MiTek®

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

PRMU20240404

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

Re: 3907862
MKM LEGACY EAST TOWN CROSSING BLD G

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: R81482205 thru R81482267

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

CHON KELLIE PIERUCCINI
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES

XIAOMING ZHAO
STATE OF WASHINGTON
54074
REGISTERED
PROFESSIONAL ENGINEER

March 26,2024

Zhao, Xiaoming

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

City of Puyallup
Building
REVIEWED FOR COMPLIANCE
BSnowden
02/06/2025
8:57:36 AM
CITY OF PUYALLUP
STATE OF WASHINGTON

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482205
3907862	A01	Common	12	1	Job Reference (optional)

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:44 Page: 1
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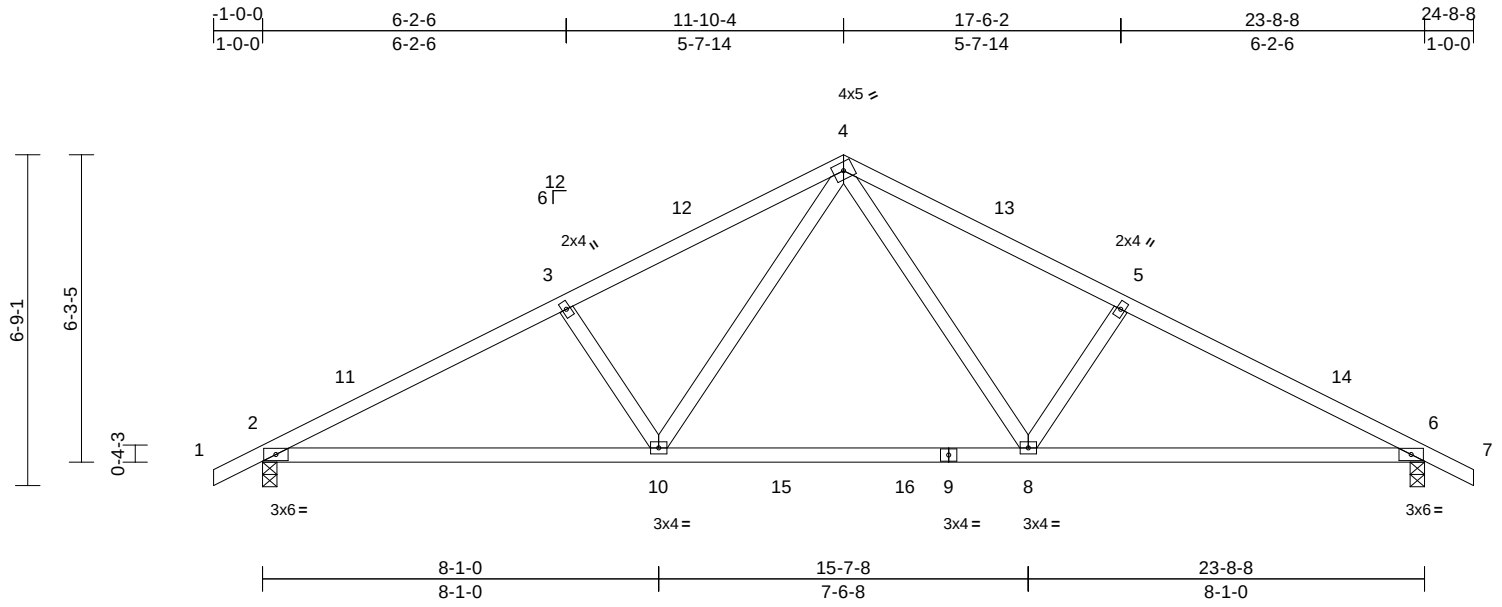
PRMU20240404



Scale = 1:47

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.14	8-10	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.30	6-8	>942	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 85 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-7 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=-73 (LC 13)
Max Uplift 2=-43 (LC 12), 6=-43 (LC 13)
Max Grav 2=1296 (LC 2), 6=1296 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-2098/105, 3-4=-1895/116, 4-5=-1895/116, 5-6=-2098/105, 6-7=0/34
BOT CHORD 2-10=-66/1812, 8-10=0/1205, 6-8=-39/1812
WEBS 4-8=-29/764, 5-8=-462/138, 4-10=-29/764, 3-10=-462/138

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 11-10-4, Exterior(2R) 11-10-4 to 14-10-4, Interior (1) 14-10-4 to 24-8-8 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
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 2 and 43 lb uplift at joint 6.
7) 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

March 26,2024

MiTek®
400 Sunrise Ave., Suite 270
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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482206
3907862	A02	Common Supported Gable	4	1	Job Reference (optional)

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

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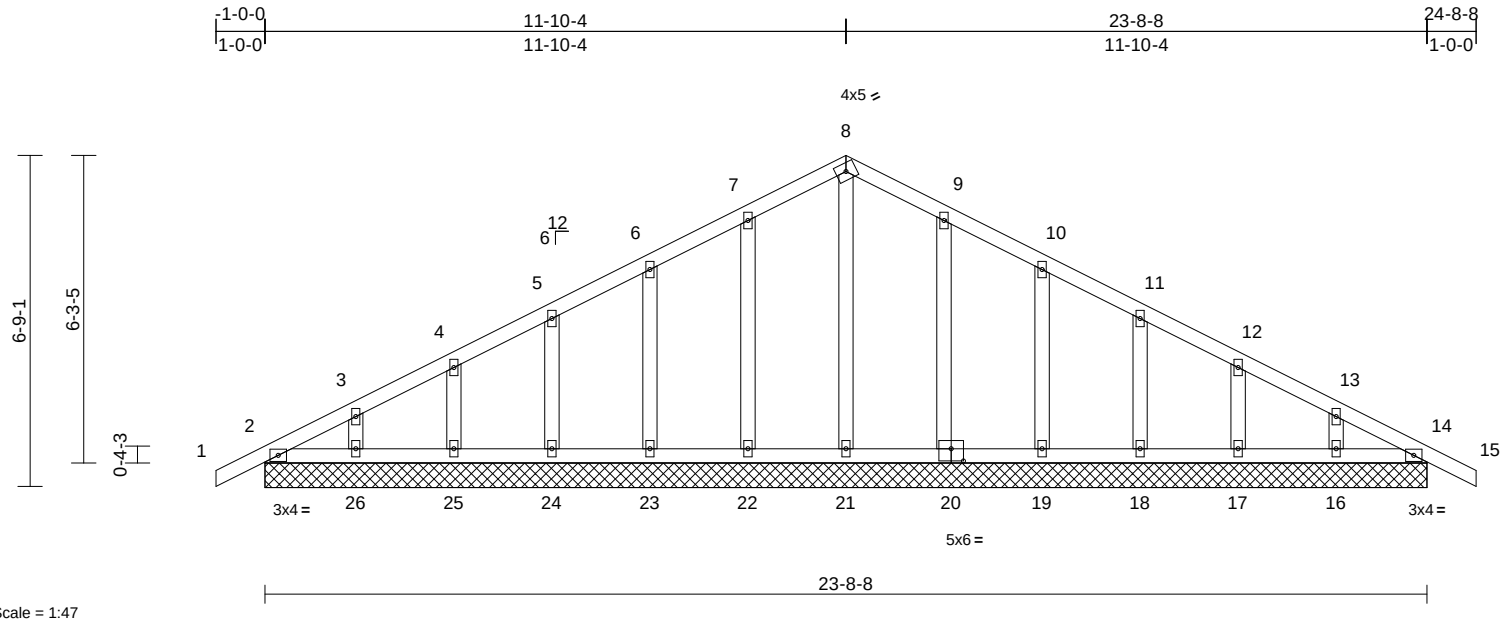
PRMU20240404



Scale = 1:47

Plate Offsets (X, Y): [20:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 100 lb	FT = 10%

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

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

REACTIONS (size) 2=23-8-8, 14=23-8-8, 16=23-8-8, 17=23-8-8, 18=23-8-8, 19=23-8-8, 20=23-8-8, 21=23-8-8, 22=23-8-8, 23=23-8-8, 24=23-8-8, 25=23-8-8, 26=23-8-8
Max Horiz 2=-73 (LC 13)
Max Uplift 2=-11 (LC 8), 14=-1 (LC 9), 16=-20 (LC 13), 17=-26 (LC 13), 18=-24 (LC 13), 19=-27 (LC 13), 20=-25 (LC 13), 22=-26 (LC 12), 23=-25 (LC 12), 24=-24 (LC 12), 25=-26 (LC 12), 26=-21 (LC 12)
Max Grav 2=187 (LC 1), 14=185 (LC 1), 16=183 (LC 26), 17=204 (LC 1), 18=200 (LC 26), 19=196 (LC 1), 20=214 (LC 26), 21=180 (LC 22), 22=211 (LC 25), 23=199 (LC 1), 24=199 (LC 25), 25=204 (LC 1), 26=183 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-95/40, 3-4=-80/48, 4-5=-65/56, 5-6=-55/73, 6-7=-56/101, 7-8=-75/133, 8-9=-75/133, 9-10=-54/99, 10-11=-48/66, 11-12=-48/34, 12-13=-53/30, 13-14=-68/28, 14-15=0/34
BOT CHORD 2-26=-34/78, 25-26=-34/78, 24-25=-34/78, 23-24=-34/78, 22-23=-34/78, 21-22=-34/78, 19-21=-35/79, 18-19=-35/79, 17-18=-35/79, 16-17=-35/79, 14-16=-35/79
WEBS 8-21=-138/16, 7-22=-172/55, 6-23=-158/57, 5-24=-160/55, 4-25=-162/57, 3-26=-149/63, 9-20=-174/55, 10-19=-159/57, 11-18=-160/55, 12-17=-162/57, 13-16=-149/63

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 1-10-4, Exterior(2N) 1-10-4 to 11-10-4, Corner(3R) 11-10-4 to 14-10-4, Exterior(2N) 14-10-4 to 24-8-8 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
3) 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.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 25 lb uplift at joint 20, 26 lb uplift at joint 22, 25 lb uplift at joint 23, 24 lb uplift at joint 24, 26 lb uplift at joint 25, 21 lb uplift at joint 26, 27 lb uplift at joint 19, 24 lb uplift at joint 18, 26 lb uplift at joint 17, 20 lb uplift at joint 16 and 1 lb uplift at joint 14.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482207
3907862	B01	Common Supported Gable	4	1	Job Reference (optional)

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

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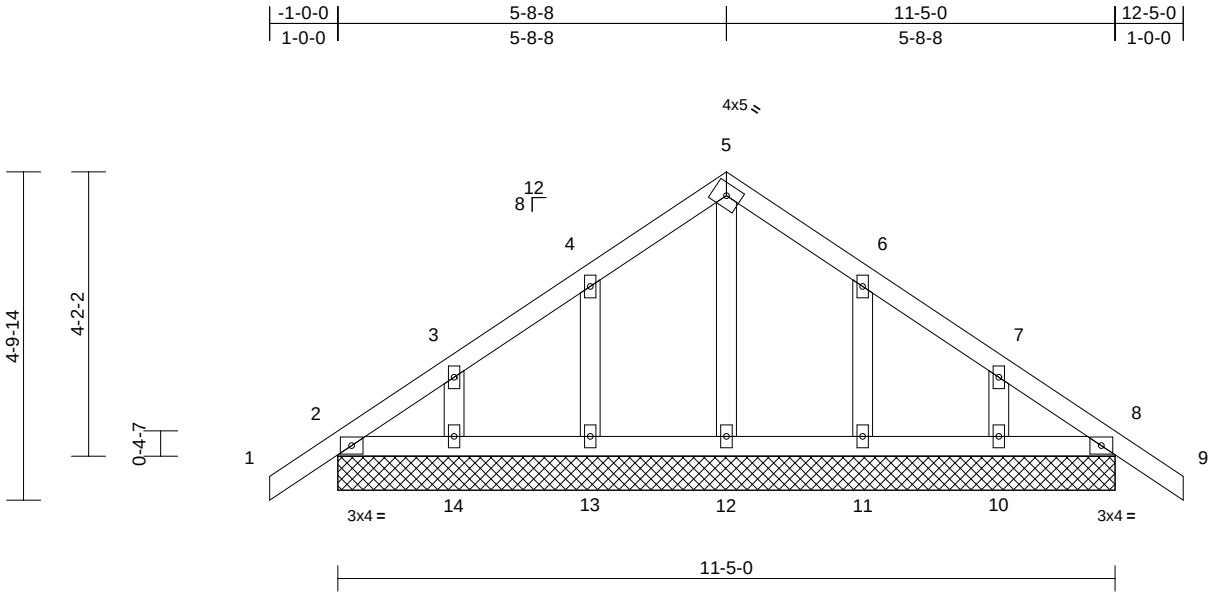

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 44 lb	FT = 10%

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

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

REACTIONS (size) 2=11-5-0, 8=11-5-0, 10=11-5-0, 11=11-5-0, 12=11-5-0, 13=11-5-0, 14=11-5-0
Max Horiz 2=75 (LC 11)
Max Uplift 2=-8 (LC 13), 8=-6 (LC 13), 10=-27 (LC 13), 11=-40 (LC 13), 13=-40 (LC 12), 14=-28 (LC 12)
Max Grav 2=188 (LC 1), 8=188 (LC 1), 10=169 (LC 1), 11=219 (LC 26), 12=157 (LC 1), 13=219 (LC 25), 14=169 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/42, 2-3=-87/54, 3-4=-80/46, 4-5=-76/98, 5-6=-72/98, 6-7=-64/39, 7-8=-69/28, 8-9=0/42
BOT CHORD 2-14=-27/80, 13-14=-27/80, 12-13=-27/80, 11-12=-27/80, 10-11=-27/80, 8-10=-27/80
WEBS 5-12=-118/2, 4-13=-176/91, 3-14=-140/80, 6-11=-176/90, 7-10=-140/80

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 1-8-8, Exterior(2N) 1-8-8 to 5-8-8, Corner(3R) 5-8-8 to 8-8-8, Exterior(2N) 8-8-8 to 12-5-0 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
3) 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.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 2, 6 lb uplift at joint 8, 40 lb uplift at joint 13, 28 lb uplift at joint 14, 40 lb uplift at joint 11 and 27 lb uplift at joint 10.
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

XIAOMING ZHAO
STATE OF WASHINGTON
54074
REGISTERED
PROFESSIONAL ENGINEER

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482208
3907862	B02	Common	8	1	Job Reference (optional)

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

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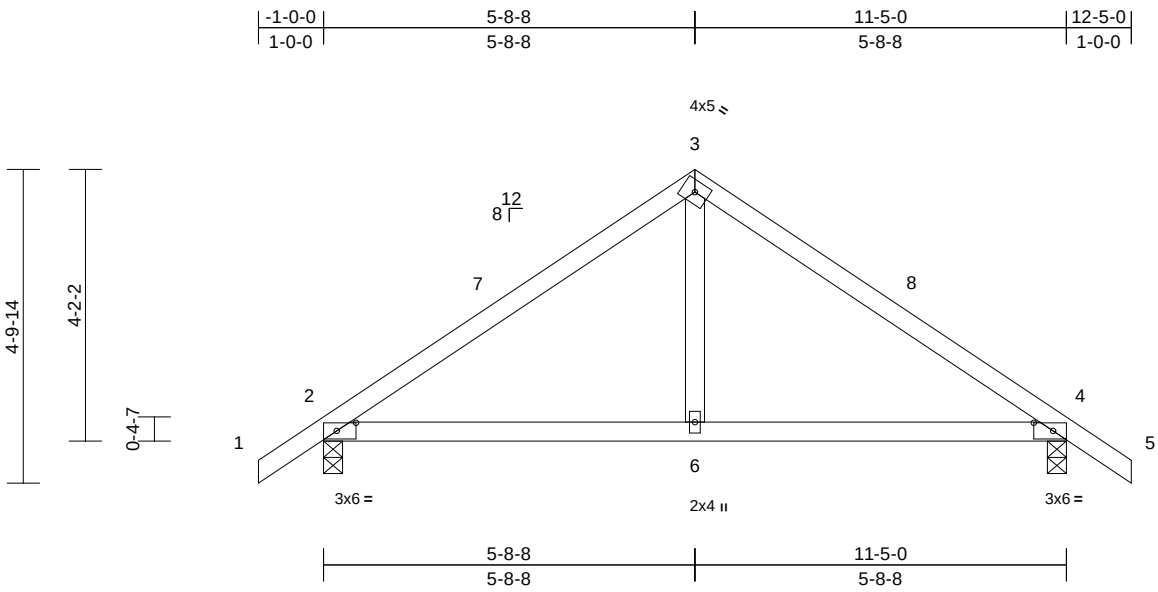

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Plate Offsets (X, Y): [2:0-3-9,0-1-8], [4:0-3-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.03	4-6	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.07	4-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 37 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 5-9-0 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=-75 (LC 10)
Max Uplift 2=-26 (LC 12), 4=-26 (LC 13)
Max Grav 2=648 (LC 1), 4=648 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/43, 2-3=-679/63, 3-4=-679/63, 4-5=0/43
BOT CHORD 2-6=0/452, 4-6=0/452
WEBS 3-6=0/276

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-8-8, Exterior(2R) 5-8-8 to 8-8-8, Interior (1) 8-8-8 to 12-5-0 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
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2 and 26 lb uplift at joint 4.
7) 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

March 26,2024

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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482209
3907862	C01	Common	16	1	Job Reference (optional)

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

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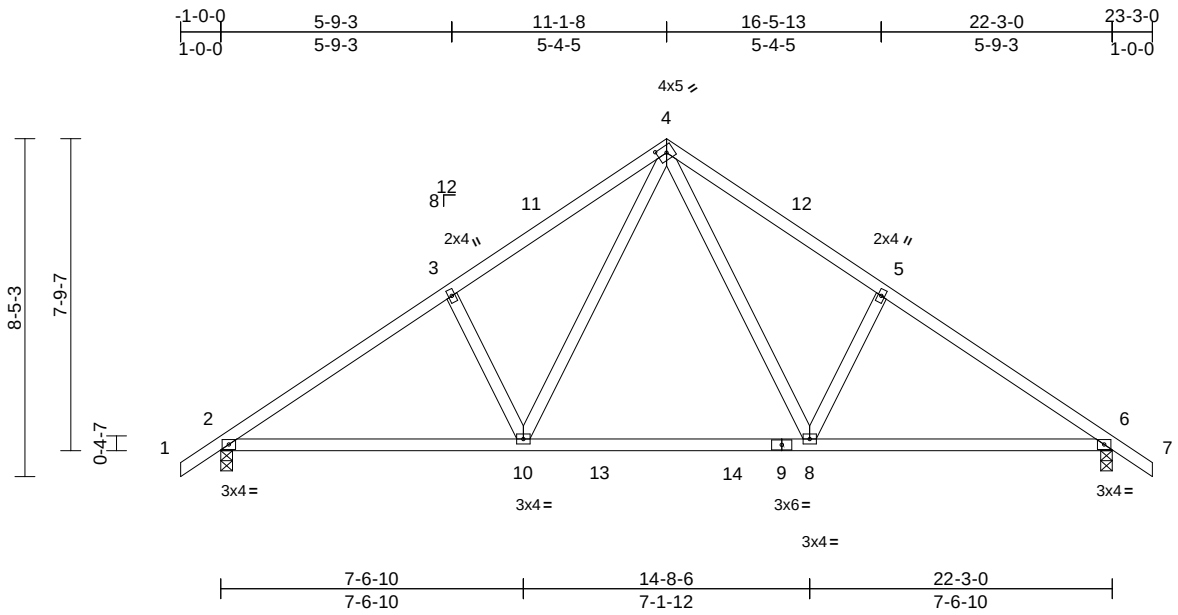

