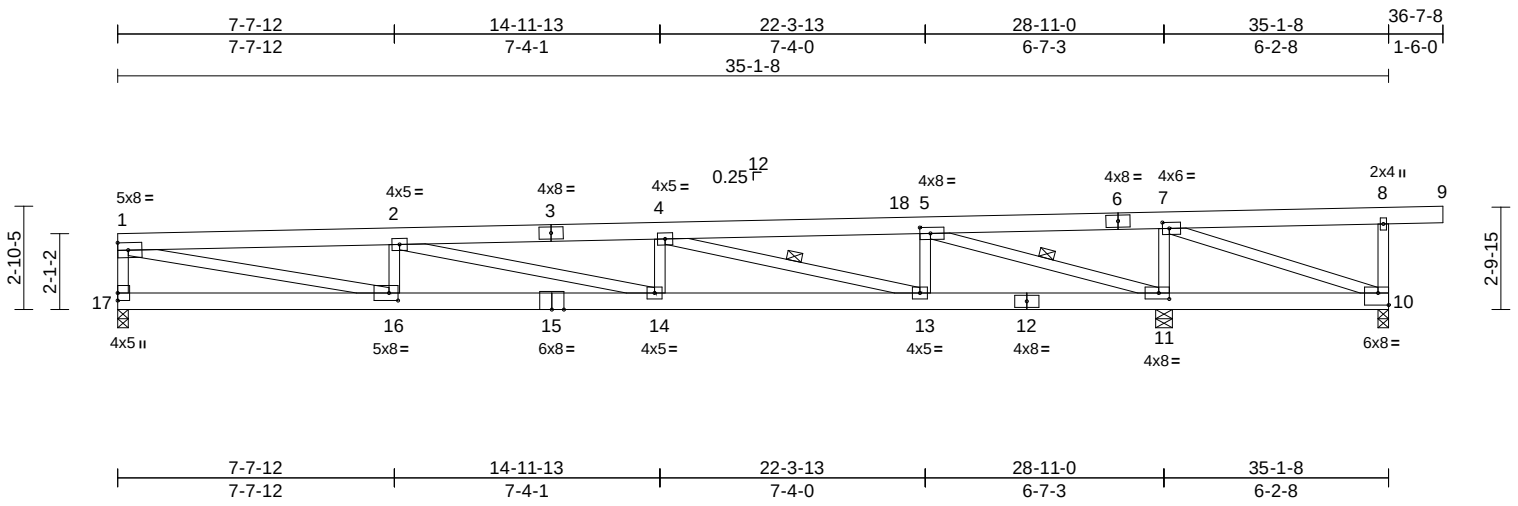

Scale = 1:63.7

Plate Offsets (X, Y): [5:0-3-8,0-2-0], [7:0-2-4,0-2-0], [10:Edge,0-4-0], [11:0-3-8,0-2-0], [16:0-3-0,0-2-8]

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	0.73	Vert(LL)	-0.29	14-16	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.59	14-16	>583	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.06	11	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 204 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-8-2 oc bracing: 10-11.
WEBS 1 Row at midpt 5-11, 4-13

REACTIONS (size) 10=0-3-8, 11=0-5-8, 17=0-3-8
Max Horiz 17=60 (LC 9)
Max Uplift 10=-561 (LC 1), 11=-168 (LC 12), 17=-73 (LC 8)
Max Grav 10=14 (LC 12), 11=2952 (LC 1), 17=1225 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-1117/211, 1-2=-3627/529, 2-4=-3798/556, 4-5=-1340/214, 5-7=-367/2360, 7-8=-31/44, 8-9=-4/0, 8-10=-297/101
BOT CHORD 16-17=-119/216, 14-16=-593/3621, 13-14=-593/3791, 11-13=-223/1333, 10-11=-2353/362
WEBS 7-11=-1532/322, 7-10=-353/2467, 2-16=-641/218, 4-14=0/269, 5-13=-7/738, 5-11=-3869/568, 4-13=-2543/382, 2-14=-26/176, 1-16=-515/3485

NOTES

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 15-1-12, Exterior (2) 15-1-12 to 21-7-8, Corner (3) 21-7-8 to 36-7-8 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) 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) 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.
4) Provide adequate drainage to prevent water ponding.
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 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 17, 561 lb uplift at joint 10 and 168 lb uplift at joint 11.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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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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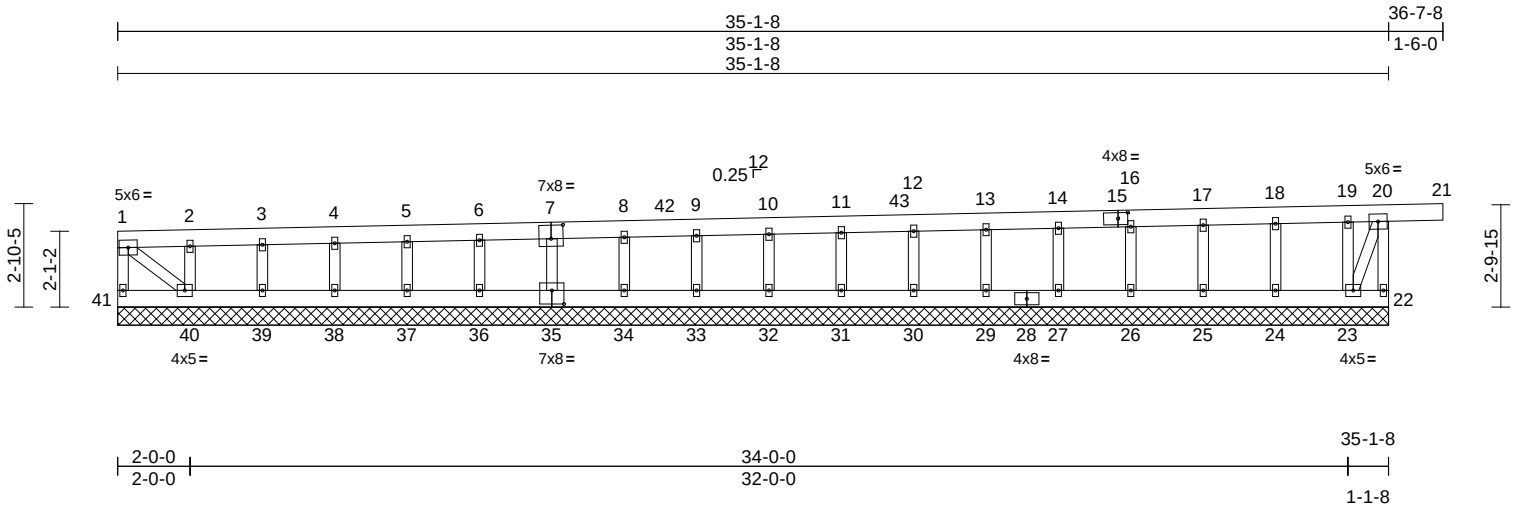
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439383
4449076	N21	Monopitch Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:57 Page: 1
ID:wYm?mqSGGKhOWOZtF6C3zmzhxsT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:63.7

