

PRMU20240405

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

Re: 4448984

MKM EAST TOWN BLDG H

MiTek, Inc.

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

City of Puyallup
Building
REVIEWED
FOR
COMPLIANCE

BSnowden
02/21/2025
10:48:12 AM



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: R86730494 thru R86730584

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



EXPIRES

February 17, 2025

Zhao, Xiaoming

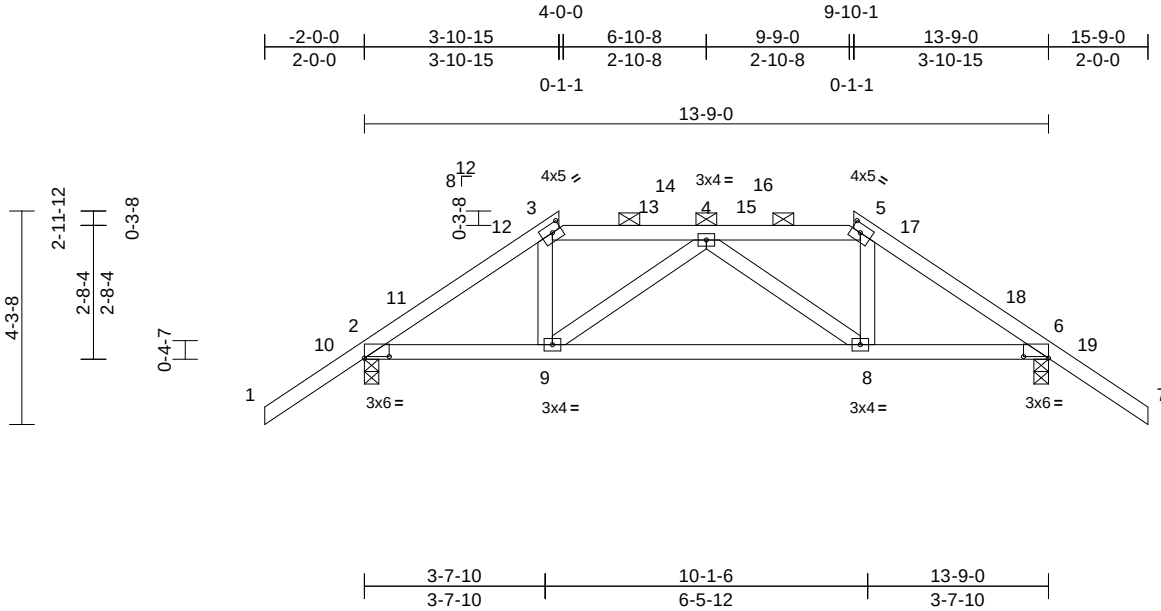
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 BLDG H	R86730494
4448984	A01	California	4	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:09
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Page: 1



Scale = 1:46.3

Plate Offsets (X, Y): [2:0-6-0,0-0-6], [3:0-2-4,0-2-0], [5:0-2-4,0-2-0], [6:0-6-0,0-0-6]

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	0.56	Vert(LL)	-0.05	8-9	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.11	8-9	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 54 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 4-11-2 oc purlins, except 2-0-0 oc purlins (5-9-14 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 6=0-3-8
Max Horiz 2=62 (LC 13)
Max Uplift 2=-102 (LC 14), 6=-102 (LC 15)
Max Grav 2=1100 (LC 35), 6=1100 (LC 35)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-1165/96, 3-4=-886/94, 4-5=-886/94, 5-6=-1165/96, 6-7=0/143
BOT CHORD 2-9=-69/905, 8-9=-131/1163, 6-8=-85/905
WEBS 3-9=0/310, 5-8=0/310, 4-8=-345/100, 4-9=-345/100

NOTES

- 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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 3-9-6, Exterior(2R) 3-9-6 to 8-0-5, Interior (1) 8-0-5 to 9-11-10, Exterior(2R) 9-11-10 to 14-2-9, Interior (1) 14-2-9 to 15-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2 and 102 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 177 lb down and 118 lb up at 3-9-6, 118 lb down and 92 lb up at 6-0-12, and 118 lb down and 92 lb up at 7-8-4, and 177 lb down and 118 lb up at 9-11-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-80, 3-5=-80, 5-7=-80, 2-6=-20
Concentrated Loads (lb)
Vert: 3=-78, 5=-78



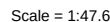
February 17, 2025

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.sbcsccomponents.com)

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Page: 1

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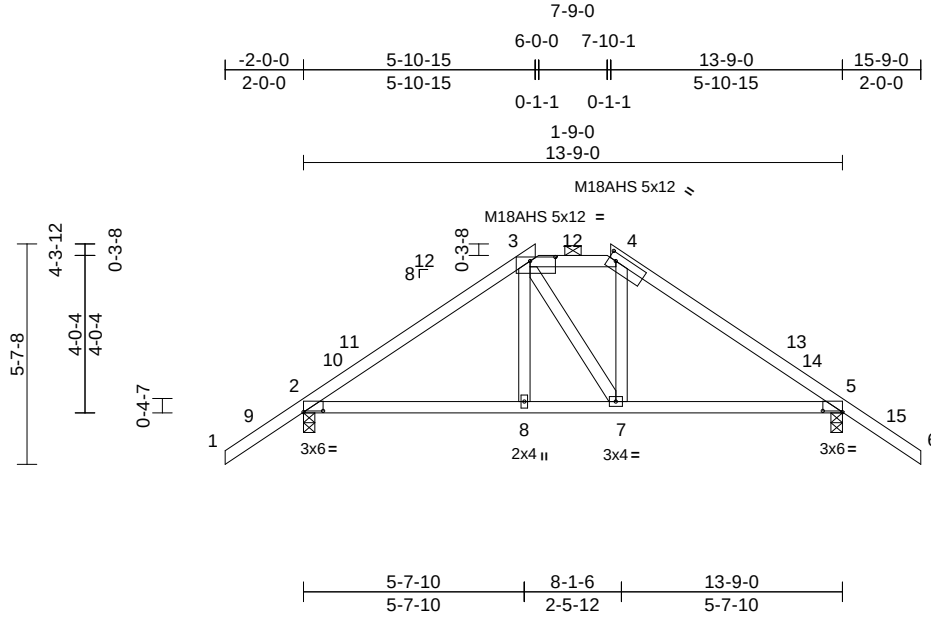
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730496
4448984	A03	California	4	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:58.8

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

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	0.63	Vert(LL)	0.05	2-8	>999	240	M18AHS 145/140
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.08	2-8	>999	180	MT20 185/148
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.02	5	n/a	n/a	
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 54 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 4-4-1 oc purlins, except 2-0-0 oc purlins (5-9-11 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 5=0-3-8
Max Horiz 2=84 (LC 13)
Max Uplift 2=-74 (LC 14), 5=-74 (LC 15)
Max Grav 2=1196 (LC 35), 5=1196 (LC 35)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-1196/64, 3-4=-828/87, 4-5=-1197/63, 5-6=0/143
BOT CHORD 2-8=-18/831, 7-8=-20/827, 5-7=-7/832
WEBS 3-8=0/168, 3-7=-100/101, 4-7=0/168

NOTES

- 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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-9-6, Exterior(2E) 5-9-6 to 7-11-10, Exterior(2R) 7-11-10 to 12-2-9, Interior (1) 12-2-9 to 15-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2 and 74 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 198 lb down and 122 lb up at 5-9-6, and 198 lb down and 122 lb up at 7-11-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-80, 3-4=-80, 4-6=-80, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-99, 4=-99



February 17, 2025

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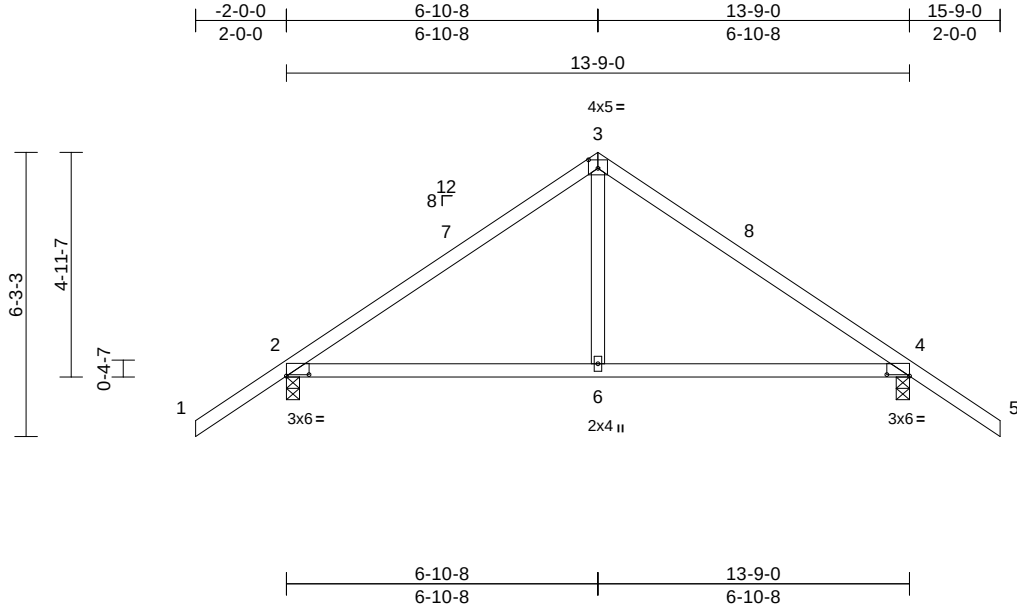
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730497
4448984	A04	Common	10	1	Job Reference (optional)	

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

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Scale = 1:50.8

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

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	0.62	Vert(LL)	0.06	2-6	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	2-6	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 46 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 4=0-3-8
Max Horiz 2=99 (LC 11)
Max Uplift 2=-44 (LC 12), 4=-44 (LC 13)
Max Grav 2=845 (LC 1), 4=845 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-790/42, 3-4=-790/42, 4-5=0/143
BOT CHORD 2-6=0/519, 4-6=0/519
WEBS 3-6=0/324

NOTES

- 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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 6-10-8, Exterior(2R) 6-10-8 to 9-10-8, Interior (1) 9-10-8 to 15-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2 and 44 lb uplift at joint 4.
- 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



February 17, 2025

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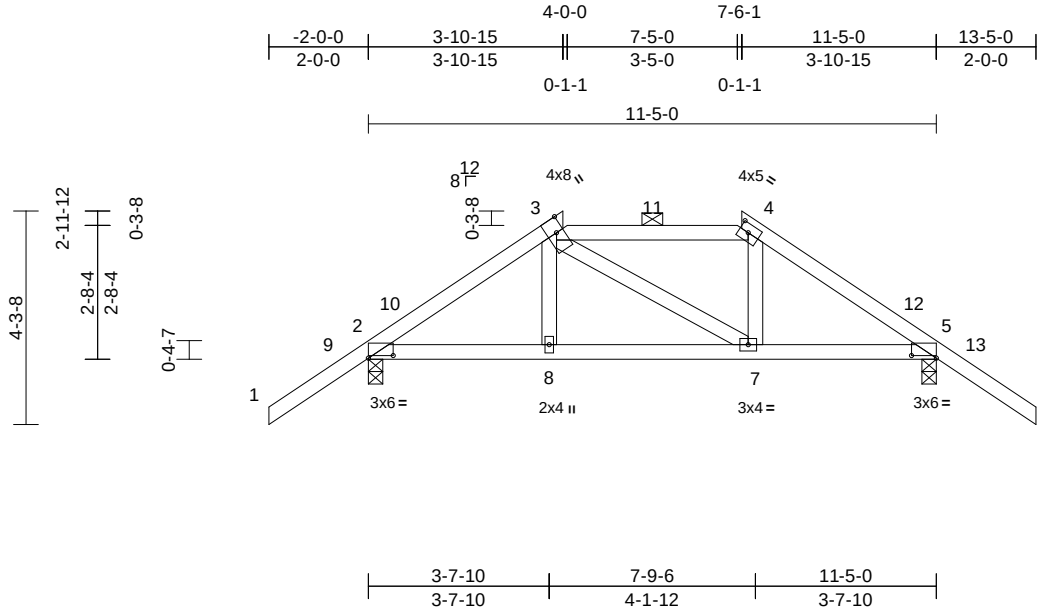
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730498
4448984	B01	California	4	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:11

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Scale = 1:46.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.02	7-8	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.04	7-8	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 45 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 5-3-5 oc purlins, except 2-0-0 oc purlins (5-8-7 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 5=0-3-8
Max Horiz 2=-62 (LC 12)
Max Uplift 2=-93 (LC 14), 5=-93 (LC 15)
Max Grav 2=1035 (LC 35), 5=1035 (LC 35)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-1019/98, 3-4=-737/92, 4-5=-1019/97, 5-6=0/143
BOT CHORD 2-8=-85/740, 7-8=-89/737, 5-7=-111/740
WEBS 3-8=0/156, 3-7=-30/28, 4-7=0/156

NOTES

- 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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 3-9-6, Exterior(2E) 3-9-6 to 7-7-10, Exterior(2R) 7-7-10 to 11-10-9, Interior (1) 11-10-9 to 13-5-0 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
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 2 and 93 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 177 lb down and 116 lb up at 3-9-6, and 237 lb down and 123 lb up at 5-8-8, and 177 lb down and 116 lb up at 7-7-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-80, 3-4=-80, 4-6=-80, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-78, 4=-78, 11=-84



February 17, 2025

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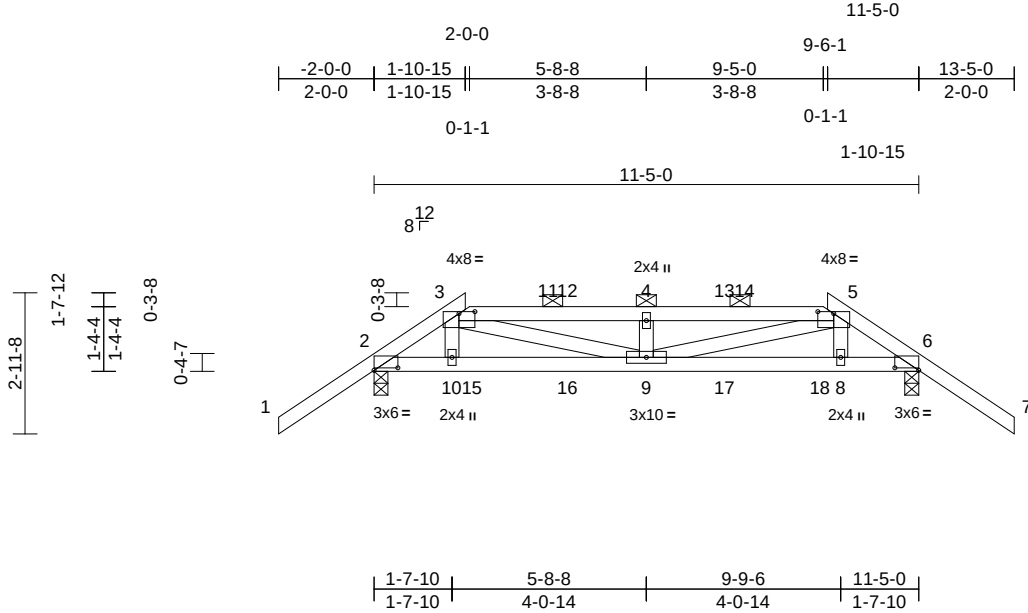
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730499
4448984	B02	California Girder	4	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:12
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Page: 1



Scale = 1:48.3

Plate Offsets (X, Y): [2:0-6-0,0-0-10], [3:0-4-0,0-0-8], [5:0-4-0,0-0-10], [6:0-6-0,0-0-10]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.07	9	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.11	9	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 46 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-5 oc purlins, except 2-0-0 oc purlins (3-10-7 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 6=0-3-8
Max Horiz 2=39 (LC 9)
Max Uplift 2=-91 (LC 10), 6=-91 (LC 11)
Max Grav 2=725 (LC 17), 6=725 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-956/88, 3-4=-1765/142, 4-5=-1765/142, 5-6=-955/87, 6-7=0/143
BOT CHORD 2-10=-63/810, 9-10=-69/802, 8-9=-72/821, 6-8=-66/830
WEBS 3-10=-56/118, 3-9=-68/1057, 4-9=-496/89, 5-9=-67/1057, 5-8=-56/118

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) Unbalanced snow loads have been considered for this design.
- 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) 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 91 lb uplift at joint 2 and 91 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 250 lb up at 1-9-6, 97 lb down and 32 lb up at 4-0-12, 86 lb down and 18 lb up at 5-8-8, and 97 lb down and 32 lb up at 7-4-4, and 98 lb down and 250 lb up at 9-7-10 on top chord, and 8 lb down at 2-0-12, 8 lb down at 4-0-12, 8 lb down at 5-8-8, and 8 lb down at 7-4-4, and 8 lb down at 9-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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, 3-5=-80, 5-7=-80, 2-6=-20
Concentrated Loads (lb)
Vert: 3=74, 5=74



February 17, 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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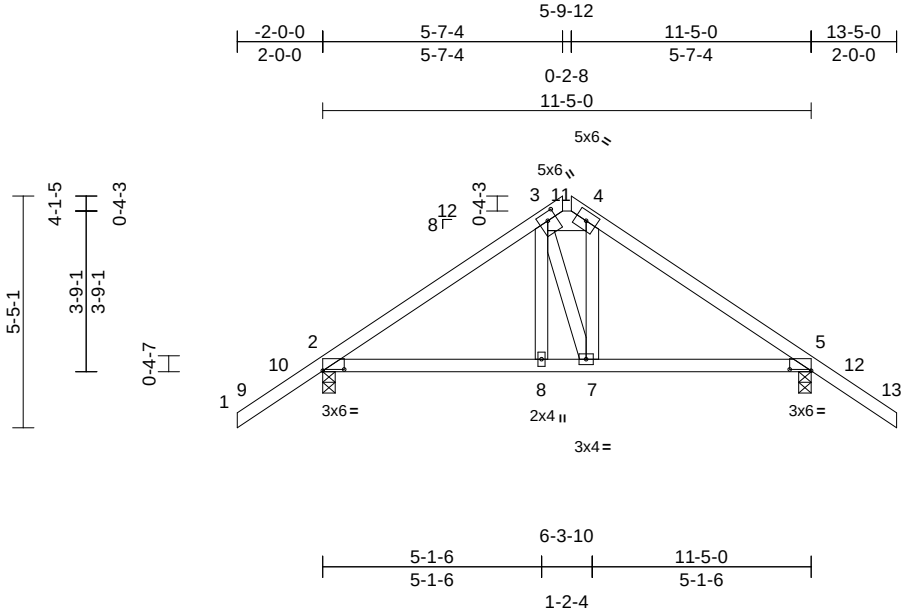
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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730500
4448984	B03	California Girder	2	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:53.9

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

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	0.65	Vert(LL)	0.04	2-8	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.05	2-8	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 48 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2 *Except* 3-4:2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 5=0-3-8
Max Horiz 2=-78 (LC 8)
Max Uplift 2=-57 (LC 10), 5=-58 (LC 11)
Max Grav 2=988 (LC 31), 5=987 (LC 31)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-856/36, 3-4=-567/55, 4-5=-856/32, 5-6=0/143
BOT CHORD 2-8=-12/571, 7-8=-13/567, 5-7=0/565
WEBS 3-8=0/128, 3-7=-185/172, 4-7=-66/237

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) Unbalanced snow loads have been considered for this design.
- 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) 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 57 lb uplift at joint 2 and 58 lb uplift at joint 5.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 123 lb down and 66 lb up at 5-6-12, and 123 lb down and 66 lb up at 5-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-80, 3-4=-80, 4-6=-80, 2-5=-20
Concentrated Loads (lb)
Vert: 11=-104



February 17, 2025

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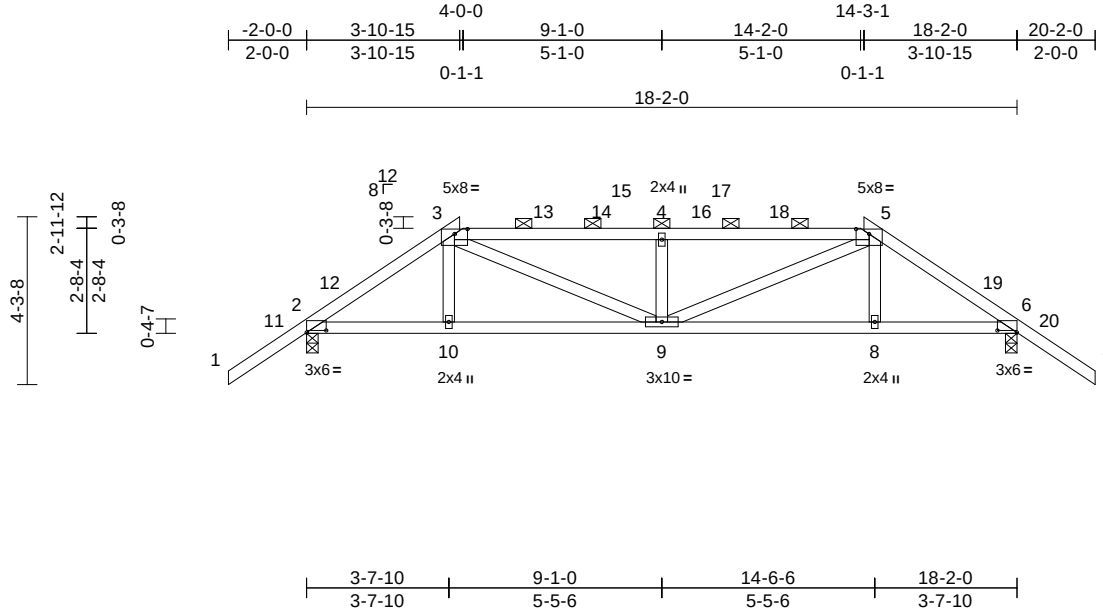
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730501
4448984	C01	California	4	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:12

Page: 1

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Scale = 1:58.9

Plate Offsets (X, Y): [2:0-6-0,0-0-10], [3:0-4-0,0-1-8], [5:0-4-0,0-1-8], [6:0-6-0,0-0-10]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.09	9	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.15	9-10	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.04	6	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 71 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 4-5-10 oc purlins, except 2-0-0 oc purlins (3-0-8 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 6=0-3-8
Max Horiz 2=62 (LC 13)
Max Uplift 2=-125 (LC 14), 6=-125 (LC 15)
Max Grav 2=1207 (LC 35), 6=1207 (LC 35)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-1570/146, 3-4=-2183/216, 4-5=-2183/216, 5-6=-1570/146, 6-7=0/143
BOT CHORD 2-10=-117/1277, 9-10=-121/1272, 8-9=-105/1272, 6-8=-102/1277
WEBS 3-10=0/184, 3-9=-105/999, 4-9=-710/146, 5-9=-105/999, 5-8=0/184

NOTES

- 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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 3-9-6, Exterior(2R) 3-9-6 to 8-0-5, Interior (1) 8-0-5 to 14-4-10, Exterior(2R) 14-4-10 to 18-7-9, Interior (1) 18-7-9 to 20-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2 and 125 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 163 lb down and 124 lb up at 3-9-6, 116 lb down and 92 lb up at 6-0-12, 90 lb down and 80 lb up at 8-0-12, 90 lb down and 80 lb up at 10-1-4, and 116 lb down and 92 lb up at 12-1-4, and 163 lb down and 124 lb up at 14-4-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-80, 3-5=-80, 5-7=-80, 2-6=-20
Concentrated Loads (lb)
Vert: 3=-15, 5=-15



February 17, 2025

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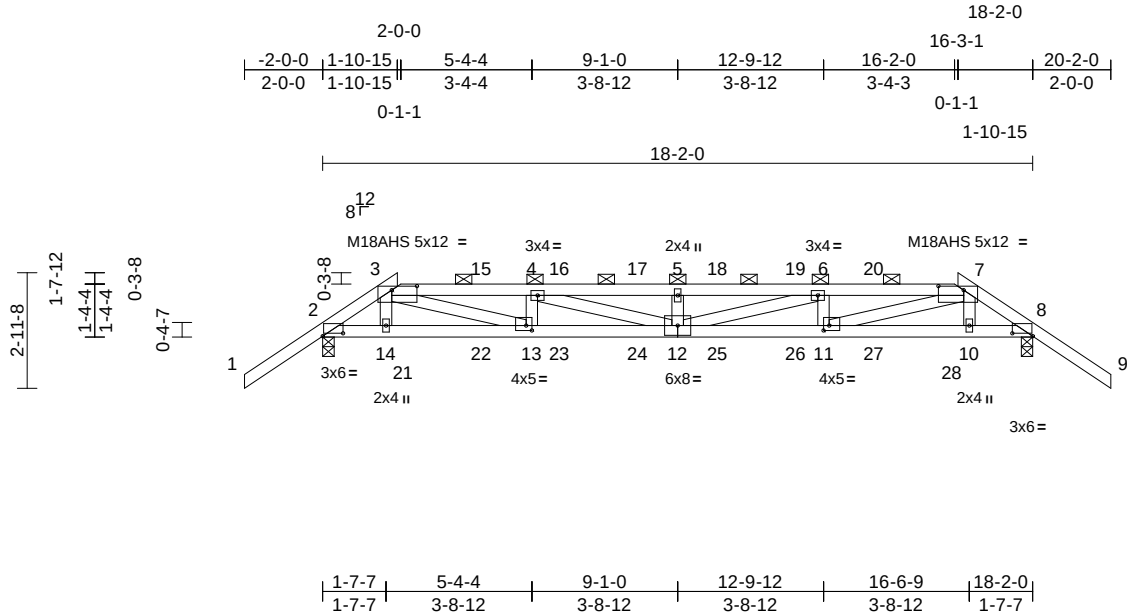
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730502
4448984	C02	California Girder	4	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:59

Plate Offsets (X, Y): [2:0-6-4,0-0-14], [3:0-7-12,0-1-4], [7:0-7-12,0-1-4], [8:0-6-4,0-0-14], [11:0-1-12,0-1-8], [13:0-1-12,0-1-8]

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	0.98	Vert(LL)	-0.39	12	>555	240	M18AHS	145/140
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.60	12	>360	180	MT20	185/148
TCDL	15.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 74 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins, except 2-0-0 oc purlins (2-0-7 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=39 (LC 9)
Max Uplift 2=-115 (LC 10), 8=-115 (LC 11)
Max Grav 2=1110 (LC 30), 8=1110 (LC 30)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-1751/136, 3-4=-3920/264, 4-5=-4764/310, 5-6=-4764/310, 6-7=-3920/264, 7-8=-1751/136, 8-9=0/143
BOT CHORD 2-14=-103/1475, 13-14=-110/1465, 11-13=-257/3920, 10-11=-113/1485, 8-10=-107/1495
WEBS 3-14=-68/112, 7-10=-68/112, 7-11=-151/2572, 4-13=-679/90, 3-13=-152/2573, 4-12=-57/880, 5-12=-416/72, 6-12=-58/880, 6-11=-679/90

NOTES

- 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
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 2 and 115 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 247 lb up at 1-9-6, 97 lb down and 32 lb up at 4-0-12, 104 lb down and 37 lb up at 6-0-12, 105 lb down and 37 lb up at 8-0-12, 105 lb down and 37 lb up at 10-1-4, 104 lb down and 37 lb up at 12-1-4, and 97 lb down and 32 lb up at 14-1-4, and 98 lb down and 247 lb up at 16-4-10 on top chord, and 8 lb down at 2-0-12, 8 lb down at 4-0-12, 8 lb down at 6-0-12, 8 lb down at 8-0-12, 8 lb down at 10-1-4, 8 lb down at 12-1-4, and 8 lb down at 14-1-4, and 8 lb down at 16-1-4 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-80, 3-7=-80, 7-9=-80, 2-8=-20
Concentrated Loads (lb)
Vert: 3=85, 7=85



February 17, 2025

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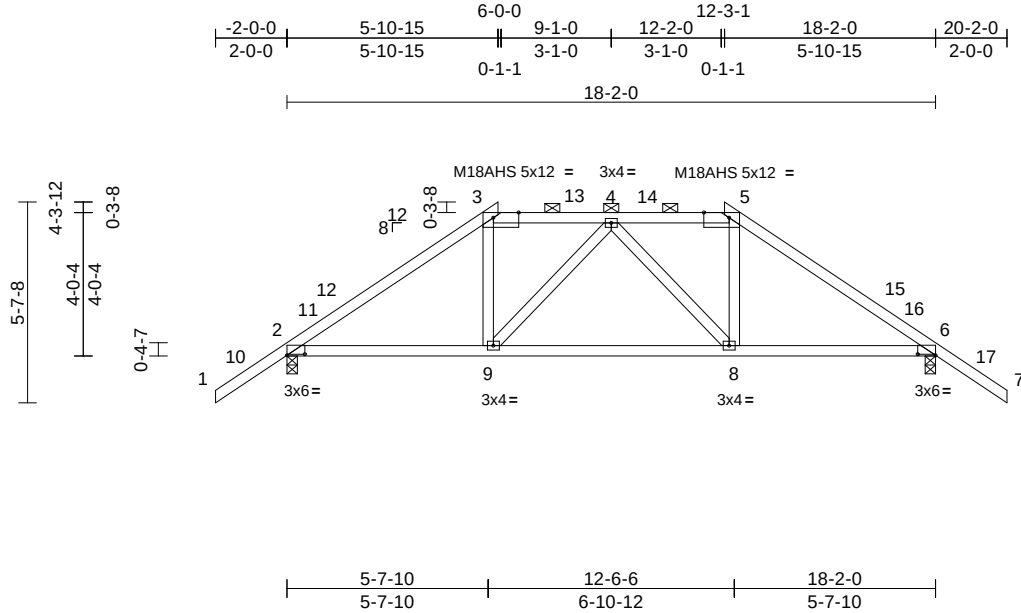
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730503
4448984	C03	California	4	1	Job Reference (optional)	

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

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Scale = 1:64.5

Plate Offsets (X, Y): [2:0-6-0,0-0-6], [3:0-8-8,Edge], [5:0-8-8,Edge], [6:0-6-0,0-0-6]

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	0.67	Vert(LL)	-0.06	8-9	>999	240	M18AHS 145/140
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.14	8-9	>999	180	MT20 185/148
TCDL	15.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.04	6	n/a	n/a	
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 71 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 3-2-6 oc purlins, except 2-0-0 oc purlins (4-9-3 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=84 (LC 13)
Max Uplift 2=-131 (LC 14), 6=-131 (LC 15)
Max Grav 2=1509 (LC 35), 6=1509 (LC 35)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-1773/154, 3-4=-1298/160, 4-5=-1299/160, 5-6=-1773/154, 6-7=0/143
BOT CHORD 2-9=-104/1312, 8-9=-158/1492, 6-8=-73/1312
WEBS 3-9=-10/433, 5-8=-9/433, 4-9=-442/133, 4-8=-442/133

NOTES

- 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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-9-6, Exterior(2R) 5-9-6 to 10-0-5, Interior (1) 10-0-5 to 12-4-10, Exterior(2R) 12-4-10 to 16-7-9, Interior (1) 16-7-9 to 20-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 2 and 131 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 161 lb down and 114 lb up at 5-9-6, 322 lb down and 127 lb up at 8-0-12, and 322 lb down and 127 lb up at 10-1-4, and 161 lb down and 114 lb up at 12-4-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-80, 3-5=-80, 5-7=-80, 2-6=-20
Concentrated Loads (lb)
Vert: 3=-62, 5=-62, 13=-136, 14=-136