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Plate Offsets (X, Y): [4:0-2-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.11	8-10	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.20	2-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 88 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 3-11-2 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=136 (LC 11)
Max Uplift 2=-35 (LC 12), 6=-35 (LC 13)
Max Grav 2=1260 (LC 19), 6=1260 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/43, 2-3=-1652/46, 3-4=-1517/90, 4-5=-1517/90, 5-6=-1652/46, 6-7=0/43
BOT CHORD 2-10=-53/1391, 8-10=0/910, 6-8=0/1303
WEBS 4-8=-53/726, 5-8=-403/148, 4-10=-53/726, 3-10=-403/148

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 11-1-8, Exterior(2R) 11-1-8 to 14-1-8, Interior (1) 14-1-8 to 23-3-0 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
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 6.
7) 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

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482210
3907862	C02	Common	4	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:46 Page: 1

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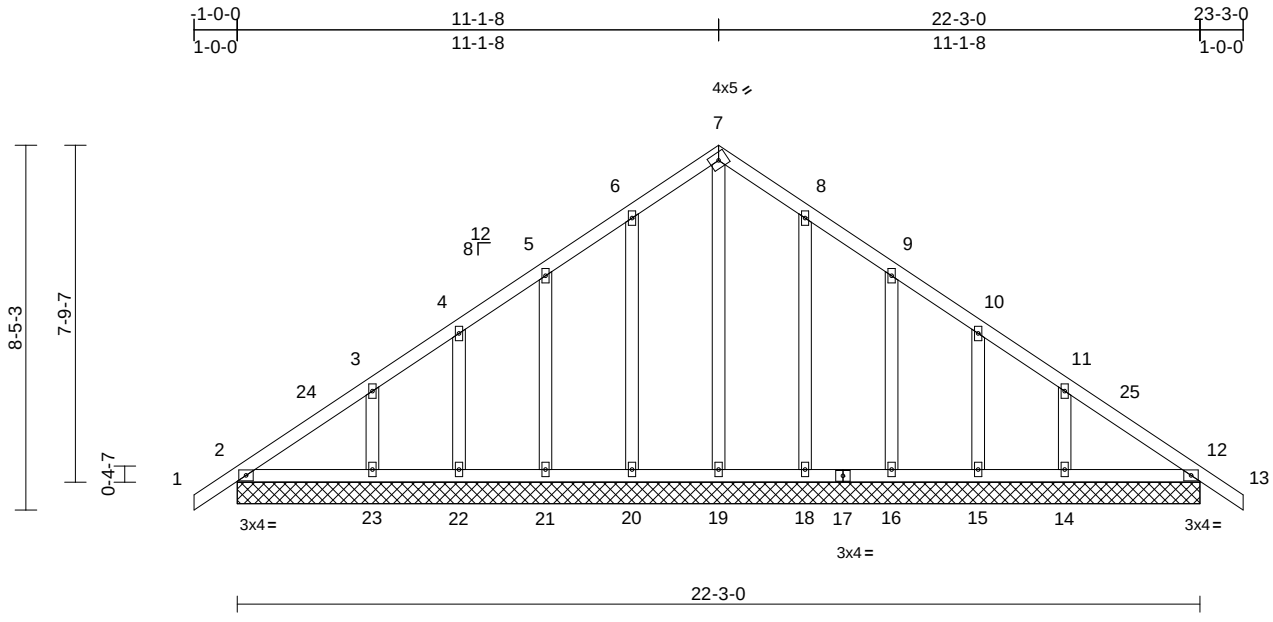

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 105 lb	FT = 10%

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

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

REACTIONS (size) 2=22-3-0, 12=22-3-0, 14=22-3-0, 15=22-3-0, 16=22-3-0, 18=22-3-0, 19=22-3-0, 20=22-3-0, 21=22-3-0, 22=22-3-0, 23=22-3-0
Max Horiz 2=136 (LC 11)
Max Uplift 2=-12 (LC 8), 14=-51 (LC 13), 15=-30 (LC 13), 16=-38 (LC 13), 18=-34 (LC 13), 20=-35 (LC 12), 21=-37 (LC 12), 22=-30 (LC 12), 23=-51 (LC 12)
Max Grav 2=237 (LC 1), 12=237 (LC 1), 14=295 (LC 26), 15=167 (LC 26), 16=207 (LC 1), 18=209 (LC 26), 19=190 (LC 22), 20=209 (LC 25), 21=207 (LC 1), 22=167 (LC 25), 23=295 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/42, 2-3=-143/112, 3-4=-118/75, 4-5=-100/75, 5-6=-93/101, 6-7=-96/136, 7-8=-96/136, 8-9=-72/96, 9-10=-65/52, 10-11=-81/26, 11-12=-117/73, 12-13=0/42
BOT CHORD 2-23=-52/101, 22-23=-52/101, 21-22=-52/101, 20-21=-52/101, 19-20=-52/101, 18-19=-52/101, 16-18=-52/101, 15-16=-52/101, 14-15=-52/101, 12-14=-52/101
WEBS 7-19=-149/43, 6-20=-170/59, 5-21=-164/62, 4-22=-138/52, 3-23=-224/81, 8-18=-170/57, 9-16=-164/62, 10-15=-138/52, 11-14=-224/81

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 11-1-8, Corner(3R) 11-1-8 to 14-1-8, Exterior(2N) 14-1-8 to 23-3-0 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
3) 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.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 2, 35 lb uplift at joint 20, 37 lb uplift at joint 21, 30 lb uplift at joint 22, 51 lb uplift at joint 23, 34 lb uplift at joint 18, 38 lb uplift at joint 16, 30 lb uplift at joint 15 and 51 lb uplift at joint 14.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482211
3907862	D01	Common	6	1	Job Reference (optional)

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:46
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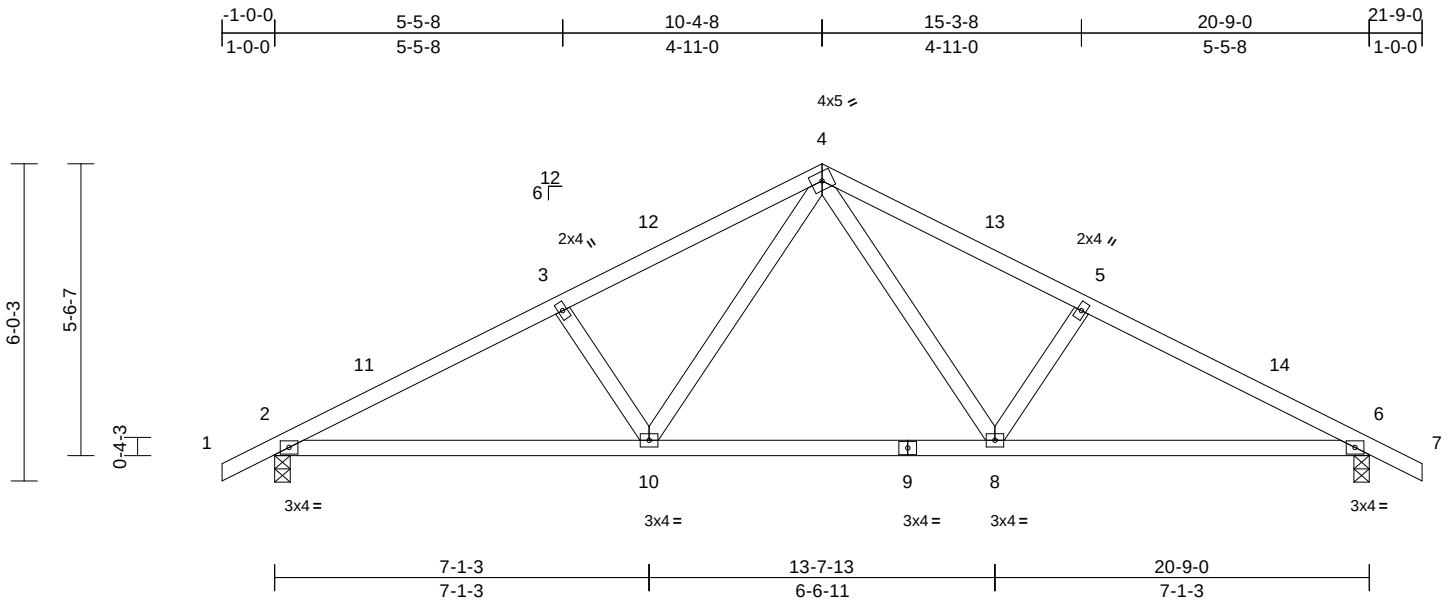

Scale = 1:43.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.07	6-8	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.17	6-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 75 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 3-10-4 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=-65 (LC 13)
Max Uplift 2=-40 (LC 12), 6=-40 (LC 13)
Max Grav 2=1115 (LC 1), 6=1115 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-1781/115, 3-4=-1553/124, 4-5=-1553/124, 5-6=-1781/115, 6-7=0/34
BOT CHORD 2-10=-55/1505, 8-10=0/1003, 6-8=-50/1505
WEBS 4-8=-25/574, 5-8=-397/120, 4-10=-25/574, 3-10=-397/120

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-4-8, Exterior(2R) 10-4-8 to 13-4-8, Interior (1) 13-4-8 to 21-9-0 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
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2 and 40 lb uplift at joint 6.
7) 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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482212
3907862	D02	Common	2	1	Job Reference (optional)

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:46 ID:sxggIKWpka4vZbQaMqHYFfzZ3uX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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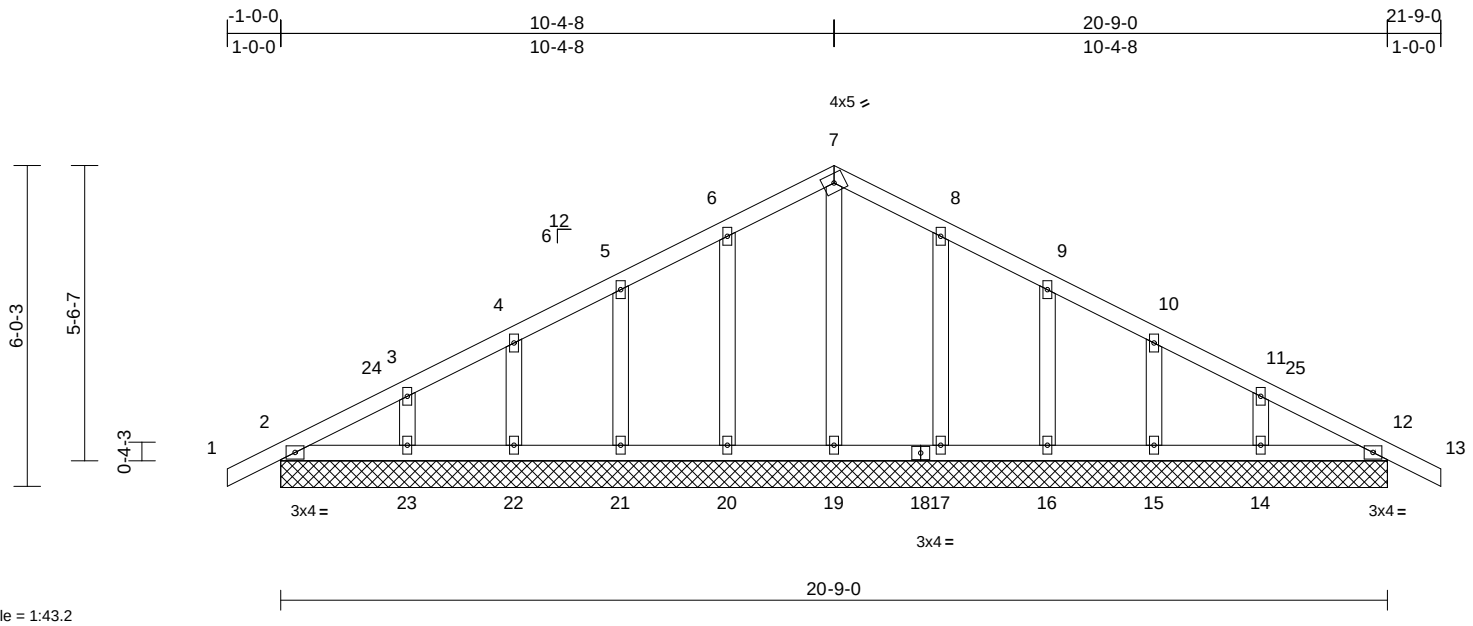

Scale = 1:43.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 83 lb	FT = 10%

LUMBER

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

BRACING

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

REACTIONS (size) 2=20-9-0, 12=20-9-0, 14=20-9-0, 15=20-9-0, 16=20-9-0, 17=20-9-0, 19=20-9-0, 20=20-9-0, 21=20-9-0, 22=20-9-0, 23=20-9-0
Max Horiz 2=-65 (LC 17)
Max Uplift 2=-7 (LC 13), 12=-6 (LC 13), 14=-26 (LC 13), 15=-25 (LC 13), 16=-25 (LC 13), 17=-26 (LC 13), 20=-27 (LC 12), 21=-25 (LC 12), 22=-25 (LC 12), 23=-26 (LC 12)
Max Grav 2=204 (LC 1), 12=204 (LC 1), 14=226 (LC 26), 15=193 (LC 26), 16=200 (LC 1), 17=211 (LC 26), 19=174 (LC 22), 20=211 (LC 25), 21=200 (LC 1), 22=193 (LC 25), 23=226 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/34, 2-3=-91/47, 3-4=-68/47, 4-5=-54/59, 5-6=-50/86, 6-7=-65/118, 7-8=-65/118, 8-9=-50/86, 9-10=-51/52, 10-11=-53/26, 11-12=-70/33, 12-13=0/34
BOT CHORD 2-23=-30/72, 22-23=-30/72, 21-22=-30/72, 20-21=-30/72, 19-20=-30/72, 17-19=-30/72, 16-17=-30/72, 15-16=-30/72, 14-15=-30/72, 12-14=-30/72
WEBS 7-19=-134/8, 6-20=-172/57, 5-21=-159/58, 4-22=-155/55, 3-23=-178/72, 8-17=-172/57, 9-16=-159/58, 10-15=-155/55, 11-14=-178/72

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-4-8, Corner(3R) 10-4-8 to 13-4-8, Exterior(2N) 13-4-8 to 21-9-0 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
3) 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.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 12, 27 lb uplift at joint 20, 25 lb uplift at joint 21, 25 lb uplift at joint 22, 26 lb uplift at joint 23, 26 lb uplift at joint 17, 25 lb uplift at joint 16, 25 lb uplift at joint 15, 26 lb uplift at joint 14 and 7 lb uplift at joint 2.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482213
3907862	M01	Monopitch Supported Gable	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:46 Page: 1

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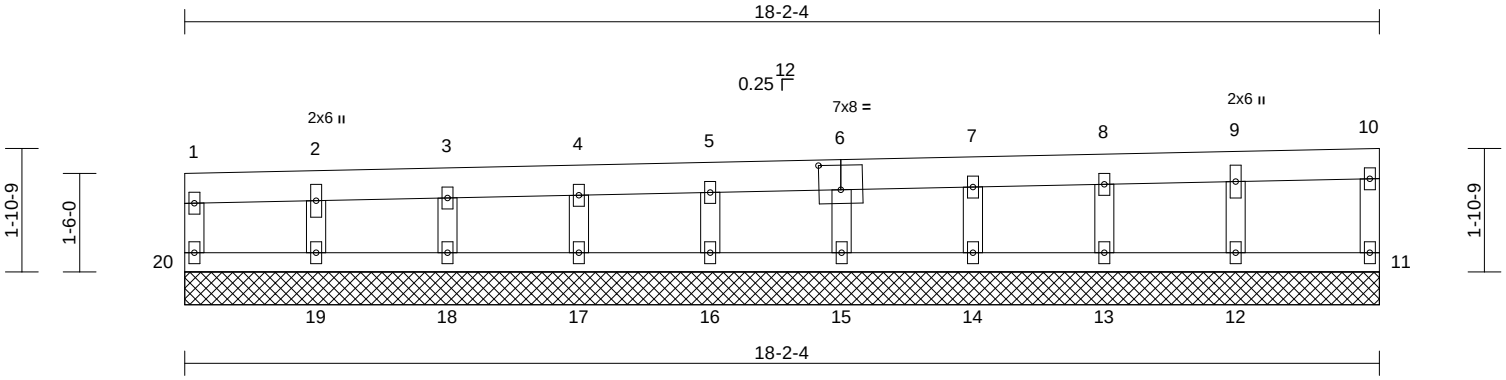

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Plate Offsets (X, Y): [6:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.21	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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=-39 (LC 12), 12=-108 (LC 8), 13=-94 (LC 12), 14=-96 (LC 8), 15=-95 (LC 12), 16=-95 (LC 8), 17=-95 (LC 12), 18=-96 (LC 8), 19=-96 (LC 12), 20=-41 (LC 8)

Max Grav 11=694 (LC 1), 12=1808 (LC 1), 13=1596 (LC 1), 14=1640 (LC 1), 15=1627 (LC 1), 16=1621 (LC 1), 17=1630 (LC 1), 18=1622 (LC 1), 19=1701 (LC 1), 20=628 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-20=-609/186, 1-2=-52/18, 2-3=-58/21, 3-4=-58/23, 4-5=-58/25, 5-7=-57/27, 7-8=-45/27, 8-9=-44/28, 9-10=-47/32, 10-11=-675/207

BOT CHORD 19-20=-37/60, 18-19=-37/60, 17-18=-37/60, 16-17=-37/60, 15-16=-37/60, 14-15=-33/49, 13-14=-33/49, 12-13=-33/49, 11-12=-33/49

WEBS 2-19=-1663/512, 3-18=-1582/470, 4-17=-1590/472, 5-16=-1581/469, 6-15=-1587/471, 7-14=-1600/474, 8-13=-1557/463, 9-12=-1765/523

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) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
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 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 20, 39 lb uplift at joint 11, 96 lb uplift at joint 19, 96 lb uplift at joint 18, 95 lb uplift at joint 17, 95 lb uplift at joint 16, 95 lb uplift at joint 15, 96 lb uplift at joint 14, 94 lb uplift at joint 13 and 108 lb uplift at joint 12.
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

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-10=-794, 11-20=-20

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482214
3907862	M02	Monopitch Structural Gable	2	1	Job Reference (optional)