Plate Offsets (X, Y): [7:0-4-0,0-4-8], [15:0-3-4,0-2-0], [35:0-4-0,0-4-8]

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	22	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 192 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 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, Except:
10-0-0 oc bracing: 40-41.

REACTIONS (size) 22=35-1-8, 23=35-1-8, 24=35-1-8, 25=35-1-8, 26=35-1-8, 27=35-1-8, 29=35-1-8, 30=35-1-8, 31=35-1-8, 32=35-1-8, 33=35-1-8, 34=35-1-8, 35=35-1-8, 36=35-1-8, 37=35-1-8, 38=35-1-8, 39=35-1-8, 40=35-1-8, 41=35-1-8
Max Horiz 41=60 (LC 9)
Max Uplift 22=-46 (LC 9), 24=-10 (LC 12), 25=-13 (LC 8), 26=-12 (LC 12), 27=-12 (LC 8), 29=-12 (LC 12), 30=-12 (LC 8), 31=-12 (LC 12), 32=-12 (LC 8), 33=-12 (LC 12), 34=-12 (LC 8), 35=-12 (LC 12), 36=-11 (LC 8), 37=-12 (LC 8), 38=-12 (LC 12), 39=-12 (LC 8), 40=-18 (LC 9), 41=-8 (LC 8)
Max Grav 22=313 (LC 18), 23=121 (LC 1), 24=200 (LC 1), 25=202 (LC 1), 26=200 (LC 1), 27=200 (LC 1), 29=200 (LC 1), 30=200 (LC 1), 31=200 (LC 1), 32=200 (LC 1), 33=200 (LC 1), 34=201 (LC 1), 35=200 (LC 1), 36=199 (LC 1), 37=200 (LC 1), 38=200 (LC 1), 39=200 (LC 1), 40=230 (LC 1), 41=66 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-41=-53/38, 1-2=-42/37, 2-3=-41/37, 3-4=-39/36, 4-5=-38/36, 5-6=-36/36, 6-8=-35/36, 8-9=-32/36, 9-10=-31/35, 10-11=-30/35, 11-12=-28/35, 12-13=-27/34, 13-14=-25/34, 14-16=-24/34, 16-17=-22/33, 17-18=-21/33, 18-19=-19/33, 19-20=-19/36, 20-21=-4/0, 20-22=-309/77
BOT CHORD 40-41=-93/86, 39-40=-42/44, 38-39=-42/44, 37-38=-42/44, 36-37=-42/44, 34-36=-43/45, 33-34=-43/45, 32-33=-43/45, 31-32=-43/45, 30-31=-43/45, 29-30=-43/45, 27-29=-43/45, 26-27=-43/45, 25-26=-43/45, 24-25=-43/45, 23-24=-43/45, 22-23=-30/39
WEBS 2-40=-167/57, 3-39=-160/55, 4-38=-160/53, 5-37=-160/54, 6-36=-159/53, 7-35=-160/54, 8-34=-161/54, 9-33=-160/52, 10-32=-160/51, 11-31=-160/51, 12-30=-160/53, 13-29=-160/53, 14-27=-160/53, 16-26=-160/53, 17-25=-162/54, 18-24=-158/54, 19-23=-52/93, 1-40=-75/91, 20-23=-73/15

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 15-1-12, Exterior (2) 15-1-12 to 21-7-8, Corner (3) 21-7-8 to 36-7-8 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) 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 2x4 (||) MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) All bearings are assumed to be HF No.2 .

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Continued on page 2

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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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13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 41, 46 lb uplift at joint 22, 18 lb uplift at joint 40, 12 lb uplift at joint 39, 12 lb uplift at joint 38, 12 lb uplift at joint 37, 11 lb uplift at joint 36, 12 lb uplift at joint 35, 12 lb uplift at joint 34, 12 lb uplift at joint 33, 12 lb uplift at joint 32, 12 lb uplift at joint 31, 12 lb uplift at joint 30, 12 lb uplift at joint 29, 12 lb uplift at joint 27, 12 lb uplift at joint 26, 13 lb uplift at joint 25 and 10 lb uplift at joint 24.
14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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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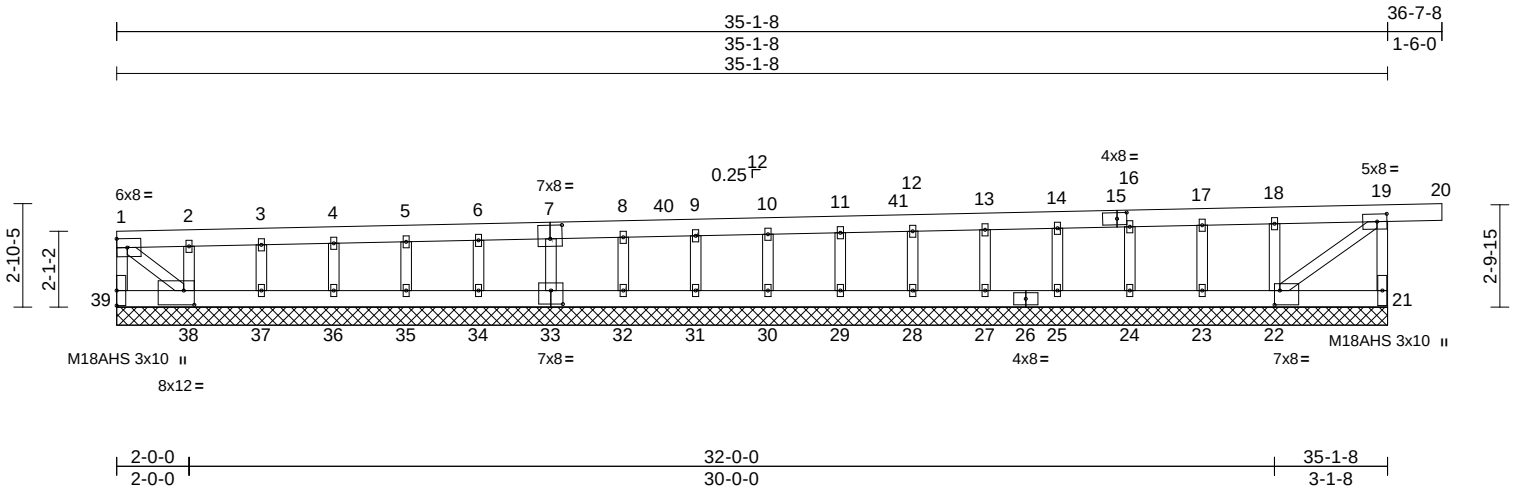
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439384
4449076	N21A	Common Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:58 Page: 1
ID:?bO4TSH_ijjz7bcubJPUaczhxq6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:63.7