February 17,2025

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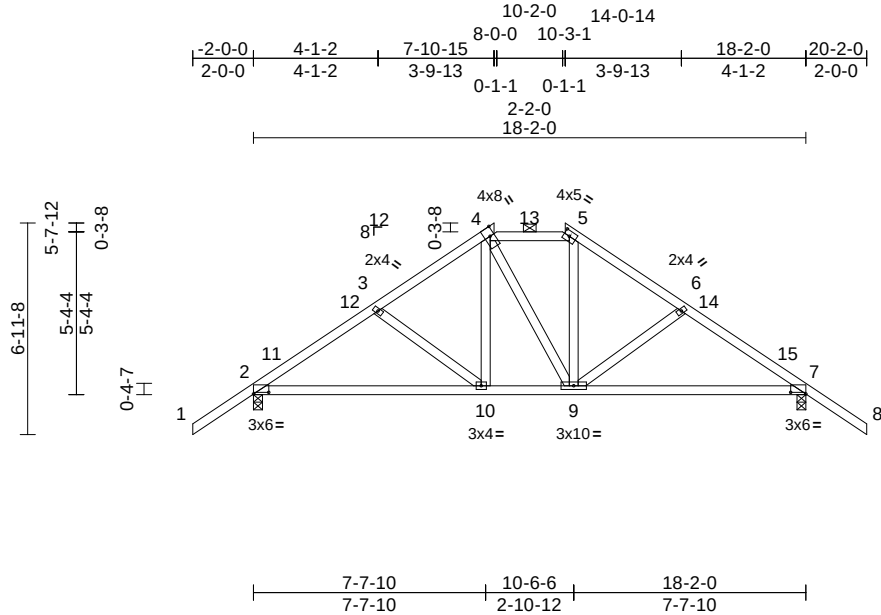
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730504
4448984	C04	California	4	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:13
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Page: 1



Scale = 1:75.8

Plate Offsets (X, Y): [2:0-6-0,0-0-10], [4:0-3-8,Edge], [5:0-2-4,0-2-0], [7:0-6-0,0-0-10]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.09	2-10	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.18	2-10	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 80 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 4-1-7 oc purlins, except 2-0-0 oc purlins (5-3-4 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 7=0-3-8
Max Horiz 2=-107 (LC 12)
Max Uplift 2=-86 (LC 14), 7=-86 (LC 15)
Max Grav 2=1453 (LC 35), 7=1453 (LC 35)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-1846/105, 3-4=-1474/95, 4-5=-1134/102, 5-6=-1475/94, 6-7=-1846/105, 7-8=0/143
BOT CHORD 2-10=-79/1410, 9-10=-17/1133, 7-9=-23/1410
WEBS 4-10=0/297, 4-9=-87/90, 5-9=0/297, 3-10=-334/106, 6-9=-333/106

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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 7-9-6, Exterior(2E) 7-9-6 to 10-4-10, Exterior(2R) 10-4-10 to 14-7-9, Interior (1) 14-7-9 to 20-2-0 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 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be HF No.2 .
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 2 and 86 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 246 lb down and 131 lb up at 7-9-6, and 246 lb down and 131 lb up at 10-4-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-80, 4-5=-80, 5-8=-80, 2-7=-20
Concentrated Loads (lb)
Vert: 4=-147, 5=-147



February 17, 2025

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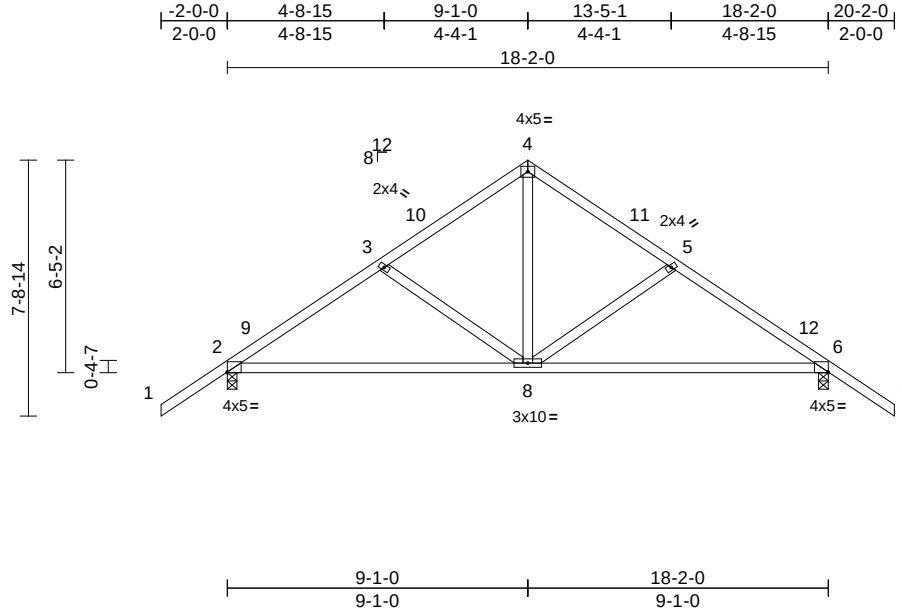
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730505
4448984	C05	Common	4	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:69.7

Plate Offsets (X, Y): [2:Edge,0-0-4], [6: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	0.62	Vert(LL)	-0.13	2-8	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.26	2-8	>829	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 71 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 5-1-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=-124 (LC 10)
Max Uplift 2=-47 (LC 12), 6=-47 (LC 13)
Max Grav 2=1065 (LC 1), 6=1065 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-1218/41, 3-4=-901/39,
4-5=-900/38, 5-6=-1218/41, 6-7=0/143
BOT CHORD 2-8=-33/921, 6-8=0/921
WEBS 4-8=0/563, 5-8=-320/113, 3-8=-320/112

NOTES

- 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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 9-1-0, Exterior(2R) 9-1-0 to 12-1-0, Interior (1) 12-1-0 to 20-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2 and 47 lb uplift at joint 6.
- 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



February 17, 2025

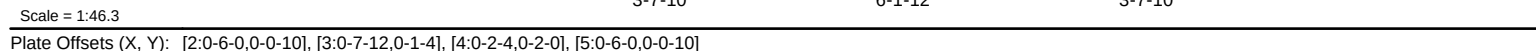
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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 4-11-5 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 3-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	
(size)	2=0-3-8, 5=0-3-8
Max Horiz	=2=62 (LC 13)
Max Uplift	2=-104 (LC 14), 5=-104 (LC 15)
Max Grav	2=1099 (LC 35), 5=1099 (LC 35)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/143, 2-3=-1171/112, 3-4=-925/111, 4-5=-1171/111, 5-6=0/143
BOT CHORD	2-8=-84/930, 7-8=-88/925, 5-7=-111/930
WEBS	3-8=0/213, 3-7=-30/28, 4-7=0/213
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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 3-9-6, Exterior(2R) 3-9-6 to 8-0-5, Interior (1) 8-0-5 to 9-7-10, Exterior(2R) 9-7-10 to 13-10-9, Interior (1) 13-10-9 to 15-5-0 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) Unbalanced snow loads have been considered for this design.	



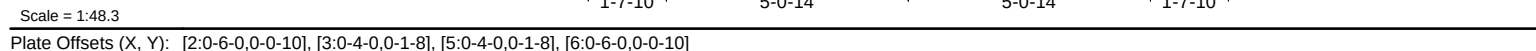
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

WARNING – Verify design parameters and READ NOTES ON THIS and INCLUDED INSTALLER REFERENCE PAGE IMF4743 Rev. 12/2023 BEFORE USE.

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LUMBER			1) Provide adequate drainage to prevent water ponding.
TOP CHORD	2x4 HF No.2		6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
BOT CHORD	2x4 HF No.2		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.
WEBS	2x4 HF No.2		8) All bearings are assumed to be HF No.2 .
BRACING			9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 2 and 99 lb uplift at joint 6.
TOP CHORD	Structural wood sheathing directly applied or 4-10-14 oc purlins, except 2-0-0 oc purlins (2-8-3 max.): 3-5.		10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
REACTIONS (size)		2=0-3-8, 6=0-3-8	12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 247 lb up at 1-9-6, 97 lb down and 32 lb up at 4-0-12, 104 lb down and 37 lb up at 6-0-12, 104 lb down and 37 lb up at 7-4-4, and 97 lb down and 32 lb up at 9-4-4, and 98 lb down and 247 lb up at 11-7-10 on top chord, and 8 lb down at 2-0-12, 8 lb down at 4-0-12, 8 lb down at 6-0-12, 8 lb down at 7-4-4, and 8 lb down at 9-4-4, and 8 lb down at 11-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
	Max Horiz	2=39 (LC 9)	13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
	Max Uplift	2=-99 (LC 10), 6=-99 (LC 11)	
	Max Grav	2=803 (LC 17), 6=803 (LC 18)	
FORCES (lb) - Maximum Compression/Maximum Tension			LOAD CASE(S) Standard
TOP CHORD	1-2=0/143, 2-3=-1260/99, 3-4=-2597/192, 4-5=-2597/192, 5-6=-1259/98, 6-7=0/143		1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
BOT CHORD	2-10=-74/1078, 9-10=-82/1065, 8-9=-85/1084, 6-8=-78/1097		Uniform Loads (lb/ft)
WEBS	3-10=-27/165, 3-9=-105/1614, 4-9=-619/111, 5-9=-104/1614, 5-8=-27/165		Ver: 1-3=-80, 3-5=-80, 5-7=-80, 2-6=-20
NOTES			Concentrated Loads (lb)
1)	Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDD=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		Ver: 3=85, 5=85
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 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.		



February 17, 2025



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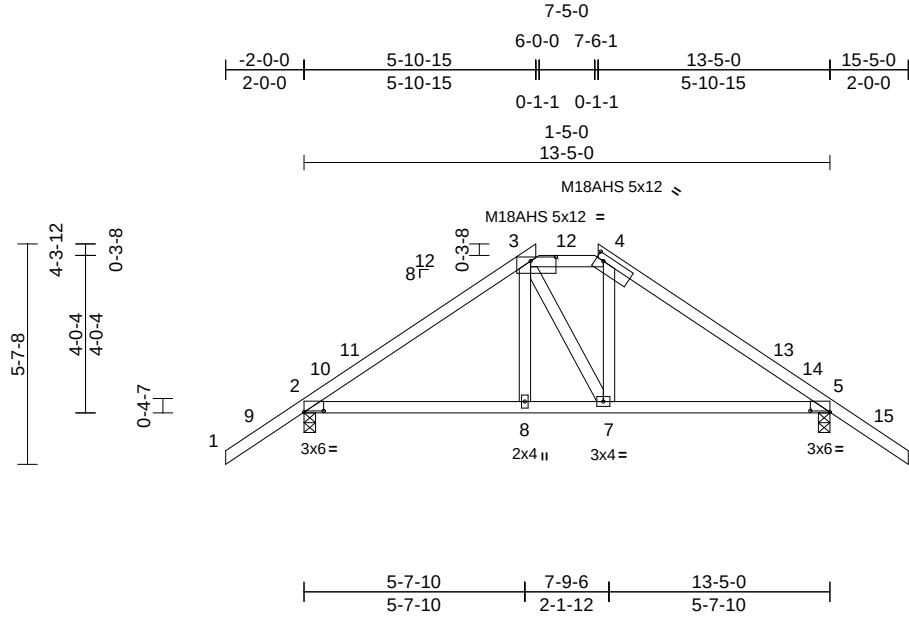
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730508
4448984	D03	California	2	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:15
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Page: 1



Scale = 1:58.8

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

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	0.63	Vert(LL)	0.05	2-8	>999	240	M18AHS 145/140
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.08	2-8	>999	180	MT20 185/148
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.02	5	n/a	n/a	
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 53 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 4-1-1 oc purlins, except 2-0-0 oc purlins (5-5-14 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 5=0-3-8
Max Horiz 2=84 (LC 13)
Max Uplift 2=-87 (LC 14), 5=-87 (LC 15)
Max Grav 2=1254 (LC 35), 5=1254 (LC 35)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-1301/93, 3-4=-916/114, 4-5=-1302/92, 5-6=0/143
BOT CHORD 2-8=-29/919, 7-8=-31/915, 5-7=-15/919
WEBS 3-8=0/161, 3-7=-130/132, 4-7=0/184

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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-9-6, Exterior(2E) 5-9-6 to 7-7-10, Exterior(2R) 7-7-10 to 11-10-9, Interior (1) 11-10-9 to 15-5-0 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) Unbalanced snow loads have been considered for this design.

- 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) 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 87 lb uplift at joint 2 and 87 lb uplift at joint 5.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 222 lb down and 84 lb up at 5-9-6, and 222 lb down and 84 lb up at 7-7-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-80, 3-4=-80, 4-6=-80, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-173, 4=-173



February 17, 2025

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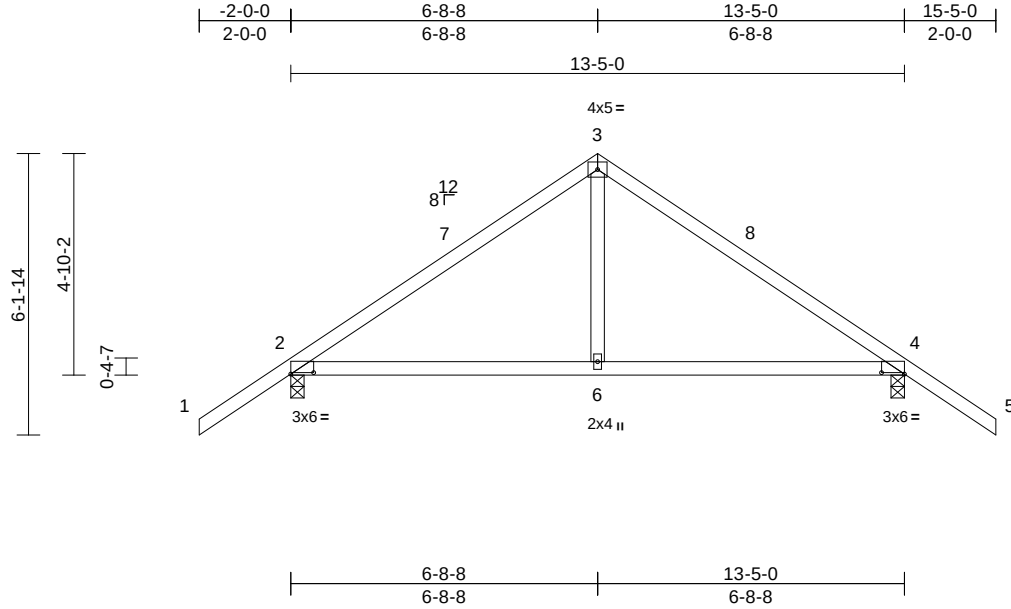
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Job 4448984	Truss D04	Truss Type Common	Qty 4	Ply 1	MKM EAST TOWN BLDG H Job Reference (optional)	R86730509
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Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:15
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Page: 1



Scale = 1:50.4

Plate Offsets (X, Y): [2:0-6-0,0-0-6], [4:0-6-0,0-0-6]

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	0.62	Vert(LL)	0.05	2-6	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.10	4-6	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 45 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 4-11-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=-98 (LC 10)
Max Uplift 2=-44 (LC 12), 4=-44 (LC 13)
Max Grav 2=828 (LC 1), 4=828 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/143, 2-3=-767/42, 3-4=-767/42, 4-5=0/143
BOT CHORD 2-6=0/503, 4-6=0/503
WEBS 3-6=0/315

NOTES

- 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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 6-8-8, Exterior(2R) 6-8-8 to 9-8-8, Interior (1) 9-8-8 to 15-5-0 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
- 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=1.0; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2 and 44 lb uplift at joint 4.
- 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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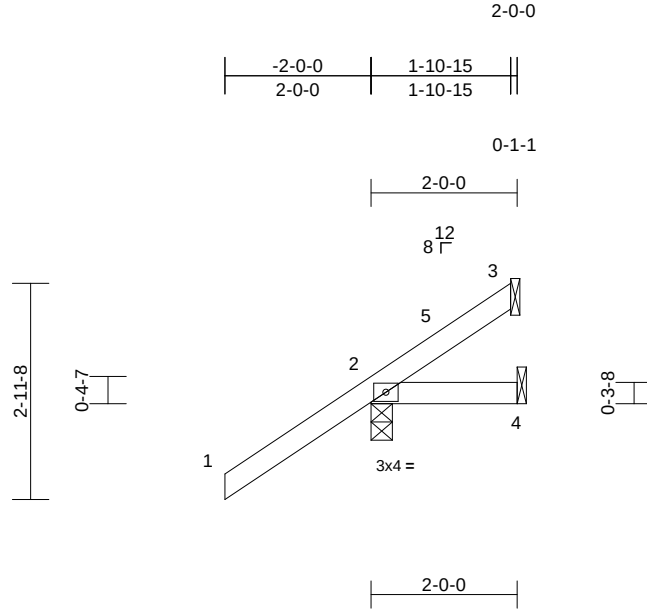
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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730510
4448984	J01	Jack-Open	28	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:31.5

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	0.56	Vert(LL)	0.00	2-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	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

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=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=63 (LC 12)
Max Uplift 2=-47 (LC 12), 3=-115 (LC 18)
Max Grav 2=455 (LC 18), 3=12 (LC 8), 4=39 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/141, 2-3=-99/26
BOT CHORD 2-4=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 Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 1-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) 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 47 lb uplift at joint 2 and 115 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.
- LOAD CASE(S)** Standard



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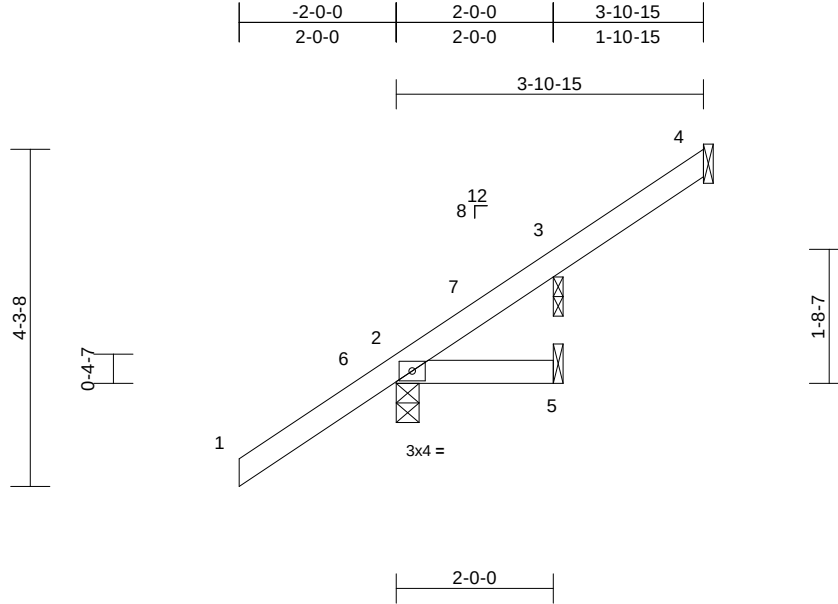
Job 4448984	Truss J02	Truss Type Jack-Open	Qty 28	Ply 1	MKM EAST TOWN BLDG H Job Reference (optional)	R86730511
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Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

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Scale = 1:29.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.51	0.00	2-5	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	0.00	2-5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	0.00	4	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

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=0-3-8, 3=0-1-8, 4= Mechanical, 5= Mechanical
Max Horiz 2=98 (LC 12)
Max Uplift 2=-23 (LC 12), 3=-74 (LC 18), 4=-26 (LC 12)
Max Grav 2=445 (LC 18), 3=75 (LC 20), 4=71 (LC 1), 5=39 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/141, 2-3=-98/58, 3-4=-37/32
BOT CHORD 2-5=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 Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 3-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) 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 at joint(s) 3.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4, 23 lb uplift at joint 2 and 74 lb uplift at joint 3.
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.
 - 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



February 17, 2025

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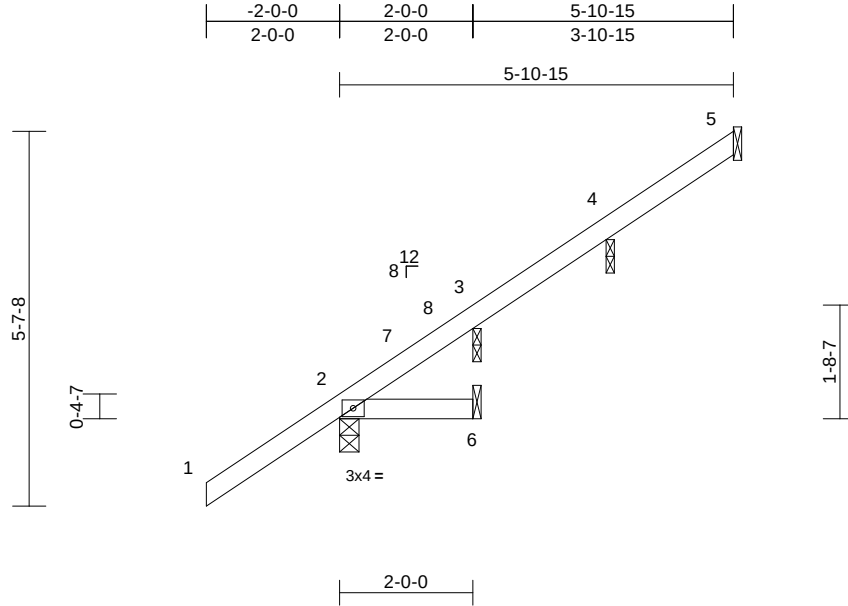
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730512
4448984	J03	Jack-Open	20	1	Job Reference (optional)	

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

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Page: 1

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Scale = 1:34.6

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	0.56	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	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 14 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 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=0-3-8, 3=0-1-8, 4=0-1-8, 5= Mechanical, 6= Mechanical
Max Horiz 2=133 (LC 12)
Max Uplift 3=-71 (LC 18), 4=-56 (LC 12), 5=-26 (LC 12)
Max Grav 2=446 (LC 18), 3=83 (LC 20), 4=151 (LC 1), 5=71 (LC 1), 6=39 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/141, 2-3=-144/91, 3-4=-95/59, 4-5=-37/32
BOT CHORD 2-6=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 Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 at joint(s) 3, 4.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5, 71 lb uplift at joint 3 and 56 lb uplift at joint 4.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4.
- 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



February 17, 2025

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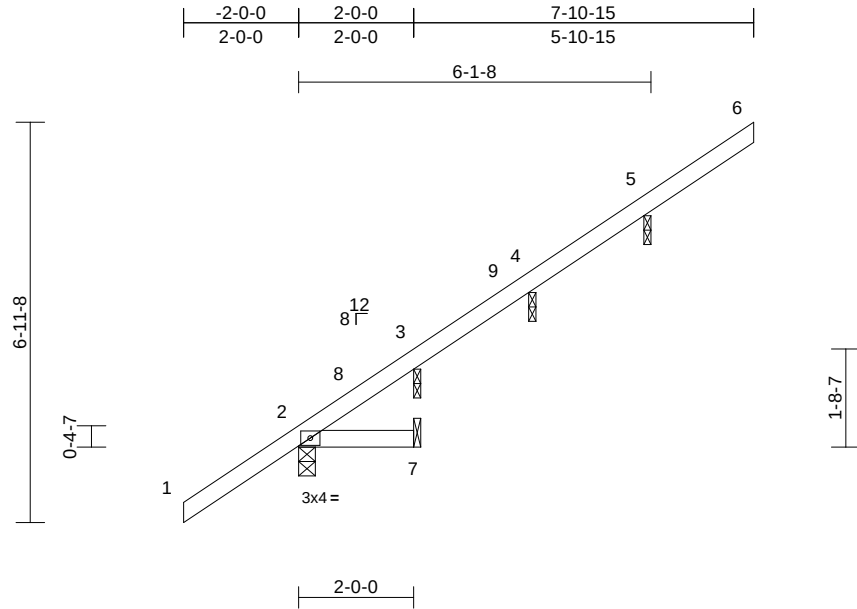
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730513
4448984	J04	Jack-Open	8	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:16
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Page: 1



Scale = 1:40.1

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	0.56	Vert(LL)	0.00	2-7	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-7	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 16 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 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=0-3-8, 3=0-1-8, 4=0-1-8, 5=0-1-8, 7= Mechanical
Max Horiz 2=154 (LC 12)
Max Uplift 3=-71 (LC 18), 4=-51 (LC 18), 5=-83 (LC 9)
Max Grav 2=446 (LC 18), 3=84 (LC 20), 4=93 (LC 20), 5=382 (LC 18), 7=39 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/141, 2-3=-190/94, 3-4=-152/87, 4-5=-120/84, 5-6=-133/0
BOT CHORD 2-7=0/0

NOTES

- 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) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 7-10-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3, 4, 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 3, 51 lb uplift at joint 4 and 83 lb uplift at joint 5.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5.
- 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



February 17, 2025

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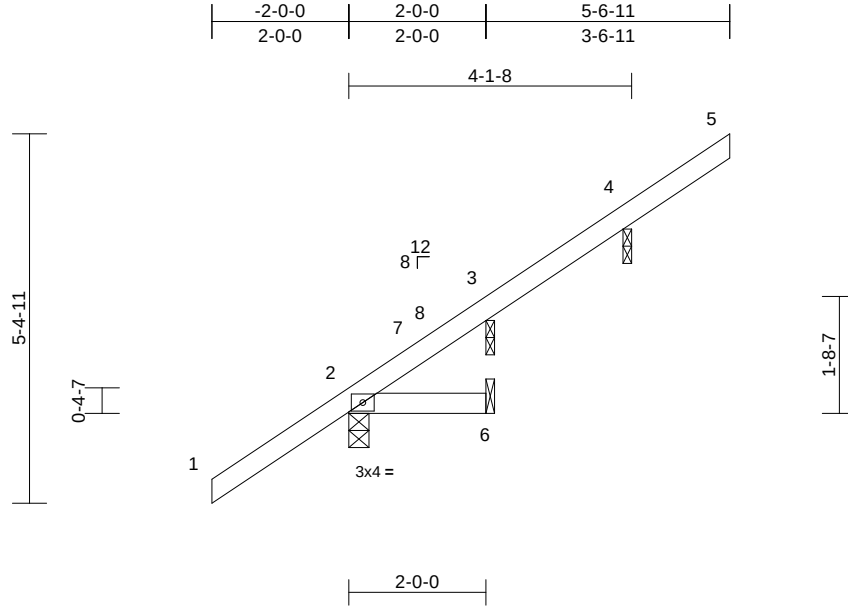
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730514
4448984	J05	Jack-Open	4	1	Job Reference (optional)	

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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	0.56	0.00	2-6	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	0.00	2-6	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P							
BCDL	10.0									Weight: 13 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 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=0-3-8, 3=0-1-8, 4=0-1-8, 6= Mechanical
Max Horiz 2=124 (LC 12)
Max Uplift 2=-5 (LC 12), 3=-144 (LC 18), 4=-79 (LC 12)
Max Grav 2=446 (LC 18), 3=42 (LC 20), 4=297 (LC 18), 6=39 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/141, 2-3=-131/56, 3-4=-98/71, 4-5=-108/0

BOT CHORD 2-6=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 Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-6-11 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 at joint(s) 3, 4.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 2, 144 lb uplift at joint 3 and 79 lb uplift at joint 4.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4.
- 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



February 17, 2025

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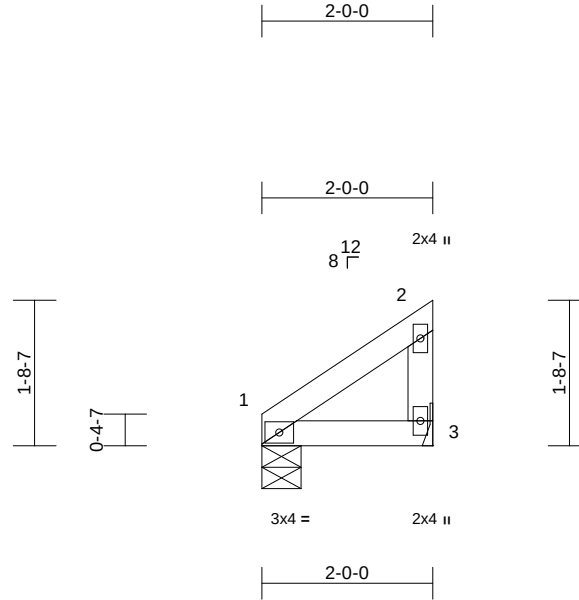
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730515
4448984	J06	Jack-Closed	5	1	Job Reference (optional)	

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Scale = 1:27

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	1-3	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	1-3	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

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

REACTIONS (size) 1=0-5-8, 3= Mechanical

Max Horiz 1=33 (LC 11)
Max Uplift 3=-11 (LC 12)
Max Grav 1=90 (LC 1), 3=91 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-49/44, 2-3=-73/56
BOT CHORD 1-3=-16/17

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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be HF No.2.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 3.
 - 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



February 17, 2025

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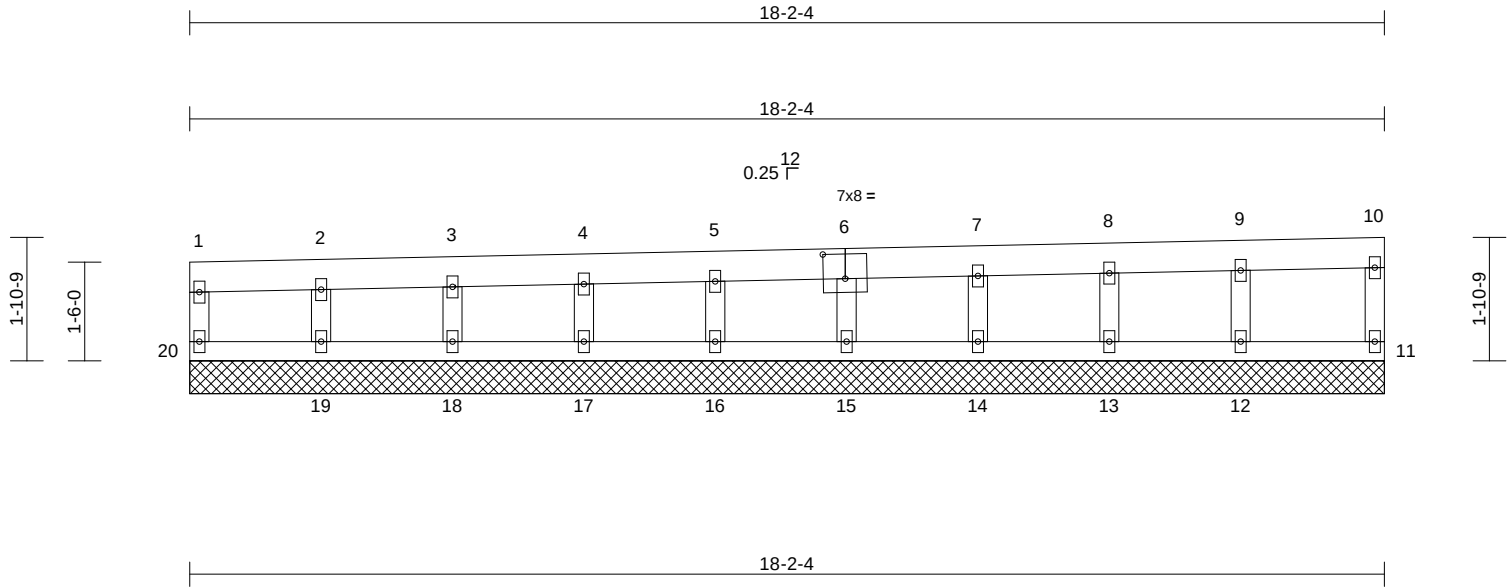
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730516
4448984	M01	Monopitch Supported Gable	1	1	Job Reference (optional)	

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Scale = 1:35.1

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

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	0.12	Vert(LL)	n/a	-	n/a	999	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	0.09	Horiz(TL)	0.00	11	n/a	n/a	
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R							
BCDL	10.0										
										Weight: 71 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 10-0-0 oc bracing.