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

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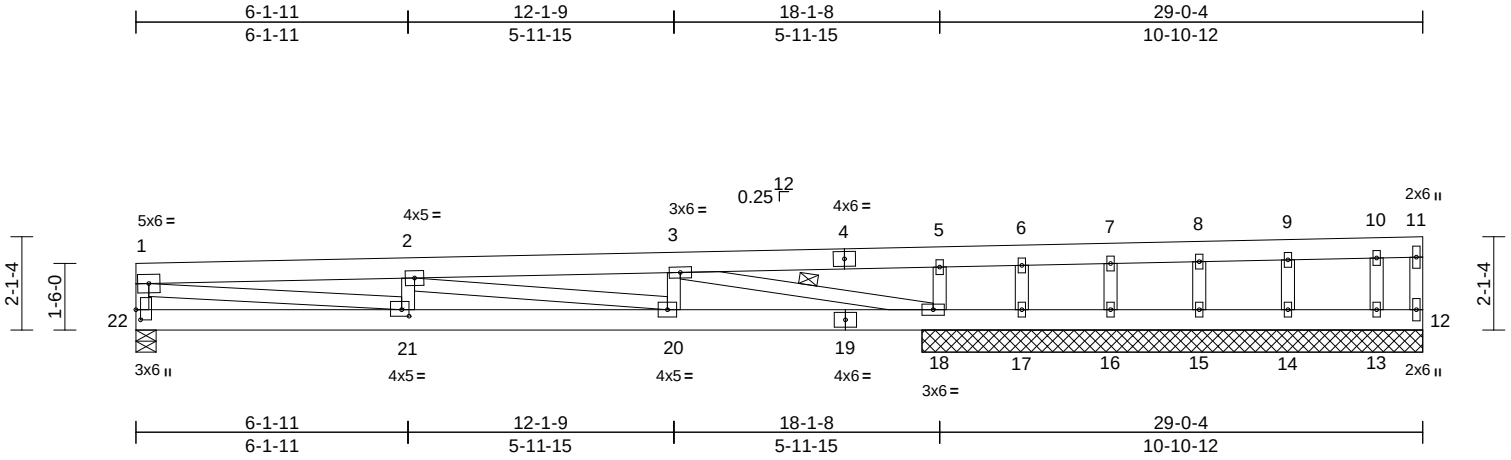

Scale = 1:52

Plate Offsets (X, Y): [21:0-2-0,0-1-12], [22:0-2-12,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.15	20-21	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.31	20-21	>700	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	18	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 155 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-5-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-18

REACTIONS (size) 12=11-3-8, 13=11-3-8, 14=11-3-8, 15=11-3-8, 16=11-3-8, 17=11-3-8, 18=11-3-8, 22=0-5-8
Max Horiz 22=41 (LC 11)
Max Uplift 12=-177 (LC 1), 13=-20 (LC 8), 14=-12 (LC 12), 15=-11 (LC 8), 16=-18 (LC 12), 17=-557 (LC 1), 18=-96 (LC 12), 22=-49 (LC 8)
Max Grav 12=10 (LC 8), 13=367 (LC 1), 14=209 (LC 1), 15=166 (LC 1), 16=356 (LC 1), 17=29 (LC 12), 18=1673 (LC 1), 22=837 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-22=-725/173, 1-2=-2661/487, 2-3=-2139/400, 3-5=-44/109, 5-6=-39/97, 6-7=-39/106, 7-8=-37/104, 8-9=-36/105, 9-10=-34/104, 10-11=-32/101, 11-12=-10/69
BOT CHORD	21-22=-122/326, 20-21=-533/2655, 18-20=-421/2135, 17-18=-103/41, 16-17=-103/41, 15-16=-103/41, 14-15=-103/41, 13-14=-103/41, 12-13=-103/41
WEBS	2-21=-342/166, 3-20=0/249, 5-18=-734/216, 3-18=-2289/435, 2-20=-530/114, 1-21=-438/2364, 6-17=-39/243, 7-16=-230/78, 8-15=-147/58, 9-14=-173/65, 10-13=-214/65

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) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 22, 177 lb uplift at joint 12, 96 lb uplift at joint 18, 557 lb uplift at joint 17, 18 lb uplift at joint 16, 11 lb uplift at joint 15, 12 lb uplift at joint 14 and 20 lb uplift at joint 13.
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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482215
3907862	M03	Monopitch Girder	8	1	Job Reference (optional)

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:46 ID:MkM3FijYH1wdFiHmq?02iZzZ4OY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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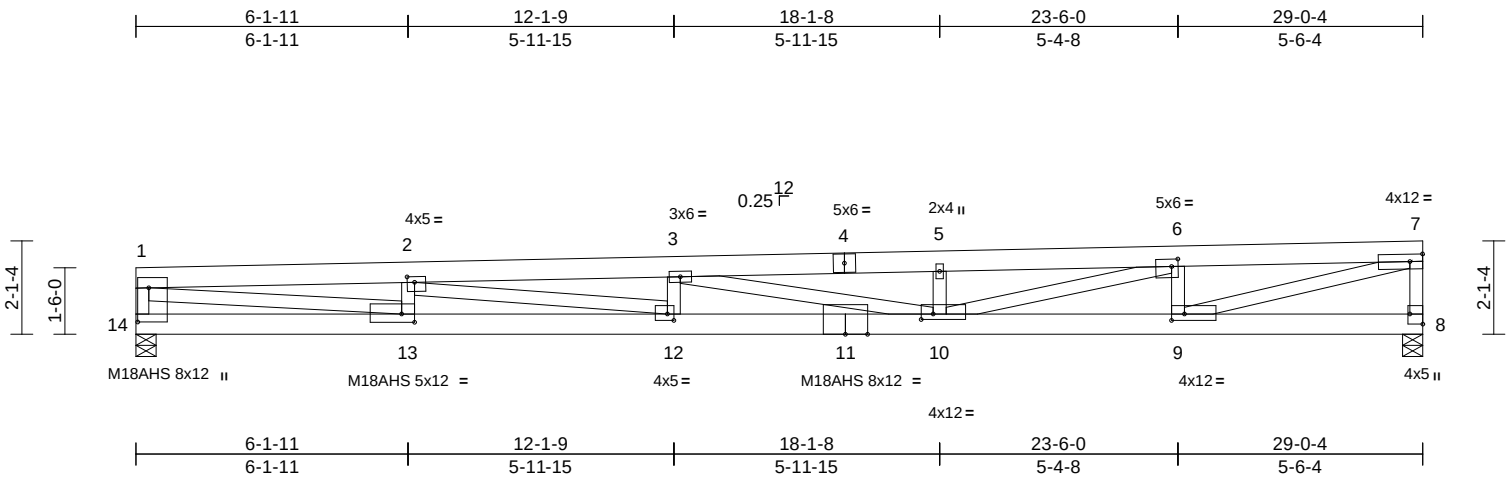

Scale = 1:52

Plate Offsets (X, Y): [2:0-2-0,0-1-8], [6:0-1-12,0-2-0], [7:0-3-7,0-2-0], [8:Edge,0-3-8], [9:0-3-8,0-1-12], [10:0-3-4,0-1-8], [12:0-1-12,0-1-12], [13:0-3-8,0-2-4], [14:0-9-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.63	10-12	>548	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-1.32	10-12	>261	180	M18AHS	169/162
BCLL	0.0*	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 163 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 1-13:2x4 DF 1800F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-11 oc bracing.

REACTIONS (size) 8=0-5-8, 14=0-5-8
Max Horiz 14=41 (LC 11)
Max Uplift 8=-243 (LC 12), 14=-179 (LC 8)
Max Grav 8=1596 (LC 1), 14=1532 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-1374/365, 1-2=-6014/1478, 2-3=-8382/2237, 3-5=-7885/2331, 5-6=-7884/2335, 6-7=-4625/1319, 7-8=-1493/438
BOT CHORD 13-14=-187/529, 12-13=-1526/6006, 10-12=-2271/8376, 9-10=-1320/4620, 8-9=-60/178
WEBS 5-10=-433/210, 1-13=-1375/5560, 2-13=-938/341, 2-12=-773/2508, 3-12=-346/209, 3-10=-826/686, 6-10=-1072/3424, 6-9=-1271/452, 7-9=-1318/4645

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) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 14 and 243 lb uplift at joint 8.
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) 258 lb down and 127 lb up at 18-1-8, and 259 lb down and 126 lb up at 18-1-8 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 + Roof Live (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=-256 (F=-128, B=-127)

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482216
3907862	M04	Monopitch Girder	10	1	Job Reference (optional)

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

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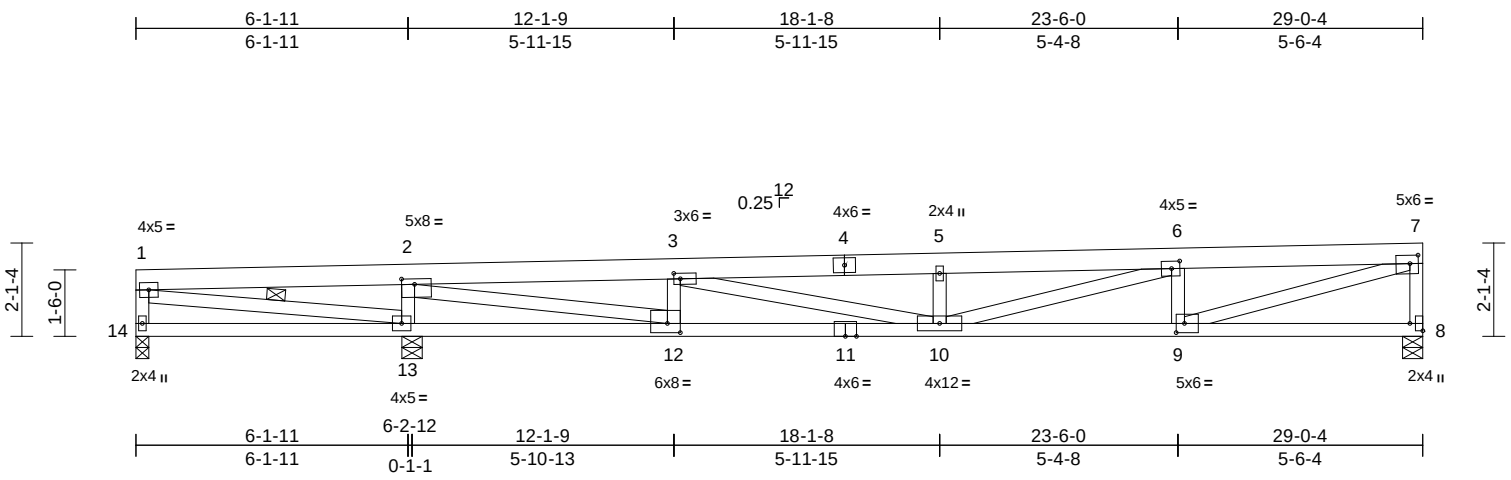

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Plate Offsets (X, Y): [2:0-3-8,0-1-8], [3:0-1-12,0-1-8], [6:0-2-4,0-2-0], [7:0-2-4,0-2-4], [8:Edge,0-3-8], [9:0-2-4,0-2-8], [12:0-3-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.28	10-12	>966	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.59	10-12	>461	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 135 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 3-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-2-3 oc bracing.
WEBS 1 Row at midpt 1-13

REACTIONS (size) 8=0-5-8, 13=0-5-8, 14=0-3-8
Max Horiz 14=43 (LC 11)
Max Uplift 8=-179 (LC 12), 13=-308 (LC 12), 14=-208 (LC 2)
Max Grav 8=1147 (LC 1), 13=2153 (LC 1), 14=64 (LC 12)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-49/238, 1-2=-489/1580, 2-3=-2605/749, 3-5=-4653/1480, 5-6=-4653/1485, 6-7=-2979/887, 7-8=-1085/333
BOT CHORD 13-14=-95/63, 12-13=-1573/487, 10-12=-761/2596, 9-10=-882/2976, 8-9=-31/97
WEBS 6-9=-826/344, 5-10=-481/209, 3-12=-781/330, 2-13=-1693/535, 7-9=-893/3030, 6-10=-633/1747, 3-10=-746/2116, 2-12=-1230/4249, 1-13=-1542/478

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 14, 179 lb uplift at joint 8 and 308 lb uplift at joint 13.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 258 lb down and 127 lb up at 18-1-8, and 258 lb down and 127 lb up at 18-1-8 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
9) 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 + Roof Live (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)

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482217
3907862	M05	Monopitch Girder	2	**2**	Job Reference (optional)

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

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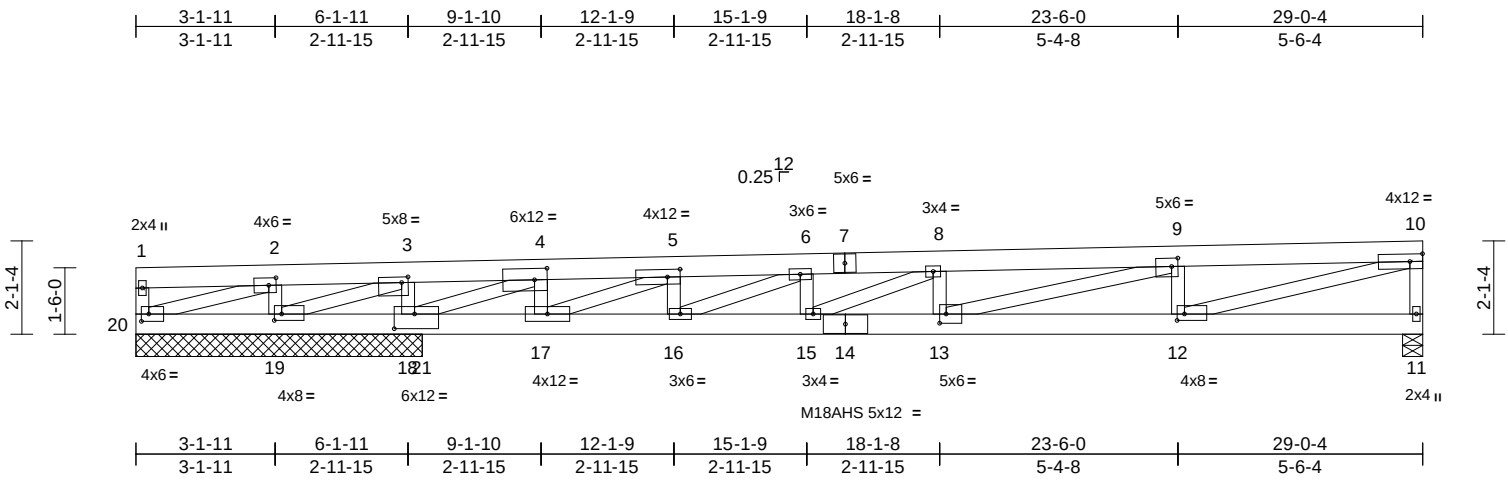

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Plate Offsets (X, Y): [2:0-2-0,0-2-0], [3:0-1-12,0-1-8], [4:0-3-7,0-3-1], [5:0-3-7,0-2-1], [9:0-1-12,0-2-4], [10:0-3-7,0-2-1], [12:0-2-0,0-1-12], [13:0-1-12,0-2-8], [18:0-5-8,0-4-0], [19:0-2-0,0-1-12], [20:0-2-0,0-2-0]

Loading	(psf)	**Spacing**	2-0-0	**CSI**		**DEFL**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.33	13-15	>825	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.67	13-15	>409	180	M18AHS	169/162
BCLL	0.0*	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 329 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-11-5 oc bracing.

REACTIONS (size) 11=0-5-8, 18=6-5-8, 19=6-5-8, 20=6-5-8
Max Horiz 20=48 (LC 32)
Max Uplift 11=-252 (LC 38), 18=-1118 (LC 38), 19=-868 (LC 1), 20=-571 (LC 1)
Max Grav 11=2552 (LC 1), 18=14725 (LC 1), 19=131 (LC 30), 20=233 (LC 38)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-192/264, 2-3=-1282/5220, 3-4=-3114/13145, 4-5=-770/533, 5-6=-11281/2612, 6-8=-15792/3506, 8-9=-14484/3275, 9-10=-7979/1807, 1-20=-1115/231
BOT CHORD 19-20=-5176/1485, 18-19=-13137/3521, 17-18=-829/1054, 16-17=-2823/11259, 15-16=-3635/15766, 13-15=-3346/14479, 12-13=-1802/7973, 11-12=0/0
WEBS 10-11=-2479/585, 3-18=-7097/1598, 5-16=-471/2167, 8-13=-1785/531, 9-12=-2240/607, 10-12=-1885/8338, 9-13=-1604/6796, 2-20=-1549/5410, 4-17=-766/3730, 4-18=-14542/3031, 5-17=-11924/2509, 2-19=-3347/836, 3-19=-2198/8546, 6-15=-592/279, 6-16=-4947/1205, 8-15=-533/1473

NOTES

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 0-4-0 oc, Except member 8-13 2x4 - 1 row at 0-2-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) 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
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 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 252 lb uplift at joint 11, 1118 lb uplift at joint 18, 571 lb uplift at joint 20 and 868 lb uplift at joint 19.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 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.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 258 lb down and 127 lb up at 18-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-8=-794, 8-10=-80, 11-20=-20
Concentrated Loads (lb)
Vert: 13=-127 (B)

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482218
3907862	M06	Monopitch	18	1	Job Reference (optional)

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

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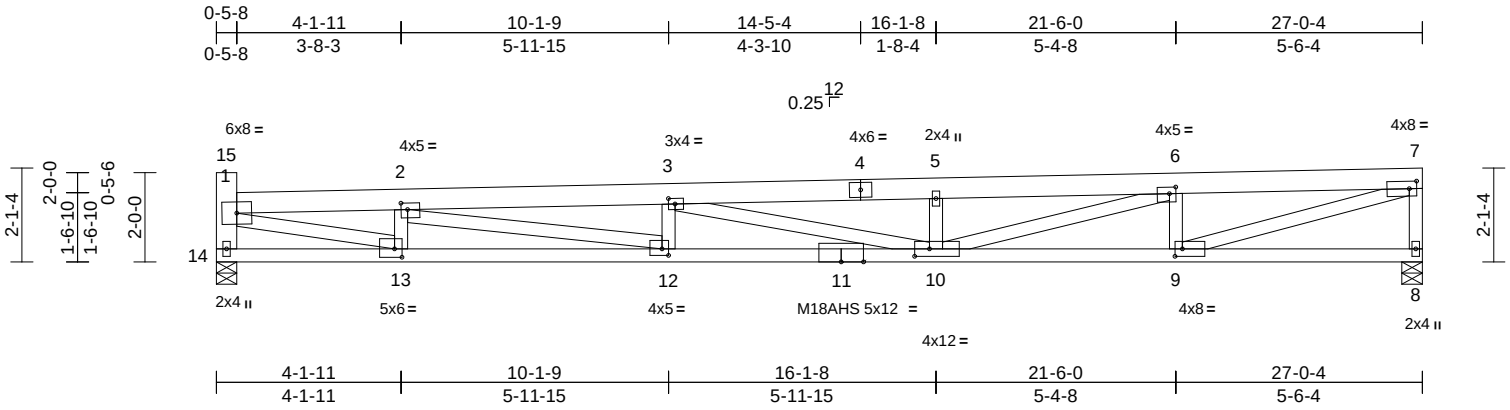