Plate Offsets (X, Y): [7:0-4-0,0-4-8], [15:0-3-4,0-2-0], [19:0-3-4,0-2-8], [22:0-1-12,0-4-12], [33:0-4-0,0-4-8], [38:0-3-8,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	n/a	-	n/a	999	M18AHS	145/140
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.37	Vert(CT)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	-0.02	30	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 191 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-1 oc bracing.

REACTIONS (size) 21=35-1-8, 22=35-1-8, 23=35-1-8, 24=35-1-8, 25=35-1-8, 27=35-1-8, 28=35-1-8, 29=35-1-8, 30=35-1-8, 31=35-1-8, 32=35-1-8, 33=35-1-8, 34=35-1-8, 35=35-1-8, 36=35-1-8, 37=35-1-8, 38=35-1-8, 39=35-1-8
Max Horiz 39=60 (LC 35)
Max Uplift 21=-2426 (LC 42), 22=-2454 (LC 33), 23=-18 (LC 41), 24=-11 (LC 33), 25=-13 (LC 42), 27=-12 (LC 33), 28=-12 (LC 42), 29=-12 (LC 34), 30=-13 (LC 33), 31=-18 (LC 42), 32=-29 (LC 33), 33=-35 (LC 42), 34=-28 (LC 33), 35=-18 (LC 34), 36=-15 (LC 41), 37=-33 (LC 34), 38=-2886 (LC 36), 39=-2967 (LC 33)
Max Grav 21=2512 (LC 53), 22=2580 (LC 54), 23=188 (LC 1), 24=203 (LC 1), 25=199 (LC 1), 27=200 (LC 1), 28=200 (LC 1), 29=200 (LC 1), 30=200 (LC 1), 31=200 (LC 1), 32=201 (LC 1), 33=200 (LC 1), 34=199 (LC 1), 35=200 (LC 1), 36=200 (LC 1), 37=200 (LC 1), 38=2981 (LC 53), 39=3010 (LC 40)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-39=-2956/2918, 1-2=-3304/3284, 2-3=-2979/2949, 3-4=-2611/2583, 4-5=-2244/2217, 5-6=-1876/1850, 6-8=-1499/1484, 8-9=-765/753, 9-10=-407/388, 10-11=-371/356, 11-12=-736/723, 12-13=-1101/1090, 13-14=-1465/1458, 14-16=-1830/1825, 16-17=-2196/2188, 17-18=-2562/2559, 18-19=-3107/3106, 19-20=-4/0, 19-21=-2480/2455
BOT CHORD 38-39=-339/268, 37-38=-2984/2961, 36-37=-2582/2595, 35-36=-2252/2229, 34-35=-1886/1863, 32-34=-1520/1497, 31-32=-790/765, 30-31=-424/399, 29-30=-390/366, 28-29=-756/732, 27-28=-1122/1098, 25-27=-1488/1464, 24-25=-1854/1830, 23-24=-2183/2196, 22-23=-2586/2525, 21-22=-522/520
WEBS 2-38=-167/76, 3-37=-164/93, 4-36=-160/61, 5-35=-160/61, 6-34=-159/70, 7-33=-160/77, 8-32=-161/70, 9-31=-160/58, 10-30=-160/52, 11-29=-160/52, 12-28=-160/53, 13-27=-160/54, 14-25=-160/54, 16-24=-161/57, 17-23=-156/67, 18-22=-179/72, 1-38=-4276/4342, 19-22=-3908/3892

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 15-1-12, Exterior (2) 15-1-12 to 21-7-8, Corner (3) 21-7-8 to 36-7-8 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) 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 MT20 plates unless otherwise indicated.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

April 1,2025

Continued on page 2

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12) * 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.
13) All bearings are assumed to be HF No.2 .
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2967 lb uplift at joint 39, 2426 lb uplift at joint 21, 2886 lb uplift at joint 38, 33 lb uplift at joint 37, 15 lb uplift at joint 36, 18 lb uplift at joint 35, 28 lb uplift at joint 34, 35 lb uplift at joint 33, 29 lb uplift at joint 32, 18 lb uplift at joint 31, 13 lb uplift at joint 30, 12 lb uplift at joint 29, 12 lb uplift at joint 28, 12 lb uplift at joint 27, 13 lb uplift at joint 25, 11 lb uplift at joint 24, 18 lb uplift at joint 23 and 2454 lb uplift at joint 22.
15) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
16) This truss has been designed for a total drag load of 6428 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-1-8 for 183.0 plf.