REACTIONS (size)
11=18-2-4, 12=18-2-4, 13=18-2-4,
14=18-2-4, 15=18-2-4, 16=18-2-4,
17=18-2-4, 18=18-2-4, 19=18-2-4,
20=18-2-4
Max Horiz 20=37 (LC 9)
Max Uplift 11=-16 (LC 12), 12=-49 (LC 8),
13=-41 (LC 12), 14=-43 (LC 8),
15=-42 (LC 12), 16=-42 (LC 8),
17=-42 (LC 12), 18=-43 (LC 8),
19=-40 (LC 12), 20=-20 (LC 8)
Max Grav 11=304 (LC 1), 12=797 (LC 1),
13=701 (LC 1), 14=724 (LC 1),
15=715 (LC 1), 16=711 (LC 1),
17=717 (LC 1), 18=714 (LC 1),
19=745 (LC 1), 20=279 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-261/91, 10-11=-287/100, 1-2=-32/11,
2-3=-33/13, 3-4=-33/15, 4-5=-32/17,
5-7=-32/19, 7-8=-22/20, 8-9=-22/22,
9-10=-23/24
BOT CHORD 19-20=-32/45, 18-19=-32/45, 17-18=-32/45,
16-17=-32/45, 15-16=-32/45, 14-15=-29/37,
13-14=-29/37, 12-13=-29/37, 11-12=-29/37

WEBS
2-19=-706/249, 3-18=-674/221,
4-17=-677/222, 5-16=-671/219,
6-15=-675/223, 7-14=-684/223,
8-13=-662/218, 9-12=-753/246

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 20 lb uplift at joint 20, 16 lb uplift at joint 11, 40 lb uplift at joint 19, 43 lb uplift at joint 18, 42 lb uplift at joint 17, 42 lb uplift at joint 16, 42 lb uplift at joint 15, 43 lb uplift at joint 14, 41 lb uplift at joint 13 and 49 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.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 11-20=-20, 1-10=-338



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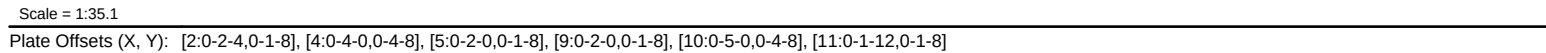
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LUMBER		2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.	6) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 7-12=-20, 1-6=-338 (F=-258)
TOP CHORD	2x6 DF No.2		Concentrated Loads (lb) Vert: 10=-73 (B), 9=-73 (B), 13=-190 (B), 14=-73 (B), 15=-190 (B)
BOT CHORD	2x6 DF 2400F 2.0E		
WEBS	2x4 HF No.2		
BRACING			
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	3) ASD: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCCLD=4.2psf; BCCLD=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	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	4) TLL: 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.	
REACTIONS	(size) 7=3-5-8, 8=3-5-8, 11=3-5-8, 12=3-5-8 Max Horiz 12=20 (LC 5) Max Uplift 7=-445 (LC 1), 8=-347 (LC 8), 11=-327 (LC 8), 12=-292 (LC 1) Max Grav 7=58 (LC 8), 8=3989 (LC 1), 11=3755 (LC 1), 12=46 (LC 8)	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 withholding 292 lb uplift at joint 12, 445 lb uplift at joint 7, 327 lb uplift at joint 11 and 347 lb uplift at joint 8. 10) This truss is designed in accordance with the 2018	
FORCES	(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=-111/1174, 2-3=-2463/217, 3-5=-2455/218, 5-6=-124/1385, 1-12=-6/102		
BOT CHORD	11-12=-113/9, 9-11=-1157/2384, 8-9=-1381/124, 7-8=0/0		
WEBS	6-7=-24/300, 1-11=-1099/97, 2-11=-2764/259, 3-10=-1056/127, 2-10=-337/3748, 4-10=-5/64, 4-9=-1199/128, 5-9=-349/3853, 5-8=-2810/264, 6-8=-1513/136		

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

LOAD CASE(S) Standard



February 17, 2025



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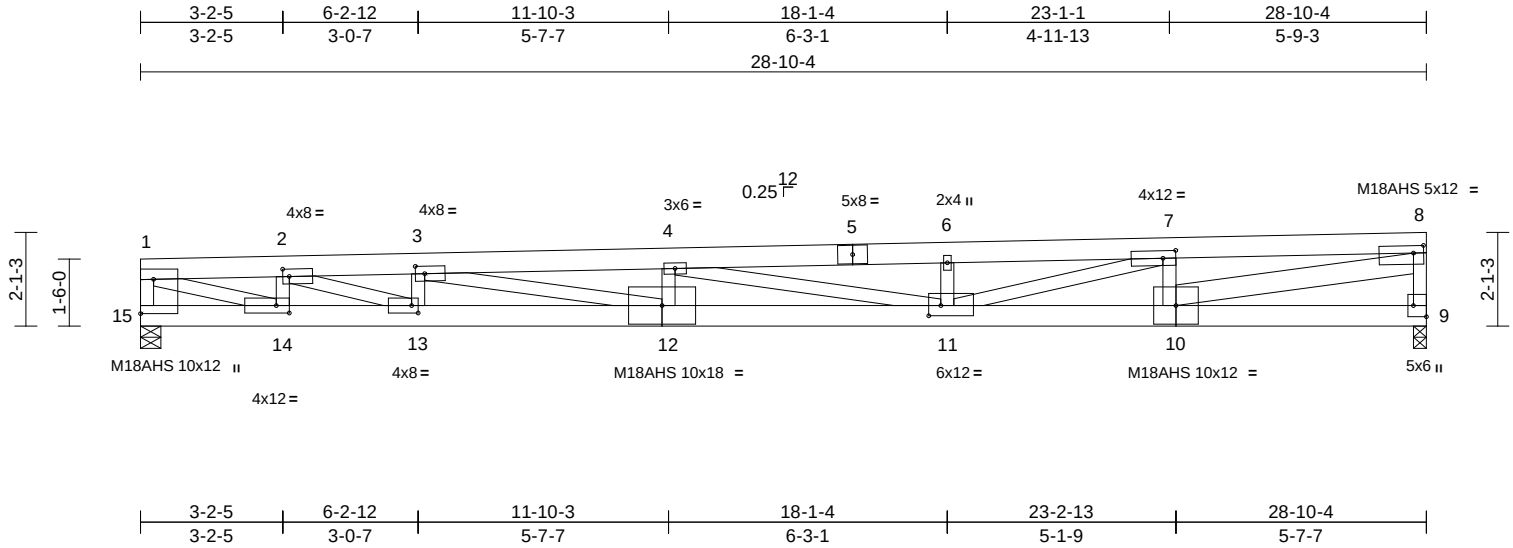
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730518
4448984	M02	Monopitch Girder	10	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:17
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Page: 1



Scale = 1:51.7									
Plate Offsets (X, Y): [2:0-1-12,0-2-0], [3:0-2-8,0-2-0], [7:0-3-7,0-2-1], [8:0-2-12,0-2-0], [9:Edge,0-3-8], [11:0-3-4,0-2-12], [13:0-1-12,0-2-0], [14:0-3-8,0-2-0], [15:Edge,0-3-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.73 11-12	>472	240
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.96	Vert(CT)	-1.48 11-12	>232	180
TCDL	15.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.13 9	n/a	n/a
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH					
BCDL	10.0								
									PLATES
									M18AHS
									MT20
									Weight: 168 lb FT = 10%

LUMBER
TOP CHORD 2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 10-8:2x6 DF 2400F 2.0E, 11-7:2x4 DF 1800F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-10-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 9=0-3-8, (req. 0-3-12), 15=0-5-8
Max Horiz 15=41 (LC 5)
Max Uplift 9=208 (LC 8), 15=157 (LC 4)
Max Grav 9=2264 (LC 1), 15=1922 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-1759/162, 8-9=-2181/233,
1-2=-4495/373, 2-3=-8351/719,
3-4=-11726/1079, 4-6=-12388/1246,
6-7=-12385/1249, 7-8=-7172/698
BOT CHORD 14-15=-26/340, 13-14=-367/4489,
11-13=-1068/11719, 9-11=-703/7352
WEBS 2-14=-1542/169, 3-13=-1221/169,
4-12=-620/151, 6-11=-1533/185,
7-10=-1955/264, 8-10=-706/7341,
7-11=-553/5258, 4-11=-167/969,
3-12=-366/3443, 2-13=-366/4108,
1-14=-369/4387

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

- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 9 greater than input bearing size.
 - All bearings are assumed to be HF No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 15 and 208 lb uplift at joint 9.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1202 lb down and 70 lb up at 18-1-4 on top chord, and 258 lb down and 127 lb up at 18-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 9-15=-20, 1-8=-80
Concentrated Loads (lb)
Vert: 11=-127 (F), 6=-1202



February 17, 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)

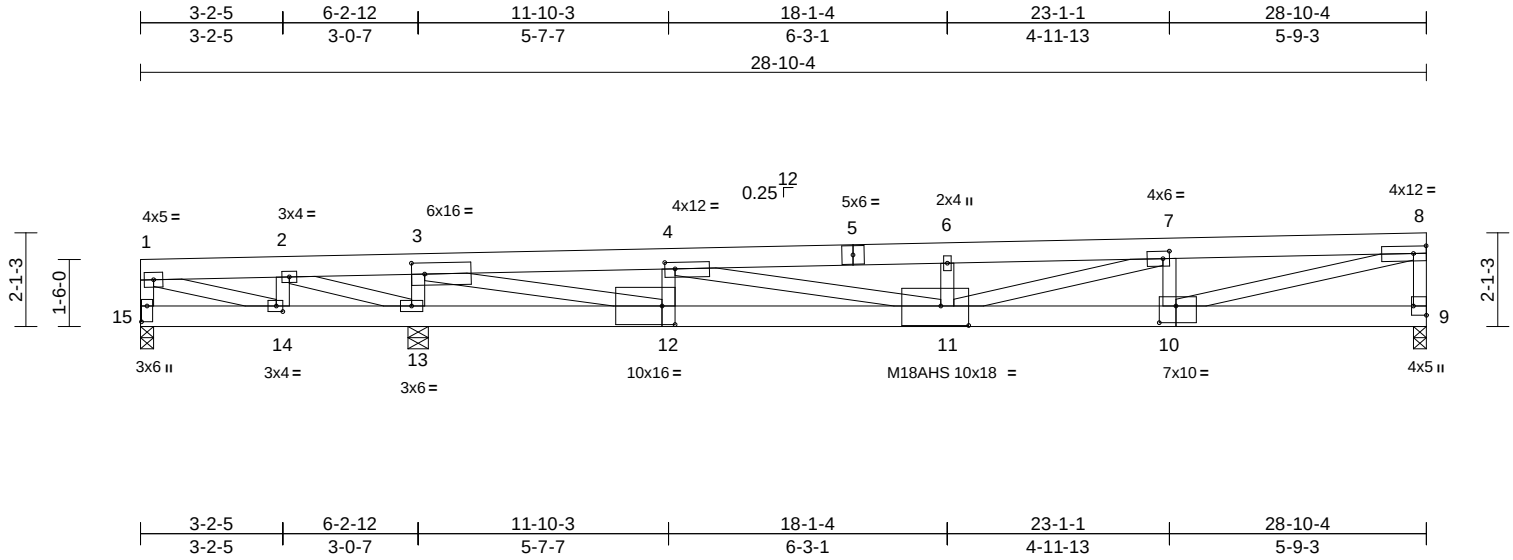
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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730519
4448984	M03	Monopitch Girder	10	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:17
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Page: 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	0.55	Vert(LL)	-0.37	11-12	>739	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.76	11-12	>356	180	M18AHS	145/140
TCDL	15.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.02	9	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 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 10-8,3-12:2x4 DF 1800F 1.6E

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-6 oc bracing.

REACTIONS

(size) 9=0-3-8, 13=0-5-8, 15=0-3-8
Max Horiz 15=41 (LC 5)
Max Uplift 9=-207 (LC 8), 13=-381 (LC 8), 15=-565 (LC 15)
Max Grav 9=1661 (LC 1), 13=3208 (LC 1), 15=96 (LC 8)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-15=-77/579, 1-2=-283/1916, 2-3=-437/3167, 3-4=-3593/480, 4-6=-7846/1189, 6-7=-7841/1191, 7-8=-5086/710, 8-9=-1565/231
BOT CHORD 14-15=-122/29, 13-14=-1913/291, 11-13=-3158/3585, 9-11=-507/2945, 7-10=-1283/254, 8-10=-708/5113, 3-12=-932/6888, 4-12=-1380/270, 4-11=-720/4343
WEBS 3-13=-2269/331, 2-13=-1326/165, 2-14=-30/452, 1-14=-1921/278, 6-11=-1501/210, 7-11=-507/2945, 7-10=-1283/254, 8-10=-708/5113, 3-12=-932/6888, 4-12=-1380/270, 4-11=-720/4343

NOTES

- 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

- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 11 = 2%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be HF No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 565 lb uplift at joint 15, 207 lb uplift at joint 9 and 381 lb uplift at joint 13.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1202 lb down and 70 lb up at 18-1-4 on top chord, and 258 lb down and 127 lb up at 18-1-4, and 258 lb down and 127 lb up at 18-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-8=-80, 9-15=-20
Concentrated Loads (lb)
Vert: 6=-1202, 11=-255 (F=-127, B=-127)



February 17, 2025

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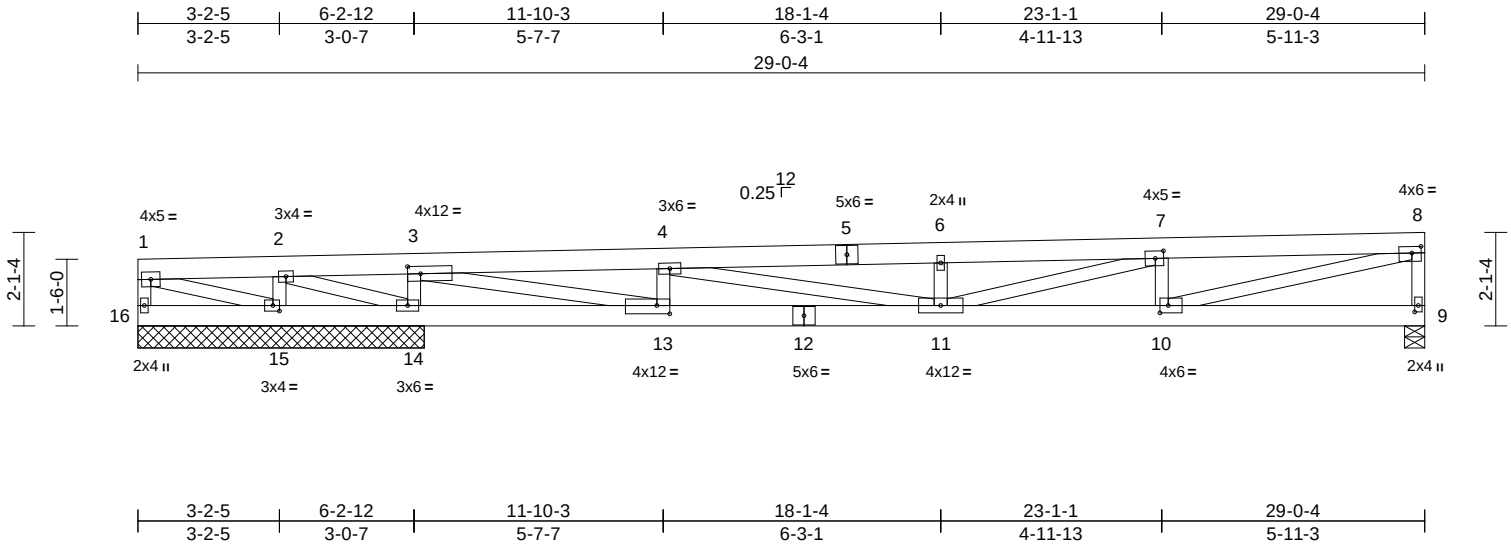
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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730520
4448984	M04	Monopitch Girder	2	2	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:18
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Page: 1



Scale = 1:52

Plate Offsets (X, Y): [3:0-3-8,0-2-0], [7:0-2-4,0-2-0], [8:0-2-8,0-1-12], [9:0-1-12,0-1-0], [10:0-2-4,0-2-0], [13:0-3-8,0-2-4], [15:0-1-12,0-1-8]

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	0.76	Vert(LL)	-0.24	11-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.49	11-13	>558	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 327 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 *Except* 13-3:2x4 DF 1800F 1.6E

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-3-12 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, 16=6-5-8
Max Horiz	16=136 (LC 31)
Max Uplift	9=-192 (LC 33), 14=-614 (LC 33), 15=-672 (LC 23), 16=-287 (LC 44)
Max Grav	9=1618 (LC 1), 14=6685 (LC 1), 15=155 (LC 24), 16=276 (LC 35)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-16=-249/346, 1-2=-823/2127, 2-3=-1355/5168, 3-4=-5862/1436, 4-6=-8255/1666, 6-7=-8238/1202, 7-8=-4909/736, 8-9=-1509/215
BOT CHORD	15-16=-1014/999, 14-15=-2611/1465, 13-14=-5078/1269, 11-13=-1006/5543, 10-11=-633/4905, 9-10=-12/209
WEBS	3-14=-4728/480, 2-15=-218/882, 1-15=-2250/828, 2-14=-3375/790, 4-13=-2390/329, 3-13=-1155/10643, 6-11=-1313/168, 4-11=-627/2826, 7-10=-1254/252, 7-11=-585/3532, 8-10=-646/4882

NOTES

- 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 0-6-0 oc, Except member 6-11 2x4 - 1 row at 0-2-0 oc.
- 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.
- 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
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 16, 192 lb uplift at joint 9, 614 lb uplift at joint 14 and 672 lb uplift at joint 15.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

- This truss has been designed for a total drag load of 2000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-5-7 for 309.9 plf.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 258 lb down and 127 lb up at 18-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S)

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-338, 6-8=-80, 9-16=-20
Concentrated Loads (lb)
Vert: 11=-126 (F)



February 17, 2025

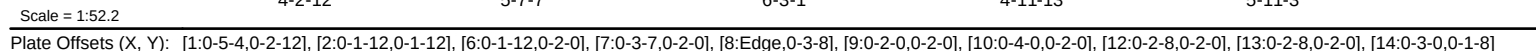
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcsccomponents.com)

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Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:18 Page: 1
ID:VLYHd6VDpTckfkKSDbn8VvzlrMq-RfC?PsB70Hg3NSoPanL8w3uITXBGKWrCDoi7J4zJC?f



LUMBER		CCL: 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.		Uniform Loads (lb/ft) Vert: 8-14=-12, 1-14=-18, 1-7=32 Horz: 7-8=27, 1-14=18, 1-15=90, 1-7=-40 Concentrated Loads (lb) Horz: 15=-200 (F)	
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		3) Provide adequate drainage to prevent water ponding.			
TOP CHORD	Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.	4) All plates are MT20 plates unless otherwise indicated.			
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-11 oc bracing: 10-12.	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.			
REACTIONS		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.			
	(size) 8=0-5-8, 14=0-5-8	7) All bearings are assumed to be HF No.2 .			
	Max Horiz 14=82 (LC 9)	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 8 and 76 lb uplift at joint 14.			
	Max Uplift 8=-81 (LC 12), 14=-76 (LC 8)	9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.			
	Max Grav 8=1344 (LC 1), 14=1325 (LC 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.			
FORCES		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.			
	(lb) - Maximum Compression/Maximum Tension	12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).			
TOP CHORD	7-8=-1233/293, 1-14=-1321/300, 1-15=0/0, 1-2=-4024/976, 2-3=-6315/1379, 3-5=-6018/1272, 5-6=-6017/1277, 6-7=-3926/831	LOAD CASE(S) Standard Except:			
BOT CHORD	13-14=-334/676, 12-13=-952/4019, 10-12=-1351/6310, 9-10=-812/3922, 8-9=-52/180	26) User defined (1): Lumber Increase=1.60, Plate Increase=1.60			
WEBS	2-13=-859/269, 1-13=-797/3464, 3-12=-401/212, 2-12=-614/2340, 5-10=-450/176, 3-10=-303/114, 6-9=-1009/302, 6-10=-471/2186, 7-9=-804/3890	Uniform Loads (lb/ft) Vert: 8-14=-12, 1-14=-18, 1-7=32 Horz: 7-8=27, 1-14=18, 1-15=90, 1-7=-40 Concentrated Loads (lb) Horz: 15=200 (F)			
NOTES		27) User defined (2): Lumber Increase=1.60, Plate Increase=1.60			
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					



February 17, 2025

WARNING – Verify design parameters and READ NOTES ON THIS and INCLUDED INSTALLER REFERENCE PAGE IMF4743 Rev. 12/2023 BEFORE USE.

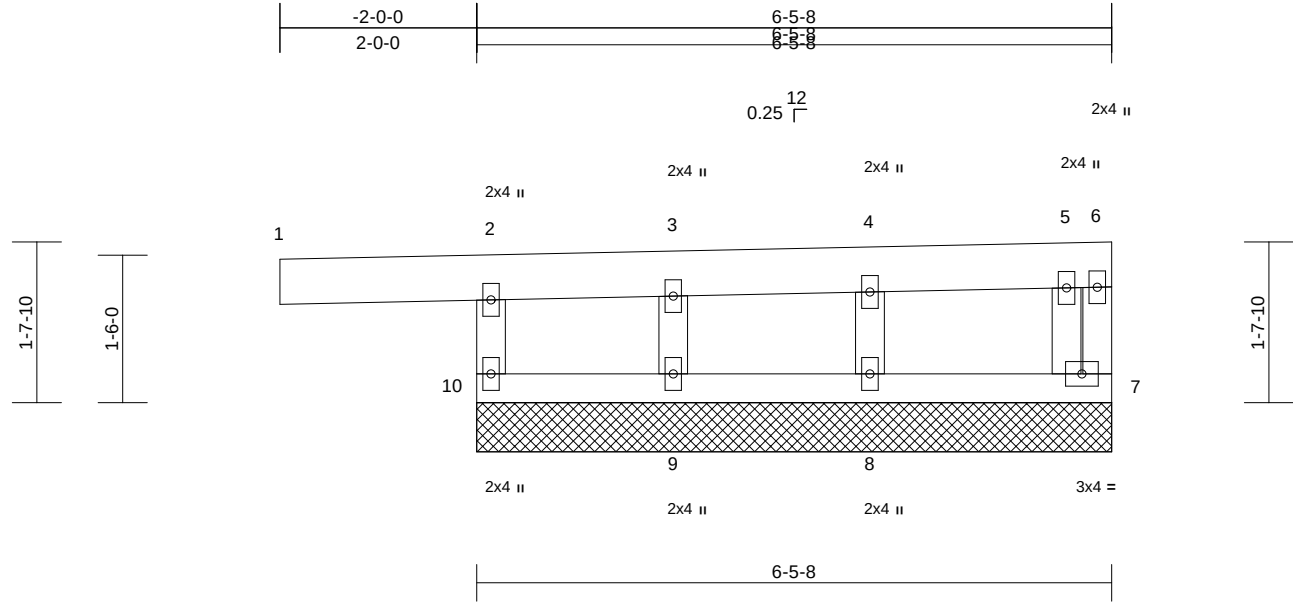
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730522
4448984	M06	Monopitch Structural Gable	2	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:18
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Page: 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	0.24	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

- 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- 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.
- 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



February 17, 2025

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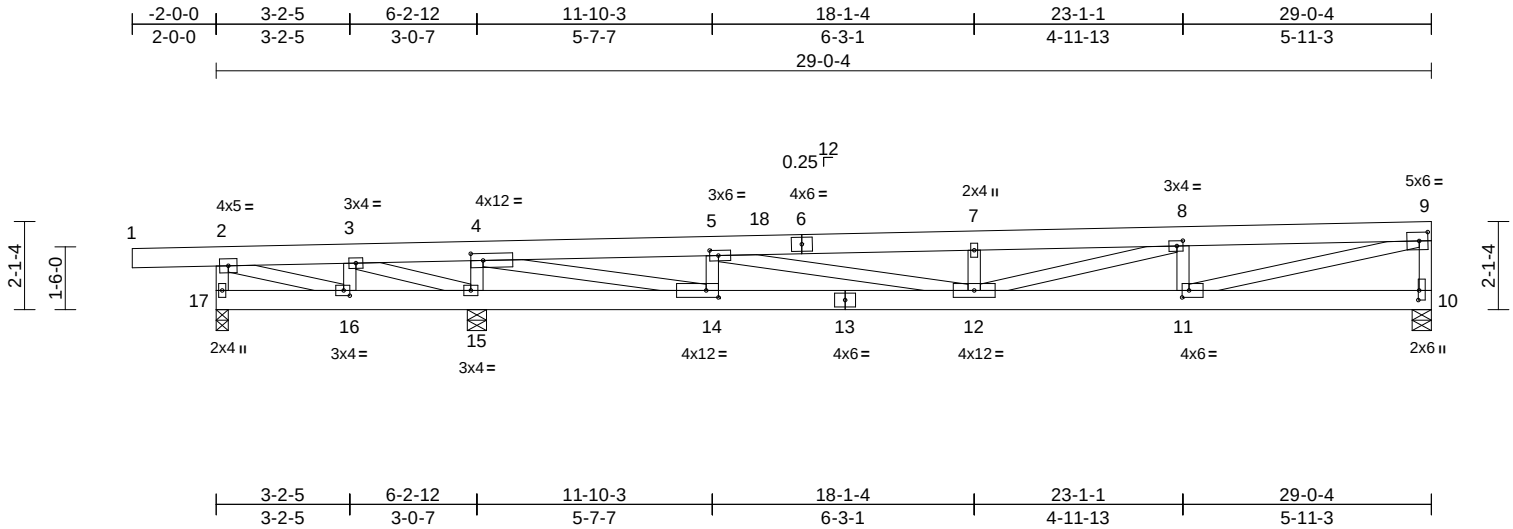
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730523
4448984	M07	Monopitch	6	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:19

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Scale = 1:55

Plate Offsets (X, Y): [4:0-3-8,0-2-0], [5:0-2-8,0-1-8], [8:0-1-12,0-1-8], [9:0-2-8,0-2-8], [10:0-2-12,0-0-4], [11:0-2-0,0-2-0], [14:0-3-8,0-2-0], [16:0-1-12,0-1-8]

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	0.68	Vert(LL)	-0.22	12-14	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.43	12-14	>628	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 167 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 3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-0 oc bracing.

REACTIONS

(size) 10=0-5-8, 15=0-5-8, 17=0-3-8
Max Horiz 17=42 (LC 9)
Max Uplift 10=59 (LC 8), 15=115 (LC 12), 17=62 (LC 3)
Max Grav 10=998 (LC 1), 15=2041 (LC 1), 17=231 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-17=-213/118, 1-2=0/6, 2-3=-210/1057, 3-4=-344/1773, 4-5=-1879/351, 5-7=-3479/646, 7-8=-3479/651, 8-9=-2683/512, 9-10=-906/206
BOT CHORD 16-17=-102/46, 15-16=-1055/221, 14-15=-1767/338, 12-14=-362/1872, 11-12=-507/2678, 10-11=-39/138
WEBS 4-15=-1442/333, 3-16=-12/248, 2-16=-1030/214, 3-15=-757/143, 5-14=-753/235, 4-14=-674/3717, 7-12=-448/166, 5-12=-297/1636, 8-11=-651/213, 8-12=-153/833, 9-11=-486/2640

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 13-10-8, Corner (3) 13-10-8 to 28-10-8 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 62 lb uplift at joint 17, 59 lb uplift at joint 10 and 115 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



February 17, 2025

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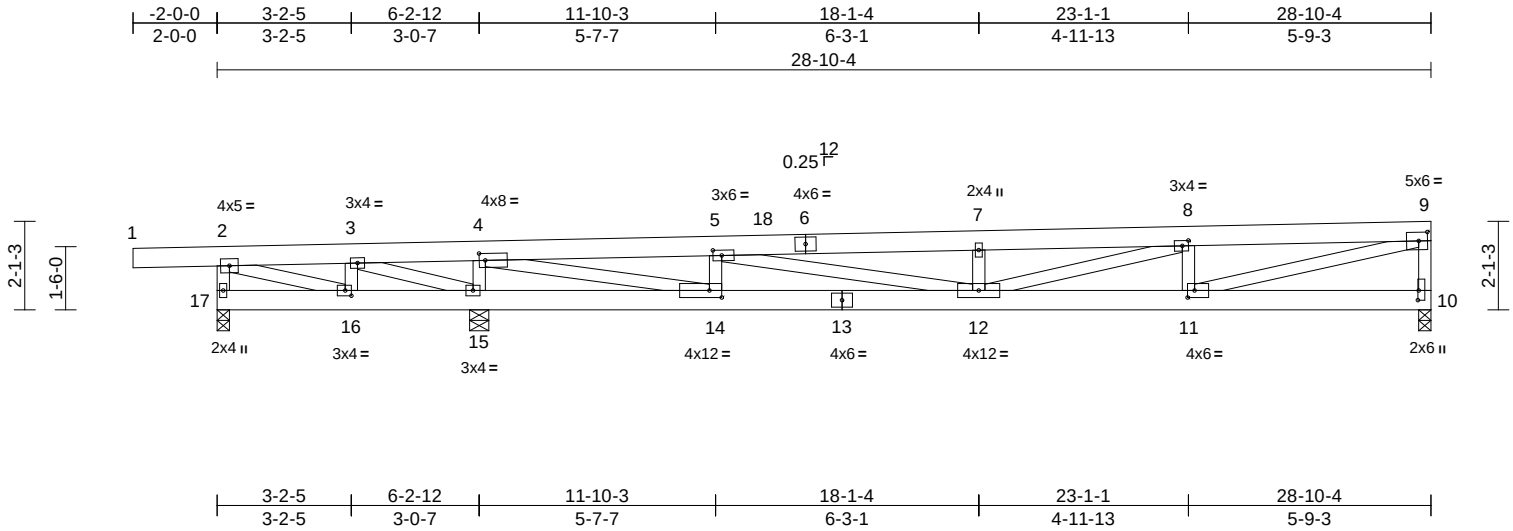
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730524
4448984	M08	Monopitch	4	1	Job Reference (optional)	

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

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Scale = 1:54.8

Plate Offsets (X, Y): [4:0-1-12,0-2-0], [5:0-2-8,0-1-8], [8:0-1-12,0-1-8], [9:0-2-8,0-2-8], [10:0-2-12,0-0-4], [11:0-2-0,0-2-0], [14:0-3-8,0-2-0], [16:0-1-12,0-1-8]

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	0.67	Vert(LL)	-0.21	12-14	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.42	12-14	>640	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 166 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 3-8-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-1 oc bracing.