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Plate Offsets (X, Y): [2:0-1-12,0-1-12], [3:0-1-12,0-1-8], [6:0-1-12,0-1-12], [7:0-2-0,0-2-0], [9:0-2-0,0-2-0], [10:0-4-0,0-2-0], [12:0-1-12,0-1-12], [13:0-2-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.48	10-12	>677	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.97	10-12	>334	180	M18AHS	169/162
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.12	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 133 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 0-0,15-14:2x6 DF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 8=0-5-8, 14=0-5-8
Max Horiz 14=43 (LC 9)
Max Uplift 8=-80 (LC 12), 14=-74 (LC 8)
Max Grav 8=1344 (LC 1), 14=1325 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3799/789, 2-3=-6101/1230, 3-5=-5816/1162, 5-6=-5817/1167, 6-7=-3636/728, 1-14=-1341/287, 1-15=0/0
BOT CHORD 13-14=-170/479, 12-13=-809/3794, 10-12=-1246/6095, 9-10=-729/3630, 8-9=0/0
WEBS 7-8=-1293/293, 2-13=-902/267, 3-12=-372/177, 5-10=-471/181, 6-9=-1055/308, 7-9=-766/3813, 6-10=-464/2277, 3-10=-292/75, 2-12=-482/2351, 1-13=-694/3462

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) 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
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 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 14 and 80 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482219
3907862	M07	Monopitch Supported Gable	4	1	Job Reference (optional)

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

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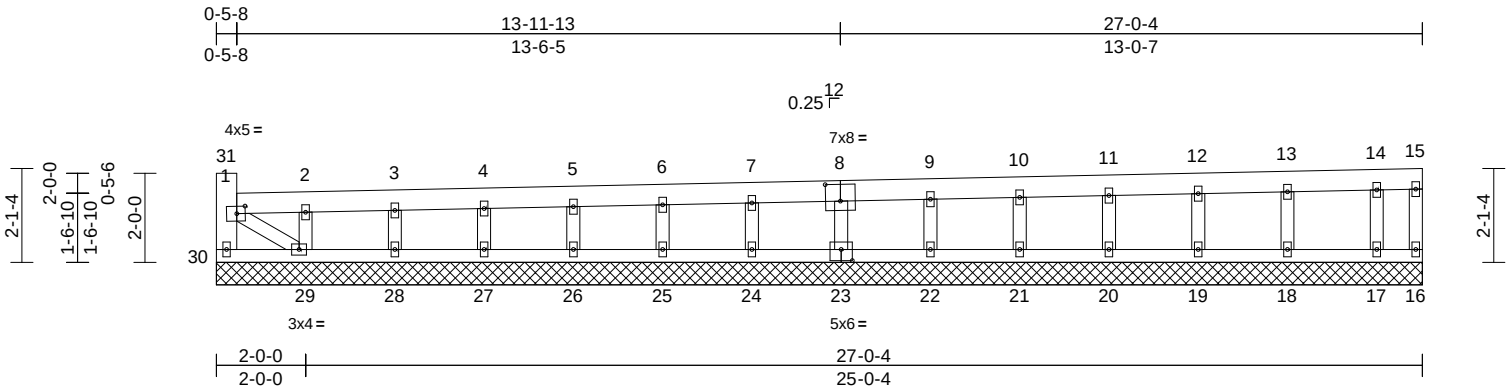

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Plate Offsets (X, Y): [1:0-2-4,0-2-0], [8:0-4-0,0-4-8], [23:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 112 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 31-30:2x6 DF No.2
OTHERS 2x4 HF No.2

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

REACTIONS (size) 16=27-0-4, 17=27-0-4, 18=27-0-4, 19=27-0-4, 20=27-0-4, 21=27-0-4, 22=27-0-4, 23=27-0-4, 24=27-0-4, 25=27-0-4, 26=27-0-4, 27=27-0-4, 28=27-0-4, 29=27-0-4, 30=27-0-4
Max Horiz 30=44 (LC 9)
Max Uplift 16=-2 (LC 8), 17=-8 (LC 12), 18=-13 (LC 8), 19=-12 (LC 12), 20=-12 (LC 8), 21=-12 (LC 12), 22=-12 (LC 8), 23=-12 (LC 12), 24=-12 (LC 8), 25=-12 (LC 12), 26=-12 (LC 8), 27=-12 (LC 12), 28=-13 (LC 8), 29=-33 (LC 12), 30=-17 (LC 8)
Max Grav 16=22 (LC 1), 17=157 (LC 1), 18=210 (LC 1), 19=198 (LC 1), 20=200 (LC 1), 21=200 (LC 1), 22=201 (LC 1), 23=200 (LC 1), 24=199 (LC 1), 25=200 (LC 1), 26=200 (LC 1), 27=200 (LC 1), 28=202 (LC 1), 29=203 (LC 1), 30=77 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-21/8, 2-3=-19/8, 3-4=-18/7, 4-5=-16/6, 5-6=-14/6, 6-7=-13/5, 7-9=-11/4, 9-10=-8/4, 10-11=-7/3, 11-12=-5/2, 12-13=-3/2, 13-14=-2/2, 14-15=-1/0, 1-30=-63/68, 1-31=0/0
BOT CHORD 29-30=-79/90, 28-29=-1/2, 27-28=-1/2, 26-27=-1/2, 25-26=-1/2, 24-25=-1/2, 22-24=-1/2, 21-22=0/0, 20-21=0/0, 19-20=0/0, 18-19=0/0, 17-18=0/0, 16-17=0/0
WEBS 15-16=-19/7, 2-29=-157/70, 3-28=-162/66, 4-27=-160/64, 5-26=-160/64, 6-25=-160/64, 7-24=-159/63, 8-23=-160/64, 9-22=-161/64, 10-21=-160/64, 11-20=-160/64, 12-19=-159/63, 13-18=-168/67, 14-17=-124/49, 1-29=-107/93

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) 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
3) 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.
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 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 16, 33 lb uplift at joint 29, 13 lb uplift at joint 28, 12 lb uplift at joint 27, 12 lb uplift at joint 26, 12 lb uplift at joint 25, 12 lb uplift at joint 24, 12 lb uplift at joint 23, 12 lb uplift at joint 22, 12 lb uplift at joint 21, 12 lb uplift at joint 20, 12 lb uplift at joint 19, 13 lb uplift at joint 18, 8 lb uplift at joint 17 and 17 lb uplift at joint 30.
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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482220
3907862	M08	Monopitch Structural Gable	2	1	Job Reference (optional)

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

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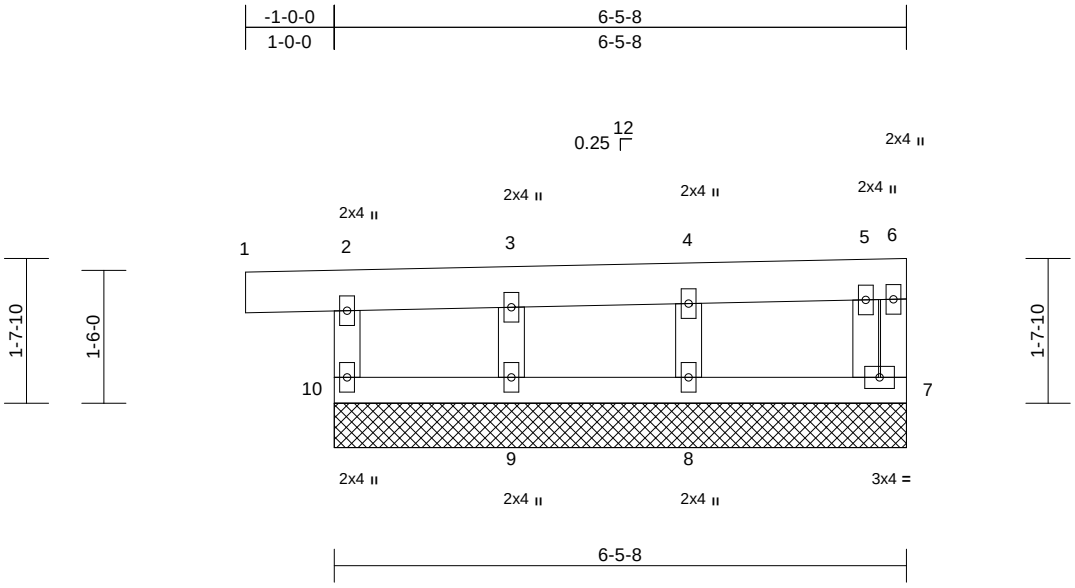

Scale = 1:26

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 28 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) 7=6-5-8, 8=6-5-8, 9=6-5-8, 10=6-5-8
Max Horiz 10=31 (LC 9)
Max Uplift 7=-5 (LC 9), 8=-23 (LC 8), 9=-1 (LC 12), 10=-49 (LC 8)
Max Grav 7=103 (LC 1), 8=235 (LC 1), 9=164 (LC 1), 10=203 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	2-10=-185/135, 1-2=0/2, 2-3=-9/6, 3-4=-8/9, 4-5=-8/11, 5-6=-7/9, 6-7=-58/51
BOT CHORD	9-10=-35/38, 8-9=-35/38, 7-8=-35/38
WEBS	3-9=-126/108, 4-8=-188/148, 5-7=-88/117

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) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
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 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 10, 5 lb uplift at joint 7, 1 lb uplift at joint 9 and 23 lb uplift at joint 8.
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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482221
3907862	M09	Monopitch	10	1	Job Reference (optional)

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

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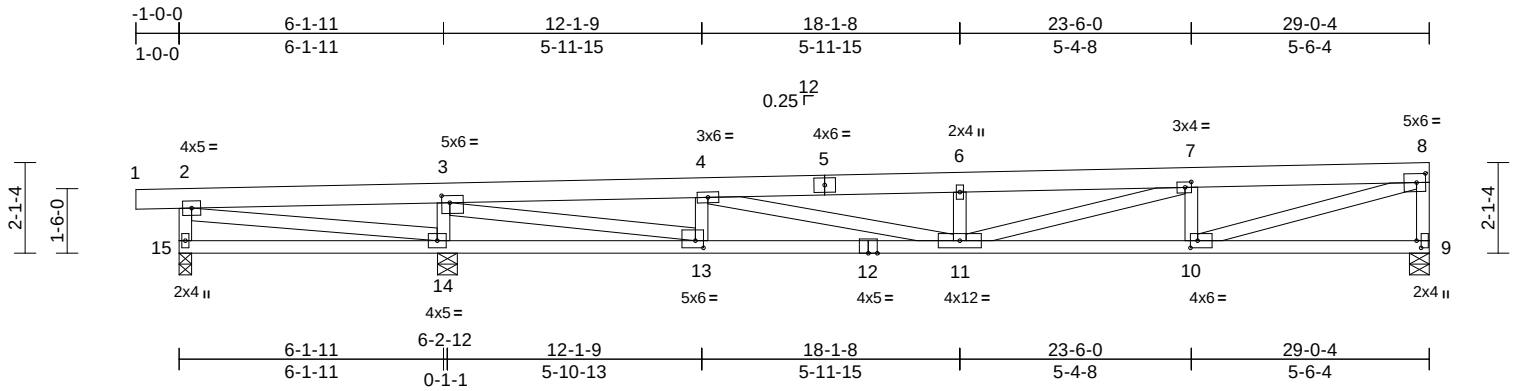

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Plate Offsets (X, Y): [3:0-2-4,0-2-0], [7:0-1-12,0-1-8], [8:0-2-8,0-2-8], [9:0-2-0,0-1-4], [10:0-2-0,0-2-0], [13:0-2-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.24	11-13	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.49	11-13	>560	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 138 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 3-7-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-4 oc bracing.

REACTIONS (size) 9=0-5-8, 14=0-5-8, 15=0-3-8
Max Horiz 15=43 (LC 11)
Max Uplift 9=-60 (LC 12), 14=-113 (LC 12), 15=-42 (LC 3)
Max Grav 9=1027 (LC 1), 14=1952 (LC 1), 15=-5 (LC 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-15=0/133, 1-2=0/2, 2-3=-267/1339, 3-4=-2283/430, 4-6=-3604/675, 6-7=-3606/680, 7-8=-2576/497, 8-9=-967/216
BOT CHORD 14-15=-73/48, 13-14=-1332/264, 11-13=-442/2275, 10-11=-491/2571, 9-10=-25/90
WEBS 3-14=-1538/384, 4-13=-666/216, 6-11=-491/178, 7-10=-700/222, 8-10=-490/2605, 7-11=-200/1075, 4-11=-247/1360, 3-13=-677/3684, 2-14=-1299/267

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 15, 60 lb uplift at joint 9 and 113 lb uplift at joint 14.
7) 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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482222
3907862	M10	Monopitch Girder	2	**2**	Job Reference (optional)

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

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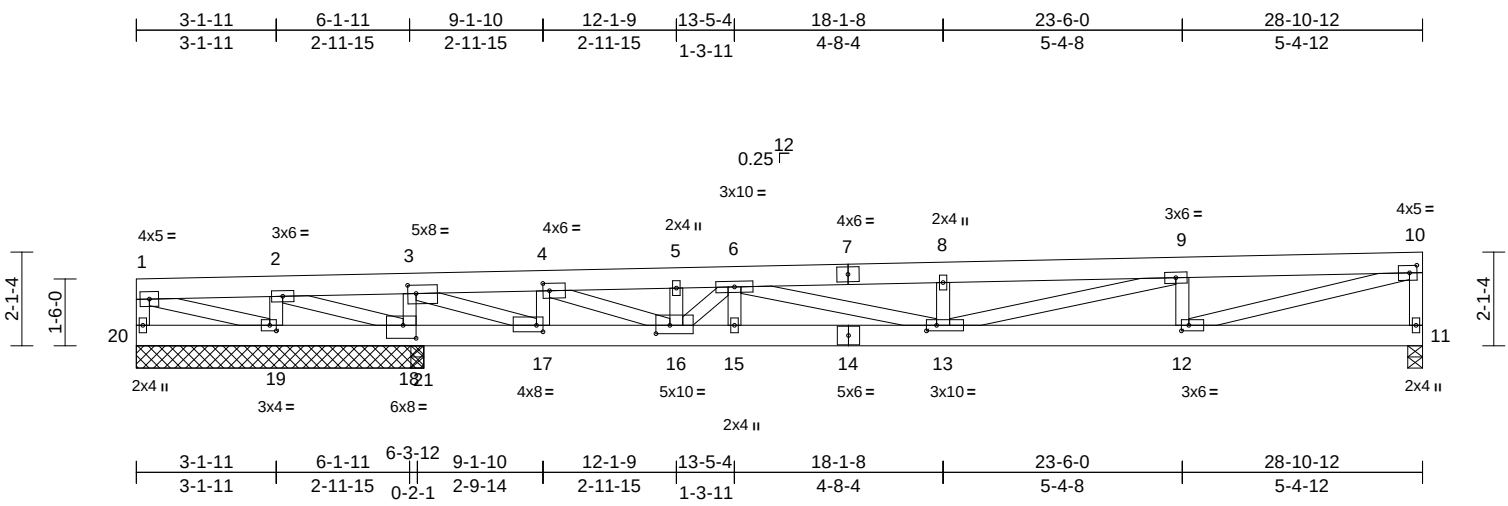

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Plate Offsets (X, Y): [3:0-2-4,0-2-4], [4:0-1-12,0-2-0], [10:0-2-0,0-2-0], [12:0-2-0,0-1-8], [13:0-2-12,0-1-8], [16:0-3-12,0-2-4], [17:0-1-12,0-1-12], [18:0-3-8,0-3-8], [19:0-1-12,0-1-8]

Loading	(psf)	**Spacing**	2-0-0	**CSI**		**DEFL**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.17	13-15	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.34	13-15	>798	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 328 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2 *Except* 1-7:2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-4 oc bracing.

REACTIONS (size) 11=0-4-0, 18=6-5-8, 19=6-5-8, 20=6-5-8
Max Horiz 20=66 (LC 32)
Max Uplift 11=-170 (LC 38), 18=-913 (LC 38), 19=-121 (LC 66), 20=-233 (LC 51)
Max Grav 11=1385 (LC 1), 18=9585 (LC 1), 19=364 (LC 58), 20=315 (LC 34)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-254/279, 1-2=-1216/2658, 2-3=-2497/7283, 3-4=-1661/960, 4-5=-6321/2095, 5-6=-6311/1898, 6-8=-6250/2053, 8-9=-6250/1728, 9-10=-3841/1023, 10-11=-1293/358
BOT CHORD 19-20=-964/925, 18-19=-2953/1829, 17-18=-7249/2592, 16-17=-979/1621, 15-16=-2215/6903, 13-15=-2215/6903, 12-13=-1015/3836, 11-12=-50/149
WEBS 9-12=-1073/387, 10-12=-1012/3863, 8-13=-403/173, 9-13=-859/2505, 6-15=-195/379, 6-13=-986/388, 5-16=-1532/360, 6-16=-893/534, 3-18=-6759/1522, 4-17=-3815/937, 3-17=-2175/9064, 4-16=-1474/5520, 2-19=-214/305, 1-19=-2804/1270, 2-18=-4921/1566

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 2 rows staggered at 0-9-0 oc, Except member 6-15 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) 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 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 20, 170 lb uplift at joint 11, 913 lb uplift at joint 18 and 121 lb uplift at joint 19.
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 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.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 229 lb down and 191 lb up at 13-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-722, 6-10=-80, 11-20=-20
Concentrated Loads (lb)
Vert: 15=-38 (B)

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482223
3907862	M11	Monopitch Girder	10	1	Job Reference (optional)

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

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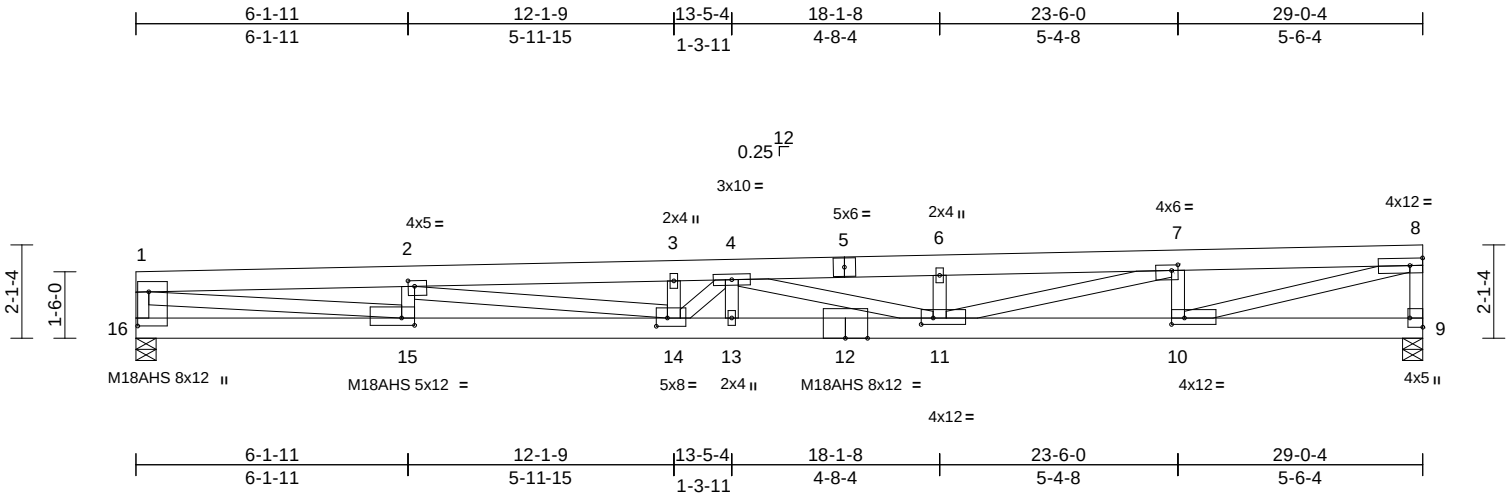

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Plate Offsets (X, Y): [2:0-1-12,0-1-8], [7:0-1-12,0-1-8], [8:0-3-7,0-2-0], [9:Edge,0-3-8], [10:0-3-8,0-1-12], [11:0-3-4,0-1-12], [14:0-3-0,0-2-4], [15:0-3-8,0-2-0], [16:0-9-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.59	11-13	>585	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-1.24	11-13	>278	180	M18AHS	169/162
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 164 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-6-3 oc bracing.