LOAD CASE(S) Standard

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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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P01	Flat	2	1	R87439385
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:58 Page: 1
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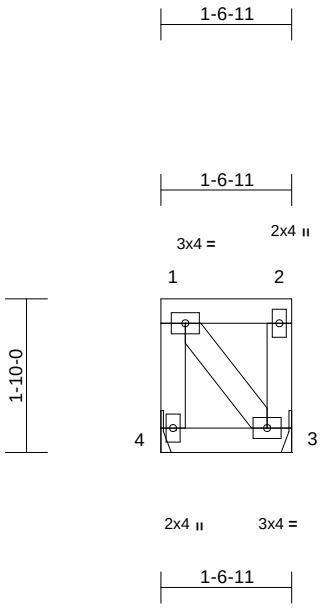

Scale = 1:27.4

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	0.10	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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 1-6-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=38 (LC 9)
Max Uplift 3=-74 (LC 35), 4=-74 (LC 32)
Max Grav 3=303 (LC 36), 4=303 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-327/82, 1-2=-133/125, 2-3=-157/0
BOT CHORD 3-4=-167/143
WEBS 1-3=-229/253

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 4 and 74 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-6-11 for 100.0 plf.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-248, 3-4=-20

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P02	Flat	40	1	R87439386
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:59
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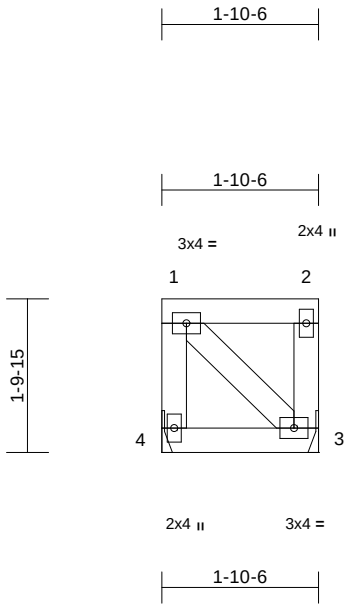

Scale = 1:27.4

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	0.17	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 9 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= Mechanical, 4= Mechanical
Max Horiz 4=-38 (LC 10)
Max Uplift 3=-51 (LC 55), 4=-51 (LC 54)
Max Grav 3=329 (LC 36), 4=329 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-351/60, 1-2=-161/152, 2-3=-195/0
BOT CHORD 3-4=-195/171
WEBS 1-3=-247/268

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 4 and 51 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 100 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 100.0 plf.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-248, 3-4=-20

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P03	Flat	2	1	R87439387
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:59 Page: 1
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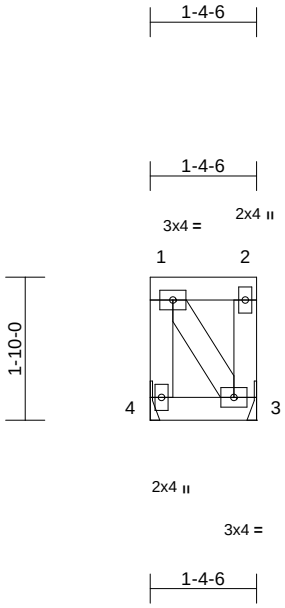

Scale = 1:29.5

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	0.07	Vert(LL)	0.00	4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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 1-4-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=-38 (LC 8)
Max Uplift 3=-94 (LC 35), 4=-94 (LC 32)
Max Grav 3=288 (LC 36), 4=288 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-314/101, 1-2=-116/107, 2-3=-133/0
BOT CHORD 3-4=-150/126
WEBS 1-3=-221/247

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 4 and 94 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-4-6 for 100.0 plf.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-248, 3-4=-20

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P04	Roof Special	2	1	R87439388
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:59 Page: 1
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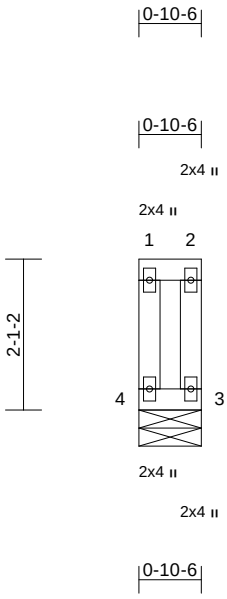

Scale = 1:31.9

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 6 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 0-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=0-10-6, 4=0-10-6
Max Horiz 4=44 (LC 11)
Max Uplift 3=-71 (LC 9), 4=-71 (LC 8)
Max Grav 3=78 (LC 10), 4=78 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-67/73, 1-2=-6/7, 2-3=-67/73
BOT CHORD 3-4=-45/52

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 4 and 71 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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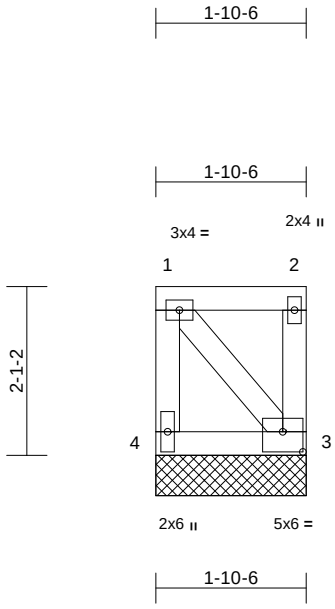
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P05	Flat Supported Gable	48	1	R87439389
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:59 ID:QrhQkswfvpa80DY9n25MRoziv0V-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:28.6

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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 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
Max Horiz 4=-44 (LC 10)
Max Uplift 3=-451 (LC 35), 4=-451 (LC 32)
Max Grav 3=471 (LC 36), 4=471 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-505/461, 1-2=-354/344, 2-3=-63/49
BOT CHORD 3-4=-399/366
WEBS 1-3=-593/628

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 451 lb uplift at joint 4 and 451 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 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 234.0 plf.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P06	Roof Special	2	1	R87439390
					Job Reference (optional)

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

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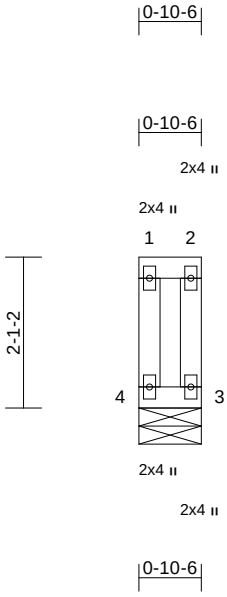

Scale = 1:31.9

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 6 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 0-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=0-10-6, 4=0-10-6
Max Horiz 4=44 (LC 11)
Max Uplift 3=-71 (LC 9), 4=-71 (LC 8)
Max Grav 3=78 (LC 10), 4=78 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-67/73, 1-2=-6/7, 2-3=-67/73
BOT CHORD 3-4=-45/52