REACTIONS

(size) 10=0-3-8, 15=0-5-8, 17=0-3-8
Max Horiz 17=41 (LC 11)
Max Uplift 10=58 (LC 8), 15=114 (LC 12), 17=57 (LC 8)
Max Grav 10=992 (LC 1), 15=2019 (LC 1), 17=237 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-17=-218/112, 1-2=0/6, 2-3=-206/1027, 3-4=-336/1723, 4-5=-1888/355, 5-7=-3443/644, 7-8=-3443/648, 8-9=-2616/503, 9-10=-902/205
BOT CHORD 16-17=-101/46, 15-16=-1025/216, 14-15=-1716/331, 12-14=-366/1881, 11-12=-497/2611, 10-11=-38/131
WEBS 4-15=-1430/332, 3-16=-10/240, 2-16=-1000/210, 3-15=-736/140, 5-14=-743/234, 4-14=-671/3675, 7-12=-450/168, 5-12=-291/1590, 8-11=-653/212, 9-11=-478/2583, 8-12=-160/865

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 13-8-8, Corner (3) 13-8-8 to 28-8-8 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 57 lb uplift at joint 17, 58 lb uplift at joint 10 and 114 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



February 17, 2025

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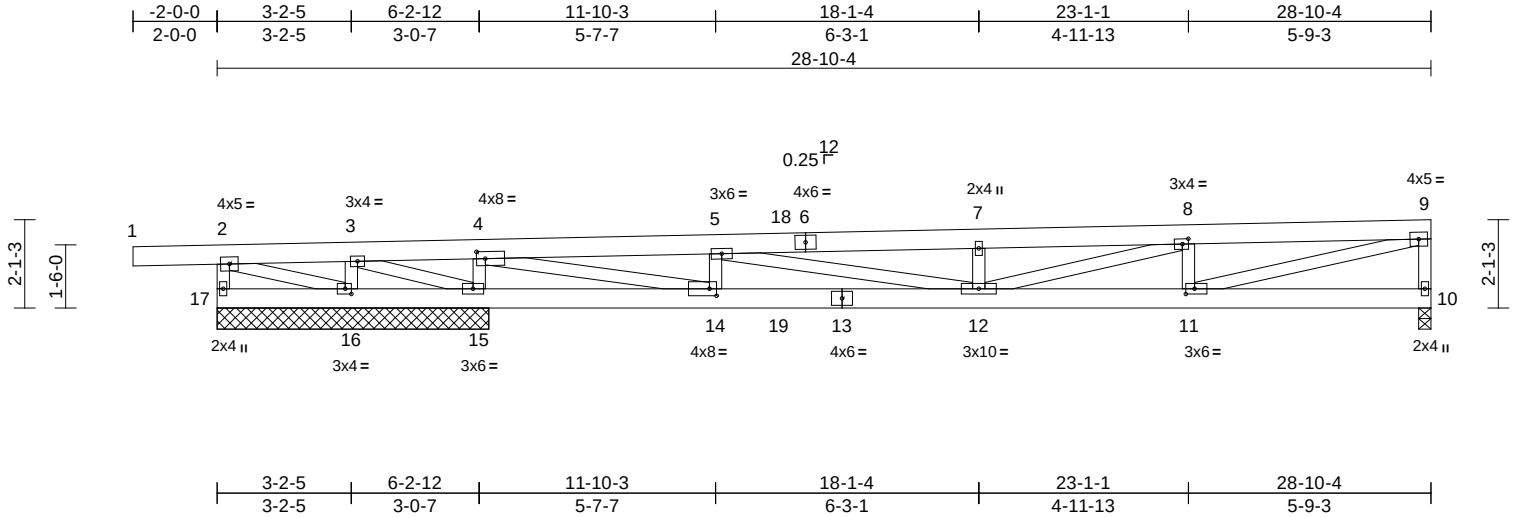
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730525
4448984	M09	Monopitch Girder	2	2	Job Reference (optional)	

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

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Page: 1



Scale = 1:54.8

Plate Offsets (X, Y): [4:0-2-8,0-2-0], [8:0-1-12,0-1-8], [11:0-2-8,0-1-8], [14:0-2-0,0-2-0], [16:0-1-12,0-1-8]

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	0.91	Vert(LL)	-0.16	12-14	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.33	12-14	>815	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 332 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 6-0-0 oc bracing.

REACTIONS

(size) 10=0-3-8, 15=6-5-8, 16=6-5-8, 17=6-5-8
Max Horiz 17=137 (LC 32)
Max Uplift 10=-125 (LC 34), 15=-443 (LC 26), 16=-291 (LC 24), 17=-331 (LC 25)
Max Grav 10=1170 (LC 1), 15=5137 (LC 1), 16=124 (LC 25), 17=576 (LC 24)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-17=-479/330, 1-2=0/6, 2-3=-738/1411, 3-4=-1121/3269, 4-5=-4085/1246, 5-7=-4824/1156, 7-8=-4816/725, 8-9=-3237/458, 9-10=-1072/149
BOT CHORD 16-17=-993/1004, 15-16=-1942/1426, 14-15=-3270/1111, 12-14=-901/3792, 11-12=-377/3232, 10-11=-7/151
WEBS 3-16=-169/378, 2-16=-1482/709, 4-15=-3762/393, 3-15=-2150/637, 5-14=-1574/224, 4-14=-803/6915, 7-12=-480/109, 5-12=-304/1096, 8-11=-856/192, 8-12=-365/1650, 9-11=-388/3209

NOTES

- 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.
- 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.
- 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
- 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.
- This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 331 lb uplift at joint 17, 125 lb uplift at joint 10, 291 lb uplift at joint 16 and 443 lb uplift at joint 15.

- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a total drag load of 2000 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 309.7 plf.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 44 lb up at 13-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S)

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-80, 2-18=-338, 9-18=-80, 10-17=-20
Concentrated Loads (lb)
Vert: 19=-36 (B)



February 17, 2025

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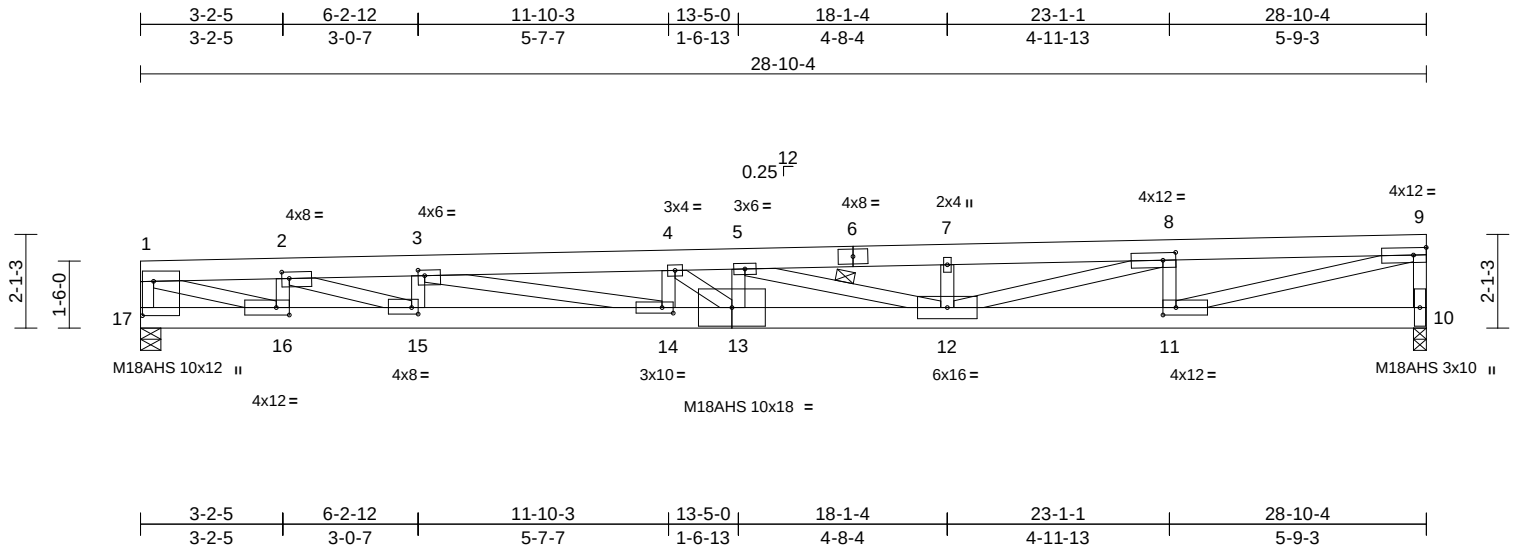
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730526
4448984	M10	Monopitch Girder	10	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:51.7

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [3:0-1-12,0-1-8], [8:0-3-7,0-2-1], [9:0-3-7,0-2-0], [11:0-3-8,0-2-0], [14:0-3-0,0-1-8], [15:0-1-12,0-1-12], [16:0-3-8,0-2-0], [17:0-9-4,0-3-0]

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	0.73	Vert(LL)	-0.71	12-13	>483	240	MT20	220/195
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.95	Vert(CT)	-1.45	12-13	>236	180	M18AHS	145/140
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.12	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 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 11-9:2x4 DF 1800F 1.6E

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-11-13 oc bracing: 13-14
8-8-2 oc bracing: 12-13.
WEBS 1 Row at midpt 5-12

REACTIONS

(size) 10=0-3-8, 17=0-5-8
Max Horiz 17=41 (LC 7)
Max Uplift 10=180 (LC 8), 17=195 (LC 4)
Max Grav 10=1889 (LC 1), 17=1959 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-1794/198, 1-2=-4583/468, 2-3=-8605/925, 3-4=-11720/1352, 4-5=-12292/1461, 5-7=-9895/1090, 7-8=-9896/1093, 8-9=-5843/601, 9-10=-1777/203
BOT CHORD 16-17=-33/347, 15-16=-461/4577, 14-15=-917/8603, 12-14=-1448/12288, 11-12=-581/5839, 10-11=-8/199
WEBS 2-16=-1581/203, 1-16=-462/4472, 3-15=-1237/205, 2-15=-485/4285, 4-14=-690/150, 3-14=-434/3176, 7-12=-424/94, 8-11=-1578/243, 8-12=-518/4237, 9-11=-597/5876, 5-13=-313/221, 4-13=-139/793, 5-12=-2491/387

NOTES

- 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
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 17 and 180 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 828 lb down and 49 lb up at 13-5-0 on top chord, and 246 lb down and 115 lb up at 13-4-4, and 81 lb down and 44 lb up at 13-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-9=-80, 10-17=-20
Concentrated Loads (lb)

Vert: 13=-164 (F=-127, B=-36), 5=-828



February 17, 2025

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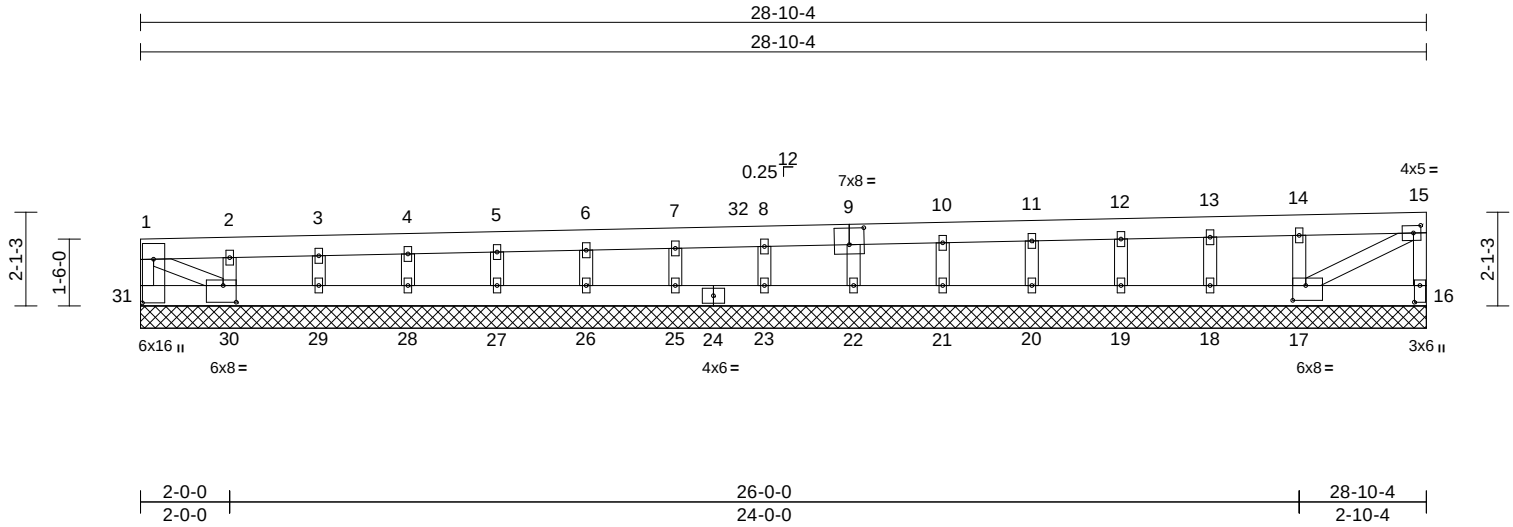
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730527
4448984	M11	Monopitch Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:20

Page: 1

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Scale = 1:51.7

Plate Offsets (X, Y): [9:0-4-0,0-4-8], [15:0-2-0,0-2-0], [16:0-4-8,0-1-8], [17:0-3-8,0-4-0], [30:0-3-8,0-4-8], [31:0-11-12,0-3-0]

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	0.34	Vert(LL)	n/a	-	n/a	999	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999	
TCDL	15.0	Rep Stress Incr	NO	WB	0.43	Horiz(TL)	-0.01	22	n/a	n/a	
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 143 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 5-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-14 oc bracing.

REACTIONS (size) 16=28-10-4, 17=28-10-4, 18=28-10-4, 19=28-10-4, 20=28-10-4, 21=28-10-4, 22=28-10-4, 23=28-10-4, 25=28-10-4, 26=28-10-4, 27=28-10-4, 28=28-10-4, 29=28-10-4, 30=28-10-4, 31=28-10-4
Max Horiz 31=41 (LC 35)
Max Uplift 16=1175 (LC 41), 17=1229 (LC 32), 18=19 (LC 41), 19=17 (LC 32), 20=32 (LC 41), 21=65 (LC 32), 22=83 (LC 41), 23=107 (LC 32), 25=49 (LC 41), 26=12 (LC 40), 27=12 (LC 32), 28=14 (LC 41), 29=22 (LC 32), 30=1242 (LC 41), 31=1275 (LC 32)
Max Grav 16=1223 (LC 52), 17=1353 (LC 53), 18=180 (LC 1), 19=204 (LC 1), 20=197 (LC 1), 21=225 (LC 27), 22=171 (LC 26), 23=863 (LC 1), 25=474 (LC 1), 26=140 (LC 1), 27=211 (LC 1), 28=198 (LC 1), 29=199 (LC 1), 30=1338 (LC 52), 31=1311 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-31=-1265/1239, 1-2=-2187/2161, 2-3=-1915/1891, 3-4=-1622/1600, 4-5=-1329/1310, 5-6=-1036/1020, 6-7=-744/730, 7-8=-453/440, 8-10=-450/440, 10-11=-739/731, 11-12=-1029/1024, 12-13=-1321/1316, 13-14=-1612/1608, 14-15=-2007/2004, 15-16=-1188/1186
BOT CHORD 30-31=-216/161, 29-30=-1915/1879, 28-29=-1622/1608, 27-28=-1333/1316, 26-27=-1042/1025, 25-26=-751/734, 23-25=-460/443, 22-23=-173/156, 21-22=-459/444, 20-21=-750/735, 19-20=-1041/1027, 18-19=-1308/1318, 17-18=-1623/1580, 16-17=-360/357
WEBS 2-30=-167/90, 3-29=-160/65, 4-28=-158/62, 5-27=-171/64, 6-26=-100/54, 7-25=-434/133, 8-23=-823/240, 9-22=-131/124, 10-21=-185/116, 11-20=-157/80, 12-19=-163/65, 13-18=-145/58, 14-17=-216/93, 1-30=-2349/2389, 15-17=-2283/2273

NOTES

- 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Provide adequate drainage to prevent water ponding.

- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1275 lb uplift at joint 31, 1175 lb uplift at joint 16, 1242 lb uplift at joint 30, 22 lb uplift at joint 29, 14 lb uplift at joint 28, 12 lb uplift at joint 27, 12 lb uplift at joint 26, 49 lb uplift at joint 25, 107 lb uplift at joint 23, 83 lb uplift at joint 22, 65 lb uplift at joint 21, 32 lb uplift at joint 20, 17 lb uplift at joint 19, 19 lb uplift at joint 18 and 1229 lb uplift at joint 17.



February 17, 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.

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H
4448984	M11	Monopitch Supported Gable	1	1	R86730527
Job Reference (optional)					

- 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 4200 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 28-10-4 for 145.6 plf.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 828 lb down and 153 lb up at 13-5-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-15=-80, 16-31=-20
- Concentrated Loads (lb)
- Vert: 32=-828

 **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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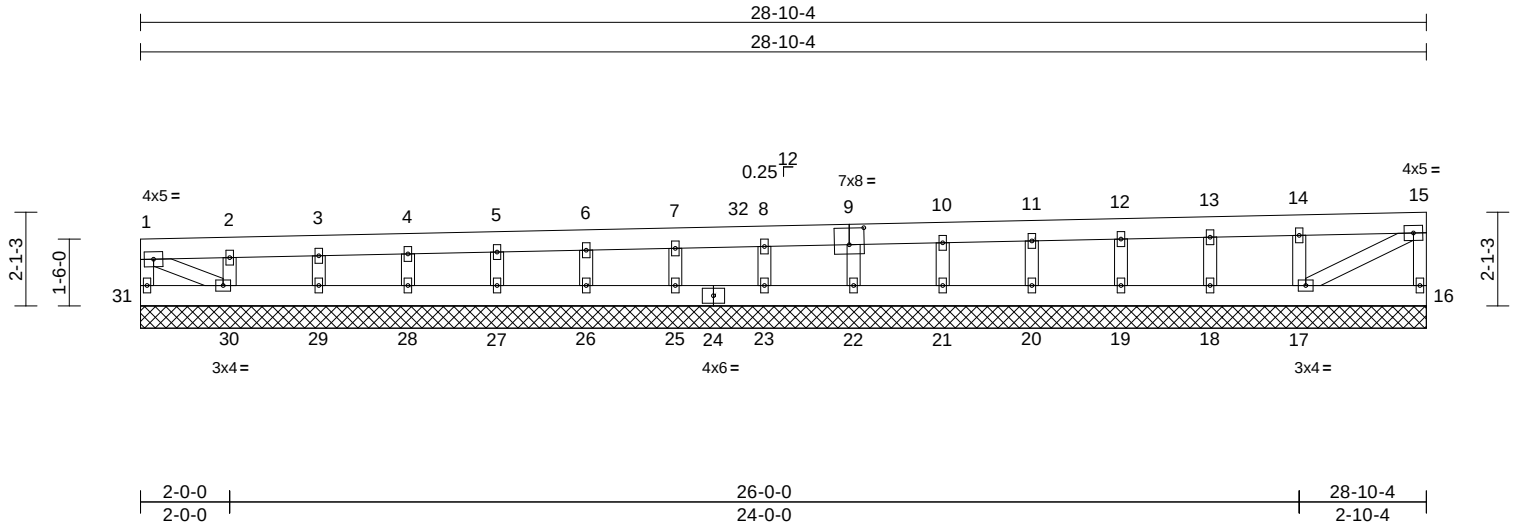
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730528
4448984	M11A	Monopitch Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:20

Page: 1

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Scale = 1:51.7

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

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	0.22	Vert(LL)	n/a	-	n/a	999	MT20
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999	185/148
TCDL	15.0	Rep Stress Incr	NO	WB	0.09	Horiz(TL)	0.00	16	n/a	n/a	
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 143 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=28-10-4, 17=28-10-4, 18=28-10-4, 19=28-10-4, 20=28-10-4, 21=28-10-4, 22=28-10-4, 23=28-10-4, 25=28-10-4, 26=28-10-4, 27=28-10-4, 28=28-10-4, 29=28-10-4, 30=28-10-4, 31=28-10-4
Max Horiz	31=41 (LC 11)
Max Uplift	16=-7 (LC 12), 17=-15 (LC 8), 18=-11 (LC 12), 19=-12 (LC 8), 20=-12 (LC 12), 21=-13 (LC 8), 22=-8 (LC 12), 23=-50 (LC 8), 25=-28 (LC 12), 26=-8 (LC 12), 27=-12 (LC 8), 28=-12 (LC 12), 29=-12 (LC 8), 30=-10 (LC 12), 31=-7 (LC 8)
Max Grav	16=109 (LC 1), 17=278 (LC 1), 18=180 (LC 1), 19=204 (LC 1), 20=197 (LC 1), 21=213 (LC 1), 22=131 (LC 1), 23=863 (LC 1), 25=474 (LC 1), 26=140 (LC 1), 27=211 (LC 1), 28=198 (LC 1), 29=199 (LC 1), 30=212 (LC 1), 31=74 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
--------	--

TOP CHORD	1-31=-59/31, 1-2=-26/21, 2-3=-24/21, 3-4=-23/20, 4-5=-21/20, 5-6=-19/19, 6-7=-18/20, 7-8=-19/29, 8-10=-17/20, 10-11=-15/19, 11-12=-15/20, 12-13=-15/22, 13-14=-15/23, 14-15=-16/26, 15-16=-86/38, 30-31=-66/60, 29-30=-25/26, 28-29=-25/26, 27-28=-25/26, 26-27=-25/26, 25-26=-25/26, 23-25=-25/26, 22-23=-25/26, 21-22=-25/28, 20-21=-25/28, 19-20=-25/28, 18-19=-25/28, 17-18=-25/28, 16-17=-16/25
BOT CHORD	2-30=-167/64, 3-29=-160/61, 4-28=-158/61, 5-27=-171/63, 6-26=-100/50, 7-25=-434/112, 8-23=-823/182, 9-22=-91/49, 10-21=-173/65, 11-20=-157/60, 12-19=-163/62, 13-18=-145/56, 14-17=-216/84, 1-30=-39/47, 15-17=-15/3
WEBS	

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 7 lb uplift at joint 31, 7 lb uplift at joint 16, 10 lb uplift at joint 30, 12 lb uplift at joint 29, 12 lb uplift at joint 28, 12 lb uplift at joint 27, 8 lb uplift at joint 26, 28 lb uplift at joint 25, 50 lb uplift at joint 23, 8 lb uplift at joint 22, 13 lb uplift at joint 21, 12 lb uplift at joint 20, 12 lb uplift at joint 19, 11 lb uplift at joint 18 and 15 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.



February 17, 2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730528
4448984	M11A	Monopitch Supported Gable	1	1	Job Reference (optional)	

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 828 lb down and 153 lb up at 13-5-4 on top 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: 1-15=-80, 16-31=-20

Concentrated Loads (lb)

Vert: 32=-828 (F)

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

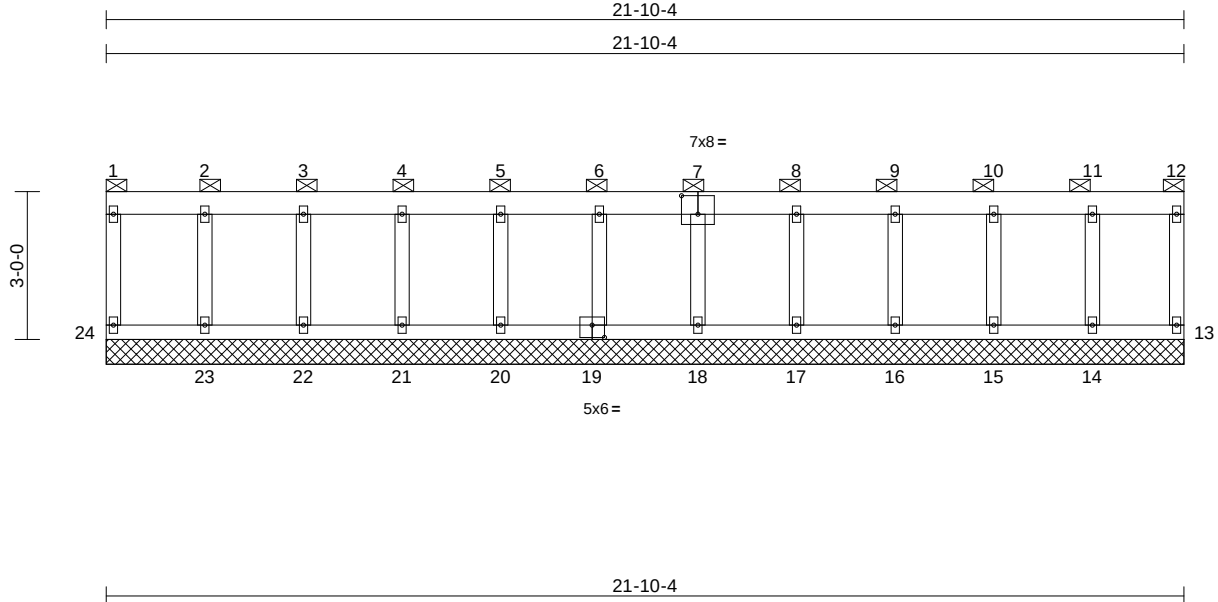
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730529
4448984	N01	Monopitch Supported Gable	2	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:46.7									
Plate Offsets (X, Y): [7:0-4-0,0-4-8], [19:0-3-0,0-3-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	13	n/a
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R					
BCDL	10.0								
									PLATES
									MT20
									GRIP
									185/148
									Weight: 103 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 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=65 (LC 8)
Max Uplift 13=34 (LC 9), 14=41 (LC 8), 15=18 (LC 9), 16=12 (LC 8), 17=19 (LC 8), 18=34 (LC 9), 19=41 (LC 8), 20=37 (LC 9), 21=17 (LC 8), 22=17 (LC 8), 23=45 (LC 9), 24=30 (LC 8)
Max Grav 13=78 (LC 1), 14=189 (LC 1), 15=204 (LC 1), 16=200 (LC 1), 17=197 (LC 1), 18=209 (LC 1), 19=191 (LC 1), 20=204 (LC 1), 21=199 (LC 1), 22=199 (LC 1), 23=217 (LC 1), 24=72 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=58/53, 12-13=61/55, 1-2=9/10, 2-3=9/10, 3-4=9/10, 4-5=9/10, 5-6=9/10, 6-8=11/15, 8-9=11/15, 9-10=11/15, 10-11=11/15, 11-12=11/15

BOT CHORD 23-24=68/79, 22-23=68/79, 21-22=68/79, 20-21=68/79, 18-20=68/79, 17-18=60/72, 16-17=60/72, 15-16=60/72, 14-15=60/72, 13-14=60/72
WEBS 2-23=171/103, 3-22=161/74, 4-21=158/86, 5-20=166/120, 6-19=151/133, 7-18=166/120, 8-17=158/86, 9-16=160/73, 10-15=163/76, 11-14=153/95

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TC DL=4.2psf; BC DL=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 30 lb uplift at joint 24, 34 lb uplift at joint 13, 41 lb uplift at joint 19, 45 lb uplift at joint 23, 17 lb uplift at joint 22, 17 lb uplift at joint 21, 37 lb uplift at joint 20, 34 lb uplift at joint 18, 19 lb uplift at joint 17, 12 lb uplift at joint 16, 18 lb uplift at joint 15 and 41 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



February 17, 2025

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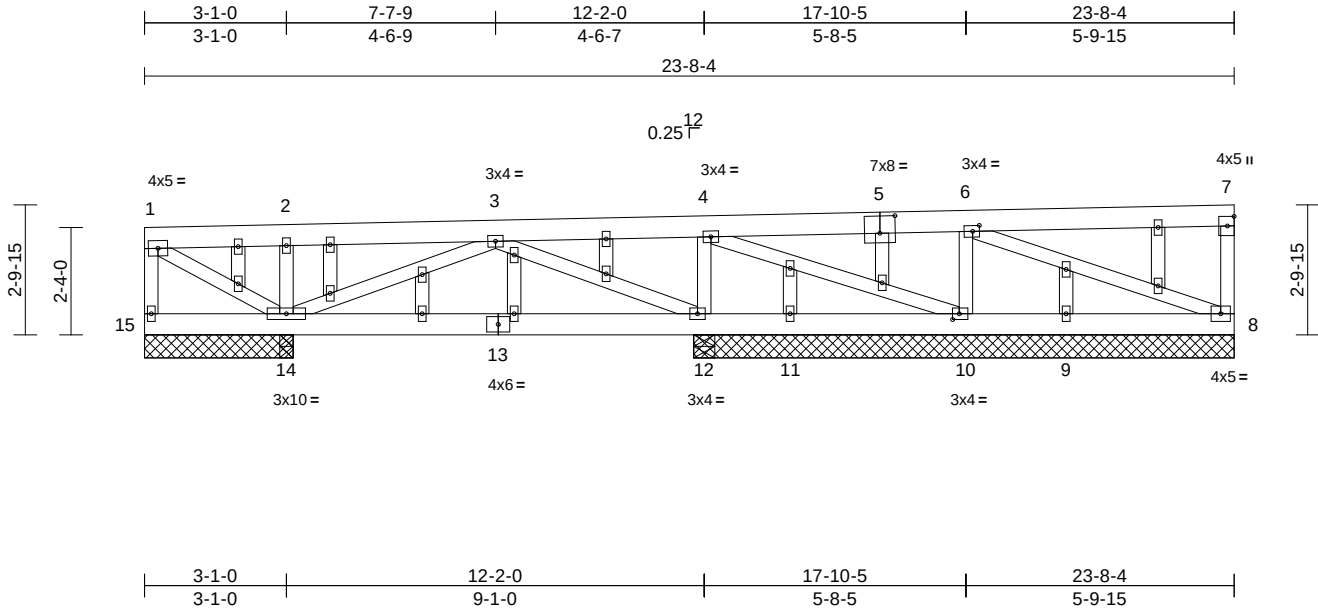
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730530
4448984	N02	Monopitch Structural Gable	2	2	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:21
ID:eMa4ybJwHR2zBaY9aOgqj7ZlphN-RfC?PsB70Hq3NSgPqnl8w3uITxbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:50.1

Plate Offsets (X, Y): [5:0-4-0,0-4-8], [6:0-1-12,0-1-8], [7:Edge,0-3-8], [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	0.89	Vert(LL)	-0.01	12-14	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.03	12-14	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 287 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: 12-14.