REACTIONS (size) 9=0-5-8, 16=0-5-8
Max Horiz 16=41 (LC 9)
Max Uplift 9=-191 (LC 12), 16=-208 (LC 8)
Max Grav 9=1554 (LC 1), 16=1573 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-1418/393, 1-2=-6219/1624, 2-3=-8618/2422, 3-4=-8615/2424, 4-6=-7468/2002, 6-7=-7469/2006, 7-8=-4481/1132, 8-9=-1451/385
BOT CHORD 15-16=-197/551, 14-15=-1672/6211, 13-14=-2553/8827, 11-13=-2553/8827, 10-11=-1133/4475, 9-10=-55/174
WEBS 2-15=-958/361, 3-14=-275/127, 6-11=-404/160, 7-10=-1233/410, 8-10=-1127/4498, 7-11=-924/3162, 2-14=-811/2606, 1-15=-1514/5745, 4-13=-197/510, 4-14=-311/147, 4-11=-1556/552

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) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 16 and 191 lb uplift at joint 9.
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) 246 lb down and 115 lb up at 13-5-4, and 246 lb down and 115 lb up at 13-5-4 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-8=-80, 9-16=-20
Concentrated Loads (lb)
Vert: 13=-255 (F=-127, B=-127)

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482224
3907862	M12	Monopitch	2	1	Job Reference (optional)

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

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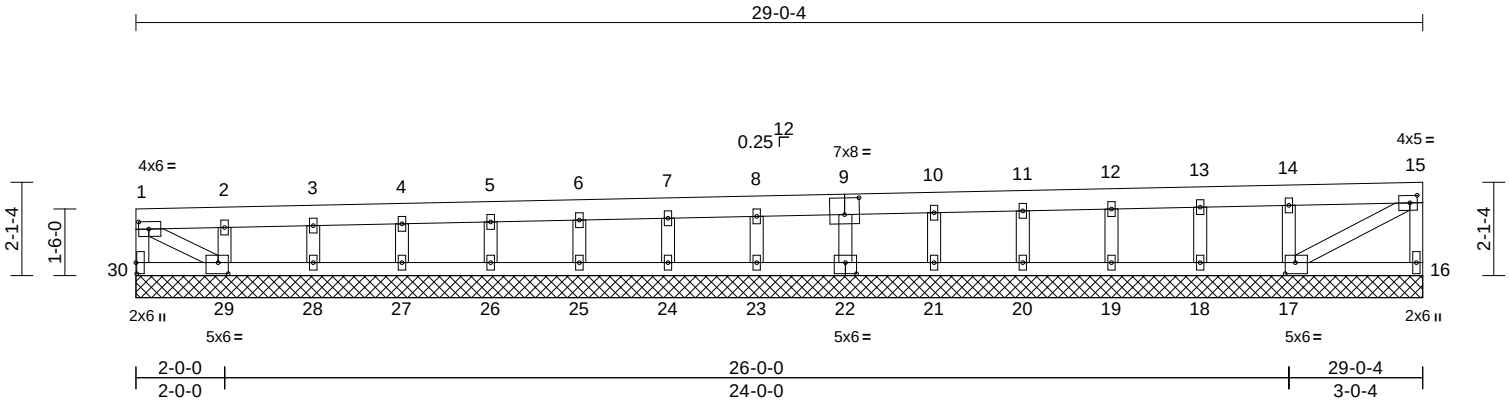

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Plate Offsets (X, Y): [1:0-2-12,0-2-0], [9:0-4-0,0-4-8], [15:0-2-0,0-2-0], [17:0-2-12,0-3-0], [22:0-3-0,0-3-0], [29:0-2-12,0-3-0], [30:0-3-0,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.34	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.48	Horiz(TL)	-0.02	23	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 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 5-4-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-2-3 oc bracing.

REACTIONS (size) 16=29-0-4, 17=29-0-4, 18=29-0-4, 19=29-0-4, 20=29-0-4, 21=29-0-4, 22=29-0-4, 23=29-0-4, 24=29-0-4, 25=29-0-4, 26=29-0-4, 27=29-0-4, 28=29-0-4, 29=29-0-4, 30=29-0-4
Max Horiz 30=43 (LC 36)
Max Uplift 16=-1192 (LC 30), 17=-1240 (LC 37), 18=-12 (LC 30), 19=-13 (LC 37), 20=-17 (LC 38), 21=-25 (LC 29), 22=-30 (LC 38), 23=-24 (LC 29), 24=-17 (LC 38), 25=-13 (LC 37), 26=-12 (LC 29), 27=-12 (LC 37), 28=-13 (LC 30), 29=-1296 (LC 38), 30=-1340 (LC 29)
Max Grav 16=1242 (LC 49), 17=1371 (LC 50), 18=175 (LC 1), 19=205 (LC 1), 20=199 (LC 1), 21=201 (LC 1), 22=200 (LC 1), 23=199 (LC 1), 24=200 (LC 1), 25=200 (LC 1), 26=200 (LC 1), 27=200 (LC 1), 28=199 (LC 1), 29=1393 (LC 49), 30=1379 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-30=-1357/1327, 1-2=-2145/2120, 2-3=-1872/1853, 3-4=-1592/1564, 4-5=-1300/1276, 5-6=-1009/987, 6-7=-718/699, 7-8=-427/410, 8-10=-487/469, 10-11=-776/765, 11-12=-1066/1056, 12-13=-1355/1346, 13-14=-1645/1637, 14-15=-2061/2054, 15-16=-1218/1211
BOT CHORD 29-30=-265/210, 28-29=-1869/1829, 27-28=-1580/1569, 26-27=-1290/1279, 25-26=-1001/990, 24-25=-711/700, 23-24=-422/411, 21-23=-485/473, 20-21=-774/763, 19-20=-1064/1052, 18-19=-1353/1342, 17-18=-1642/1631, 16-17=-398/396
WEBS 2-29=-167/79, 3-28=-159/69, 4-27=-160/63, 5-26=-160/61, 6-25=-160/62, 7-24=-160/66, 8-23=-159/73, 9-22=-160/79, 10-21=-161/74, 11-20=-159/65, 12-19=-163/62, 13-18=-141/57, 14-17=-227/95, 1-29=-2405/2454, 15-17=-2349/2338

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) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
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 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1340 lb uplift at joint 30, 1192 lb uplift at joint 16, 1296 lb uplift at joint 29, 13 lb uplift at joint 28, 12 lb uplift at joint 27, 12 lb uplift at joint 26, 13 lb uplift at joint 25, 17 lb uplift at joint 24, 24 lb uplift at joint 23, 30 lb uplift at joint 22, 25 lb uplift at joint 21, 17 lb uplift at joint 20, 13 lb uplift at joint 19, 12 lb uplift at joint 18 and 1240 lb uplift at joint 17.
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 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 29-0-4 for 144.7 plf.

March 26,2024

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G
3907862	M12	Monopitch	2	1	R81482224 Job Reference (optional)

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482225
3907862	N01	Monopitch Structural Gable	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:48 Page: 1

ID:Ic8cvCbnUv7Kwrn9jz5wbCzZ1E?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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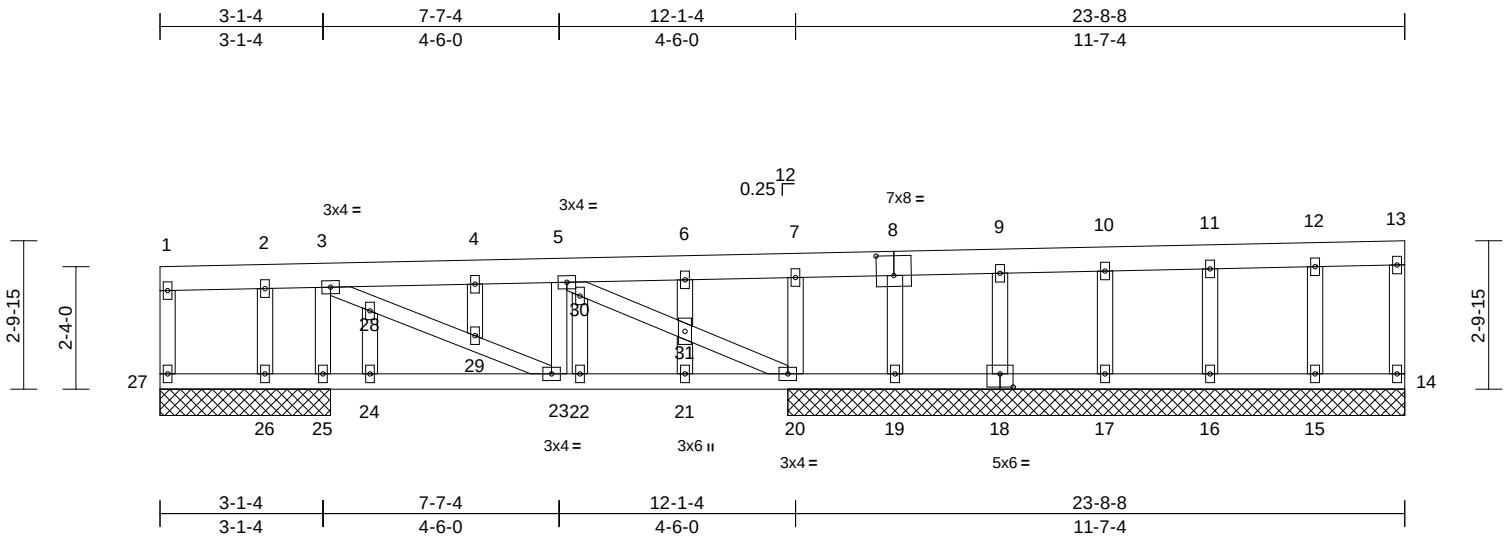

Scale = 1:43.9

Plate Offsets (X, Y): [8:0-4-0,0-4-8], [18:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	21-22	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.04	21-22	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 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, Except:
10-0-0 oc bracing: 22-23,21-22,20-21.

REACTIONS (size) 14=11-9-0, 15=11-9-0, 16=11-9-0, 17=11-9-0, 18=11-9-0, 19=11-9-0, 20=11-9-0, 25=3-3-0, 26=3-3-0, 27=3-3-0
Max Horiz 27=61 (LC 9)
Max Grav 14=106 (LC 1), 15=359 (LC 1), 16=376 (LC 1), 17=361 (LC 1), 18=409 (LC 1), 19=131 (LC 1), 20=1200 (LC 1), 25=1150 (LC 1), 26=82 (LC 1), 27=134 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-27=-115/0, 1-2=-23/28, 2-3=-20/30, 3-4=-810/0, 4-5=-801/0, 5-6=-37/29, 6-7=-33/34, 7-9=-33/31, 9-10=-31/31, 10-11=-31/33, 11-12=-31/35, 12-13=-31/36, 13-14=-98/0
BOT CHORD 26-27=-88/73, 25-26=-88/73, 24-25=-88/73, 23-24=-88/73, 22-23=0/802, 21-22=0/802, 20-21=0/802, 19-20=-31/31, 17-19=-32/31, 16-17=-32/31, 15-16=-32/31, 14-15=-32/31
WEBS 3-25=-1064/0, 7-20=-703/0, 5-23=-86/9, 3-28=0/892, 28-29=0/887, 23-29=0/864, 5-30=-954/0, 30-31=-877/0, 20-31=-886/0, 2-26=-89/0, 24-28=0/50, 4-29=-61/0, 22-30=-173/0, 6-31=-17/30, 21-31=0/49, 8-19=-141/0, 9-18=-356/0, 10-17=-324/0, 11-16=-336/0, 12-15=-316/0

NOTES

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
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.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-13=-164, 14-27=-20

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482226
3907862	N02	Monopitch Structural Gable	2	1	Job Reference (optional)

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:48 Page: 1
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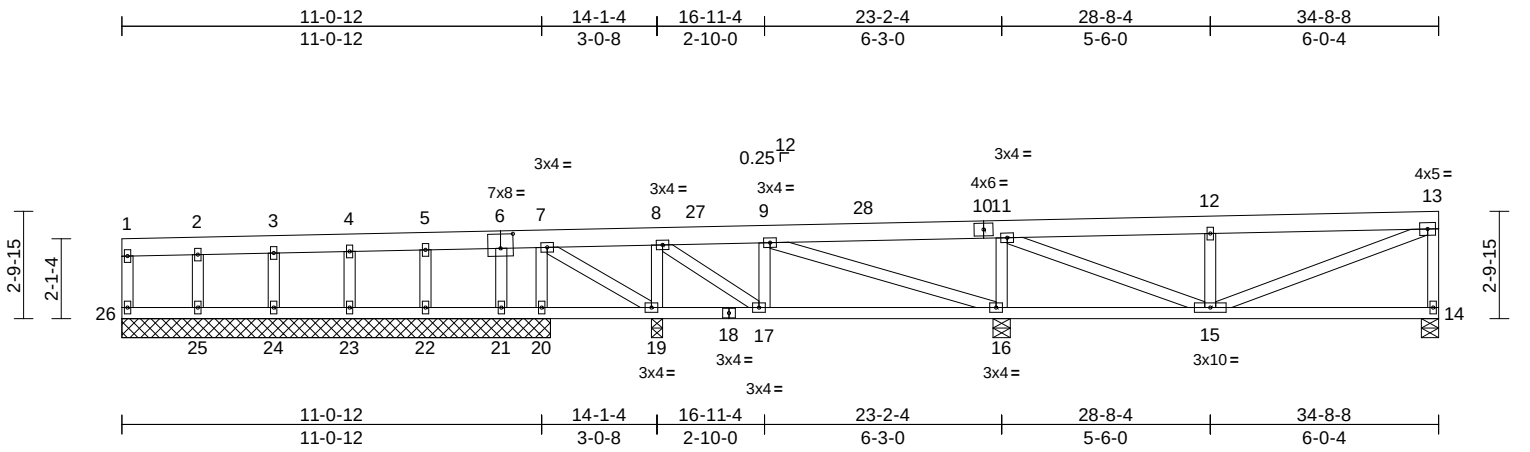

Scale = 1:60.7

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 (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.04	14-15	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.08	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 165 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, Except:
10-0-0 oc bracing: 16-17,14-15.

REACTIONS (size) 14=0-5-8, 16=0-5-8, 19=0-3-8, 20=11-3-8, 21=11-3-8, 22=11-3-8, 23=11-3-8, 24=11-3-8, 25=11-3-8, 26=11-3-8
Max Horiz 26=61 (LC 9)
Max Uplift 14=-30 (LC 12), 16=-65 (LC 12), 19=-38 (LC 12), 20=-9 (LC 8), 21=-11 (LC 8), 22=-10 (LC 12), 23=-12 (LC 12), 24=-12 (LC 8), 25=-11 (LC 12), 26=-5 (LC 8)
Max Grav 14=510 (LC 1), 16=1099 (LC 1), 19=736 (LC 1), 20=101 (LC 1), 21=102 (LC 1), 22=209 (LC 1), 23=199 (LC 1), 24=199 (LC 1), 25=213 (LC 1), 26=73 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-59/21, 1-2=-18/19, 2-3=-18/20, 3-4=-19/22, 4-5=-19/23, 5-7=-20/25, 7-8=-47/210, 8-9=-243/56, 9-11=-50/136, 11-12=-646/125, 12-13=-647/129, 13-14=-453/107
BOT CHORD 25-26=-86/70, 24-25=-86/70, 23-24=-86/70, 22-23=-86/70, 21-22=-86/70, 20-21=-85/70, 19-20=-85/70, 17-19=-207/58, 16-17=-66/241, 15-16=-130/49, 14-15=-21/48
WEBS 7-20=-56/63, 8-19=-547/108, 9-17=-230/111, 11-16=-845/214, 12-15=-452/162, 13-15=-106/652, 11-15=-125/831, 9-16=-391/67, 8-17=-77/551, 7-19=-245/88, 2-25=-170/58, 3-24=-160/54, 4-23=-160/54, 5-22=-166/56, 6-21=-80/30

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 15-1-12, Exterior (2) 15-1-12 to 19-6-12, Corner (3) 19-6-12 to 34-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 26, 30 lb uplift at joint 14, 9 lb uplift at joint 20, 38 lb uplift at joint 19, 65 lb uplift at joint 16, 11 lb uplift at joint 25, 12 lb uplift at joint 24, 12 lb uplift at joint 23, 10 lb uplift at joint 22 and 11 lb uplift at joint 21.
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

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482227
3907862	N03	Monopitch	2	1	Job Reference (optional)

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

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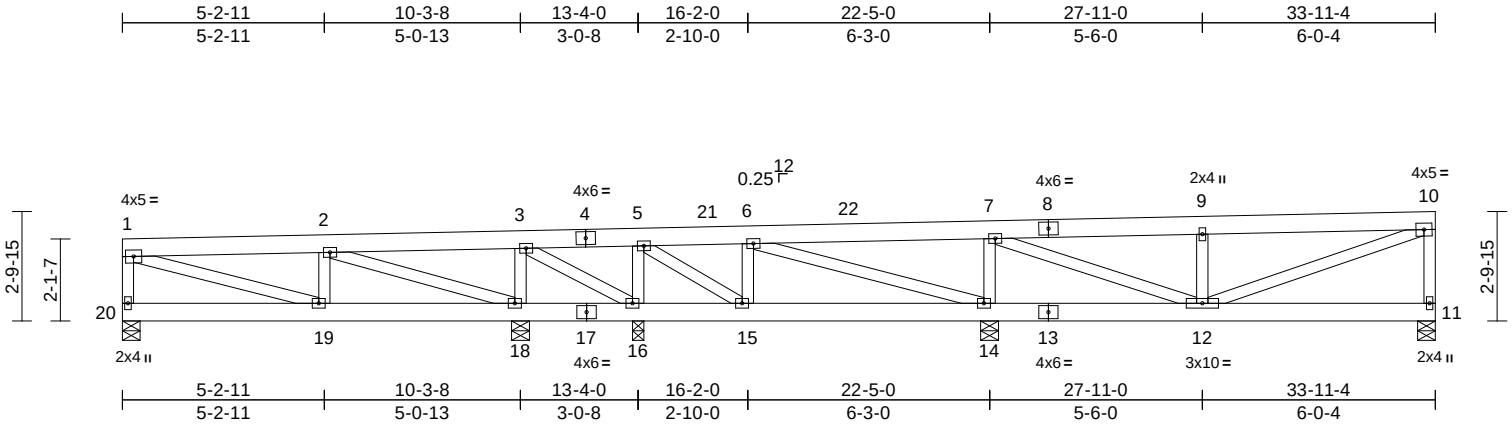