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 4 and 71 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P09	Flat Supported Gable	2	1	R87439391
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:11:59
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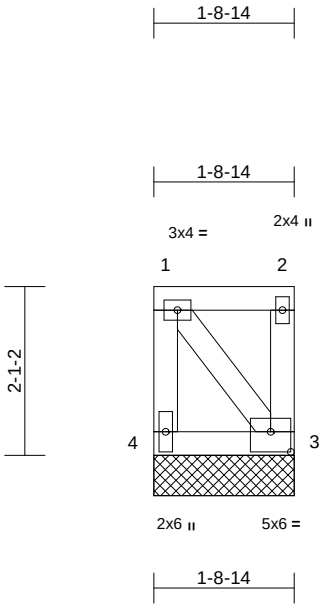

Scale = 1:28.6

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	0.10	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	15.0	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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 1-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=1-8-14, 4=1-8-14
Max Horiz 4=44 (LC 11)
Max Uplift 3=-453 (LC 35), 4=-453 (LC 32)
Max Grav 3=471 (LC 36), 4=471 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-507/462, 1-2=-327/317, 2-3=-58/45
BOT CHORD 3-4=-373/340
WEBS 1-3=-576/613

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 453 lb uplift at joint 4 and 453 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-14 for 234.0 plf.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P10	Flat Supported Gable	2	1	R87439392 Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:00 Page: 1
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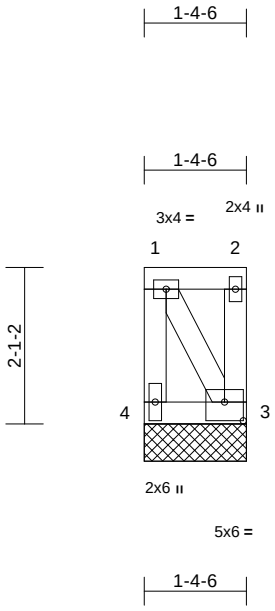

Scale = 1:30.8

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	0.10	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	15.0	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 9 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 1-4-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=1-4-6, 4=1-4-6
Max Horiz 4=-44 (LC 10)
Max Uplift 3=-461 (LC 35), 4=-461 (LC 32)
Max Grav 3=475 (LC 36), 4=475 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-519/468, 1-2=-248/238, 2-3=-43/34
BOT CHORD 3-4=-294/261
WEBS 1-3=-534/579

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 461 lb uplift at joint 4 and 461 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-4-6 for 234.0 plf.

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D R87439393
4449076	P11	Flat Supported Gable	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:00 Page: 1
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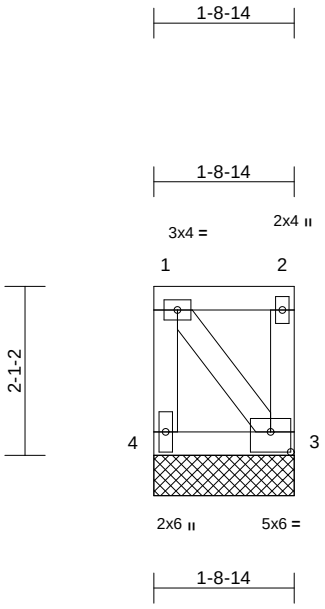

Scale = 1:28.6

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	0.10	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	15.0	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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 1-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=1-8-14, 4=1-8-14
Max Horiz 4=-44 (LC 10)
Max Uplift 3=-454 (LC 35), 4=-454 (LC 32)
Max Grav 3=472 (LC 36), 4=472 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-508/463, 1-2=-327/317, 2-3=-58/45
BOT CHORD 3-4=-373/340
WEBS 1-3=-577/614

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 454 lb uplift at joint 4 and 454 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-14 for 234.0 plf.

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P12	Flat Supported Gable	47	1	R87439394
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:00 Page: 1
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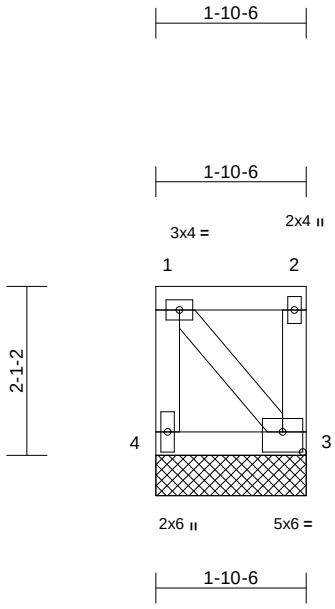

Scale = 1:28.6

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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 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
Max Horiz 4=-44 (LC 10)
Max Uplift 3=-452 (LC 35), 4=-452 (LC 32)
Max Grav 3=472 (LC 36), 4=472 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-506/462, 1-2=-354/344, 2-3=-63/49
BOT CHORD 3-4=-399/366
WEBS 1-3=-594/629

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 452 lb uplift at joint 4 and 452 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 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 234.0 plf.

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P12A	Flat Supported Gable	2	1	R87439395
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:00 Page: 1
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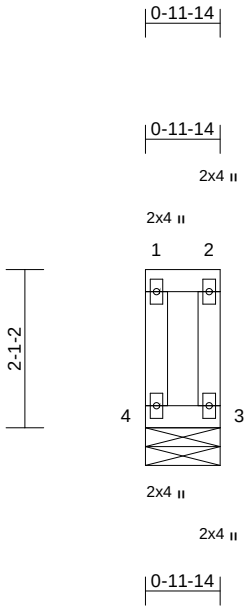

Scale = 1:30.5

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 6 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 0-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=0-11-14, 4=0-11-14
Max Horiz 4=-44 (LC 8)
Max Uplift 3=-59 (LC 9), 4=-59 (LC 8)
Max Grav 3=69 (LC 19), 4=69 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-61/68, 1-2=-6/8, 2-3=-61/68
BOT CHORD 3-4=-45/52

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 4 and 59 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 1,2025