REACTIONS

(size)	8=11-9-0, 9=11-9-0, 10=11-9-0, 11=11-9-0, 12=11-9-0, 14=3-2-12, 15=3-2-12
Max Horiz	15=59 (LC 11)
Max Uplift	8=-89 (LC 12), 10=-256 (LC 12), 11=-37 (LC 3), 12=-246 (LC 12), 14=-240 (LC 12), 15=-28 (LC 8)
Max Grav	8=1355 (LC 1), 9=97 (LC 3), 10=3760 (LC 1), 11=-11 (LC 8), 12=4556 (LC 1), 14=4347 (LC 1), 15=175 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-15=-187/57, 1-2=-129/503, 2-3=-125/504, 3-4=-124/385, 4-6=-40/72, 6-7=-180/70, 7-8=-1371/345
BOT CHORD	14-15=-90/74, 12-14=-616/2299, 11-12=-354/113, 10-11=-354/113, 9-10=-44/36, 8-9=-44/36
WEBS	2-14=-2635/662, 1-14=-572/182, 4-12=-3187/800, 3-12=-2907/747, 3-14=-3042/773, 6-10=-3800/954, 4-10=-86/346, 6-8=-43/181

NOTES

- 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.
- 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.
- 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 15, 89 lb uplift at joint 8, 240 lb uplift at joint 14, 246 lb uplift at joint 12, 256 lb uplift at joint 10 and 37 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Studding applied to ply: 1(Front)

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-7=-587, 8-15=-20



February 17, 2025

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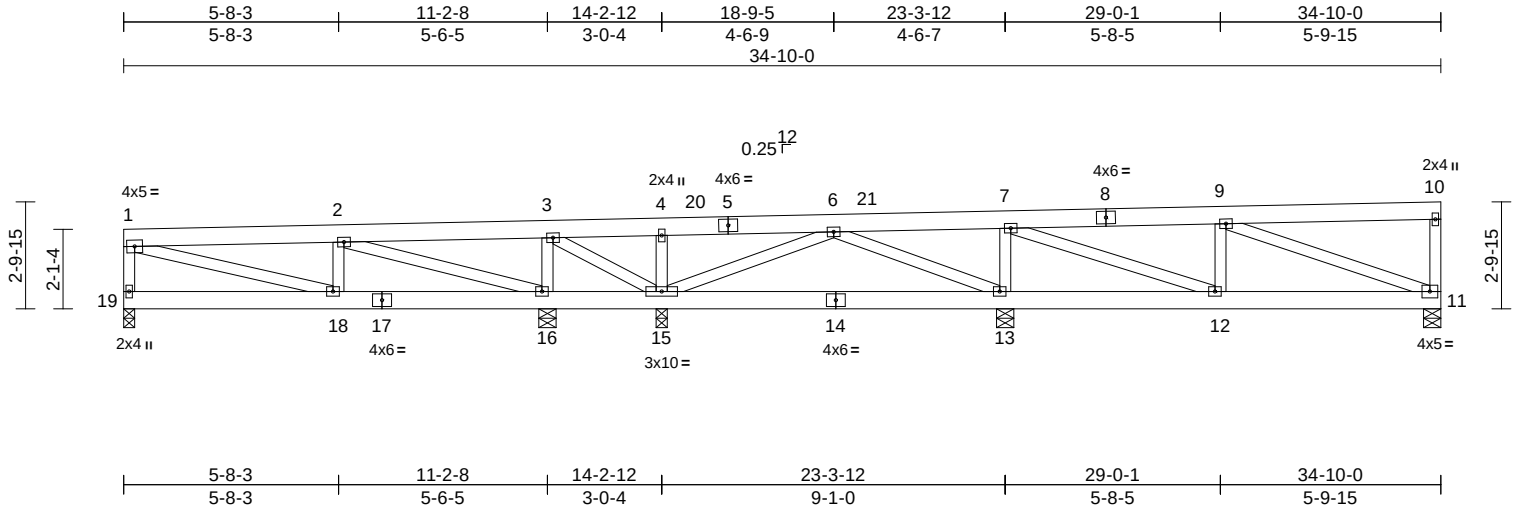
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730531
4448984	N03	Monopitch	4	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:21
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Page: 1



Scale = 1:60.9

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	0.21	-0.03	13-15	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.20	-0.06	13-15	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.01	11	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH							
BCDL	10.0										
										Weight: 201 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 6-0-0 oc bracing.

REACTIONS (size) 11=0-5-8, 13=0-5-8, 15=0-3-8, 16=0-5-8, 19=0-3-8
Max Horiz 19=59 (LC 11)
Max Uplift 11=-32 (LC 8), 13=-63 (LC 12), 15=-18 (LC 8), 16=-62 (LC 12), 19=-29 (LC 8)
Max Grav 11=501 (LC 1), 13=1109 (LC 1), 15=536 (LC 1), 16=823 (LC 1), 19=485 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-19=-415/96, 1-2=-730/102, 2-3=-57/244, 3-4=-70/212, 4-6=-67/214, 6-7=-70/185, 7-9=-631/133, 9-10=-53/35, 10-11=-201/66
BOT CHORD 18-19=-97/112, 16-18=-164/725, 15-16=-239/69, 13-15=-106/175, 12-13=-181/62, 11-12=-123/626
WEBS 3-16=-401/110, 4-15=-272/96, 2-16=-1012/169, 2-18=-124/119, 1-18=-107/683, 7-13=-764/200, 6-13=-390/136, 6-15=-422/144, 9-11=-633/109, 9-12=-229/126, 7-12=-151/861, 3-15=0/54

NOTES

- 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 19-8-4, Corner (3) 19-8-4 to 34-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 19, 32 lb uplift at joint 11, 62 lb uplift at joint 16, 18 lb uplift at joint 15 and 63 lb uplift at joint 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



February 17, 2025

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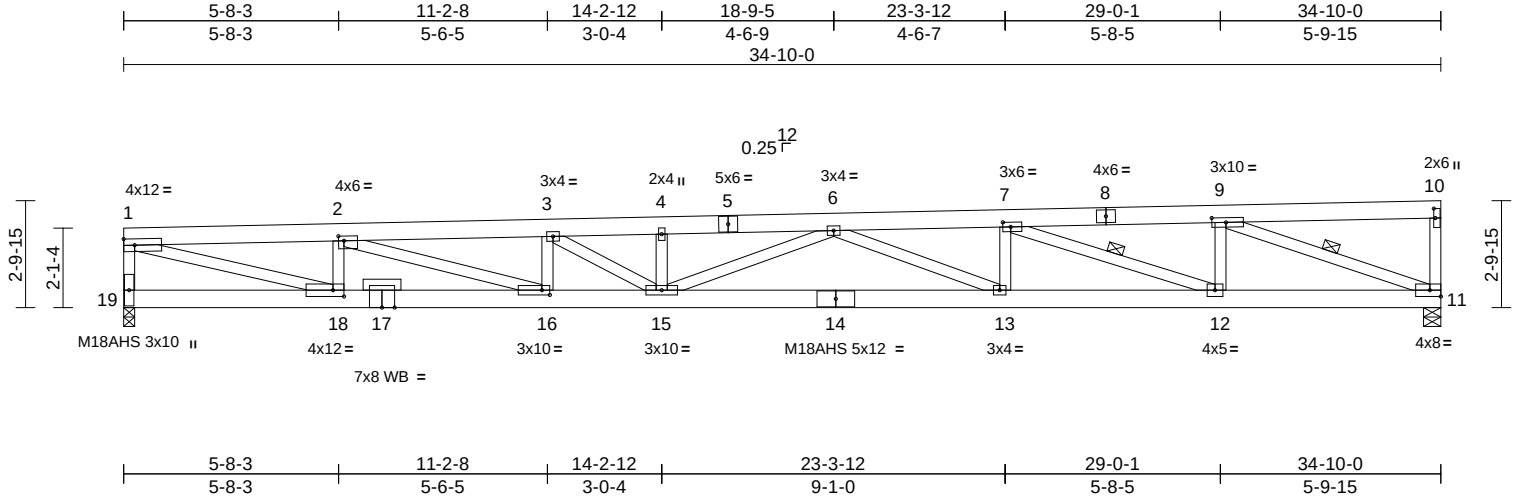
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 4448984	Truss N05	Truss Type Monopitch Girder	Qty 8	Ply 1	MKM EAST TOWN BLDG H Job Reference (optional)	R86730532
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Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:22
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Page: 1



Scale = 1:60.9

Plate Offsets (X, Y): [2:0-1-12,0-1-8], [7:0-2-8,0-1-8], [9:0-4-8,0-1-8], [10:0-3-1,0-1-4], [16:0-2-8,0-1-8], [18:0-3-8,0-2-0]

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	0.85	Vert(LL)	-0.62	13-15	>672	240	M18AHS	145/140
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.65	Vert(CT)	-1.24	13-15	>335	180	MT20	185/148
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.15	11	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 203 lb	FT = 10%

LUMBER

TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 1-18:2x4 DF 1800F 1.6E
OTHERS 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 6-8-9 oc bracing.
WEBS 1 Row at midpt 7-12, 9-11

REACTIONS

(size) 11=0-5-8, 19=0-3-8
Max Horiz 19=59 (LC 7)
Max Uplift 11=-270 (LC 8), 19=-460 (LC 4)
Max Grav 11=1896 (LC 1), 19=2086 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-19=-1984/477, 1-2=-5679/1375, 2-3=-8851/2411, 3-4=-9108/2152, 4-6=-9109/2155, 6-7=-7070/1237, 7-9=-4127/655, 9-10=-89/25, 10-11=-211/45
BOT CHORD 18-19=-64/181, 16-18=-1361/5673, 15-16=-2393/8845, 13-15=-1746/8482, 12-13=-1213/7065, 11-12=-628/4123
WEBS 2-18=-1534/470, 1-18=-1403/5730, 3-16=-620/351, 2-16=-1084/3405, 4-15=-279/79, 3-15=-441/630, 7-13=-144/813, 6-13=-1608/584, 6-15=-425/936, 9-12=-151/1183, 7-12=-3141/625, 9-11=-4349/681

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

- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 460 lb uplift at joint 19 and 270 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 423 lb down and 264 lb up at 11-2-12, and 401 lb down and 264 lb up at 11-2-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-10=-80, 11-19=-20
Concentrated Loads (lb)
Vert: 16=-528 (F=-264, B=-264)



February 17, 2025

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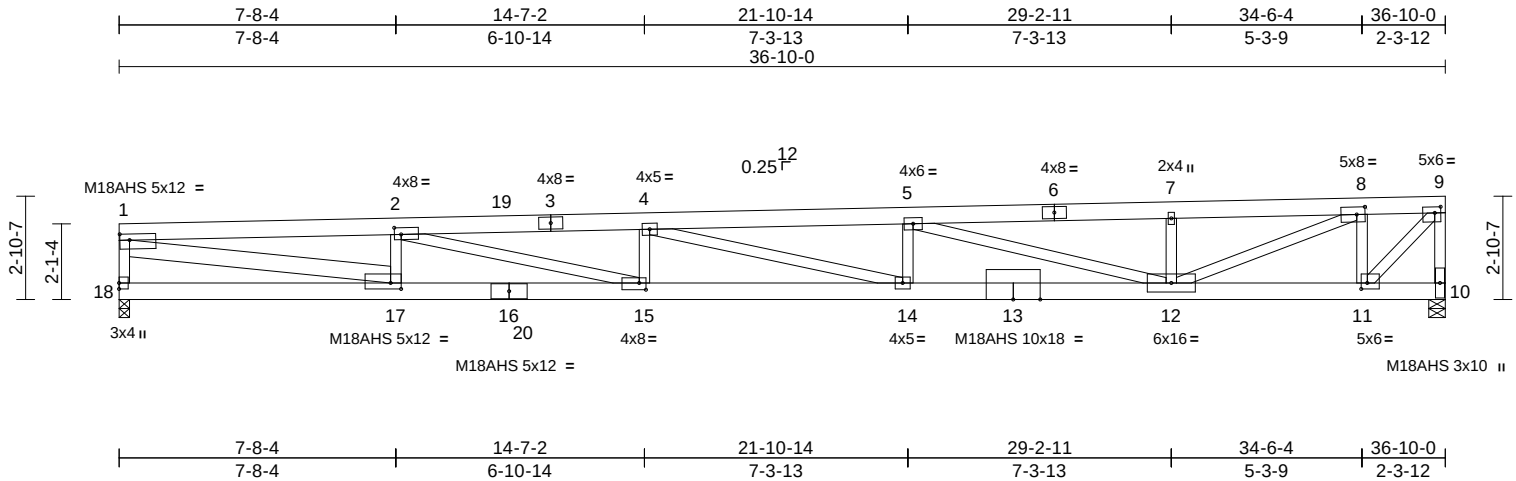
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730533
4448984	N06	Monopitch Girder	2	4	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:22
ID:5Dg4Q4P3uzmm?DqT80id09zIqHE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?i

Page: 1



Scale = 1:64

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

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	0.73	Vert(LL)	-0.72	14-15	>605	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.74	Vert(CT)	-1.45	14-15	>302	180	M18AHS	145/140
TCDL	15.0	Rep Stress Incr	Yes	WB	0.98	Horz(CT)	0.15	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 888 lb	FT = 10%

LUMBER

TOP CHORD 2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 12-8,2-15:2x4 DF 1800F 1.6E, 1-17:2x6 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) 10=0-5-8, 18=0-3-8
Max Horiz 18=289 (LC 31)
Max Uplift 10=-778 (LC 33), 18=-705 (LC 24)
Max Grav 10=10374 (LC 1), 18=6644 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-6475/750, 1-2=-26146/2884, 2-4=-41740/3949, 4-5=-41758/3555, 5-7=-27657/2406, 7-8=-27650/2081, 8-9=-9275/737, 9-10=-10270/789
BOT CHORD 17-18=-254/588, 15-17=-2642/26134, 14-15=-4111/41717, 12-14=-4087/41705, 11-12=-2252/10207, 10-11=-1762/1809
WEBS 8-11=-10039/819, 2-17=-5384/574, 4-15=-3921/485, 5-14=-111/245, 7-12=-3944/324, 8-12=-1605/20097, 9-11=-1054/13560, 1-17=-2917/26282, 2-15=-1519/16135, 4-14=-739/840, 5-12=-14668/1511

NOTES

- 4-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, 2x6 - 2 rows staggered at 0-9-0 oc.
Attach TC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
- 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.
- 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
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 18 HF No.2, Joint 10 DF 2400F 2.0E.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 705 lb uplift at joint 18 and 778 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a total drag load of 2000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 34-4-6 to 36-10-0 for 810.1 plf.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 351 lb down and 274 lb up at 11-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-19=-80, 9-19=-587, 10-18=-20
Concentrated Loads (lb)
Vert: 20=-162 (F)



February 17, 2025

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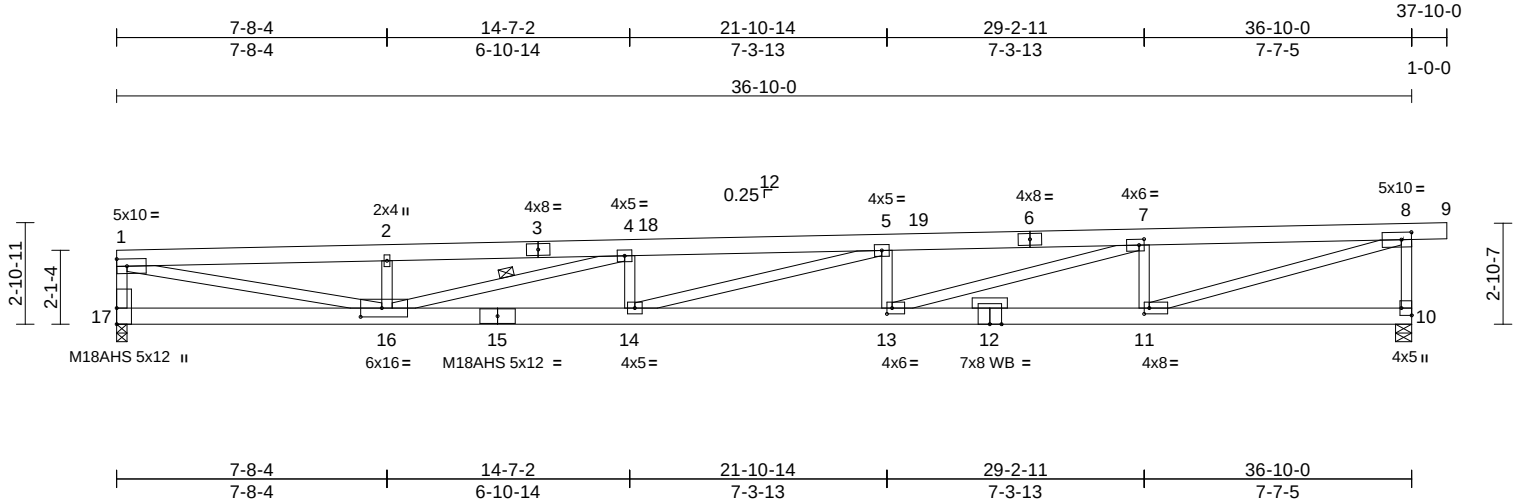
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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730534
4448984	N07	Monopitch	8	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:65.5

Plate Offsets (X, Y): [7:0-1-12,0-2-0], [8:0-3-7,0-2-8], [10:Edge,0-3-8], [11:0-1-12,0-2-0], [13:0-1-12,0-2-0], [16:0-7-4,0-3-0]

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	0.82	Vert(LL)	-0.69	13-14	>636	240	M18AHS	145/140
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.56	Vert(CT)	-1.39	13-14	>316	180	MT20	185/148
TCDL	15.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.11	10	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
WEBS 2x4 HF No.2 *Except* 1-16,11-8:2x4 DF 1800F 1.6E
OTHERS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing.
WEBS 1 Row at midpt 4-16

REACTIONS

(size) 10=0-5-8, 17=0-3-8
Max Horiz 17=61 (LC 9)
Max Uplift 10=-123 (LC 12), 17=-107 (LC 8)
Max Grav 10=1920 (LC 1), 17=1826 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-1696/279, 1-2=-6038/829, 2-4=-6037/834, 4-5=-8194/1124, 5-7=-7682/1062, 7-8=-4927/697, 8-9=-3/0, 8-10=-1826/311
BOT CHORD 16-17=-128/272, 14-16=-1169/8187, 13-14=-1085/7675, 11-13=-699/4919, 10-11=-38/117
WEBS 2-16=-570/197, 1-16=-807/5894, 4-14=0/181, 4-16=-2241/308, 5-13=-711/206, 5-14=-88/533, 7-11=-1409/316, 7-13=-403/2883, 8-11=-695/5046

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 22-10-0, Corner (3) 22-10-0 to 37-10-0 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 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) All plates are MT20 plates unless otherwise indicated.
- 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 107 lb uplift at joint 17 and 123 lb uplift at joint 10.
- 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



February 17,2025

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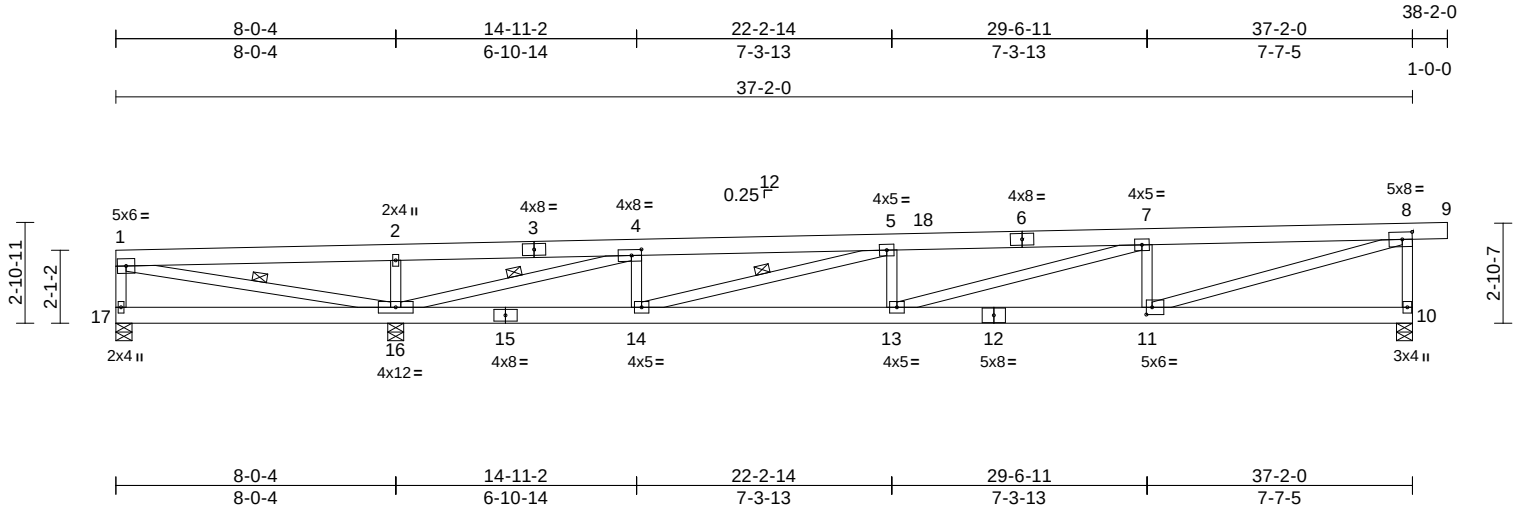
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730535
4448984	N08	Monopitch	6	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:23

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Scale = 1:66

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

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	0.77	Vert(LL)	-0.27	11-13	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.54	11-13	>641	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.06	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 215 lb	FT = 10%

LUMBER

TOP CHORD 2x6 DF No.2
 BOT CHORD 2x6 DF No.2
 WEBS 2x4 HF No.2 *Except* 4-16:2x4 DF 1800F 1.6E

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 4-16, 1-16, 5-14

REACTIONS (size) 10=0-5-8, 16=0-5-8, 17=0-5-8
 Max Horiz 17=61 (LC 9)
 Max Uplift 10=93 (LC 12), 16=-147 (LC 12), 17=-127 (LC 1)
 Max Grav 10=1402 (LC 1), 16=2504 (LC 1), 17=7 (LC 12)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=0/195, 1-2=-233/1692, 2-4=-228/1688, 4-5=-2370/329, 5-7=-4108/570, 7-8=-3214/459, 8-9=-3/0, 8-10=-1312/238

BOT CHORD 16-17=-89/74, 14-16=-362/2363, 13-14=-586/4101, 11-13=-458/3207, 10-11=-35/105

WEBS 2-16=-751/223, 4-16=-4205/568, 1-16=-1724/262, 4-14=0/578, 5-14=-1808/246, 5-13=-125/125, 7-13=-134/936, 7-11=-867/240, 8-11=-445/3259

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 23-2-0, Corner (3) 23-2-0 to 38-2-0 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 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 127 lb uplift at joint 17, 93 lb uplift at joint 10 and 147 lb uplift at joint 16.
- 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



February 17, 2025

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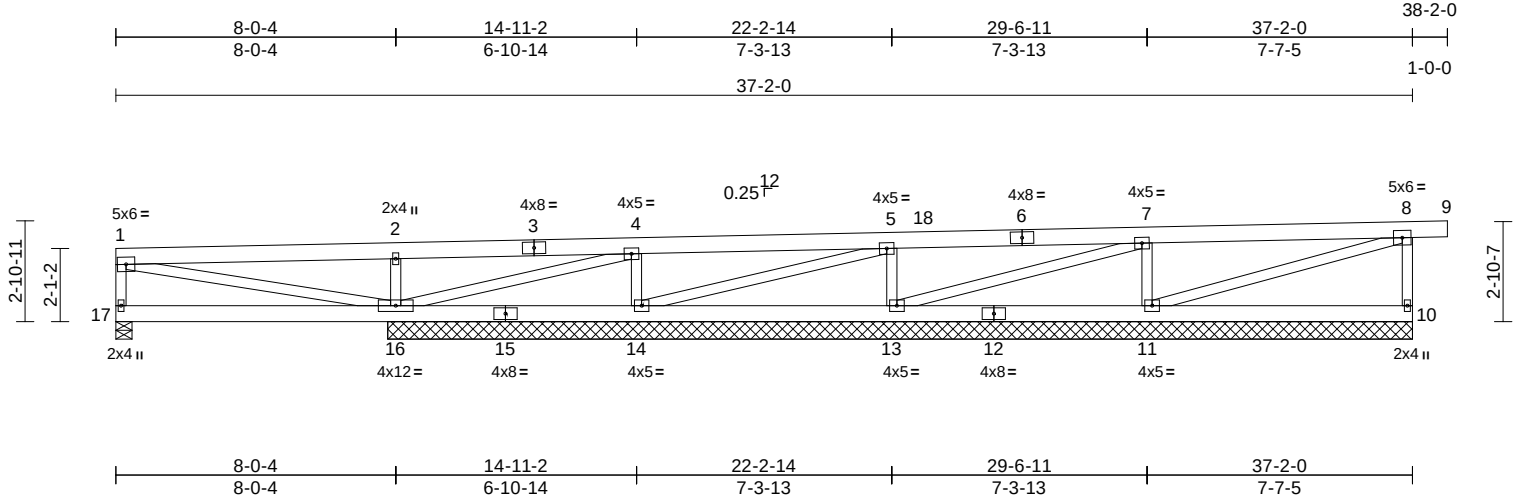
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730536
4448984	N09	Monopitch Supported Gable	2	1	Job Reference (optional)	

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

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Scale = 1:66

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	-0.02	16-17	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.18	-0.05	16-17	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	10	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH							
BCDL	10.0										
										Weight: 214 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) 10=29-4-8, 11=29-4-8, 13=29-4-8,
14=29-4-8, 16=29-4-8, 17=0-5-8
Max Horiz 17=61 (LC 9)
Max Uplift 10=-36 (LC 12), 11=-45 (LC 12),
13=-44 (LC 12), 14=-39 (LC 12),
16=-50 (LC 8), 17=-19 (LC 8)
Max Grav 10=409 (LC 1), 11=801 (LC 1),
13=733 (LC 1), 14=682 (LC 1),
16=826 (LC 1), 17=328 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-257/85, 1-2=-27/0, 2-4=-28/5,
4-5=-26/18, 5-7=-33/26, 7-8=-46/36, 8-9=-3/0,
8-10=-344/107
BOT CHORD 16-17=-102/128, 14-16=-41/42,
13-14=-31/34, 11-13=-29/41, 10-11=-28/53
WEBS 2-16=-654/210, 1-16=-78/38, 4-14=-546/178,
4-16=-25/27, 5-13=-582/186, 5-14=-10/8,
7-11=-634/207, 7-13=-19/5, 8-11=-24/2

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 23-2-0, Corner (3) 23-2-0 to 38-2-0 zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60

- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 17, 36 lb uplift at joint 10, 50 lb uplift at joint 16, 39 lb uplift at joint 14, 44 lb uplift at joint 13 and 45 lb uplift at joint 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



February 17, 2025

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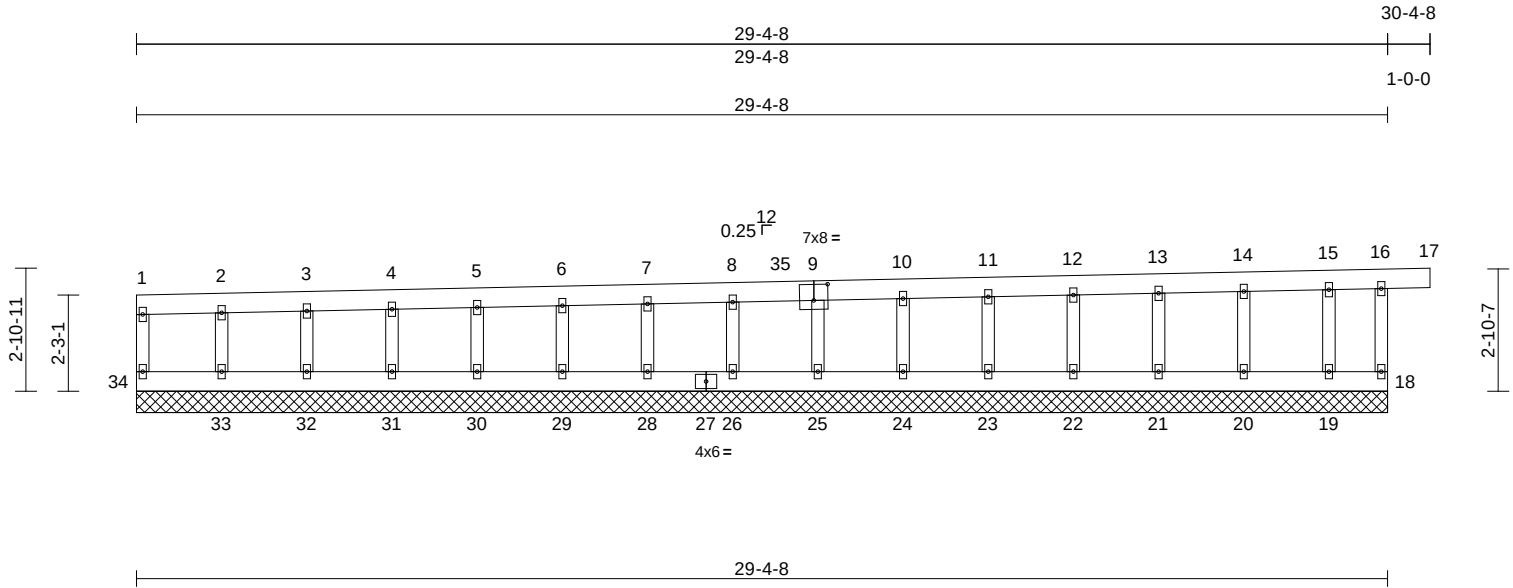
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730537
4448984	N10	Monopitch Supported Gable	2	1	Job Reference (optional)	

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

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Scale = 1:54.1									
Plate Offsets (X, Y): [9:0-4-0,0-4-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	18	n/a
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R					
BCDL	10.0								
Weight: 158 lb FT = 10%									

LUMBER		TOP CHORD		1-34=-63/35, 1-2=-19/16, 2-3=-18/15, 3-4=-18/15, 4-5=-17/14, 5-6=-17/15, 6-7=-17/17, 7-8=-16/19, 8-10=-16/20, 10-11=-14/21, 11-12=-14/22, 12-13=-14/24, 13-14=-14/26, 14-15=-14/27, 15-16=-14/28, 16-17=-3/0, 16-18=-223/75	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 14 lb uplift at joint 34, 47 lb uplift at joint 18, 22 lb uplift at joint 33, 15 lb uplift at joint 32, 11 lb uplift at joint 31, 12 lb uplift at joint 30, 12 lb uplift at joint 29, 11 lb uplift at joint 28, 13 lb uplift at joint 26, 9 lb uplift at joint 25, 15 lb uplift at joint 24, 11 lb uplift at joint 23, 12 lb uplift at joint 22, 12 lb uplift at joint 21, 11 lb uplift at joint 20 and 11 lb uplift at joint 19.
BOT CHORD		BOT CHORD		33-34=-47/52, 32-33=-47/52, 31-32=-47/52, 30-31=-47/52, 29-30=-47/52, 28-29=-47/52, 26-28=-47/52, 25-26=-47/52, 24-25=-46/50, 23-24=-46/50, 22-23=-46/50, 21-22=-46/50, 20-21=-46/50, 19-20=-46/50, 18-19=-46/50	
WEBS		WEBS		2-33=-166/92, 3-32=-160/63, 4-31=-160/61, 5-30=-160/60, 6-29=-160/61, 7-28=-161/65, 8-26=-155/72, 9-25=-159/103, 10-24=-166/69, 11-23=-159/65, 12-22=-160/61, 13-21=-160/61, 14-20=-164/62, 15-19=-102/44	
OTHERS					
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)			
		18=29-4-8, 19=29-4-8, 20=29-4-8, 21=29-4-8, 22=29-4-8, 23=29-4-8, 24=29-4-8, 25=29-4-8, 26=29-4-8, 28=29-4-8, 29=29-4-8, 30=29-4-8, 31=29-4-8, 32=29-4-8, 33=29-4-8, 34=29-4-8			
		34=60 (LC 9)			
Max Horiz		18=-47 (LC 9), 19=-11 (LC 8), 20=-11 (LC 12), 21=-12 (LC 8), 22=-12 (LC 8), 23=-11 (LC 12), 24=-15 (LC 8), 25=-9 (LC 12), 26=-13 (LC 8), 28=-11 (LC 12), 29=-12 (LC 8), 30=-12 (LC 8), 31=-11 (LC 12), 32=-15 (LC 8), 33=-22 (LC 9), 34=-14 (LC 8)			
Max Uplift					
Max Grav		18=230 (LC 18), 19=141 (LC 1), 20=204 (LC 1), 21=200 (LC 1), 22=200 (LC 1), 23=199 (LC 1), 24=206 (LC 1), 25=199 (LC 1), 26=195 (LC 1), 28=201 (LC 1), 29=200 (LC 1), 30=200 (LC 1), 31=200 (LC 1), 32=200 (LC 1), 33=206 (LC 1), 34=85 (LC 21)			
FORCES		(lb) - Maximum Compression/Maximum Tension			



February 17, 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.