Scale = 1:59.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.02	11-12	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 198 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, 14=0-5-8, 16=0-3-8, 18=0-5-8, 20=0-5-8
Max Horiz 20=59 (LC 11)
Max Uplift 11=-29 (LC 12), 14=-66 (LC 8), 16=-35 (LC 12), 18=-40 (LC 12), 20=-28 (LC 8)
Max Grav 11=503 (LC 1), 14=1097 (LC 1), 16=580 (LC 1), 18=750 (LC 1), 20=435 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-371/93, 1-2=-582/92, 2-3=-55/247, 3-5=-74/316, 5-6=-167/42, 6-7=-48/156, 7-9=-626/119, 9-10=-626/123, 10-11=-435/105
BOT CHORD 19-20=-95/103, 18-19=-152/578, 16-18=-243/63, 15-16=-314/74, 14-15=-51/166, 12-14=-150/57, 11-12=-27/47
WEBS 3-18=-340/117, 5-16=-479/93, 7-14=-829/216, 9-12=-453/165, 10-12=-100/623, 7-12=-127/827, 6-15=-277/120, 6-14=-332/53, 5-15=-82/582, 3-16=-84/27, 2-19=-107/109, 2-18=-869/155, 1-19=-100/550

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 18-9-8, Corner (3) 18-9-8 to 33-9-8 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) Provide adequate drainage to prevent water ponding.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 20, 29 lb uplift at joint 11, 40 lb uplift at joint 18, 35 lb uplift at joint 16 and 66 lb uplift at joint 14.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

March 26,2024

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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482228
3907862	N04	Monopitch Girder	8	1	Job Reference (optional)

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:49 Page: 1
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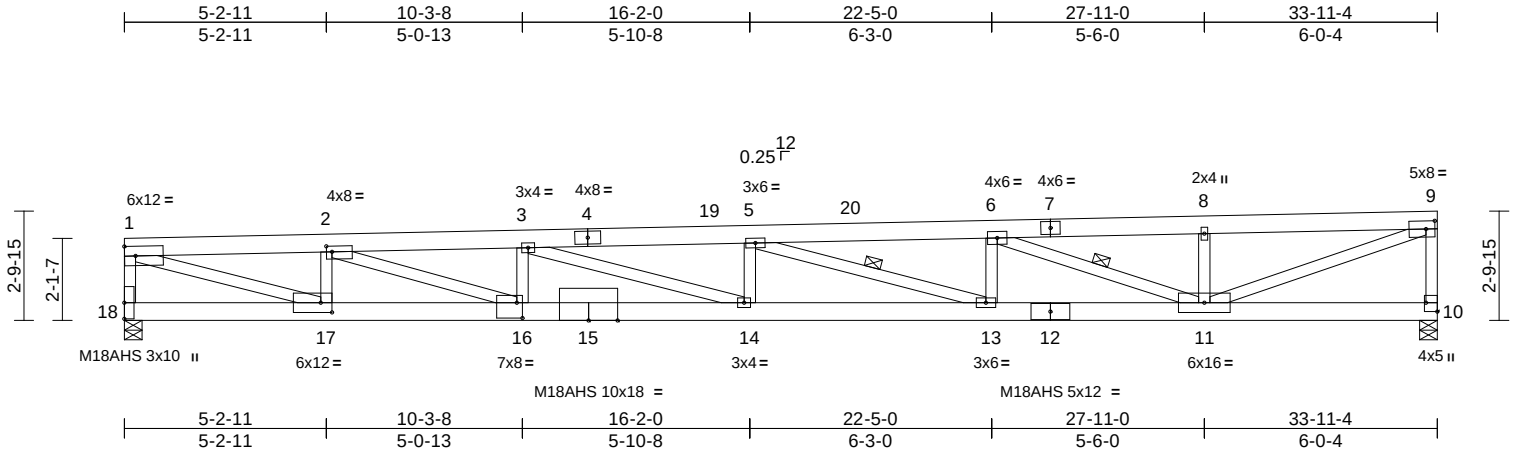

Scale = 1:59.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.63	14-16	>636	240	M18AHS	145/140
TCDL	15.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-1.26	14-16	>321	180	MT20	185/148
BCLL	0.0*	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 198 lb	FT = 10%

LUMBER

TOP CHORD 2x6 DF 2400F 2.0E *Except* 7-9:2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 9-11:2x4 DF No.2, 17-1:2x4 DF 1800F 1.6E

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-6 oc bracing.
WEBS 1 Row at midpt 5-13, 6-11

REACTIONS (size) 10=0-5-8, 18=0-5-8
Max Horiz 18=59 (LC 11)
Max Uplift 10=-271 (LC 12), 18=-498 (LC 8)
Max Grav 10=2069 (LC 1), 18=2578 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-2475/668, 1-2=-6618/1761, 2-3=-10909/3004, 3-5=-10423/2577, 5-6=-8028/1834, 6-8=-4680/1025, 8-9=-4680/1030, 9-10=-1981/453
BOT CHORD 17-18=-133/201, 16-17=-1824/6611, 14-16=-3063/10902, 13-14=-2618/10418, 11-13=-1855/8023, 10-11=-37/84
WEBS 3-16=-455/648, 3-14=-1326/784, 5-14=-185/517, 5-13=-2614/801, 8-11=-471/172, 9-11=-1072/4949, 2-16=-1328/4591, 2-17=-2012/621, 1-17=-1799/6759, 6-13=-179/922, 6-11=-3591/883

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 18-9-8, Corner (3) 18-9-8 to 33-9-8 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) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 498 lb uplift at joint 18 and 271 lb uplift at joint 10.
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) 756 lb down and 286 lb up at 10-3-8, and 805 lb down and 286 lb up at 10-3-8 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-9=-80, 10-18=-20
Concentrated Loads (lb)
Vert: 16=-1282 (F=-641, B=-641)

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482229
3907862	N05	Monopitch Girder	2	**2**	Job Reference (optional)

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

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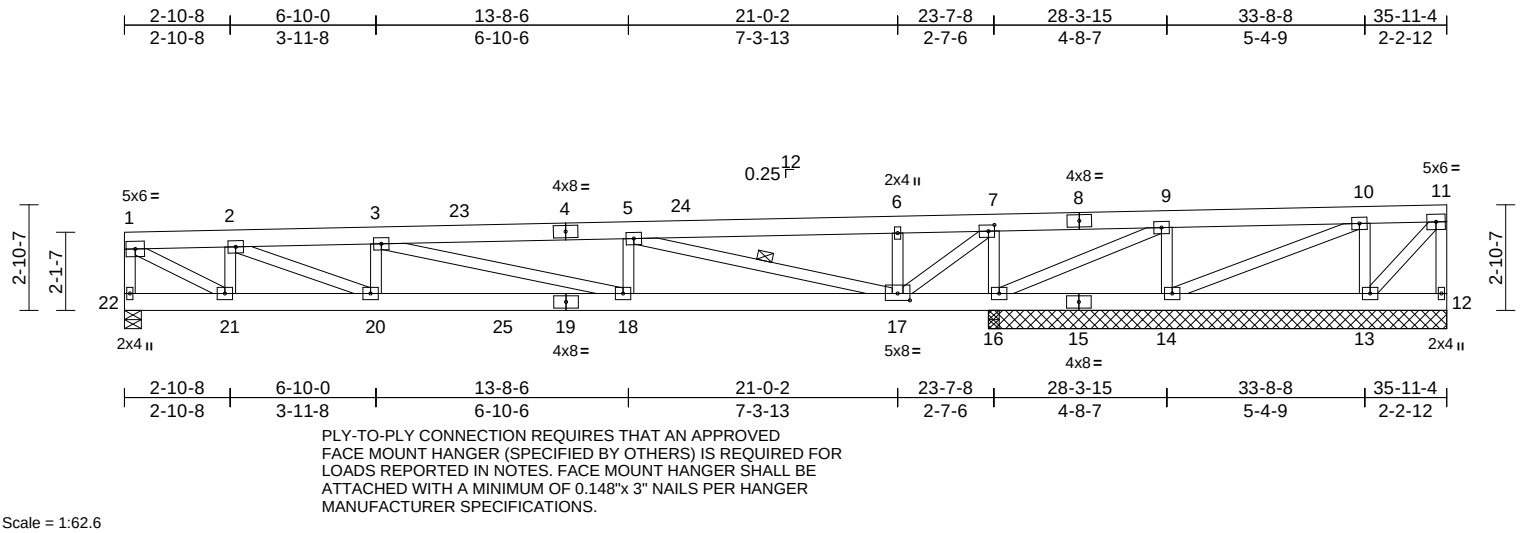

PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED FOR LOADS REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.148"x 3" NAILS PER HANGER MANUFACTURER SPECIFICATIONS.

Scale = 1:62.6

Plate Offsets (X, Y): [7:0-2-0,0-2-0], [17:0-4-0,0-2-4]

Loading	(psf)	**Spacing**	2-0-0	**CSI**		**DEFL**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.11	18-20	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.29	18-20	>976	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.03	16	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 424 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.
WEBS 1 Row at midpt 5-17

REACTIONS (size) 12=12-5-8, 13=12-5-8, 14=12-5-8, 16=12-5-8, 22=0-5-8
Max Horiz 22=91 (LC 32)
Max Uplift 12=-714 (LC 50), 22=-8 (LC 29)
Max Grav 12=325 (LC 37), 13=964 (LC 1), 14=435 (LC 58), 16=3828 (LC 1), 22=1507 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-1424/81, 1-2=-2122/124, 2-3=-4624/50, 3-5=-4771/0, 5-6=-515/468, 6-7=-662/607, 7-9=-126/3048, 9-10=-435/1558, 10-11=-316/633, 11-12=-343/716
BOT CHORD 21-22=-117/121, 20-21=-160/2119, 18-20=-235/4622, 17-18=0/4762, 16-17=-3297/316, 14-16=-2186/971, 13-14=-1086/777, 12-13=-365/342
WEBS 2-21=-1335/168, 3-20=-649/0, 5-18=-322/369, 6-17=-1007/0, 9-14=-326/195, 5-17=-5097/0, 3-18=-151/881, 2-20=-82/2730, 1-21=-113/2404, 10-13=-441/7, 11-13=-986/444, 10-14=-1133/258, 7-16=-2747/0, 7-17=0/3728, 9-16=-2027/0

NOTES
1) N/A
2) N/A
3) N/A
4) 2-ply truss to be connected together with 8d (0.131"x1.5") nails as follows:
Top chords connected as follows: 2x4 - 4 rows staggered at 0-1-0 oc.
Bottom chords connected as follows: 2x6 - 4 rows staggered at 0-1-0 oc.
Web connected as follows: 2x4 - 4 rows staggered at 0-1-0 oc.
5) 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) 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 20-9-8, Corner (3) 20-9-8 to 35-9-8 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
7) Provide adequate drainage to prevent water ponding.
8) All plates are 4x5 MT20 unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 22 and 714 lb uplift at joint 12.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) 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.
15) 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 23-5-12 to 35-11-4 for 160.5 plf.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 595 lb down and 285 lb up at 10-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-23=-80, 11-23=-164, 12-22=-20
Concentrated Loads (lb)
Vert: 25=-464 (B)

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482230
3907862	N06	Monopitch Supported Gable	2	1	Job Reference (optional)

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

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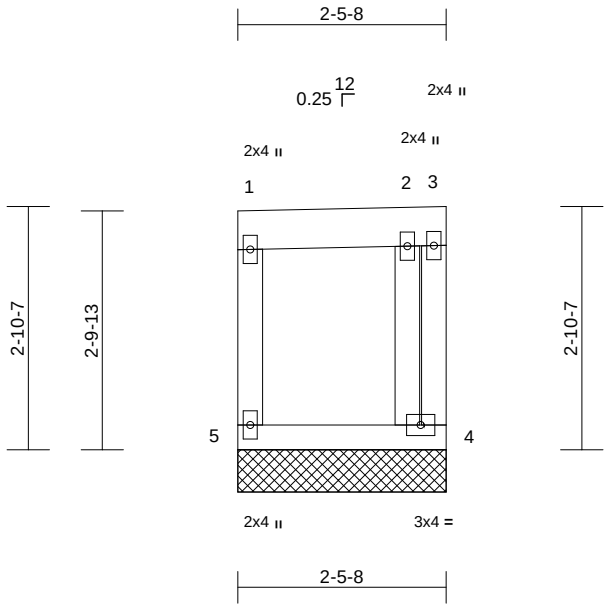

Scale = 1:27.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 15 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 2-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4=2-5-8, 5=2-5-8
Max Horiz 5=61 (LC 11)
Max Uplift 4=-35 (LC 9), 5=-42 (LC 8)
Max Grav 4=114 (LC 1), 5=111 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-90/110, 1-2=-15/22, 2-3=-9/10, 3-4=-208/210
BOT CHORD 4-5=-71/80
WEBS 2-4=-283/310

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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 5 and 35 lb uplift at joint 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

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482231
3907862	N07	Monopitch	2	1	Job Reference (optional)

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

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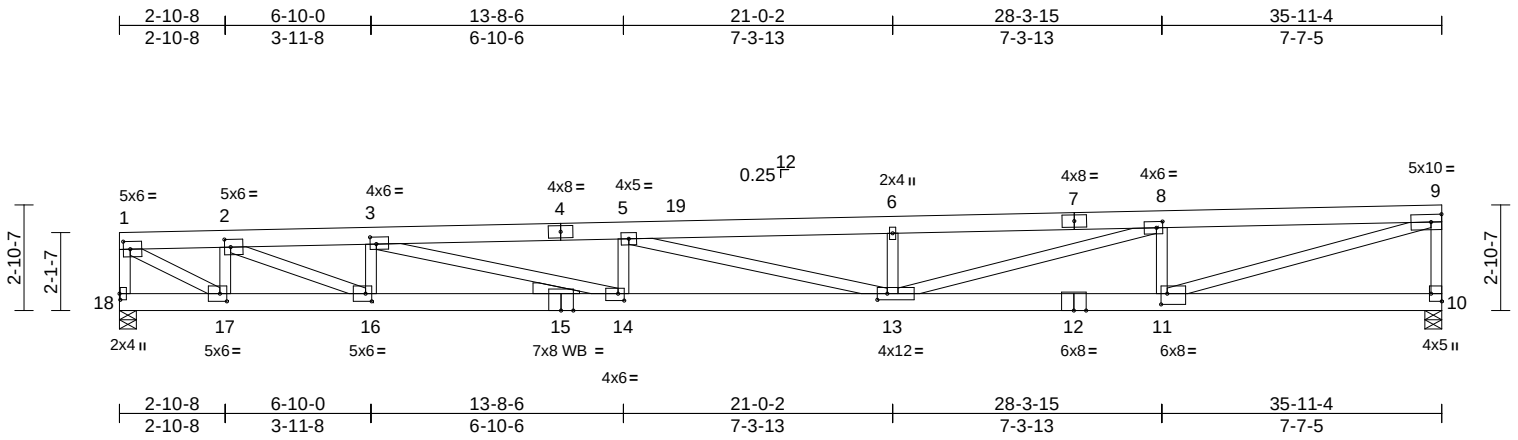

Scale = 1:62.6

Plate Offsets (X, Y): [1:0-2-4,0-2-8], [2:0-2-0,0-2-8], [3:0-2-0,0-2-4], [8:0-2-0,0-2-0], [9:0-3-7,0-2-8], [10:Edge,0-3-8], [11:0-2-0,0-3-8], [13:0-3-4,0-2-0], [14:0-2-0,0-2-4], [16:0-2-0,0-2-8], [17:0-2-4,0-2-8], [18:0-2-0,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.60	13-14	>715	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-1.20	13-14	>356	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 209 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2 *Except* 12-15:2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 11-9:2x4 DF No.2
OTHERS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-10 oc bracing.

REACTIONS (size) 10=0-5-8, 18=0-5-8
Max Horiz 18=60 (LC 11)
Max Uplift 10=-104 (LC 12), 18=-105 (LC 8)
Max Grav 10=1782 (LC 1), 18=1782 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-1721/261, 1-2=-2598/382, 2-3=-5453/777, 3-5=-7704/1086, 5-6=-7364/1046, 6-8=-7364/1051, 8-9=-4816/707, 9-10=-1693/288
BOT CHORD 17-18=-100/116, 16-17=-447/2595, 14-16=-841/5450, 13-14=-1138/7697, 11-13=-711/4809, 10-11=-36/104
WEBS 6-13=-563/183, 8-11=-1368/319, 5-14=-470/176, 3-16=-1107/242, 2-17=-1512/261, 1-17=-420/2952, 2-16=-442/3113, 3-14=-327/2324, 5-13=-353/63, 8-13=-383/2666, 9-11=-709/4943

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 20-9-8, Corner (3) 20-9-8 to 35-9-8 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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 18 and 104 lb uplift at joint 10.
7) 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

March 26,2024

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400 Sunrise Ave., Suite 270
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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482232
3907862	N08	Monopitch	6	1	Job Reference (optional)

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

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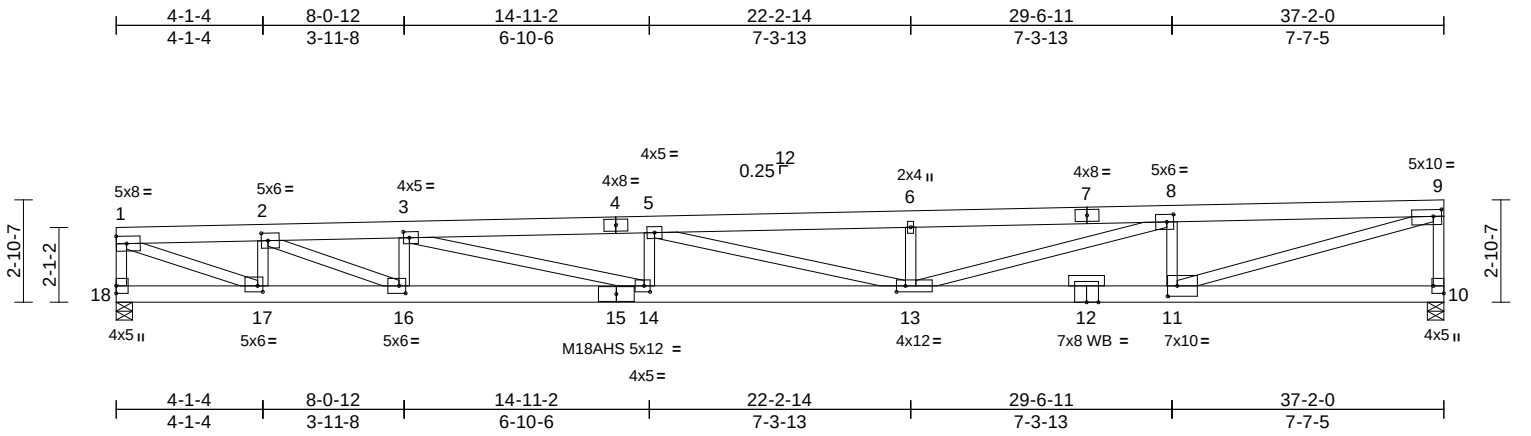

Scale = 1:64.5

Plate Offsets (X, Y): [2:0-2-4,0-2-8], [3:0-2-0,0-2-0], [8:0-2-4,0-2-8], [9:0-2-12,0-2-4], [10:Edge,0-3-8], [11:0-3-4,0-3-8], [13:0-3-0,0-2-0], [14:0-2-0,0-2-0], [16:0-2-4,0-2-8], [17:0-1-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.67	13-14	>656	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-1.35	13-14	>327	180	M18AHS	169/162
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 216 lb	FT = 10%

LUMBER

TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E *Except* 12-10:2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 11-9:2x4 DF No.2
OTHERS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-15 oc bracing.