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	MKM EAST TOWN CROSSING BLDG D R87439396
4449076	P13	Flat Supported Gable	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:00 Page: 1
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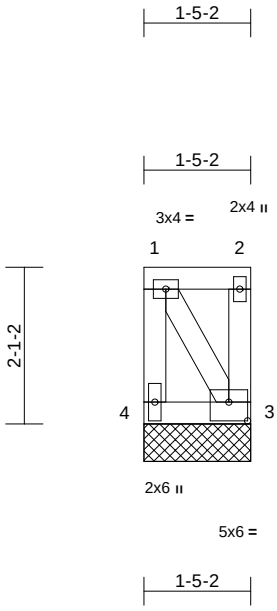

Scale = 1:30.8

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	0.10	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	15.0	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 9 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 1-5-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=1-5-2, 4=1-5-2
Max Horiz 4=-44 (LC 10)
Max Uplift 3=-461 (LC 35), 4=-461 (LC 32)
Max Grav 3=475 (LC 36), 4=475 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-517/467, 1-2=-261/252, 2-3=-45/36
BOT CHORD 3-4=-307/274
WEBS 1-3=-540/584

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 461 lb uplift at joint 4 and 461 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-5-2 for 234.0 plf.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P14	Flat Supported Gable	2	1	R87439397
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:01
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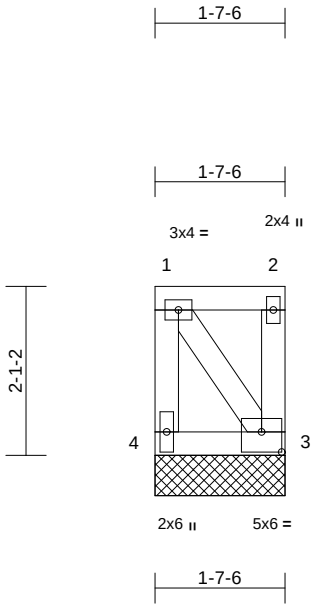

Scale = 1:28.6

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	0.10	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	15.0	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 9 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 1-7-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=1-7-6, 4=1-7-6
Max Horiz 4=-44 (LC 8)
Max Uplift 3=-456 (LC 35), 4=-456 (LC 32)
Max Grav 3=473 (LC 36), 4=473 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-511/464, 1-2=-301/291, 2-3=-53/41
BOT CHORD 3-4=-346/313
WEBS 1-3=-561/600

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 456 lb uplift at joint 4 and 456 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-7-6 for 234.0 plf.

LOAD CASE(S) Standard

April 1,2025

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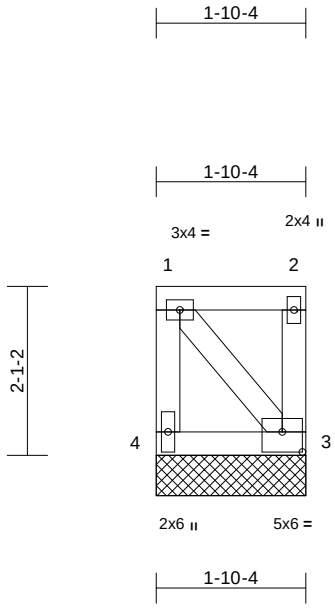
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P15	Flat Supported Gable	2	1	R87439398 Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:01 Page: 1
ID:?JwSgpbFTTIMOBVd_H03SSzhz7d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:28.6

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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 1-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=1-10-4, 4=1-10-4
Max Horiz 4=-59 (LC 37)
Max Uplift 3=-452 (LC 35), 4=-452 (LC 32)
Max Grav 3=472 (LC 36), 4=472 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-506/462, 1-2=-351/342, 2-3=-63/49
BOT CHORD 3-4=-395/362
WEBS 1-3=-592/628

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 452 lb uplift at joint 4 and 452 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-9-6 for 243.6 plf.

LOAD CASE(S) Standard

April 1,2025

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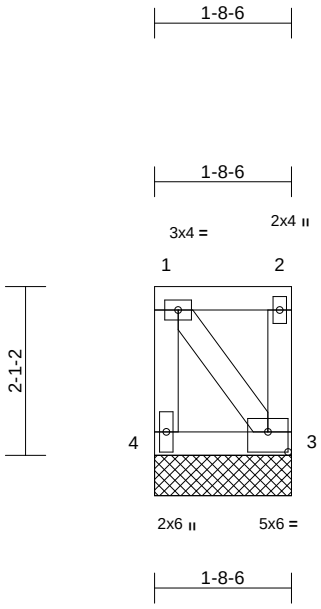
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P17	Flat Supported Gable	23	1	R87439399
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:01 ID:nd4bU0boj0eBkqqw3p5Vjcziv?d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:28.6

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	0.10	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	15.0	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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 1-8-6 oc purlins, 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
Max Horiz 4=-44 (LC 10)
Max Uplift 3=-455 (LC 35), 4=-455 (LC 32)
Max Grav 3=472 (LC 36), 4=472 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-508/463, 1-2=-319/309, 2-3=-56/44
BOT CHORD 3-4=-364/331
WEBS 1-3=-571/609

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 455 lb uplift at joint 4 and 455 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 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 234.0 plf.

LOAD CASE(S) Standard

April 1,2025

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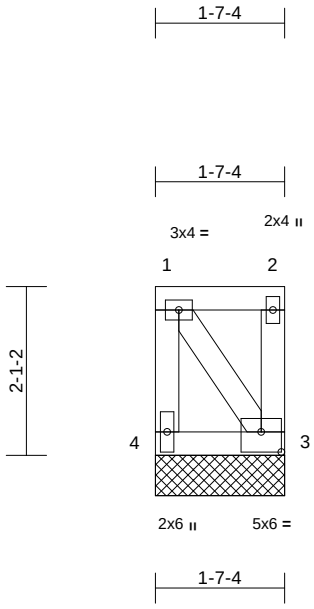
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P18	Flat Supported Gable	2	1	R87439400
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:01 ID:GdDFPoEPT?Bpzpow6k1hqaziv_p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:28.6

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	0.10	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	15.0	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 9 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 1-7-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=1-7-4, 4=1-7-4
Max Horiz 4=-44 (LC 10)
Max Uplift 3=-456 (LC 35), 4=-456 (LC 32)
Max Grav 3=473 (LC 36), 4=473 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-511/464, 1-2=-299/289, 2-3=-53/41
BOT CHORD 3-4=-344/311
WEBS 1-3=-560/599

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 456 lb uplift at joint 4 and 456 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-7-4 for 234.0 plf.