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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 BLDG H	R86730537
4448984	N10	Monopitch Supported Gable	2	1	Job Reference (optional)	

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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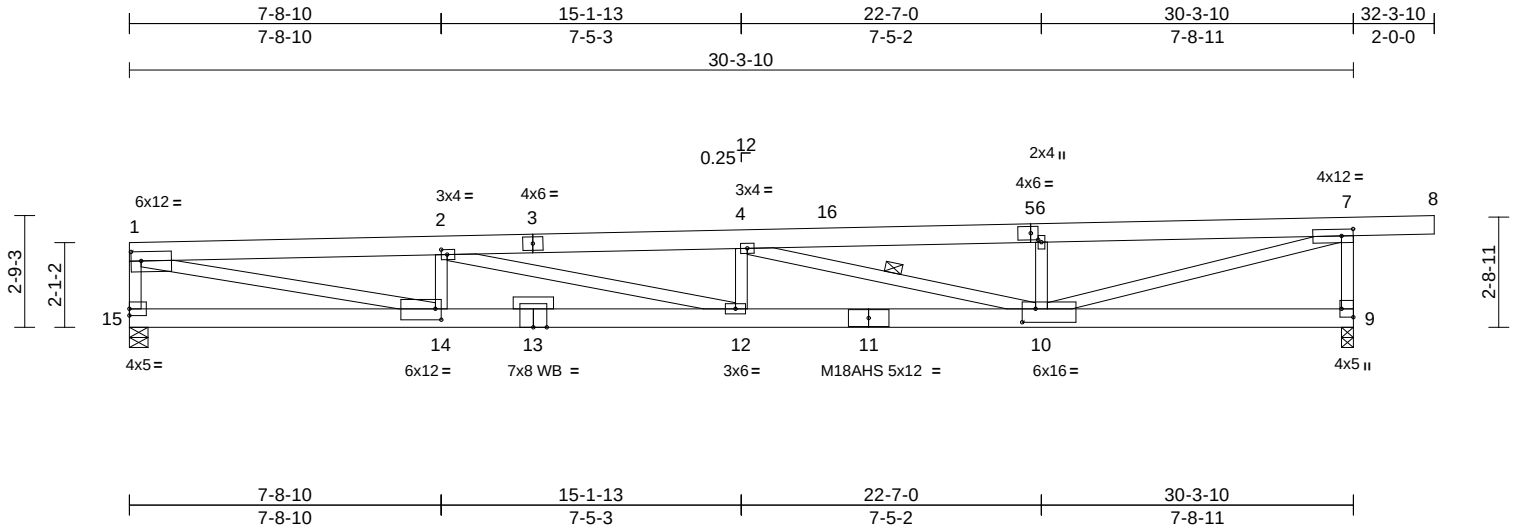
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730538
4448984	N11	Monopitch	10	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:24

Page: 1

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Scale = 1:57

Plate Offsets (X, Y): [1:0-3-0,0-2-12], [2:0-1-12,0-1-8], [5:0-2-3,0-2-0], [7:0-3-7,0-2-0], [9:Edge,0-3-8], [10:0-4-0,0-4-0], [14:0-1-12,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.43	12-14	>832	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.87	12-14	>414	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 178 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 2-7-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

WEBS 1 Row at midpt 4-10

REACTIONS (size) 9=0-3-8, 15=0-5-8
Max Horiz 15=57 (LC 9)
Max Uplift 9=-119 (LC 12), 15=-87 (LC 8)
Max Grav 9=1678 (LC 1), 15=1494 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-1378/289, 1-2=-4750/823,
2-4=-5802/1004, 4-6=-4077/714,
6-7=-4077/720, 7-8=-6/0, 7-9=-1582/353
BOT CHORD 14-15=-129/254, 12-14=-884/4742,
10-12=-1040/5794, 9-10=-38/118
WEBS 1-14=-801/4593, 2-14=-873/282,
2-12=-185/1082, 4-12=-97/123,
4-10=-1782/325, 6-10=-598/231,
7-10=-718/4125

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 17-3-10, Corner (3) 17-3-10 to 32-3-10 zone;
cantilever left and right exposed ; end vertical left and
right exposed;C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60

- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate
DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.;
Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof
live load applied where required.
- 3) 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) All plates are MT20 plates unless otherwise indicated.
- 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 87 lb uplift at joint
15 and 119 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.

LOAD CASE(S) Standard



February 17, 2025

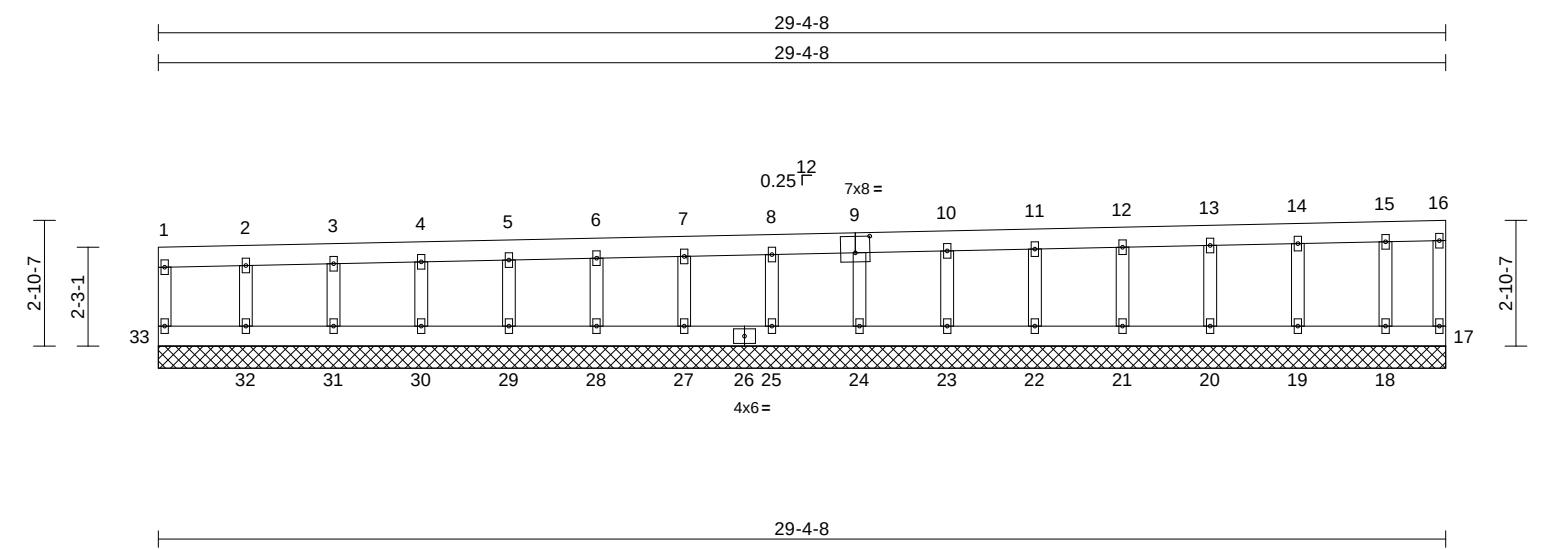
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730539
4448984	N12	Monopitch Supported Gable	2	1	Job Reference (optional)	



Scale = 1:52.6									
Plate Offsets (X, Y): [9:0-4-0,0-4-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a
TCDL	15.0	Rep Stress Incr	NO	WB	0.10	Horiz(TL)	0.00	17	n/a
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R					
BCDL	10.0								
Weight: 156 lb FT = 10%									
PLATES MT20 GRIP 185/148									

LUMBER		TOP CHORD		1-33=-64/35, 1-2=-19/15, 2-3=-19/14, 3-4=-18/14, 4-5=-18/15, 5-6=-18/16, 6-7=-18/18, 7-8=-17/19, 8-10=-17/21, 10-11=-18/23, 11-12=-18/24, 12-13=-19/26, 13-14=-19/28, 14-15=-20/29, 15-16=-19/31, 16-17=-153/53		8) Gable studs spaced at 2-0-0 oc.	
TOP CHORD	2x6 DF No.2	BOT CHORD		32-33=-47/53, 31-32=-47/53, 30-31=-47/53, 29-30=-47/53, 28-29=-47/53, 27-28=-47/53, 25-27=-47/53, 24-25=-47/53, 23-24=-44/50, 22-23=-44/50, 21-22=-44/50, 20-21=-44/50, 19-20=-44/50, 18-19=-44/50, 17-18=-44/50		9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
BOT CHORD	2x6 DF No.2	WEBS		2-32=-164/92, 3-31=-161/63, 4-30=-160/61, 5-29=-160/60, 6-28=-160/61, 7-27=-160/66, 8-25=-158/67, 9-24=-134/79, 10-23=-424/116, 11-22=-698/163, 12-21=-676/154, 13-20=-672/153, 14-19=-703/160, 15-18=-576/133		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.	
WEBS	2x4 HF No.2	OTHERS				11) All bearings are assumed to be HF No.2 .	
OTHERS	2x4 HF No.2	BRACING				12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 33, 19 lb uplift at joint 17, 21 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, 11 lb uplift at joint 27, 13 lb uplift at joint 25, 8 lb uplift at joint 24, 31 lb uplift at joint 23, 43 lb uplift at joint 22, 42 lb uplift at joint 21, 42 lb uplift at joint 20, 43 lb uplift at joint 19 and 44 lb uplift at joint 18.	
TOP CHORD		Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.				13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.	
BOT CHORD		Rigid ceiling directly applied or 10-0-0 oc bracing.				LOAD CASE(S) Standard	
REACTIONS (size)		17=29-4-8, 18=29-4-8, 19=29-4-8, 20=29-4-8, 21=29-4-8, 22=29-4-8, 23=29-4-8, 24=29-4-8, 25=29-4-8, 27=29-4-8, 28=29-4-8, 29=29-4-8, 30=29-4-8, 31=29-4-8, 32=29-4-8, 33=29-4-8		NOTES			
Max Horiz		33=60 (LC 11)		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			
Max Uplift		17=-19 (LC 9), 18=-44 (LC 8), 19=-43 (LC 12), 20=-42 (LC 8), 21=-42 (LC 8), 22=-43 (LC 12), 23=-31 (LC 8), 24=-8 (LC 12), 25=-13 (LC 8), 27=-11 (LC 12), 28=-12 (LC 8), 29=-12 (LC 8), 30=-11 (LC 12), 31=-15 (LC 8), 32=-21 (LC 9), 33=-15 (LC 8)		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.			
Max Grav		17=160 (LC 1), 18=614 (LC 1), 19=744 (LC 1), 20=712 (LC 1), 21=716 (LC 1), 22=738 (LC 1), 23=464 (LC 1), 24=174 (LC 1), 25=198 (LC 1), 27=200 (LC 1), 28=200 (LC 1), 29=200 (LC 1), 30=200 (LC 1), 31=201 (LC 1), 32=203 (LC 1), 33=87 (LC 20)		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.			
FORCES (lb) - Maximum Compression/Maximum Tension				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).			



February 17,2025

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730539
4448984	N12	Monopitch Supported Gable	2	1	Job Reference (optional)	

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-10=-80, 10-16=-338, 17-33=-20

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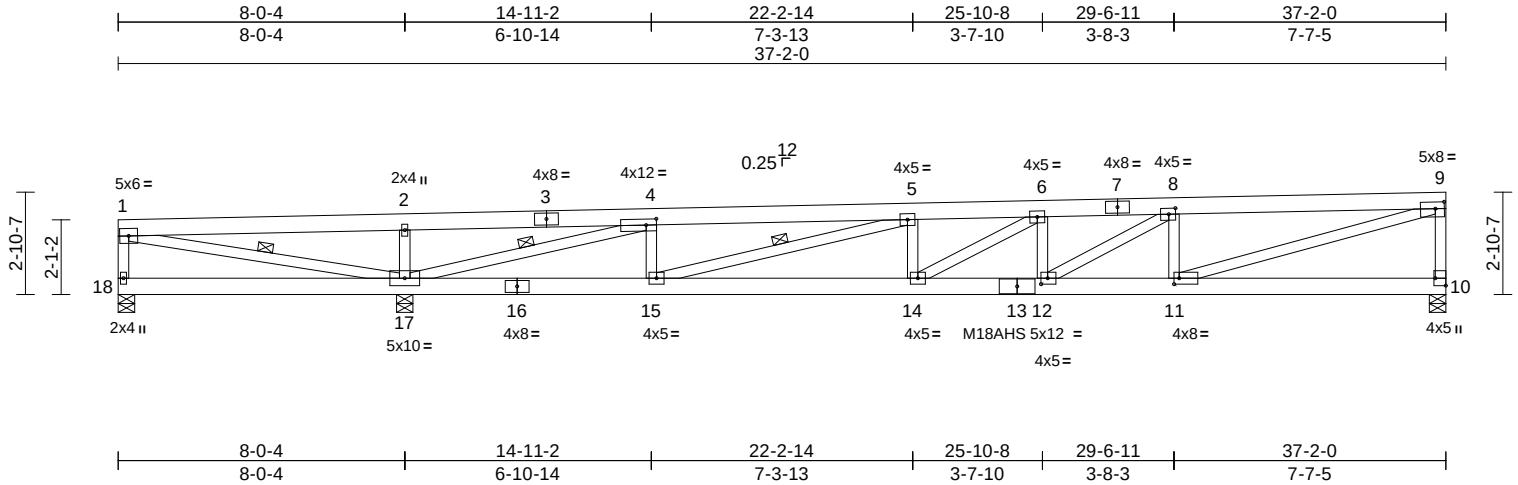
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730540
4448984	N13	Monopitch Girder	2	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:24
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Page: 1



Scale = 1:64.5

Plate Offsets (X, Y): [4:0-3-7,0-2-1], [8:0-2-4,0-2-0], [9:0-3-0,0-2-4], [10:Edge,0-3-8], [11:0-1-12,0-2-0], [12:0-2-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.35	12-14	>993	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.71	12-14	>488	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.08	10	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 *Except* 1-3:2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E *Except* 18-16:2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 11-9,4-17:2x4 DF 1800F 1.6E

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 17-18.
WEBS 1 Row at midpt 1-17, 4-17, 5-15

REACTIONS (size) 10=0-5-8, 17=0-5-8, 18=0-5-8
Max Horiz 18=60 (LC 7)
Max Uplift 10=230 (LC 8), 17=315 (LC 8), 18=281 (LC 15)
Max Grav 10=1823 (LC 1), 17=3031 (LC 1), 18=57 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-11/304, 1-2=-293/2207, 2-4=-288/2202, 4-5=-3143/355, 5-6=-6080/840, 6-8=-6338/992, 8-9=-4821/692, 9-10=-1710/262
BOT CHORD 17-18=-82/34, 15-17=-333/3136, 14-15=-815/6074, 12-14=-965/6336, 11-12=-661/4814, 10-11=-14/120
WEBS 9-11=-697/4932, 2-17=-791/163, 1-17=-2208/281, 4-15=-50/916, 4-17=-5542/663, 6-12=-734/192, 6-14=-538/175, 5-14=-11/395, 5-15=-3056/502, 8-11=-1441/309, 8-12=-356/1811

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 281 lb uplift at joint 18, 230 lb uplift at joint 10 and 315 lb uplift at joint 17.
- 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) 779 lb down and 45 lb up at 25-10-8 on top chord, and 357 lb down and 226 lb up at 25-9-12 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: 1-9=-80, 10-18=-20

Concentrated Loads (lb)
Vert: 12=-127 (F), 6=-770



February 17, 2025

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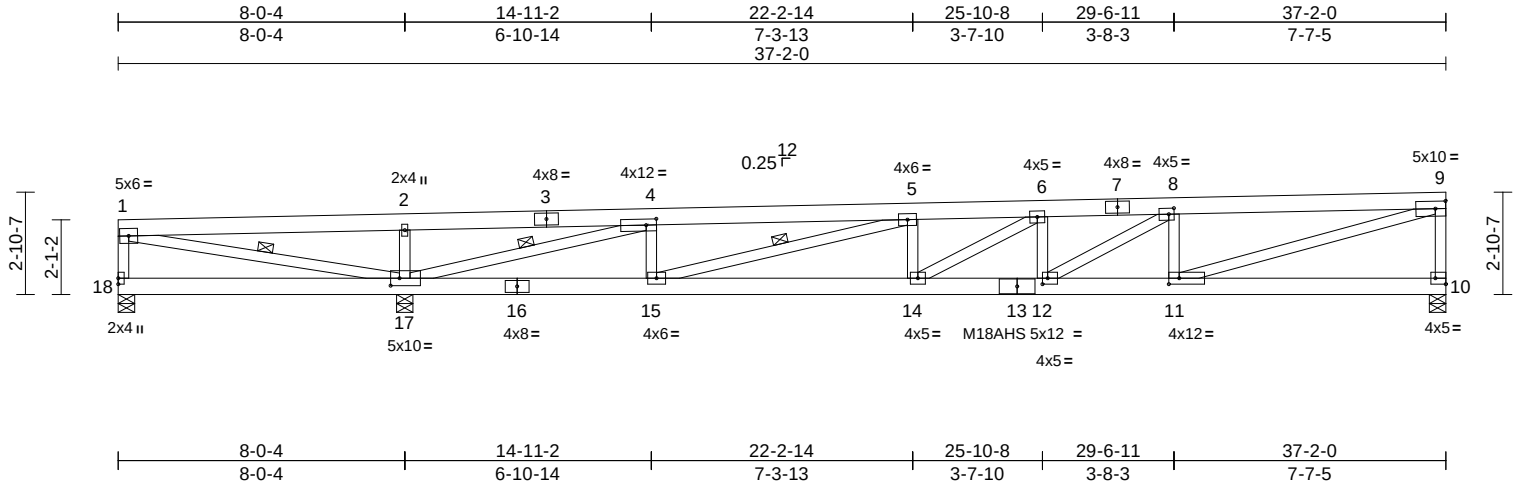
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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730541
4448984	N14	Monopitch Girder	6	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:25
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Page: 1



Scale = 1:64.5

Plate Offsets (X, Y): [4:0-3-7,0-2-1], [8:0-1-12,0-2-0], [9:0-3-7,0-2-8], [10:Edge,0-2-0], [11:0-3-8,0-2-0], [12:0-1-12,0-2-0], [17:0-3-0,0-2-8]

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	0.77	Vert(LL)	-0.36	12-14	>959	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.75	12-14	>465	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.08	10	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 *Except* 1-3:2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E *Except* 18-16:2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 11-9,4-17:2x4 DF 1800F 1.6E

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-17, 4-17, 5-15

REACTIONS

(size) 10=0-5-8, 17=0-5-8, 18=0-5-8
Max Horiz 18=60 (LC 7)
Max Uplift 10=357 (LC 8), 17=456 (LC 8), 18=340 (LC 15)
Max Grav 10=1894 (LC 1), 17=3111 (LC 1), 18=100 (LC 8)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-50/359, 1-2=-455/2298, 2-4=-451/2293, 4-5=-3240/526, 5-6=-6357/1331, 6-8=-6871/1622, 8-9=-5077/1100, 9-10=-1780/387
BOT CHORD 17-18=-95/42, 15-17=-505/3233, 14-15=-1306/6351, 12-14=-1596/6869, 11-12=-1070/5071, 10-11=-19/123
WEBS 9-11=-1120/5205, 2-17=-796/171, 1-17=-2297/438, 4-15=-140/1012, 4-17=-5738/1010, 5-14=-95/526, 5-15=-3374/834, 8-11=-1515/439, 6-12=-724/324, 6-14=-777/338, 8-12=-617/2173

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 340 lb uplift at joint 18, 357 lb uplift at joint 10 and 456 lb uplift at joint 17.
- 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) 779 lb down and 45 lb up at 25-10-8 on top chord, and 357 lb down and 226 lb up at 25-9-12, and 357 lb down and 226 lb up at 25-9-12 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: 1-9=-80, 10-18=-20
Concentrated Loads (lb)
Vert: 12=-255 (F=-127, B=-127), 6=-770



February 17, 2025

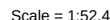
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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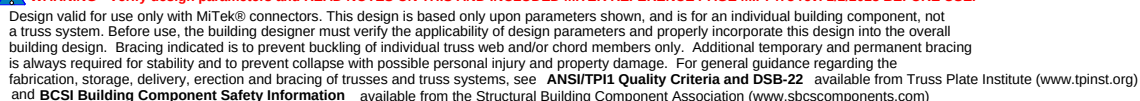
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Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:25 Page: 1
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[illegible]

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-7=-80, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-255 (F=-127, B=-127), 5=-770



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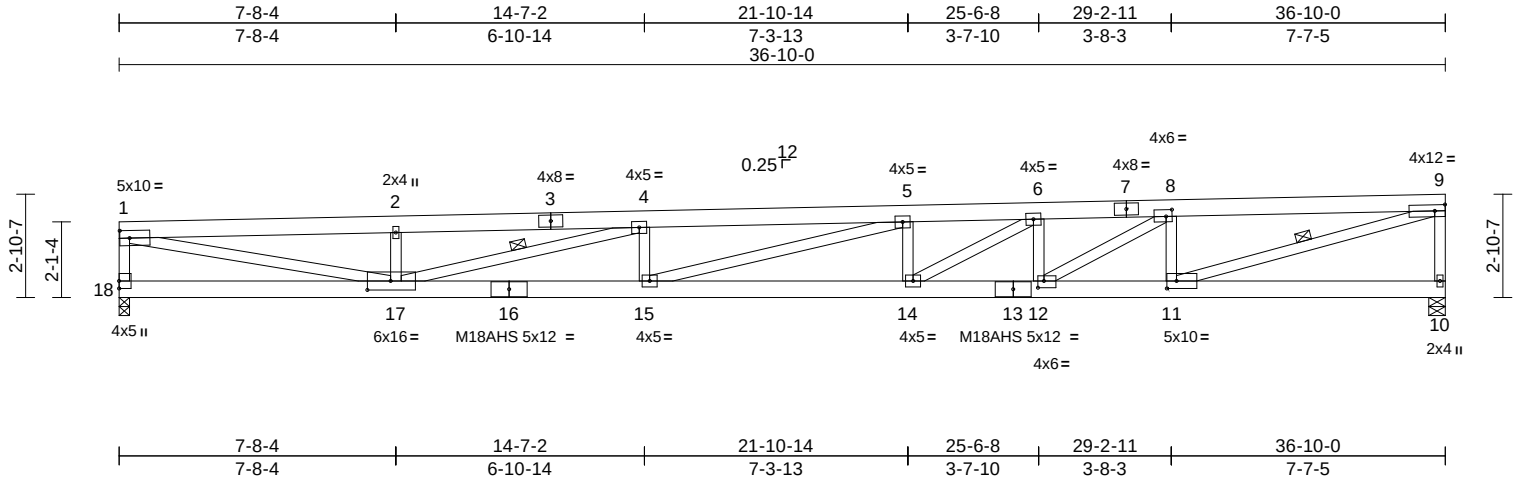
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730543
4448984	N15	Monopitch Girder	2	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:25

Page: 1

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Scale = 1:64

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

Loading	(psf)	Spacing	1-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.54	14-15	>817	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.48	Vert(CT)	-1.11	14-15	>395	180	M18AHS	169/162
TCDL	15.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.10	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 212 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 2-9-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-3-12 oc bracing.

WEBS 1 Row at midpt 9-11, 4-17

REACTIONS

(size) 10=0-5-8, 18=0-3-8
Max Horiz 18=17 (LC 5)
Max Uplift 10=335 (LC 8), 18=177 (LC 4)
Max Grav 10=1569 (LC 1), 18=1201 (LC 1)

FORCES

TOP CHORD (lb) - Maximum Compression/Maximum Tension
1-18=-1120/189, 1-2=-4152/666,
2-4=-4150/668, 4-5=-6205/1140,
5-6=-6777/1477, 6-8=-6669/1583,
8-9=-4574/1041

BOT CHORD 17-18=-33/193, 15-17=-1145/6202,
14-15=-1480/6773, 12-14=-1585/6666,
11-12=-1041/4570, 10-11=0/0

WEBS 9-10=-1508/347, 2-17=-266/75,
4-15=-58/342, 5-14=-134/180,
5-15=-937/348, 6-12=-996/186,
8-11=-1438/387, 8-12=-638/2478,
9-11=-1094/4802, 1-17=-657/4048,
6-14=-252/392, 4-17=-2160/489

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 335 lb uplift at joint 10 and 177 lb uplift at joint 18.
- 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) 779 lb down and 45 lb up at 25-6-8 on top chord, and 177 lb down and 139 lb up at 25-5-12, and 362 lb down and 221 lb up at 25-5-12 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: 10-18=-10, 1-9=-40
Concentrated Loads (lb)
Vert: 12=-173 (F=-136, B=-37), 6=-770



February 17, 2025

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February 17, 2025

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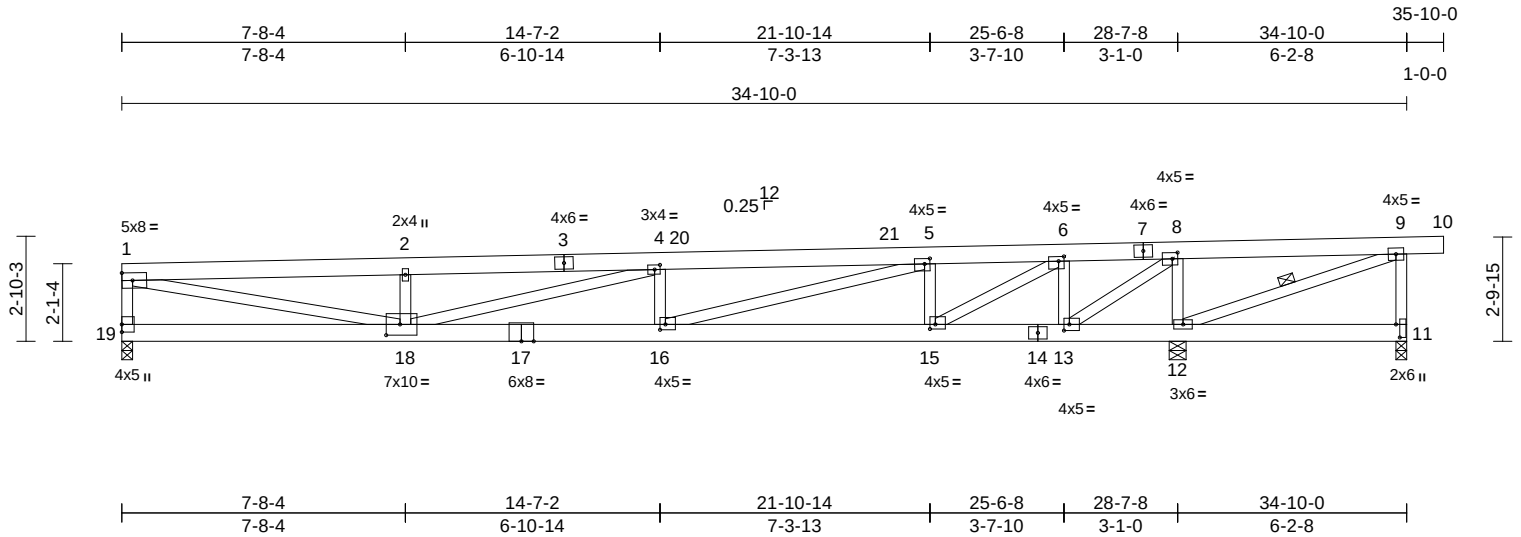
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730545
4448984	N17	Monopitch	2	1	Job Reference (optional)	

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Page: 1

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Scale = 1:62.5

Plate Offsets (X, Y): [4:0-1-12,0-1-8], [5:0-1-12,0-1-12], [6:0-1-12,0-1-8], [8:0-1-12,0-2-0], [11:0-4-4,0-1-4], [13:0-1-12,0-2-0], [15:0-1-12,0-1-8], [16:0-1-12,0-1-12], [18:0-4-8,0-3-8]

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	0.68	Vert(LL)	-0.26	16-18	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.52	16-18	>651	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.02	12	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 3-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-3 oc bracing.

WEBS 1 Row at midpt 9-12

REACTIONS

(size) 11=0-3-8, 12=0-5-8, 19=0-3-8
Max Horiz 19=59 (LC 9)
Max Uplift 11=631 (LC 1), 12=172 (LC 12), 19=71 (LC 8)
Max Grav 11=25 (LC 12), 12=2973 (LC 1), 19=1204 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-19=-1096/211, 1-2=-3528/520, 2-4=-3527/525, 4-5=-3655/545, 5-6=-1410/226, 6-8=-141/815, 8-9=-383/2460, 9-10=-3/0, 9-11=-44/635
BOT CHORD 18-19=-119/215, 16-18=-578/3649, 15-16=-234/1405, 13-15=-808/147, 12-13=-2457/386, 11-12=-43/34
WEBS 4-16=-516/184, 2-18=-581/206, 1-18=-504/3384, 4-18=-133/21, 5-15=-1155/268, 5-16=-358/2334, 8-12=-1767/355, 6-13=-1280/208, 6-15=-381/2580, 8-13=-304/2037, 9-12=-2610/381

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 20-10-0, Corner (3) 20-10-0 to 35-10-0 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 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 71 lb uplift at joint 19, 631 lb uplift at joint 11 and 172 lb uplift at joint 12.
- 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



February 17, 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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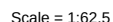


Plate Offsets (X, Y): [4:0-1-12 0-1-8], [5:0-1-12 0-1-12], [6:0-1-12 0-1-8], [8:0-1-12 0-2-0], [11:0-4-4 0-1-4], [13:0-1-12 0-2-0], [15:0-1-12 0-1-8], [16:0-1-12 0-1-12], [18:0-4-8 0-3-8]

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 3-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-3 oc bracing.
WEBS 1 Row at midpt 9-12

REACTIONS (size) 11=0-3-8, 12=0-5-8, 19=0-3-8
Max Horiz 19=59 (LC 9)
Max Uplift 11=-631 (LC 1), 12=-172 (LC 12), 19=-71 (LC 8)
Max Grav 11=25 (LC 12), 12=2973 (LC 1), 19=1204 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-19=-1096/211, 1-2=-3528/520, 2-4=-3527/525, 4-5=-3655/545, 5-6=-1410/226, 6-8=-141/815, 8-9=-383/2460, 9-10=-3/0, 9-11=-44/635
BOT CHORD 18-19=-119/215, 16-18=-578/3649, 15-16=-234/1405, 13-15=-808/147, 12-13=-2457/386, 11-12=-43/34
WEBS 8-12=-1767/355, 9-12=-2610/381, 6-13=-1280/208, 8-13=-304/2037, 5-15=-1155/268, 6-15=-381/2580, 4-16=-516/184, 5-16=-358/2334, 2-18=-581/206, 4-18=-133/21, 1-18=-504/3384

- 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 (mwfrslve) exterior zone and C-C Corner (3) 0-1-12 to 15-1-12, Exterior (2) 15-1-12 to 20-10-0, Corner (3) 20-10-0 to 35-10-0 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 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 71 lb uplift at joint 19, 631 lb uplift at joint 11 and 172 lb uplift at joint 12.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/CP1 1.