REACTIONS (size) 10=0-5-8, 18=0-5-8
Max Horiz 18=60 (LC 11)
Max Uplift 10=-108 (LC 12), 18=-109 (LC 8)
Max Grav 10=1844 (LC 1), 18=1844 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-1743/262, 1-2=-3684/510, 2-3=-6421/873, 3-5=-8380/1134, 5-6=-7791/1062, 6-8=-7791/1067, 8-9=-5018/706, 9-10=-1753/286
BOT CHORD 17-18=-106/146, 16-17=-576/3679, 14-16=-936/6418, 13-14=-1183/8373, 11-13=-709/5010, 10-11=-35/106
WEBS 2-17=-1479/258, 3-16=-1036/223, 5-14=-397/162, 6-13=-564/179, 8-11=-1433/319, 9-11=-708/5153, 8-13=-400/2902, 5-13=-610/96, 3-14=-274/2021, 2-16=-406/2987, 1-17=-523/3844

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 22-0-4, Corner (3) 22-0-4 to 37-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 18 and 108 lb uplift at joint 10.
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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482233
3907862	N09	Monopitch	6	1	Job Reference (optional)

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

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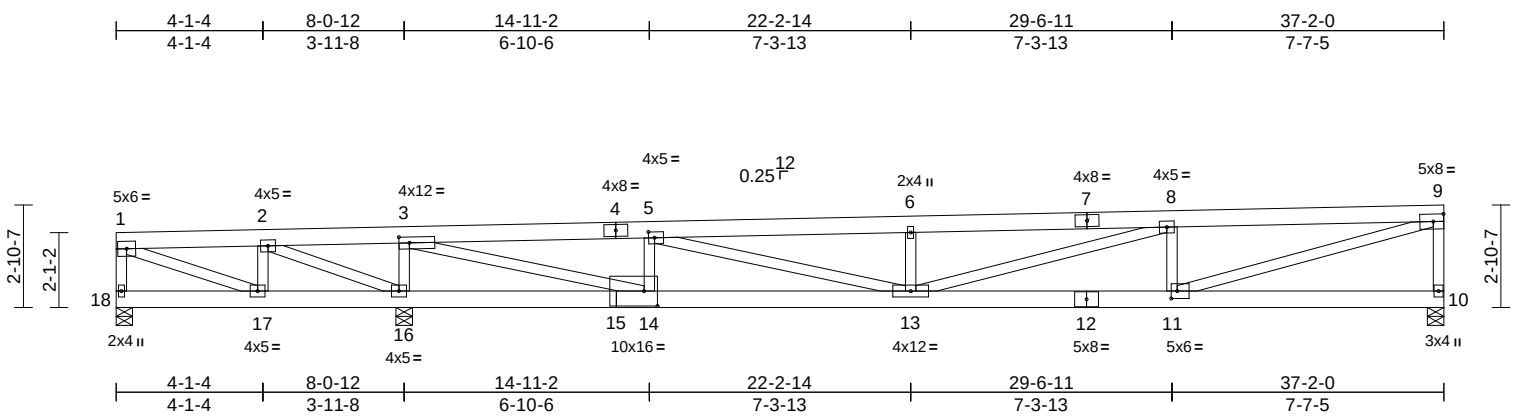

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Plate Offsets (X, Y): [3:0-3-8,0-2-0], [5:0-2-0,0-2-0], [9:0-3-7,0-2-8], [11:0-2-0,0-2-8], [15:0-4-8,0-5-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.27	13	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.54	13	>643	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 213 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-6 oc bracing.

REACTIONS (size) 10=0-5-8, 16=0-5-8, 18=0-5-8
Max Horiz 18=60 (LC 11)
Max Uplift 10=-75 (LC 12), 16=-155 (LC 12), 18=-246 (LC 1)
Max Grav 10=1273 (LC 1), 16=2661 (LC 1), 18=13 (LC 12)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-24/295, 9-10=-1183/207, 1-2=-141/1017, 2-3=-335/2296, 3-5=-1968/280, 5-6=-3868/540, 6-8=-3868/545, 8-9=-3121/453
BOT CHORD 17-18=-89/74, 16-17=-1014/176, 14-16=-2290/338, 13-14=-295/1961, 11-13=-445/3114, 10-11=-34/96
WEBS 3-16=-1817/326, 1-17=-1101/177, 2-17=-7/381, 2-16=-1392/215, 3-14=-590/4395, 5-14=-1056/250, 5-13=-263/1967, 6-13=-580/181, 8-13=-107/783, 8-11=-841/237, 9-11=-432/3171

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 22-0-4, Corner (3) 22-0-4 to 37-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 18, 75 lb uplift at joint 10 and 155 lb uplift at joint 16.
7) 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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482234
3907862	N10	Monopitch Supported Gable	2	1	Job Reference (optional)

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:50 Page: 1
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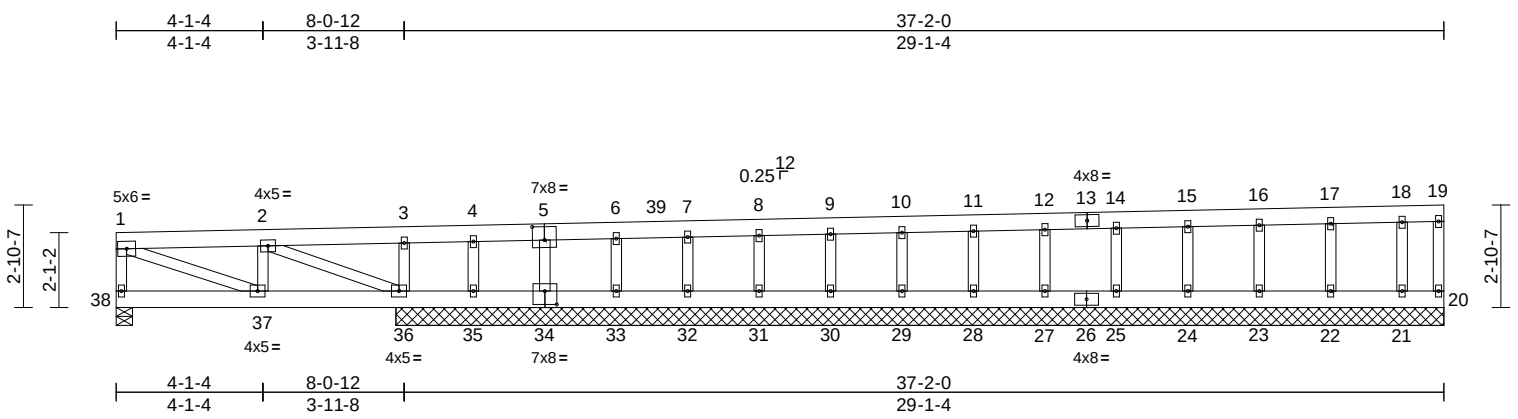

Scale = 1:64.5

Plate Offsets (X, Y): [5:0-4-0,0-4-8], [34:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.01	37	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	37-38	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	36	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 201 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: 37-38,36-37.

REACTIONS (size) 20=29-4-0, 21=29-4-0, 22=29-4-0, 23=29-4-0, 24=29-4-0, 25=29-4-0, 27=29-4-0, 28=29-4-0, 29=29-4-0, 30=29-4-0, 31=29-4-0, 32=29-4-0, 33=29-4-0, 34=29-4-0, 35=29-4-0, 36=29-4-0, 38=0-5-8
Max Horiz 38=60 (LC 11)
Max Uplift 20=-2 (LC 12), 21=-9 (LC 8), 22=-12 (LC 12), 23=-12 (LC 8), 24=-12 (LC 12), 25=-12 (LC 8), 27=-12 (LC 12), 28=-12 (LC 8), 29=-12 (LC 12), 30=-12 (LC 12), 31=-12 (LC 8), 32=-12 (LC 12), 33=-12 (LC 8), 34=-12 (LC 12), 35=-6 (LC 8), 36=-34 (LC 12), 38=-23 (LC 8)
Max Grav 20=28 (LC 1), 21=166 (LC 1), 22=209 (LC 1), 23=199 (LC 1), 24=200 (LC 1), 25=200 (LC 1), 27=200 (LC 1), 28=200 (LC 1), 29=200 (LC 1), 30=200 (LC 1), 31=200 (LC 1), 32=201 (LC 1), 33=196 (LC 1), 34=224 (LC 1), 35=79 (LC 1), 36=614 (LC 1), 38=372 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-38=-319/71, 1-2=-431/58, 2-3=-42/30, 3-4=-39/29, 4-6=-38/28, 6-7=-36/28, 7-8=-34/28, 8-9=-33/27, 9-10=-32/27, 10-11=-30/27, 11-12=-29/26, 12-14=-28/26, 14-15=-28/27, 15-16=-28/28, 16-17=-29/30, 17-18=-29/31, 18-19=-29/32, 19-20=-26/16
BOT CHORD 37-38=-93/92, 36-37=-112/428, 35-36=-31/32, 33-35=-31/32, 32-33=-31/32, 31-32=-31/32, 30-31=-31/32, 29-30=-31/32, 28-29=-31/32, 27-28=-31/32, 25-27=-31/32, 24-25=-31/32, 23-24=-31/32, 22-23=-31/32, 21-22=-31/32, 20-21=-31/32
WEBS 3-36=-300/86, 2-37=-123/89, 1-37=-70/426, 2-36=-467/98, 4-35=-93/37, 5-34=-170/54, 6-33=-160/51, 7-32=-160/51, 8-31=-160/50, 9-30=-160/50, 10-29=-160/51, 11-28=-160/51, 12-27=-160/51, 14-25=-160/51, 15-24=-160/51, 16-23=-159/51, 17-22=-168/54, 18-21=-129/45

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 22-0-4, Corner (3) 22-0-4 to 37-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 38, 2 lb uplift at joint 20, 34 lb uplift at joint 36, 6 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 28, 12 lb uplift at joint 27, 12 lb uplift at joint 25, 12 lb uplift at joint 24, 12 lb uplift at joint 23, 12 lb uplift at joint 22 and 9 lb uplift at joint 21.
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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482235
3907862	N11	Monopitch Supported Gable	2	1	Job Reference (optional)

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

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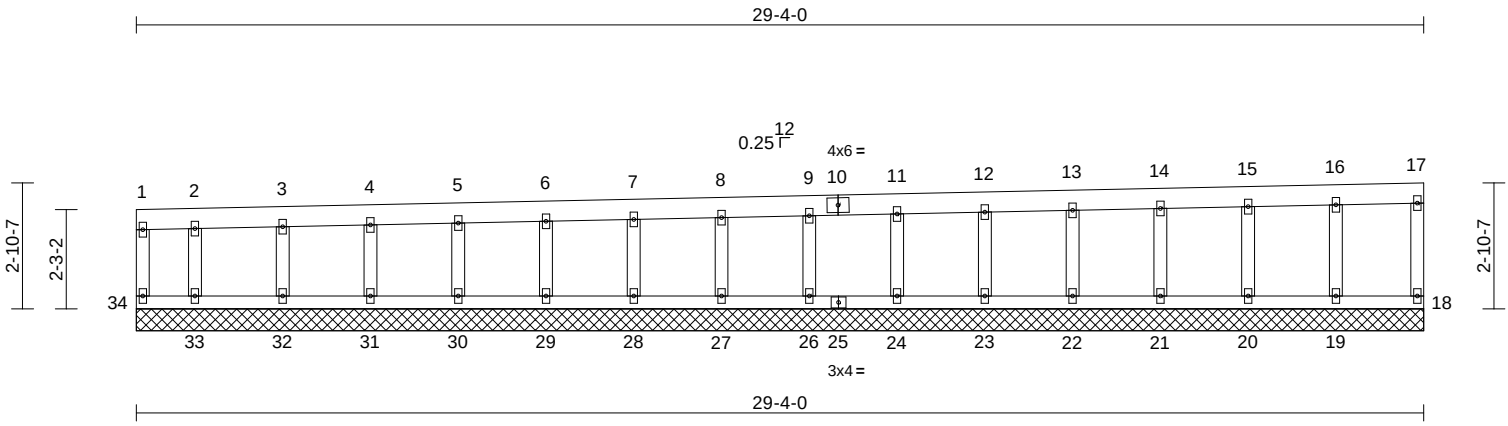

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 130 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) 18=29-4-0, 19=29-4-0, 20=29-4-0, 21=29-4-0, 22=29-4-0, 23=29-4-0, 24=29-4-0, 26=29-4-0, 27=29-4-0, 28=29-4-0, 29=29-4-0, 30=29-4-0, 31=29-4-0, 32=29-4-0, 33=29-4-0, 34=29-4-0
Max Horiz 34=62 (LC 11)
Max Uplift 18=-12 (LC 9), 19=-17 (LC 8), 20=-11 (LC 12), 21=-12 (LC 8), 22=-12 (LC 12), 23=-12 (LC 8), 24=-12 (LC 12), 26=-12 (LC 8), 27=-12 (LC 12), 28=-12 (LC 8), 29=-12 (LC 12), 30=-12 (LC 8), 31=-11 (LC 12), 32=-14 (LC 8), 33=-40 (LC 9), 34=-19 (LC 8)
Max Grav 18=77 (LC 1), 19=208 (LC 1), 20=200 (LC 1), 21=200 (LC 1), 22=200 (LC 1), 23=200 (LC 1), 24=200 (LC 1), 26=200 (LC 1), 27=200 (LC 1), 28=200 (LC 1), 29=200 (LC 1), 30=200 (LC 1), 31=199 (LC 1), 32=208 (LC 1), 33=169 (LC 1), 34=68 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-34=-49/36, 1-2=-24/21, 2-3=-22/20, 3-4=-20/20, 4-5=-19/19, 5-6=-19/19, 6-7=-19/19, 7-8=-18/20, 8-9=-18/22, 9-11=-18/23, 11-12=-18/25, 12-13=-18/27, 13-14=-18/28, 14-15=-19/30, 15-16=-19/31, 16-17=-19/33, 17-18=-61/39
BOT CHORD 33-34=-43/49, 32-33=-43/49, 31-32=-43/49, 30-31=-43/49, 29-30=-43/49, 28-29=-43/49, 27-28=-43/49, 26-27=-43/49, 24-26=-43/49, 23-24=-43/49, 22-23=-43/49, 21-22=-43/49, 20-21=-43/49, 19-20=-43/49, 18-19=-43/49
WEBS 16-19=-166/65, 15-20=-161/63, 14-21=-160/60, 13-22=-160/60, 12-23=-160/60, 11-24=-160/60, 9-26=-160/60, 8-27=-160/60, 7-28=-160/60, 6-29=-160/60, 5-30=-160/60, 4-31=-159/60, 3-32=-166/63, 2-33=-135/101

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) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
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 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 34, 12 lb uplift at joint 18, 17 lb uplift at joint 19, 11 lb uplift at joint 20, 12 lb uplift at joint 21, 12 lb uplift at joint 22, 12 lb uplift at joint 23, 12 lb uplift at joint 24, 12 lb uplift at joint 26, 12 lb uplift at joint 27, 12 lb uplift at joint 28, 12 lb uplift at joint 29, 12 lb uplift at joint 30, 11 lb uplift at joint 31, 14 lb uplift at joint 32 and 40 lb uplift at joint 33.
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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482236
3907862	N12	Monopitch	12	1	Job Reference (optional)

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

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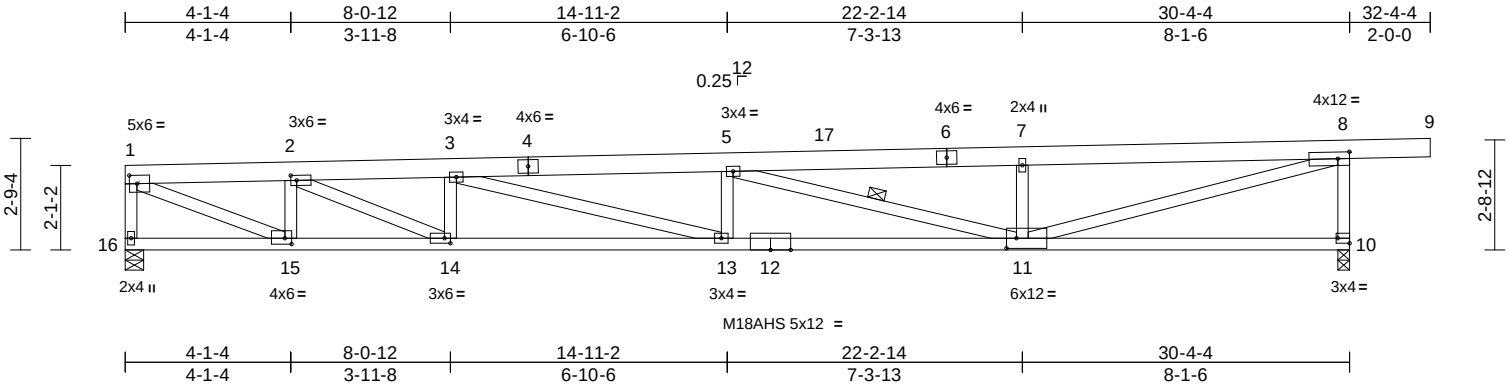

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Plate Offsets (X, Y): [1:0-2-4,0-2-8], [2:0-1-12,0-1-8], [8:0-3-7,0-2-0], [10:Edge,0-1-8], [11:0-3-0,0-3-0], [14:0-1-12,0-1-8], [15:0-2-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.42	11-13	>859	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.84	11-13	>428	180	M18AHS	169/162
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-4-9 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS (size) 10=0-3-8, 16=0-5-8
Max Horiz 16=59 (LC 9)
Max Uplift 10=-119 (LC 12), 16=-88 (LC 8)
Max Grav 10=1681 (LC 1), 16=1497 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-1442/279, 1-2=-2827/500, 2-3=-4700/813, 3-5=-5613/967, 5-7=-4139/725, 7-8=-4140/731, 8-9=-4/0, 8-10=-1599/362
BOT CHORD 15-16=-99/117, 14-15=-564/2822, 13-14=-874/4697, 11-13=-1006/5606, 10-11=-27/106
WEBS 2-15=-1144/258, 3-14=-736/216, 5-13=-113/127, 7-11=-622/238, 1-15=-527/2996, 2-14=-357/2061, 3-13=-160/943, 5-11=-1530/278, 8-11=-741/4198