LOAD CASE(S) Standard

April 1,2025

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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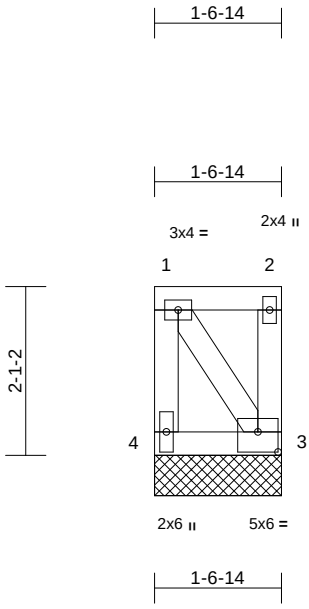
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P19A	Flat Supported Gable	1	1	R87439401
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:01 ID:GvRCQ0MZoUok6OdVXZsyk?zhyCX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:28.6

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	0.10	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	15.0	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 9 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 1-6-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=1-6-14, 4=1-6-14
Max Horiz 4=44 (LC 11)
Max Uplift 3=-457 (LC 35), 4=-457 (LC 32)
Max Grav 3=473 (LC 36), 4=473 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-4=-512/465, 1-2=-292/282, 2-3=-51/40
BOT CHORD	3-4=-338/305
WEBS	1-3=-556/596

NOTES

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 457 lb uplift at joint 4 and 457 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 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 234.0 plf.

LOAD CASE(S) Standard

April 1,2025

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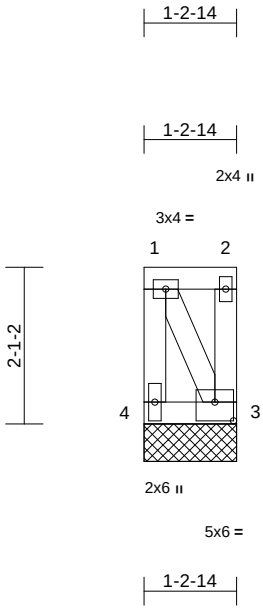
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P20	Flat Supported Gable	1	1	R87439402
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:02
ID:LcQ9Ha9zFm6N1XgBPQ2QPwzhyBV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.8

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.10	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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 1-2-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=1-2-14, 4=1-2-14
Max Horiz 4=44 (LC 11)
Max Uplift 3=-467 (LC 35), 4=-467 (LC 32)
Max Grav 3=479 (LC 36), 4=479 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-4=-528/473, 1-2=-222/212, 2-3=-38/30
BOT CHORD	3-4=-267/234
WEBS	1-3=-524/574

NOTES

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 467 lb uplift at joint 4 and 467 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 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 234.0 plf.

LOAD CASE(S) Standard

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P21	Flat Supported Gable	2	1	R87439403
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:02 Page: 1
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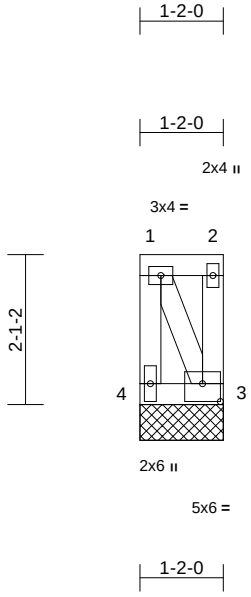

Scale = 1:32.2

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.10	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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 1-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=1-2-0, 4=1-2-0
Max Horiz 4=-44 (LC 10)
Max Uplift 3=-470 (LC 35), 4=-470 (LC 32)
Max Grav 3=482 (LC 36), 4=482 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-534/476, 1-2=-207/197, 2-3=-35/27
BOT CHORD 3-4=-252/219
WEBS 1-3=-520/573

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 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 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 470 lb uplift at joint 4 and 470 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 234 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-2-0 for 234.0 plf.

LOAD CASE(S) Standard

April 1,2025

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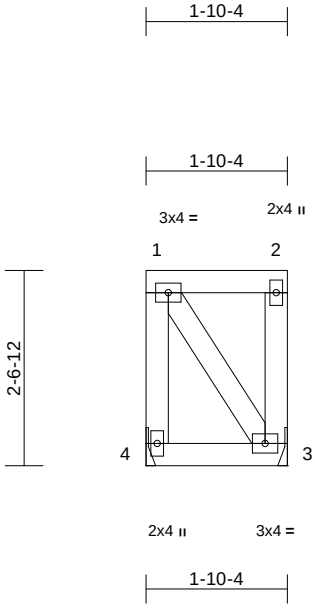
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P25	Flat	2	1	R87439404
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:02 ID:gPFqzbcIqRKeryMjf7kQ4mzhGWz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.2

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	0.16	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 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 1-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=-56 (LC 10)
Max Uplift 3=-141 (LC 35), 4=-141 (LC 32)
Max Grav 3=423 (LC 36), 4=423 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-462/150, 1-2=-169/156, 2-3=-194/0
BOT CHORD 3-4=-219/184
WEBS 1-3=-325/364

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 4 and 141 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 100.0 plf.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-248, 3-4=-20

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P26	Flat	2	1	R87439405
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:02 Page: 1
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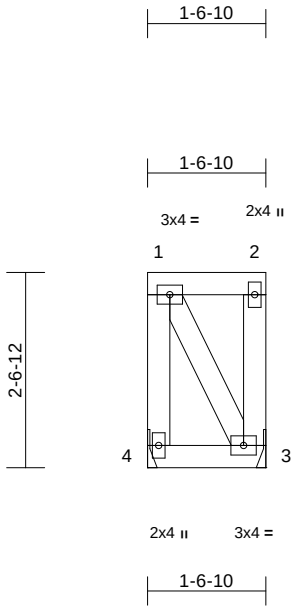

Scale = 1:30.2

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	0.10	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/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 1-6-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=-56 (LC 10)
Max Uplift 3=-175 (LC 35), 4=-175 (LC 32)
Max Grav 3=403 (LC 36), 4=403 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-448/183, 1-2=-142/129, 2-3=-156/0
BOT CHORD 3-4=-192/157
WEBS 1-3=-317/363