LOAD CASE(S) Standard



February 17, 2025



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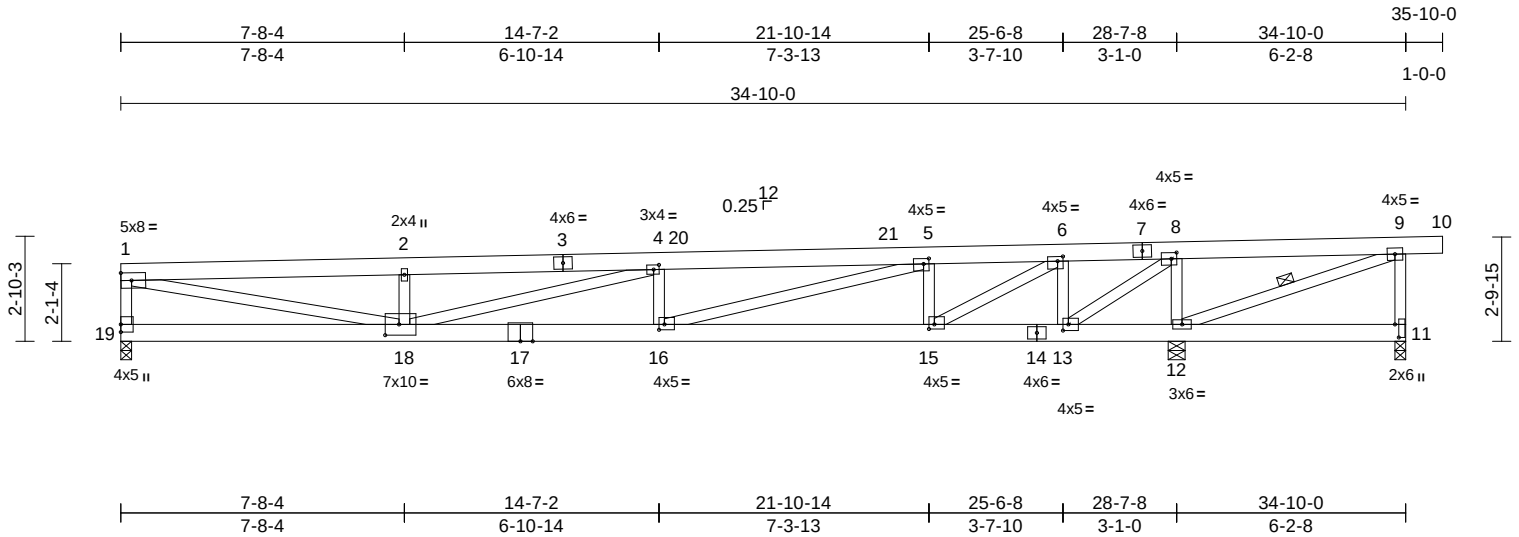
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730547
4448984	N19	Monopitch	4	1	Job Reference (optional)	

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Page: 1

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Scale = 1:62.5

Plate Offsets (X, Y): [4:0-1-12,0-1-8], [5:0-1-12,0-1-12], [6:0-1-12,0-1-8], [8:0-1-12,0-2-0], [11:0-4-4,0-1-4], [13:0-1-12,0-2-0], [15:0-1-12,0-1-8], [16:0-1-12,0-1-12], [18:0-4-8,0-3-8]

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	0.68	Vert(LL)	-0.26	16-18	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.52	16-18	>651	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.02	12	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 3-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-3 oc bracing.

WEBS 1 Row at midpt 9-12

REACTIONS

(size) 11=0-3-8, 12=0-5-8, 19=0-3-8
Max Horiz 19=59 (LC 9)
Max Uplift 11=-631 (LC 1), 12=-172 (LC 12), 19=-71 (LC 8)
Max Grav 11=25 (LC 12), 12=2973 (LC 1), 19=1204 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-19=-1096/211, 1-2=-3528/520, 2-4=-3527/525, 4-5=-3655/545, 5-6=-1410/226, 6-8=-141/815, 8-9=-383/2460, 9-10=-3/0, 9-11=-44/635

BOT CHORD 18-19=-119/215, 16-18=-578/3649, 15-16=-234/1405, 13-15=-808/147, 12-13=-2457/386, 11-12=-43/34

WEBS 9-12=-2610/381, 8-12=-1767/355, 5-15=-1155/268, 6-13=-1280/208, 6-15=-381/2580, 8-13=-304/2037, 4-16=-516/184, 5-16=-358/2334, 2-18=-581/206, 1-18=-504/3384, 4-18=-133/21

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 20-10-0, Corner (3) 20-10-0 to 35-10-0 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 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 71 lb uplift at joint 19, 631 lb uplift at joint 11 and 172 lb uplift at joint 12.
- 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



February 17, 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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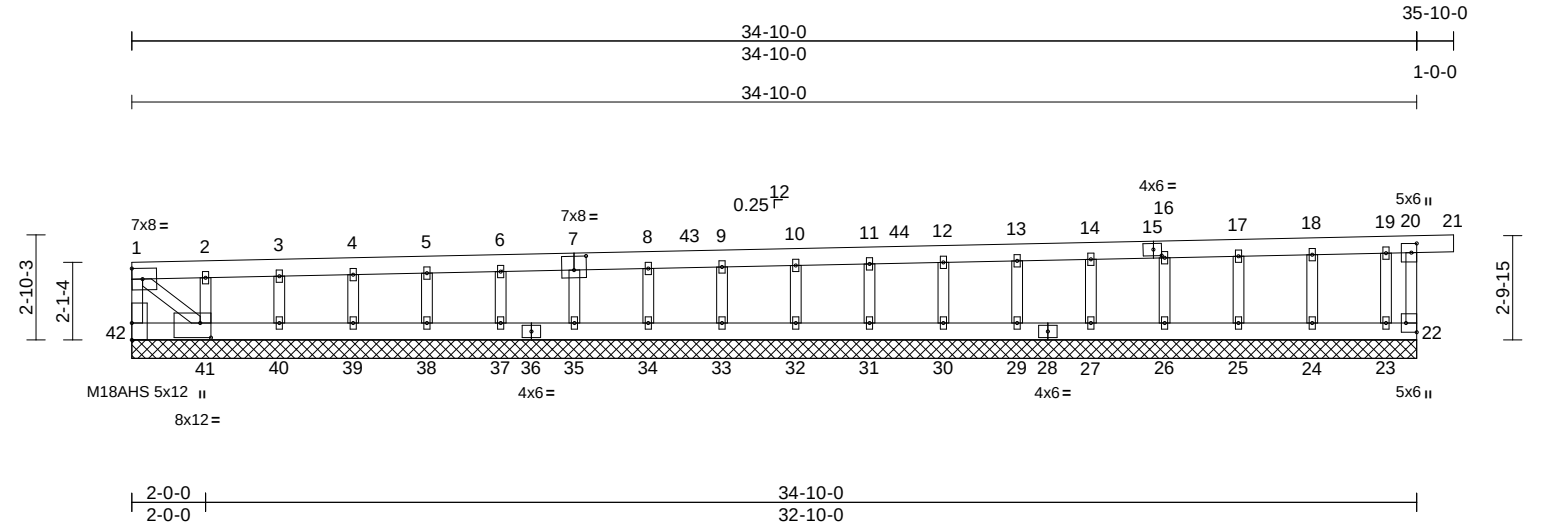
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730548
4448984	N20	Monopitch Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:27

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Scale = 1:62.5

Plate Offsets (X, Y): [7:0-4-0,0-4-8], [15:0-2-10,0-2-0], [20:0-3-1,0-1-8], [22:Edge,0-3-8], [41:0-3-8,0-4-12]

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	0.83	Vert(LL)	n/a	-	n/a	999	M18AHS 145/140
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.47	Vert(CT)	n/a	-	n/a	999	MT20 185/148
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	-0.05	23	n/a	n/a	
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 187 lb FT = 10%											

LUMBER		Max Grav	22=721 (LC 53), 23=722 (LC 54), 24=197 (LC 1), 25=201 (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), 37=199 (LC 1), 38=200 (LC 1), 39=200 (LC 1), 40=200 (LC 1), 41=3584 (LC 53), 42=3642 (LC 40)	WEBS	2-41=-167/82, 3-40=-170/102, 4-39=-160/63, 5-38=-160/59, 6-37=-159/66, 7-35=-160/71, 8-34=-161/66, 9-33=-160/56, 10-32=-160/52, 11-31=-160/52, 12-30=-160/54, 13-29=-160/54, 14-27=-160/54, 16-26=-160/55, 17-25=-162/65, 18-24=-165/98, 19-23=-270/269, 1-41=-5164/5246
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 3-10-12 oc purlins, except end verticals.					
BOT CHORD Rigid ceiling directly applied or 4-0-13 oc bracing.					
REACTIONS (size)		22=34-10-0, 23=34-10-0, 24=34-10-0, 25=34-10-0, 26=34-10-0, 27=34-10-0, 29=34-10-0, 30=34-10-0, 31=34-10-0, 32=34-10-0, 33=34-10-0, 34=34-10-0, 35=34-10-0, 37=34-10-0, 38=34-10-0, 39=34-10-0, 40=34-10-0, 41=34-10-0, 42=34-10-0	FORCES (lb) - Maximum Compression/Maximum Tension		
Max Horiz 42=59 (LC 35)			TOP CHORD 1-42=-3577/3531, 1-2=-3991/3963, 2-3=-3784/3741, 3-4=-3541/3499, 4-5=-3298/3259, 5-6=-3055/3019, 6-8=-2813/2779, 8-9=-2328/2298, 9-10=-2085/2058, 10-11=-1843/1818, 11-12=-1600/1578, 12-13=-1357/1338, 13-14=-1115/1098, 14-16=-873/858, 16-17=-632/617, 17-18=-391/377, 18-19=-151/138, 19-20=-223/211, 20-21=-3/0, 20-22=-339/308		
Max Uplift 22=-697 (LC 36), 23=-660 (LC 33), 24=-26 (LC 41), 25=-16 (LC 34), 26=-12 (LC 42), 27=-12 (LC 33), 29=-12 (LC 42), 30=-12 (LC 33), 31=-12 (LC 42), 32=-12 (LC 33), 33=-16 (LC 42), 34=-24 (LC 33), 35=-29 (LC 42), 37=-24 (LC 33), 38=-16 (LC 34), 39=-16 (LC 41), 40=-38 (LC 34), 41=-3496 (LC 36), 42=-3592 (LC 33)			BOT CHORD 41-42=-205/134, 40-41=-3770/3756, 39-40=-3505/3515, 38-39=-3288/3274, 37-38=-3046/3032, 35-37=-2805/2791, 34-35=-2565/2550, 33-34=-2323/2309, 32-33=-2082/2068, 31-32=-1841/1827, 30-31=-1600/1586, 29-30=-1359/1345, 27-29=-1118/1104, 26-27=-877/862, 25-26=-635/621, 24-25=-394/380, 23-24=-153/139, 22-23=-232/218		

- 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 20-10-0, Corner (3) 20-10-0 to 35-10-0 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.



February 17,2025

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H
4448984	N20	Monopitch Supported Gable	1	1	R86730548
Job Reference (optional)					

- 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 (I) MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 3592 lb uplift at joint 42, 697 lb uplift at joint 22, 3496 lb uplift at joint 41, 38 lb uplift at joint 40, 16 lb uplift at joint 39, 16 lb uplift at joint 38, 24 lb uplift at joint 37, 29 lb uplift at joint 35, 24 lb uplift at joint 34, 16 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, 16 lb uplift at joint 25, 26 lb uplift at joint 24 and 660 lb uplift at joint 23.
- 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 4200 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 34-10-0 for 120.6 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.

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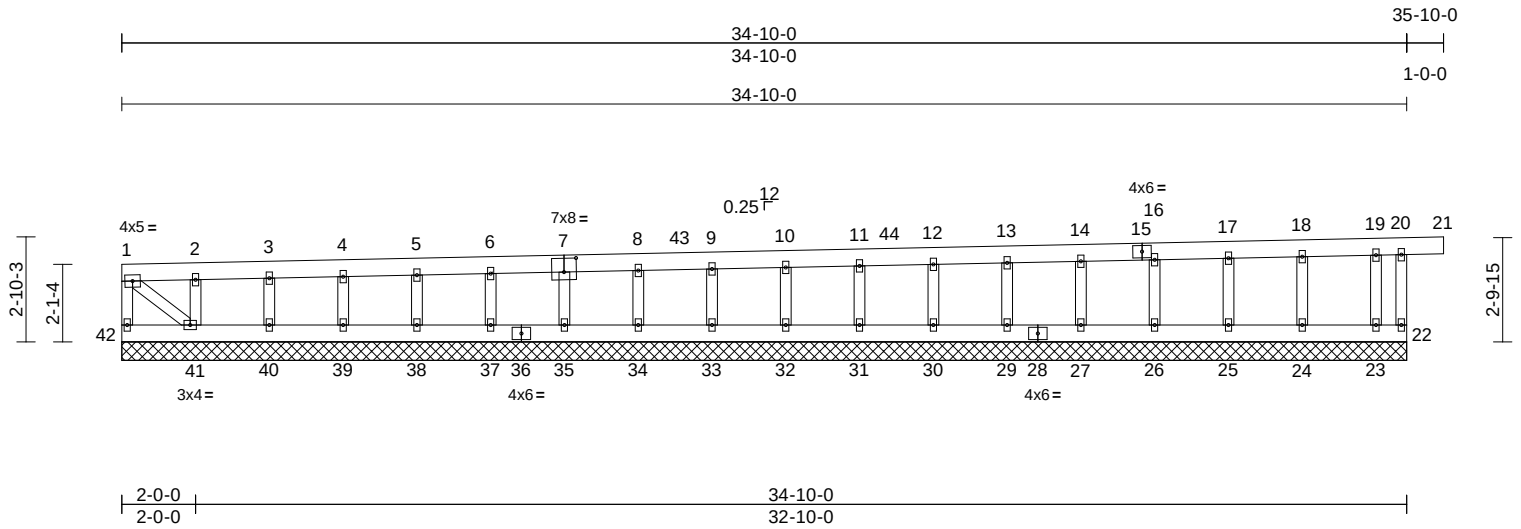
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730549
4448984	N20A	Monopitch Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:28

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Scale = 1:62.5									
Plate Offsets (X, Y): [7:0-4-0,0-4-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	PLATES
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	MT20
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	GRIP
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	22	185/148
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-SH					
BCDL	10.0								
Weight: 187 lb FT = 10%									

LUMBER		Max Grav	22=221 (LC 18), 23=115 (LC 1), 24=197 (LC 1), 25=201 (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), 37=199 (LC 1), 38=200 (LC 1), 39=200 (LC 1), 40=200 (LC 1), 41=212 (LC 1), 42=82 (LC 21)
TOP CHORD	2x6 DF No.2		
BOT CHORD	2x6 DF No.2		
WEBS	2x4 HF No.2		
OTHERS	2x4 HF No.2		
BRACING		FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	TOP CHORD	1-42=-66/43, 1-2=-45/36, 2-3=-43/35, 3-4=-42/35, 4-5=-40/35, 5-6=-39/34, 6-8=-37/34, 8-9=-35/34, 9-10=-33/33, 10-11=-32/33, 11-12=-30/33, 12-13=-29/32, 13-14=-27/32, 14-16=-27/33, 16-17=-28/34, 17-18=-28/36, 18-19=-28/37, 19-20=-28/38, 20-21=-3/0, 20-22=-224/44
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 41-42.	BOT CHORD	41-42=-92/86, 40-41=-30/39, 39-40=-30/39, 38-39=-30/39, 37-38=-30/39, 35-37=-30/39, 34-35=-31/40, 33-34=-31/40, 32-33=-31/40, 31-32=-31/40, 30-31=-31/40, 29-30=-31/40, 27-29=-31/40, 26-27=-31/40, 25-26=-31/40, 24-25=-31/40, 23-24=-31/40, 22-23=-31/40
REACTIONS (size)		WEBS	2-41=-167/58, 3-40=-160/55, 4-39=-160/54, 5-38=-160/54, 6-37=-159/53, 7-35=-160/54, 8-34=-161/54, 9-33=-160/52, 10-32=-160/52, 11-31=-160/52, 12-30=-160/54, 13-29=-160/54, 14-27=-160/54, 16-26=-160/54, 17-25=-162/54, 18-24=-156/54, 19-23=-79/32, 1-41=-74/94
Max Horiz	42=59 (LC 9)	NOTES	
Max Uplift	22=-31 (LC 9), 23=-2 (LC 8), 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), 37=-12 (LC 8), 38=-12 (LC 8), 39=-12 (LC 12), 40=-12 (LC 8), 41=-19 (LC 9), 42=-10 (LC 8)		

- 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 20-10-0, Corner (3) 20-10-0 to 35-10-0 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 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.



February 17,2025

Continued on page 2

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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730549
4448984	N20A	Monopitch Supported Gable	1	1	Job Reference (optional)	

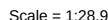
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other 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 10 lb uplift at joint 42, 31 lb uplift at joint 22, 19 lb uplift at joint 41, 12 lb uplift at joint 40, 12 lb uplift at joint 39, 12 lb uplift at joint 38, 12 lb uplift at joint 37, 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, 10 lb uplift at joint 24 and 2 lb uplift at joint 23.
- 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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Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:28 Page: 1
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- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 6 and 45 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 33 lb up at 2'-1-4, and 140 lb down and 34 lb up at 4'-1-4 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: 1-3=-80, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-140 (B), 7=-140 (B)

- ## 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=1.00; 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 .



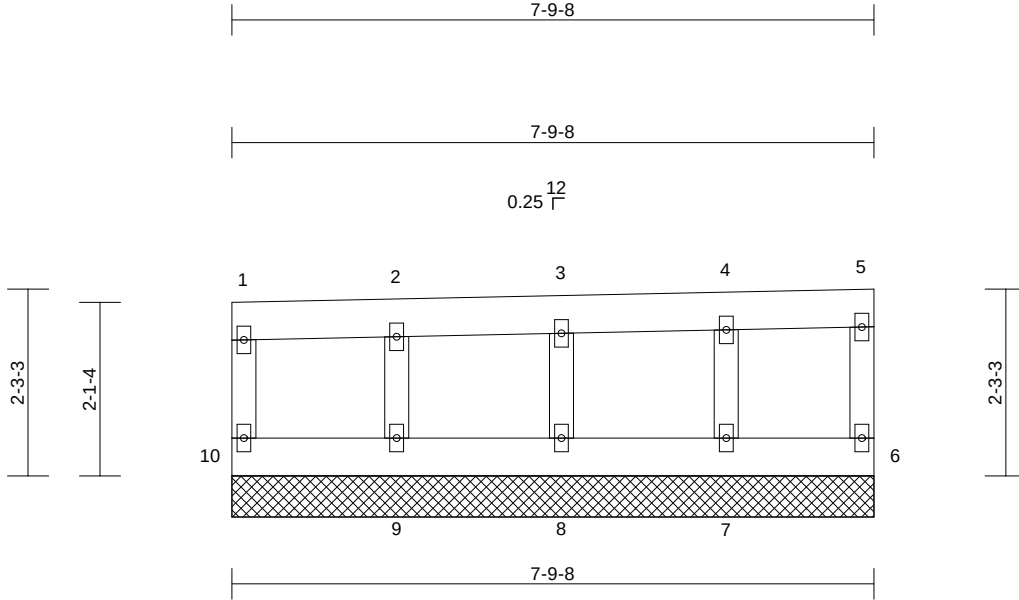
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730551
4448984	N22	Monopitch Girder	1	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:28

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Scale = 1:28

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	0.02	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.01	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	6	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R							
BCDL	10.0										
										Weight: 41 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=7-9-8, 7=7-9-8, 8=7-9-8, 9=7-9-8, 10=7-9-8
	Max Horiz	10=45 (LC 7)
	Max Uplift	6=-10 (LC 5), 7=-22 (LC 4), 8=-47 (LC 4), 9=-38 (LC 5), 10=-15 (LC 4)
	Max Grav	6=67 (LC 1), 7=196 (LC 1), 8=342 (LC 1), 9=350 (LC 1), 10=76 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-10=-61/18, 1-2=-9/2, 2-3=-9/3, 3-4=-9/4, 4-5=-9/5, 5-6=-53/10
BOT CHORD	9-10=-26/20, 8-9=-26/20, 7-8=-26/20, 6-7=-26/20
WEBS	2-9=-167/33, 3-8=-162/37, 4-7=-156/38

NOTES

- 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.

- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 10, 10 lb uplift at joint 6, 38 lb uplift at joint 9, 47 lb uplift at joint 8 and 22 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 140 lb down and 33 lb up at 1-9-4, and 140 lb down and 34 lb up at 3-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

- 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: 9=-140 (F), 8=-140 (F)



February 17, 2025

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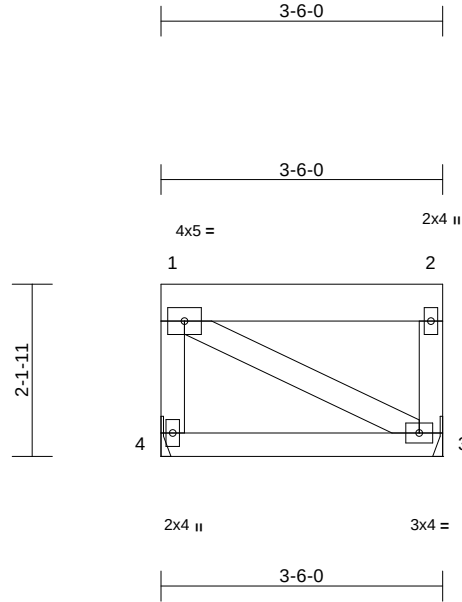
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730552
4448984	N23	Flat	1	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:28
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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	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	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 3-6-0 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=-43 (LC 8)
Max Uplift 3=-21 (LC 9), 4=-21 (LC 8)
Max Grav 3=160 (LC 1), 4=160 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-128/122, 1-2=-22/24, 2-3=-128/100
BOT CHORD 3-4=-61/63
WEBS 1-3=-44/44

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 21 lb uplift at joint 4 and 21 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.

LOAD CASE(S) Standard



February 17, 2025

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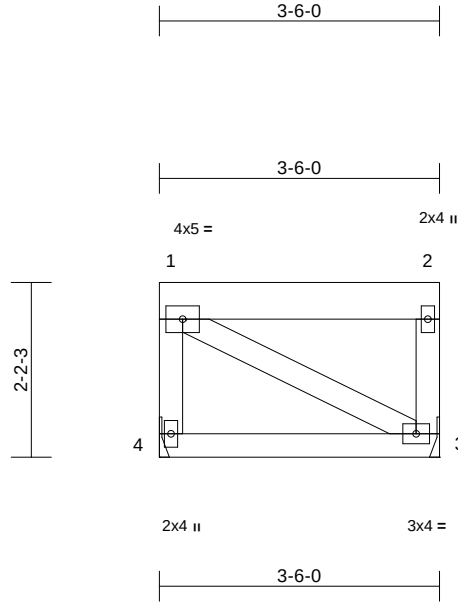
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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730553
4448984	N24	Flat	1	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:29
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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	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	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 3-6-0 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=-44 (LC 10)
	Max Uplift	3=-22 (LC 9), 4=-22 (LC 8)
	Max Grav	3=160 (LC 1), 4=160 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-4=-128/123, 1-2=-22/24, 2-3=-128/100
BOT CHORD	3-4=-62/64
WEBS	1-3=-46/46

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 22 lb uplift at joint 4 and 22 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.
- LOAD CASE(S)** Standard



February 17, 2025

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LUMBER		5) Gable requires continuous bottom chord bearing.
TOP CHORD	2x6 DF No.2	6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
BOT CHORD	2x4 HF No.2	7) Gable studs spaced at 2-0-0 oc.
WEBS	2x4 HF No.2	8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
OTHERS	2x4 HF No.2	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.
BRACING		10) All bearings are assumed to be HF No.2 .
TOP CHORD	Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.	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 14 lb uplift at joint 5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
REACTIONS	(size) 4=3-6-0, 5=3-6-0, 6=3-6-0 Max Horiz 6=-46 (LC 10) Max Uplift 4=-19 (LC 9), 5=-14 (LC 8), 6=-17 (LC 8) Max Grav 4=52 (LC 1), 5=188 (LC 1), 6=81 (LC 1)	
FORCES	(lb) - Maximum Compression/Maximum	LOAD CASE(S) Standard

- 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.

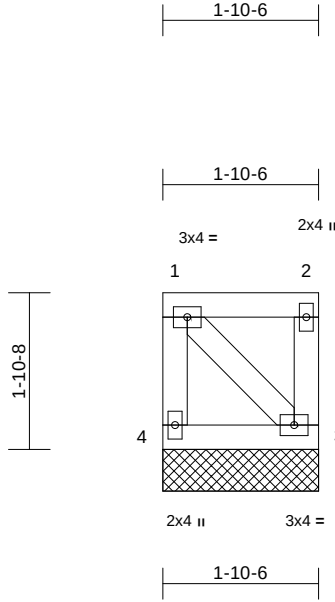


Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730555
4448984	P01	Flat Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:29
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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	0.11	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.05	Horiz(TL)	0.00	3	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=1-10-6, 4=1-10-6
Max Horiz 4=39 (LC 11)
Max Uplift 3=-117 (LC 35), 4=-117 (LC 32)
Max Grav 3=269 (LC 36), 4=269 (LC 39)

FORCES (lb)

- Maximum Compression/Maximum Tension
TOP CHORD 1-4=-296/126, 1-2=-161/153, 2-3=-129/0
BOT CHORD 3-4=-201/172
WEBS 1-3=-251/280

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 117 lb uplift at joint 4 and 117 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) 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.
- 14) 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=-164, 3-4=-20



February 17, 2025

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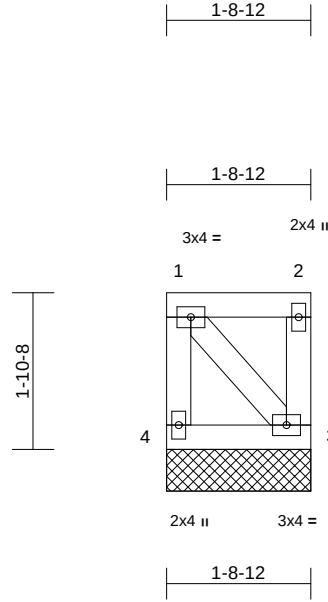
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730556
4448984	P01A	Flat Supported Gable	1	1	Job Reference (optional)	

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

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Page: 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	0.09	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	0.05	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 1-8-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size)

3=1-8-12, 4=1-8-12
Max Horiz 4=39 (LC 11)
Max Uplift 3=-124 (LC 35), 4=-124 (LC 32)
Max Grav 3=263 (LC 36), 4=263 (LC 39)

FORCES (lb)

TOP CHORD	1-4=-292/132, 1-2=-149/140, 2-3=-118/0
BOT CHORD	3-4=-189/160
WEBS	1-3=-243/273

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 124 lb uplift at joint 4 and 124 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) 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.
- 14) 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 1-8-12 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=-164, 3-4=-20



February 17, 2025

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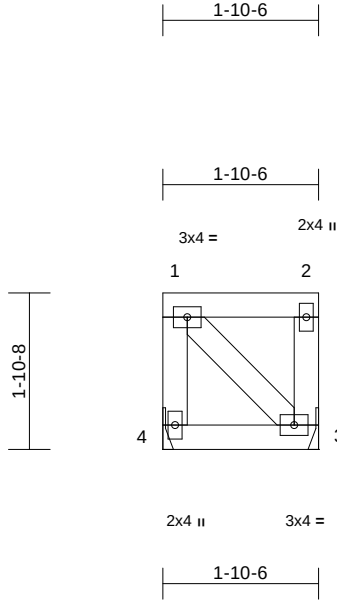
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730557
4448984	P02	Flat	18	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:29

Page: 1

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Scale = 1:27.6

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	0.11	0.00	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.05	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=-39 (LC 8)
Max Uplift 3=-117 (LC 35), 4=-117 (LC 32)
Max Grav 3=269 (LC 36), 4=269 (LC 39)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-291/126, 1-2=-161/153, 2-3=-129/0
BOT CHORD 3-4=-196/172
WEBS 1-3=-251/273

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 117 lb uplift at joint 4 and 117 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=-164, 3-4=-20



February 17, 2025

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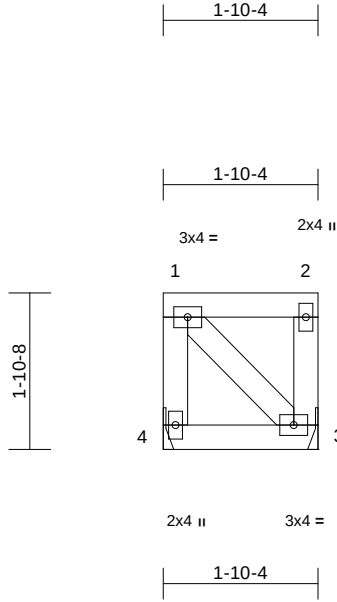
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730558
4448984	P03	Flat	2	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:30

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Scale = 1:27.6

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	0.11	0.00	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.05	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 1-10-4 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=-39 (LC 8)
	Max Uplift	3=-117 (LC 35), 4=-117 (LC 32)
	Max Grav	3=268 (LC 36), 4=268 (LC 39)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-4=-291/126, 1-2=-160/152, 2-3=-128/0
BOT CHORD	3-4=-195/171
WEBS	1-3=-250/272

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 117 lb uplift at joint 4 and 117 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=-164, 3-4=-20



February 17, 2025

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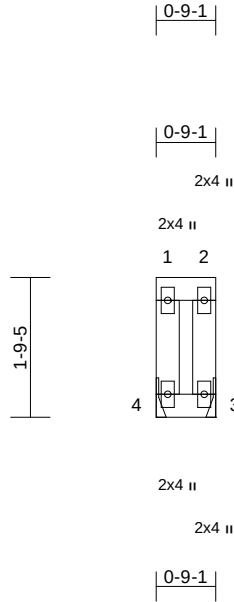
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730559
4448984	P04	Roof Special	2	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:29.3

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	0.00	4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	0.00	4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.00	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-R							
BCDL	10.0									Weight: 5 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 0-9-1 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=37 (LC 11)
Max Uplift 3=-40 (LC 9), 4=-40 (LC 8)
Max Grav 3=85 (LC 10), 4=85 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-68/35, 1-2=-5/4, 2-3=-68/35
BOT CHORD 3-4=-34/36

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 40 lb uplift at joint 4 and 40 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.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-164, 3-4=-20



February 17, 2025

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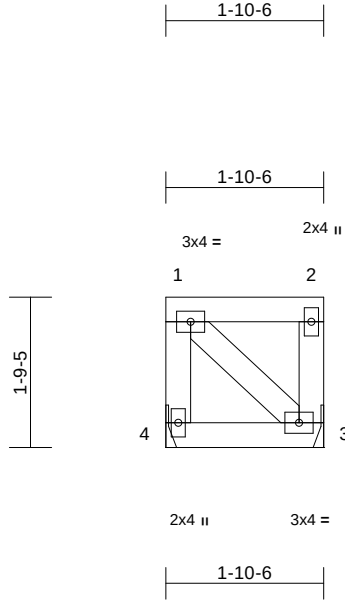
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730560
4448984	P05	Flat	8	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:30

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Scale = 1:27.2

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	0.00	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.05	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=37 (LC 11)
Max Uplift 3=-104 (LC 35), 4=-104 (LC 32)
Max Grav 3=256 (LC 36), 4=256 (LC 39)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-277/114, 1-2=-160/152, 2-3=-129/0
BOT CHORD 3-4=-193/170
WEBS 1-3=-241/261

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 104 lb uplift at joint 4 and 104 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=-164, 3-4=-20



February 17, 2025

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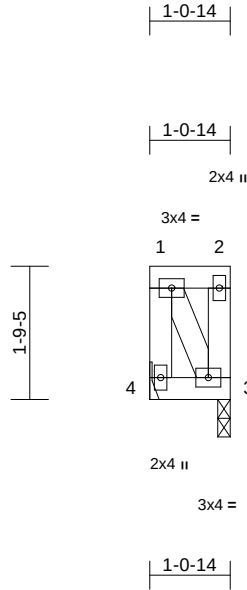
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730561
4448984	P06	Flat	2	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:30.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.04	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	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 7 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 1-0-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=0-2-0, 4= Mechanical
Max Horiz 4=37 (LC 11)
Max Uplift 3=-153 (LC 35), 4=-153 (LC 32)
Max Grav 3=228 (LC 36), 4=228 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-259/157, 1-2=-89/81, 2-3=-64/0
BOT CHORD 3-4=-121/99
WEBS 1-3=-207/238

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 at joint(s) 3.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 4 and 153 lb uplift at joint 3.
- 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) 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 1-0-14 for 100.0 plf.

LOAD CASE(S)

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-164, 3-4=-20



February 17, 2025

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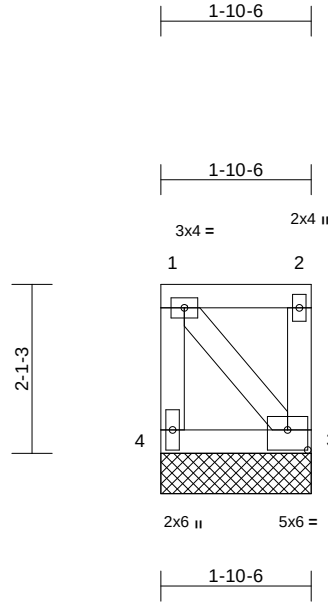
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730562
4448984	P07	Flat Supported Gable	30	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:30

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	0.11	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	0.13	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 11)
Max Uplift 3=-529 (LC 35), 4=-529 (LC 32)
Max Grav 3=549 (LC 36), 4=549 (LC 39)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-583/538, 1-2=-413/403, 2-3=-63/49
BOT CHORD 3-4=-459/425
WEBS 1-3=-695/731

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 529 lb uplift at joint 4 and 529 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 276 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 276.0 plf.

LOAD CASE(S) Standard



February 17, 2025

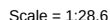
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:30 Page: 1
ID:CTI?SSIS60dmxGksRkoUNpBzIsTe-RfC?PsB70Hq3NSaPanL8w3uITXbGKWrcDai7J4zJC?f



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 25.0)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.13	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 10%

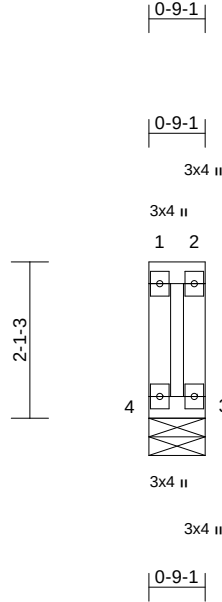
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730564
4448984	P08	Roof Special	2	1	Job Reference (optional)	

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

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Page: 1

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Scale = 1:31

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	0.22	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.16	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-R							
BCDL	10.0									Weight: 5 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 0-9-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

3=0-9-1, 4=0-9-1
Max Horiz 4=-44 (LC 10)
Max Uplift 3=-587 (LC 35), 4=-587 (LC 32)
Max Grav 3=593 (LC 36), 4=593 (LC 39)

FORCES (lb)

TOP CHORD	1-4=-307/268, 1-2=-69/71, 2-3=-267/312
BOT CHORD	3-4=-109/88

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 587 lb uplift at joint 4 and 587 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 276 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 0-9-1 for 276.0 plf.

LOAD CASE(S) Standard



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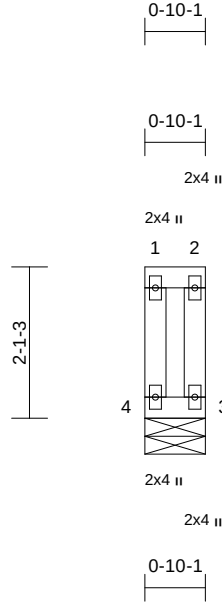
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730565
4448984	P09	Roof Special	2	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:31

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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	0.04	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							Weight: 5 lb	FT = 10%
BCDL	10.0											

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

REACTIONS (size)

3=0-10-1, 4=0-10-1
Max Horiz 4=44 (LC 11)
Max Uplift 3=-75 (LC 9), 4=-75 (LC 8)
Max Grav 3=82 (LC 10), 4=82 (LC 11)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-69/75, 1-2=-6/7, 2-3=-69/75
BOT CHORD 3-4=-45/53

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 75 lb uplift at joint 4 and 75 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



February 17, 2025

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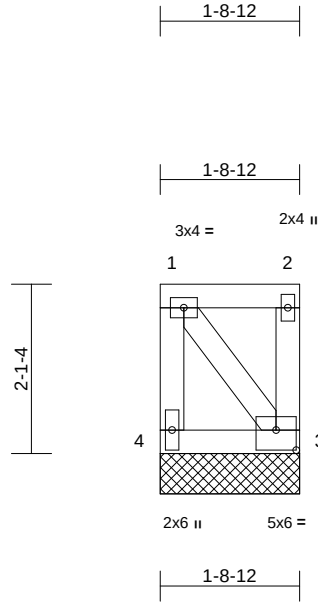
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730566
4448984	P10	Flat Supported Gable	26	1	Job Reference (optional)	

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

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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	0.11	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	0.13	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 1-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 3=1-8-12, 4=1-8-12
Max Horiz 4=45 (LC 9)
Max Uplift 3=-532 (LC 35), 4=-532 (LC 32)
Max Grav 3=550 (LC 36), 4=550 (LC 39)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-586/541, 1-2=-380/370, 2-3=-58/45
BOT CHORD 3-4=-425/392
WEBS 1-3=-674/711

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 532 lb uplift at joint 4 and 532 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 276 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-12 for 276.0 plf.

LOAD CASE(S) Standard



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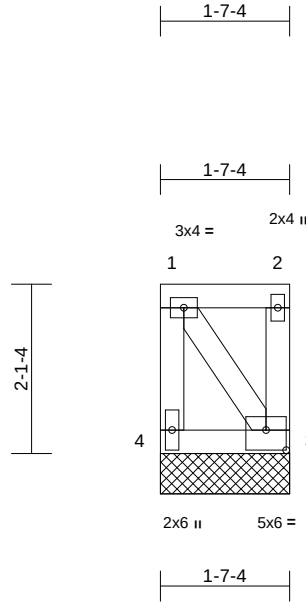
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730567
4448984	P11	Flat Supported Gable	2	1	Job Reference (optional)	

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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	0.11	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	0.13	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=45 (LC 9)
Max Uplift 3=-534 (LC 35), 4=-534 (LC 32)
Max Grav 3=551 (LC 36), 4=551 (LC 39)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-589/542, 1-2=-348/339, 2-3=-53/41
BOT CHORD 3-4=-394/361
WEBS 1-3=-655/695

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 534 lb uplift at joint 4 and 534 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 276 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 276.0 plf.

LOAD CASE(S) Standard



February 17, 2025

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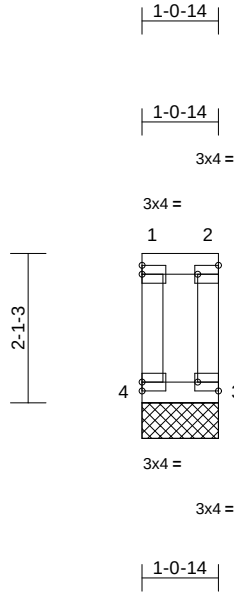
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730568
4448984	P12	Flat Supported Gable	2	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:31
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Page: 1



Scale = 1:32.4

Plate Offsets (X, Y): [2:Edge,0-1-8], [3:Edge,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	0.29	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	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 1-0-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 3=1-0-14, 4=1-0-14
Max Horiz 4=-44 (LC 32)
Max Uplift 3=-552 (LC 35), 4=-552 (LC 32)
Max Grav 3=562 (LC 36), 4=562 (LC 39)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-301/271, 1-2=-114/115, 2-3=-268/310
BOT CHORD 3-4=-152/131

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=1.0; 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 552 lb uplift at joint 4 and 552 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 276 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-0-14 for 276.0 plf.

LOAD CASE(S) Standard



February 17, 2025

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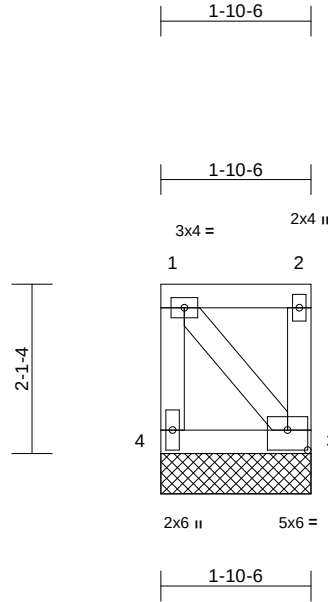
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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730569
4448984	P13	Flat Supported Gable	11	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:32
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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	0.11	Vert(LL)	n/a	-	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horiz(TL)	0.00	3	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=45 (LC 9)
Max Uplift 3=-530 (LC 35), 4=-530 (LC 32)
Max Grav 3=550 (LC 36), 4=550 (LC 39)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-584/539, 1-2=-413/403, 2-3=-63/49
BOT CHORD 3-4=-459/426
WEBS 1-3=-696/732

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 530 lb uplift at joint 4 and 530 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 276 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 276.0 plf.

LOAD CASE(S) Standard



February 17, 2025

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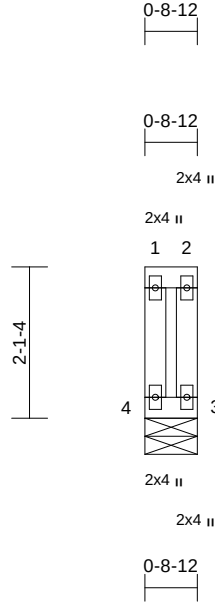
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730570
4448984	P14	Roof Special	2	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:32
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Page: 1



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	0.04	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: 5 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 0-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

3=0-8-12, 4=0-8-12
Max Horiz 4=45 (LC 11)
Max Uplift 3=-93 (LC 9), 4=-93 (LC 8)
Max Grav 3=99 (LC 10), 4=99 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-70/75, 1-2=-5/4, 2-3=-70/75
BOT CHORD 3-4=-42/44

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 93 lb uplift at joint 4 and 93 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



February 17, 2025

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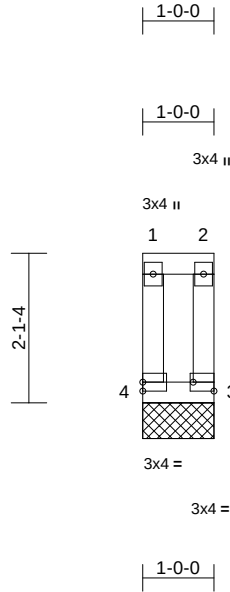
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730571
4448984	P15	Flat Supported Gable	2	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:32

Page: 1

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Scale = 1:32.4

Plate Offsets (X, Y): [3:Edge,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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	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 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 3=1-0-0, 4=1-0-0
Max Horiz 4=-45 (LC 8)
Max Uplift 3=-559 (LC 35), 4=-559 (LC 32)
Max Grav 3=568 (LC 36), 4=568 (LC 39)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-303/271, 1-2=-103/105, 2-3=-269/311
BOT CHORD 3-4=-143/121

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 559 lb uplift at joint 4 and 559 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 276 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-0-0 for 276.0 plf.

LOAD CASE(S) Standard



February 17, 2025

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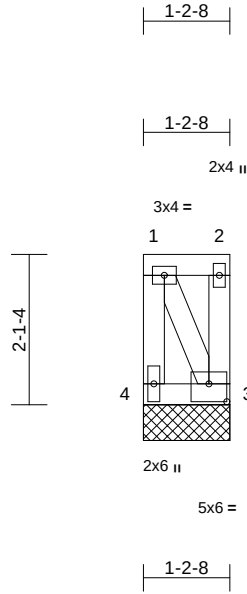
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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730572
4448984	P16	Flat Supported Gable	2	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:32
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Page: 1



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	0.11	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	0.12	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 1-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 3=1-2-8, 4=1-2-8
Max Horiz 4=45 (LC 9)
Max Uplift 3=-546 (LC 35), 4=-546 (LC 32)
Max Grav 3=558 (LC 36), 4=558 (LC 39)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-608/552, 1-2=-250/240, 2-3=-37/29
BOT CHORD 3-4=-296/263
WEBS 1-3=-609/661

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 546 lb uplift at joint 4 and 546 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 276 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-2-8 for 276.0 plf.

LOAD CASE(S) Standard



February 17, 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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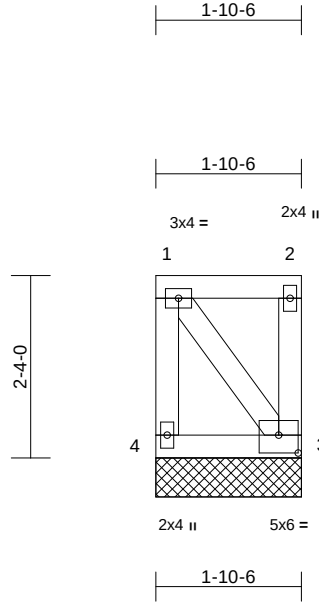
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730573
4448984	P17	Flat Supported Gable	2	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:32

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Scale = 1:29.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.06	Horiz(TL)	0.00	3	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 1-10-6 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=-50 (LC 10)
Max Uplift 3=-253 (LC 35), 4=-253 (LC 32)
Max Grav 3=441 (LC 56), 4=419 (LC 59)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-425/289, 1-2=-167/156, 2-3=-266/152
BOT CHORD 3-4=-218/181
WEBS 1-3=-299/342

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 253 lb uplift at joint 4 and 253 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 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=-338, 3-4=-20



February 17, 2025

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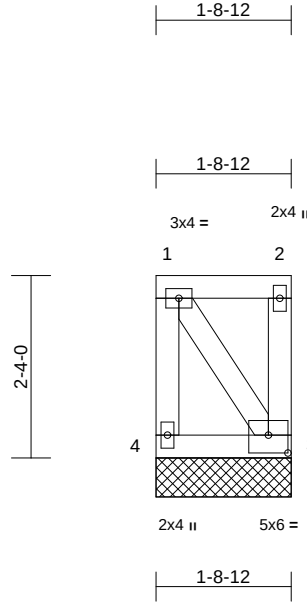
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H
4448984	P17A	Flat Supported Gable	2	1	R86730574
Job Reference (optional)					

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

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Scale = 1:29.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999	185/148
TCDL	15.0	Rep Stress Incr	NO	WB	0.06	Horiz(TL)	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 1-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 3=1-8-12, 4=1-8-12
Max Horiz 4=-50 (LC 10)
Max Uplift 3=-255 (LC 35), 4=-255 (LC 32)
Max Grav 3=420 (LC 56), 4=400 (LC 59)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-418/270, 1-2=-155/144, 2-3=-243/139
BOT CHORD 3-4=-206/169
WEBS 1-3=-293/339

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 255 lb uplift at joint 4 and 255 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 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 1-8-12 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=-338, 3-4=-20



February 17, 2025

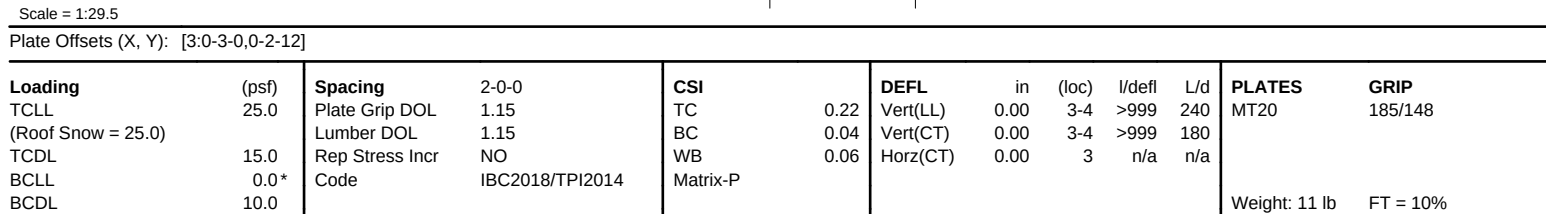
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- 6) All bearings are assumed to be HF No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 4 and 253 lb uplift at joint 3.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) 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

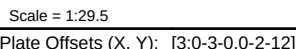
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-338, 3-4=-20

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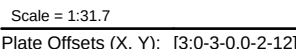


LUMBER		6) All bearings are assumed to be HF No.2 .
TOP CHORD	2x4 HF No.2	7) Refer to girder(s) for truss to truss connections.
BOT CHORD	2x4 HF No.2	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 4 and 253 lb uplift at joint 3.
WEBS	2x4 HF No.2	9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
BRACING		10) 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.
TOP CHORD	Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.	LOAD CASE(S) Standard
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
REACTIONS	(size) 3= Mechanical, 4= Mechanical	1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-338, 3-4=-20
	Max Horiz 4=-50 (LC 10)	
	Max Uplift 3=-253 (LC 35), 4=-253 (LC 32)	
	Max Grav 3=441 (LC 56), 4=419 (LC 59)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-4=-416/298, 1-2=-167/156, 2-3=-266/152	
BOT CHORD	3-4=-212/181	
WEBS	1-3=-299/332	

- 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.



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LUMBER					6) All bearings are assumed to be HF No.2 .
TOP CHORD	2x4 HF No.2				7) Refer to girder(s) for truss to truss connections.
BOT CHORD	2x4 HF No.2				8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 267 lb uplift at joint 4 and 267 lb uplift at joint 3.
WEBS	2x4 HF No.2				9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TP1 .
BRACING					10) 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 1-3-2 for 100.0 plf.
TOP CHORD	Structural wood sheathing directly applied or 1-3-2 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=-50 (LC 10)			
	Max Uplift	3=-267 (LC 35), 4=-267 (LC 32)			
	Max Grav	3=358 (LC 36), 4=341 (LC 59)			
FORCES	(lb) - Maximum Compression/Maximum Tension				LOAD CASE(S) Standard
TOP CHORD	1-4=-394/273, 1-2=-113/101, 2-3=-164/94				1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
BOT CHORD	3-4=-158/126				Uniform Loads (lb/ft)
WEBS	1-3=-285/331				Vert: 1-2=-338, 3-4=-20

- ## NOTES
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCFL=4.2psf; BCFL=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.

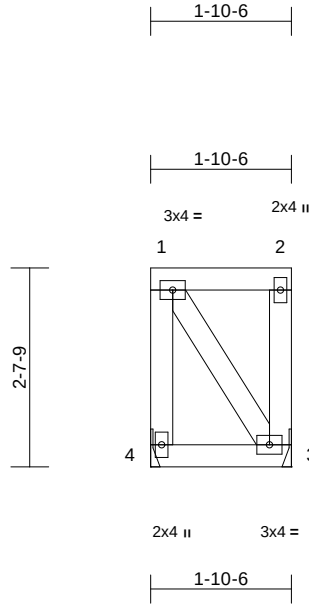


Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730578
4448984	P21	Flat	10	1	Job Reference (optional)	

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Page: 1



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	0.11	0.00	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.04	0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.07	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=-58 (LC 10)
	Max Uplift	3=-215 (LC 35), 4=-215 (LC 32)
	Max Grav	3=367 (LC 36), 4=367 (LC 39)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-4=-408/225, 1-2=-171/158, 2-3=-129/0
BOT CHORD	3-4=-222/187
WEBS	1-3=-333/374

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 215 lb uplift at joint 4 and 215 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=-164, 3-4=-20



February 17, 2025

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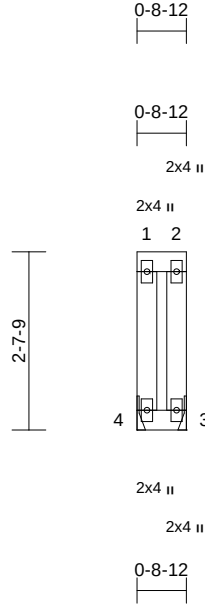
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730579
4448984	P22	Roof Special	2	1	Job Reference (optional)	

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Page: 1



Scale = 1:34.1

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	0.07	Vert(LL)	0.00	4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	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 0-8-12 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=-58 (LC 10)
Max Uplift 3=-137 (LC 9), 4=-137 (LC 8)
Max Grav 3=179 (LC 10), 4=179 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-128/97, 1-2=-7/6, 2-3=-128/97
BOT CHORD 3-4=-55/57

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 137 lb uplift at joint 4 and 137 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.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-164, 3-4=-20



February 17, 2025

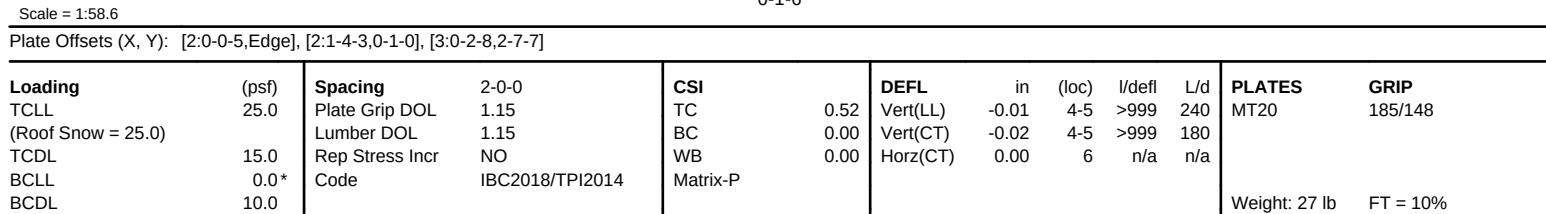
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcsccomponents.com)

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Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:34 Page: 1
ID:wUjbPv_r_oC?rI4VwXLJvHzlwL6-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKwRCdoi7J4zJC?f



NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MW25.0 psf (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) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 0 degree rotation about its center.

- 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3, 4, 5, 6.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 3, 31 lb uplift at joint 2, 67 lb uplift at joint 4, 60 lb uplift at joint 5 and 67 lb uplift at joint 6.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5, 6.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 48 lb down and 126 lb up at 2-9-8, and 64 lb down and 34 lb up at 5-7-7, and 64 lb down and 34 lb up at 8-5-6 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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: 1-7=-80
Concentrated Loads (lb)
Vert: 3=47 (B)



February 17, 2025



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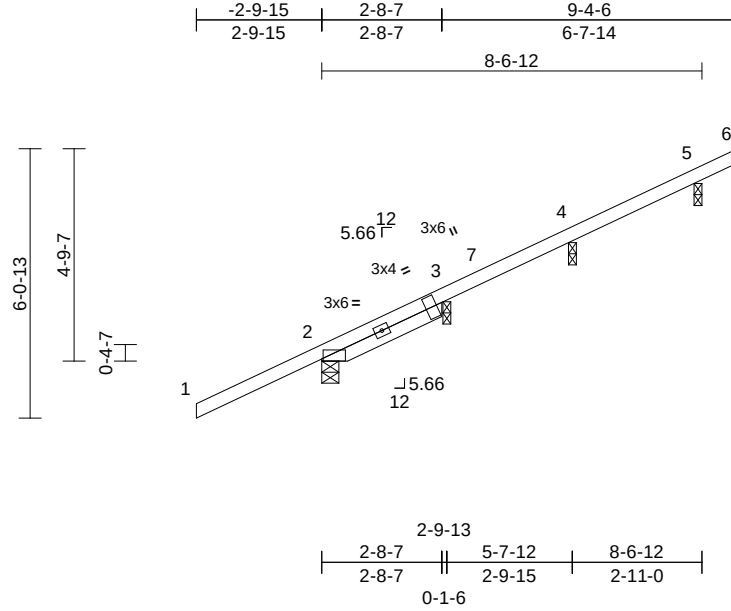
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Roseville, CA 95661
916 755 3571 / MiTek-UIS.com

Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730581
4448984	R02	Corner Rafter	4	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:34
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Page: 1



Scale = 1:51.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.01	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.00	Vert(CT)	-0.02	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 22 lb	FT = 10%

LUMBER

TOP CHORD 2x4 DF 1800F 1.6E *Except* 2-3:2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-4-9, 3=0-2-2, 4=0-2-2, 5=0-2-2
Max Horiz 2=144 (LC 10)
Max Uplift 2=-44 (LC 10), 3=-60 (LC 10), 4=-64 (LC 10), 5=-58 (LC 10)
Max Grav 2=440 (LC 1), 3=104 (LC 16), 4=310 (LC 16), 5=286 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/94, 2-3=-127/14, 3-4=-73/55, 4-5=-49/78, 5-6=-44/0

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; 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) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 0 degree rotation about its center.
- 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3, 4, 5.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 3, 44 lb uplift at joint 2, 64 lb uplift at joint 4 and 58 lb uplift at joint 5.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 48 lb down and 137 lb up at 2-9-8, and 64 lb down and 34 lb up at 5-7-7, and 58 lb down and 33 lb up at 8-5-6 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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: 1-6=-80
Concentrated Loads (lb)
Vert: 3=47 (F)



February 17, 2025

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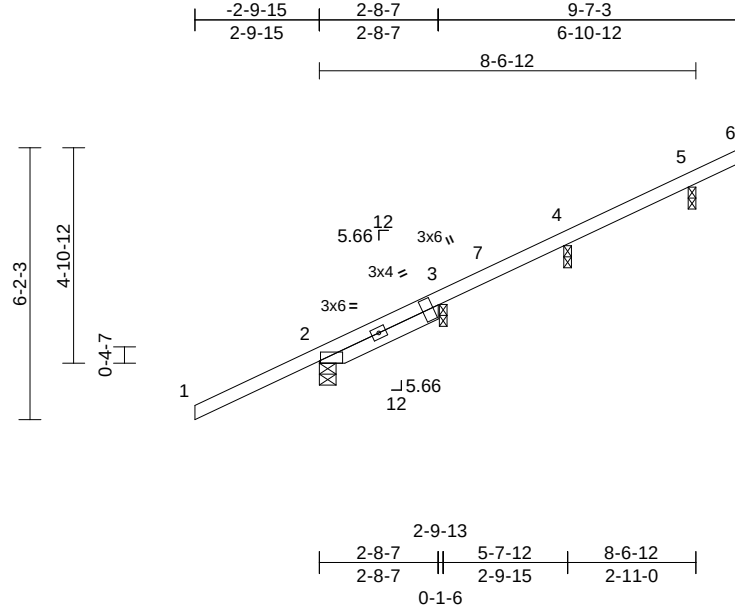
Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730582
4448984	R03	Corner Rafter	8	1	Job Reference (optional)	

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

Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 17 10:17:34

Page: 1

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Scale = 1:52.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.01	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.00	Vert(CT)	-0.02	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 22 lb	FT = 10%

LUMBER

TOP CHORD 2x4 DF 1800F 1.6E *Except* 2-3:2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-4-9, 3=0-2-2, 4=0-2-2, 5=0-2-2
Max Horiz 2=147 (LC 10)
Max Uplift 2=-42 (LC 10), 3=-60 (LC 10), 4=-63 (LC 10), 5=-62 (LC 10)
Max Grav 2=440 (LC 1), 3=98 (LC 16), 4=298 (LC 16), 5=323 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/94, 2-3=-130/14, 3-4=-75/53, 4-5=-48/82, 5-6=-56/0

NOTES

- 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
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 0 degree rotation about its center.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 .

- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3, 4, 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 3, 42 lb uplift at joint 2, 63 lb uplift at joint 4 and 62 lb uplift at joint 5.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 48 lb down and 133 lb up at 2-9-8, and 64 lb down and 34 lb up at 5-7-7, and 60 lb down and 33 lb up at 8-5-6 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-80
Concentrated Loads (lb)
Vert: 3=47 (F)



February 17, 2025

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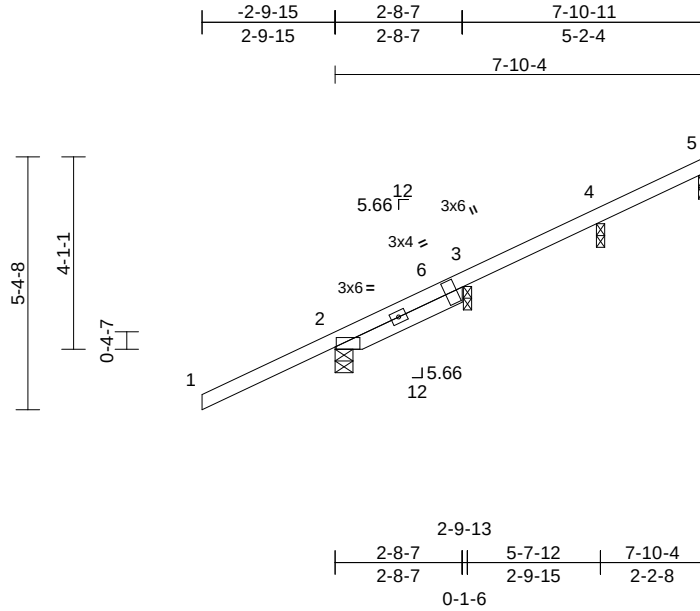
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Job	Truss	Truss Type	Qty	Ply	MKM EAST TOWN BLDG H	R86730583
4448984	R04	Corner Rafter	8	1	Job Reference (optional)	

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

Run: 8.83 E Dec 31 2024 Print: 8.830 E Dec 31 2024 MiTek Industries, Inc. Mon Feb 17 16:37:30
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Page: 1



Scale = 1:44.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.02	3-4	>999	240	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.00	Vert(CT)	-0.02	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 20 lb	FT = 10%

LUMBER

TOP CHORD 2x4 DF 1800F 1.6E *Except* 2-3:2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins.

BOT CHORD Rigid ceiling directly applied.

REACTIONS All bearings 0-2-2. except 5=0-1-8, 2=0-4-9

(lb) - Max Horiz 2=127 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 3, 4, 5

Max Grav All reactions 250 (lb) or less at joint (s) 3, 5 except 2=444 (LC 16), 4=294 (LC 16)

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

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) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 0 degree rotation about its center.
- 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5, 3, 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 5, 2, 3, 4.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 3, 4.
- 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) 3 lb down and 47 lb up at 2-9-8, and 39 lb down and 34 lb up at 5-7-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-80
Concentrated Loads (lb)
Vert: 3=47 (F)



February 17, 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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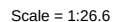


Plate Offsets (X, Y): [1:0-0-9,Edge], [1:1-5-9,0-2-0], [2:0-0-8,2-8-14]

LUMBER	
TOP CHORD	2x4 HF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-8-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied.
REACTIONS	
(size)	1=0-7-0, 2= Mechanical
Max Horiz	1=33 (LC 14)
Max Uplift	1=-16 (LC 14), 2=-32 (LC 14)
Max Grav	1=145 (LC 20), 2=145 (LC 20)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-50/50

- 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1 and 32 lb uplift at joint 2.
- 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

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCCL=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) TCCL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 0 degree rotation about its center.
- 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.



February 17, 2025



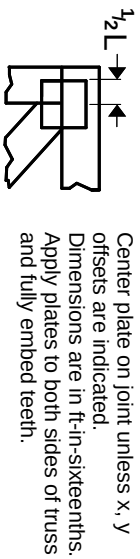
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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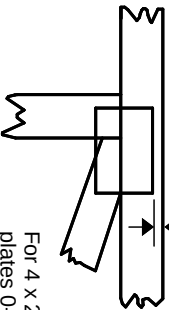
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Symbols

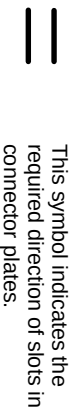
PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

PLATE SIZE

4 X 4

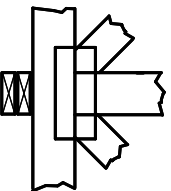
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

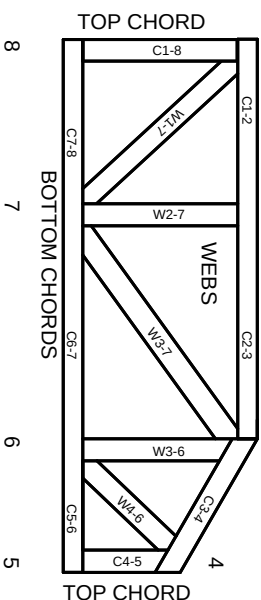
Industry Standards:

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

Numbering System



1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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