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 4 and 175 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-6-10 for 100.0 plf.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-248, 3-4=-20

April 1,2025

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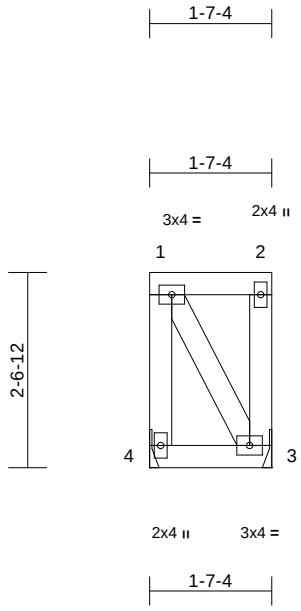
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P27	Flat	2	1	R87439406
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:02 Page: 1
ID:xBBeNtoufYbBWWXS7ZTKnRzhGSr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.2

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	0.11	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/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 1-7-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=-56 (LC 10)
Max Grav 3=195 (LC 19), 4=195 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-223/17, 1-2=-28/31, 2-3=-163/0
BOT CHORD 3-4=-78/81
WEBS 1-3=-100/100

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-248, 3-4=-20

April 1,2025

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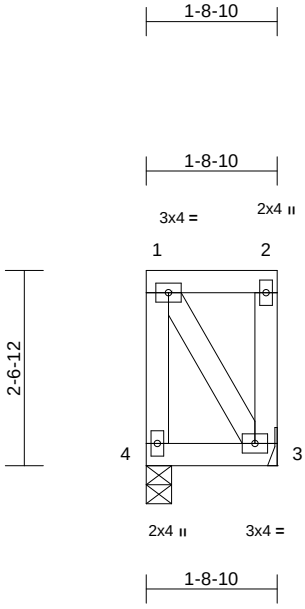
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P28	Flat	2	1	R87439407
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:02 ID:2lXPhGqYH6bM53zqRzd3ffzhyrE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.2

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	0.13	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/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 1-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4=0-4-0
Max Horiz 4=-68 (LC 33)
Max Uplift 3=-156 (LC 35), 4=-156 (LC 32)
Max Grav 3=414 (LC 36), 4=414 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-455/164, 1-2=-157/144, 2-3=-177/0
BOT CHORD 3-4=-205/171
WEBS 1-3=-321/362

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 4 and 156 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-7-0 for 108.6 plf.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-248, 3-4=-20

April 1,2025

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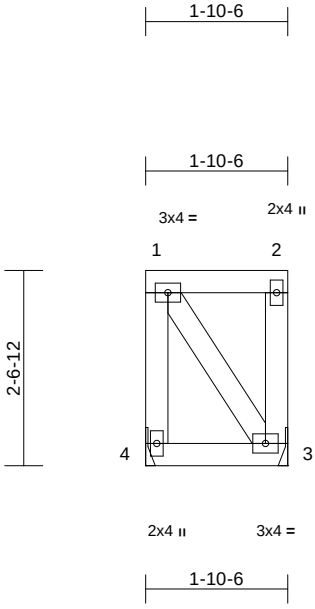
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P29	Flat	26	1	R87439408
					Job Reference (optional)

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

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:03 ID:ZxpT42bxXSczEEb2vqHw_xzhysr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.2

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	0.17	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 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= Mechanical, 4= Mechanical
Max Horiz 4=56 (LC 11)
Max Uplift 3=-140 (LC 35), 4=-140 (LC 32)
Max Grav 3=424 (LC 36), 4=424 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-463/149, 1-2=-170/157, 2-3=-195/0
BOT CHORD 3-4=-220/185
WEBS 1-3=-325/364

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 4 and 140 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 100 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 100.0 plf.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-248, 3-4=-20

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN CROSSING BLDG D
4449076	P30	Flat	2	1	R87439409
					Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Apr 01 13:12:03 Page: 1
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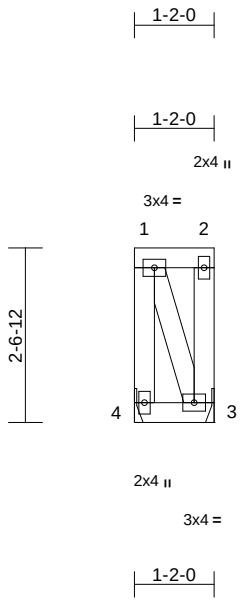

Scale = 1:33.8

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	0.06	Vert(LL)	0.00	4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
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 1-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=56 (LC 11)
Max Uplift 3=-229 (LC 35), 4=-229 (LC 32)
Max Grav 3=387 (LC 36), 4=387 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-448/234, 1-2=-107/94, 2-3=-109/0
BOT CHORD 3-4=-157/122
WEBS 1-3=-321/383

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 4 and 229 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-2-0 for 100.0 plf.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-248, 3-4=-20

April 1,2025

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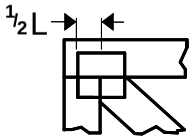
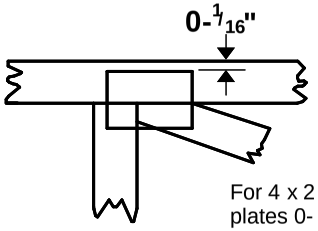
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



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

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

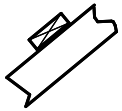
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

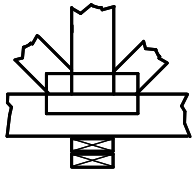
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

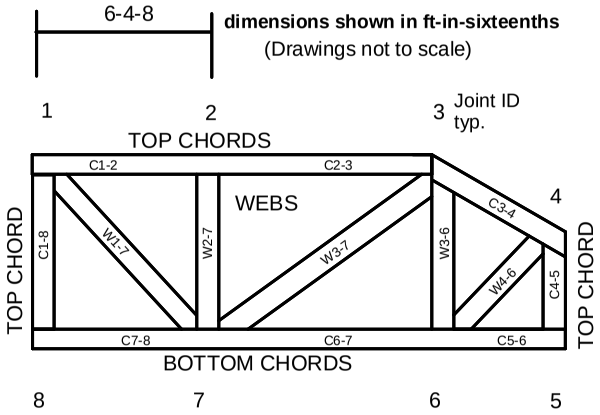


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.