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 17-4-4, Corner (3) 17-4-4 to 32-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 16 and 119 lb uplift at joint 10.
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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482237
3907862	N13	Monopitch Supported Gable	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:50 Page: 1

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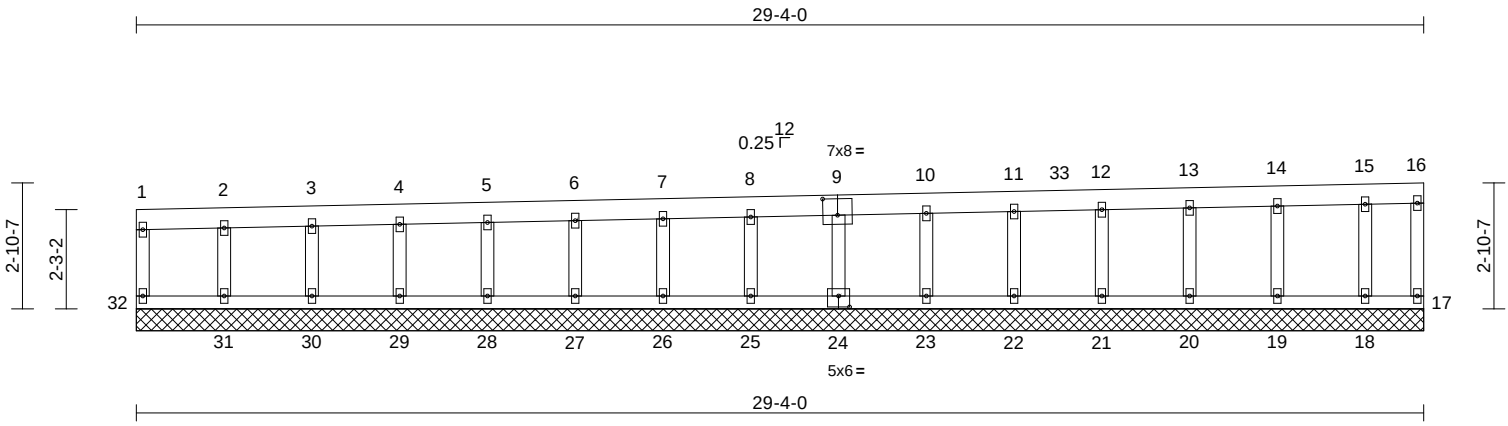

Scale = 1:52.5

Plate Offsets (X, Y): [9:0-4-0,0-4-8], [24:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.15	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 131 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) 17=29-4-0, 18=29-4-0, 19=29-4-0, 20=29-4-0, 21=29-4-0, 22=29-4-0, 23=29-4-0, 24=29-4-0, 25=29-4-0, 26=29-4-0, 27=29-4-0, 28=29-4-0, 29=29-4-0, 30=29-4-0, 31=29-4-0, 32=29-4-0
Max Horiz 32=62 (LC 9)
Max Uplift 17=-22 (LC 9), 18=-58 (LC 8), 19=-61 (LC 12), 20=-61 (LC 8), 21=-53 (LC 12), 22=-16 (LC 12), 23=-12 (LC 8), 24=-11 (LC 12), 25=-12 (LC 8), 26=-12 (LC 12), 27=-12 (LC 8), 28=-12 (LC 8), 29=-11 (LC 12), 30=-15 (LC 8), 31=-23 (LC 9), 32=-15 (LC 8)
Max Grav 17=221 (LC 1), 18=853 (LC 1), 19=1056 (LC 1), 20=1036 (LC 1), 21=911 (LC 1), 22=276 (LC 1), 23=180 (LC 1), 24=202 (LC 1), 25=199 (LC 1), 26=200 (LC 1), 27=200 (LC 1), 28=200 (LC 1), 29=200 (LC 1), 30=200 (LC 1), 31=206 (LC 1), 32=87 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-32=-63/40, 1-2=-20/16, 2-3=-19/14, 3-4=-19/14, 4-5=-18/14, 5-6=-18/16, 6-7=-18/18, 7-8=-17/19, 8-10=-17/22, 10-11=-16/23, 11-12=-17/25, 12-13=-21/28, 13-14=-21/30, 14-15=-22/31, 15-16=-21/32, 16-17=-213/71
BOT CHORD 31-32=-48/54, 30-31=-48/54, 29-30=-48/54, 28-29=-48/54, 27-28=-48/54, 26-27=-48/54, 25-26=-48/54, 23-25=-48/54, 22-23=-47/53, 21-22=-47/53, 20-21=-47/53, 19-20=-47/53, 18-19=-47/53, 17-18=-47/53
WEBS 2-31=-165/102, 3-30=-160/63, 4-29=-160/61, 5-28=-160/60, 6-27=-160/61, 7-26=-160/62, 8-25=-159/63, 9-24=-162/69, 10-23=-140/60, 11-22=-237/76, 12-21=-871/190, 13-20=-996/213, 14-19=-1015/217, 15-18=-818/179

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) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
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 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 32, 22 lb uplift at joint 17, 23 lb uplift at joint 31, 15 lb uplift at joint 30, 11 lb uplift at joint 29, 12 lb uplift at joint 28, 12 lb uplift at joint 27, 12 lb uplift at joint 26, 12 lb uplift at joint 25, 11 lb uplift at joint 24, 12 lb uplift at joint 23, 16 lb uplift at joint 22, 53 lb uplift at joint 21, 61 lb uplift at joint 20, 61 lb uplift at joint 19 and 58 lb uplift at joint 18.
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

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-33=-80, 16-33=-488, 17-32=-20

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482238
3907862	N14	Monopitch Girder	8	1	Job Reference (optional)

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:50
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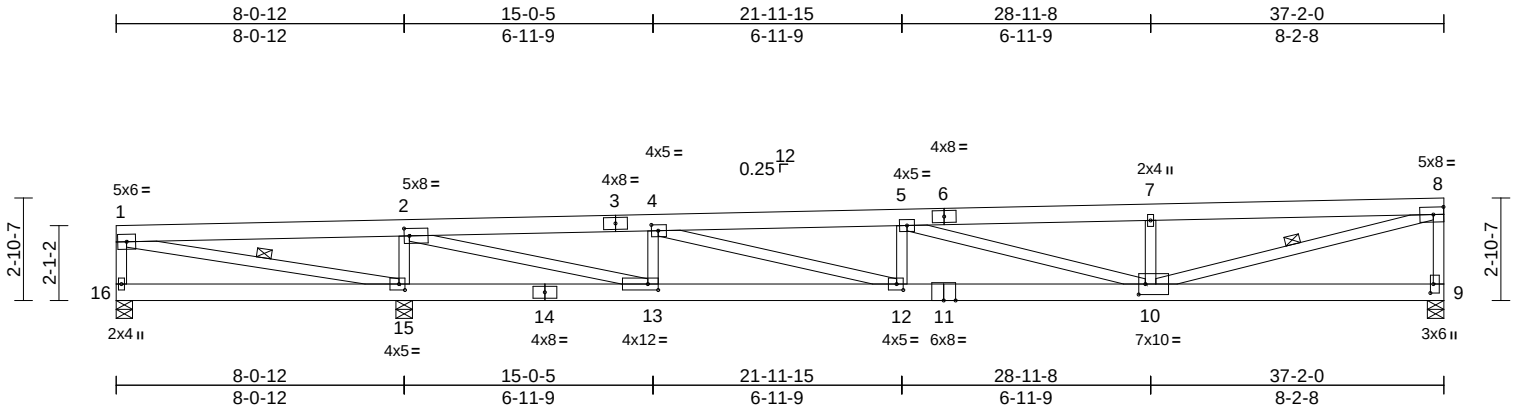

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Plate Offsets (X, Y): [2:0-1-12,0-2-8], [4:0-2-4,0-2-0], [8:0-3-7,0-2-8], [9:0-3-0,0-1-0], [10:0-2-4,0-3-8], [12:0-2-4,0-2-0], [13:0-3-8,0-2-0], [15:0-2-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.29	10-12	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.58	10-12	>596	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 212 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-11 oc bracing.
WEBS 1 Row at midpt 8-10, 1-15

REACTIONS (size) 9=0-5-8, 15=0-5-8, 16=0-5-8
Max Horiz 16=60 (LC 11)
Max Uplift 9=-280 (LC 12), 15=-291 (LC 12), 16=-139 (LC 2)
Max Grav 9=1350 (LC 1), 15=2524 (LC 1), 16=55 (LC 12)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-21/190, 1-2=-417/1665, 2-4=-2398/469, 4-5=-4186/1030, 5-7=-3533/1174, 7-8=-3534/1180, 8-9=-1249/412
BOT CHORD 15-16=-98/74, 13-15=-1656/440, 12-13=-498/2390, 10-12=-1046/4180, 9-10=-49/118
WEBS 2-15=-1906/478, 7-10=-636/226, 8-10=-1179/3557, 2-13=-890/4180, 4-13=-994/320, 4-12=-578/1859, 5-12=-344/224, 5-10=-768/346, 1-15=-1692/438

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 22-0-4, Corner (3) 22-0-4 to 37-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 16, 280 lb uplift at joint 9 and 291 lb uplift at joint 15.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb down and 301 lb up at 28-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-8=-80, 9-16=-20
Concentrated Loads (lb)
Vert: 10=-61 (B)

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482239
3907862	N14A	Monopitch Girder	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:50 Page: 1

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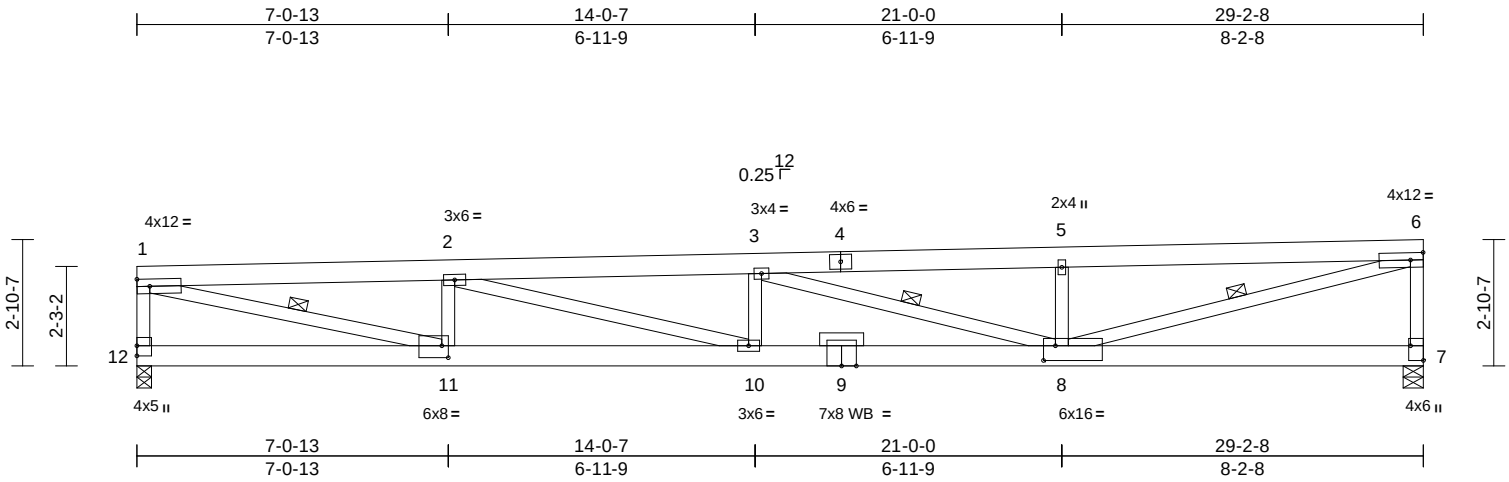

Scale = 1:52.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.36	8-10	>955	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.70	8-10	>492	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 168 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 2-10-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-5 oc bracing.
WEBS 1 Row at midpt 1-11, 6-8, 3-8

REACTIONS (size) 7=0-5-8, 12=0-4-0
Max Horiz 12=60 (LC 9)
Max Uplift 7=-518 (LC 12), 12=-253 (LC 8)
Max Grav 7=1599 (LC 2), 12=1480 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-1378/455, 1-2=-4092/1309, 2-3=-5278/2038, 3-5=-4535/2205, 5-6=-4536/2211, 6-7=-1490/721
BOT CHORD 11-12=-134/185, 10-11=-1370/4086, 8-10=-2081/5271, 7-8=-71/128
WEBS 1-11=-1306/4045, 2-11=-922/440, 3-10=-220/262, 5-8=-638/279, 6-8=-2247/4593, 3-8=-1275/626, 2-10=-762/1403

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 12 and 518 lb uplift at joint 7.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb down and 301 lb up at 21-0-0, and 300 lb down and 301 lb up at 21-0-0 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
9) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-80, 7-12=-20
Concentrated Loads (lb)
Vert: 8=-123 (F=-61, B=-61)

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482240
3907862	N15	Monopitch Girder	2	1	Job Reference (optional)

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

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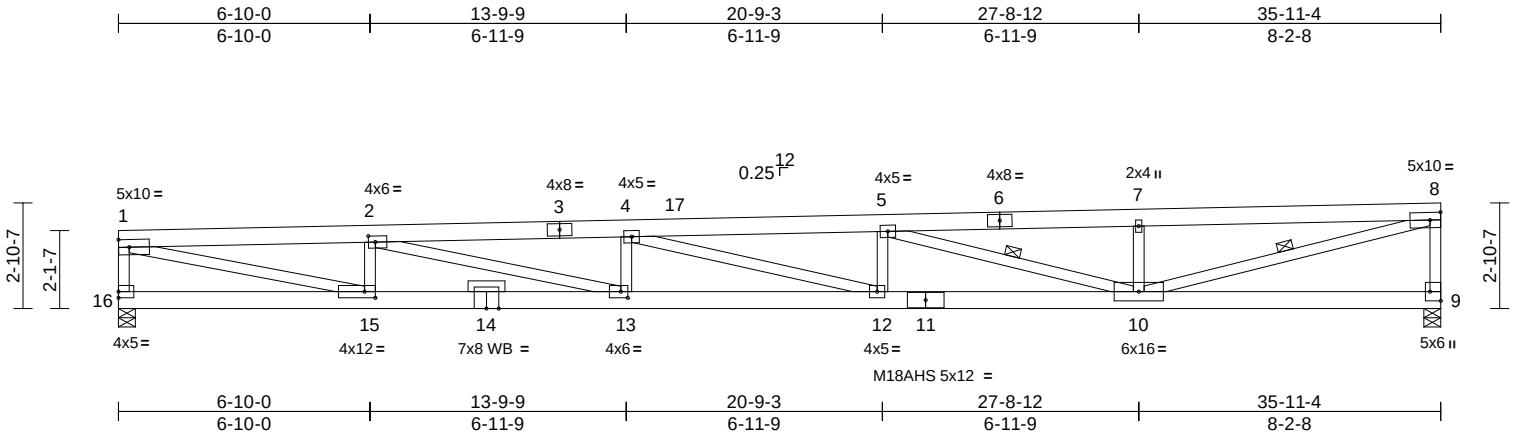

Scale = 1:62.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.63	12-13	>681	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-1.26	12-13	>340	180	M18AHS	169/162
BCLL	0.0*	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.11	9	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 209 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-4 oc bracing.
WEBS 1 Row at midpt 8-10, 5-10

REACTIONS (size) 9=0-5-8, 16=0-5-8
Max Horiz 16=60 (LC 9)
Max Uplift 9=-337 (LC 12), 16=-173 (LC 8)
Max Grav 9=1830 (LC 1), 16=1796 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-16=-1687/345, 1-2=-5456/1017, 2-4=-7798/1552, 4-5=-7561/1722, 5-7=-5234/1531, 7-8=-5236/1536, 8-9=-1721/514
BOT CHORD 15-16=-125/207, 13-15=-1081/5449, 12-13=-1605/7790, 10-12=-1752/7553, 9-10=-53/131
WEBS 1-15=-1008/5401, 2-15=-1208/342, 4-13=-477/227, 5-12=0/321, 7-10=-640/231, 8-10=-1554/5319, 5-10=-2446/490, 4-12=-362/262, 2-13=-561/2419

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 20-9-8, Corner (3) 20-9-8 to 35-9-8 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) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 16 and 337 lb uplift at joint 9.
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) 300 lb down and 301 lb up at 27-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-8=-80, 9-16=-20
Concentrated Loads (lb)
Vert: 10=-61 (B)

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482241
3907862	N16	Monopitch	2	1	Job Reference (optional)

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

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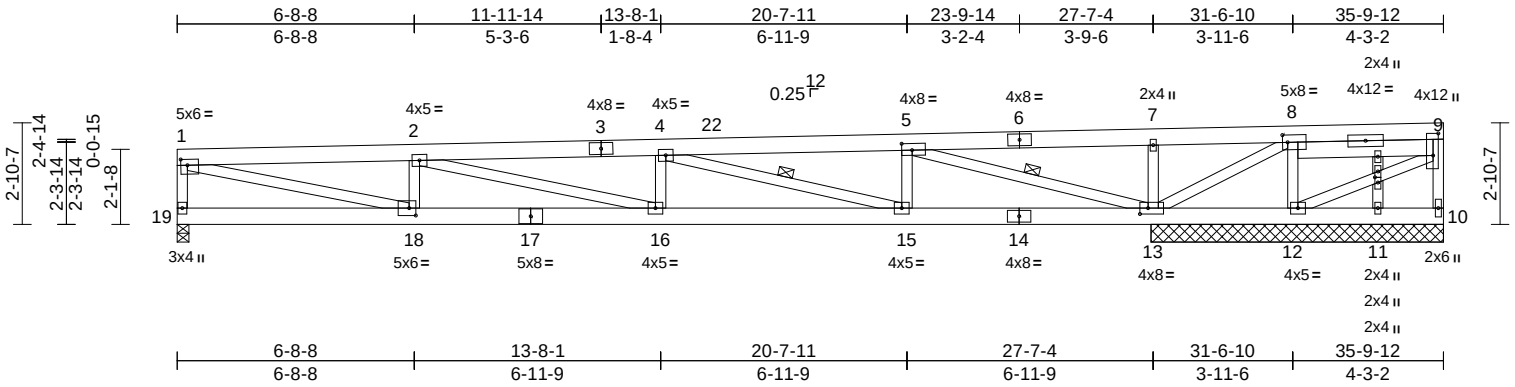

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Plate Offsets (X, Y): [1:0-2-4,0-2-0], [5:0-3-8,0-2-4], [8:0-1-12,0-2-8], [9:0-7-8,0-1-12], [13:0-2-12,0-2-0], [18:0-2-4,0-2-8], [21:0-1-12,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.22	16-18	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.44	16-18	>748	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 218 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 5-13:2x4 DF 1800F 1.6E
OTHERS 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-15 oc bracing.
WEBS 1 Row at midpt 5-13, 4-15

REACTIONS (size) 10=8-3-4, 11=8-3-4, 12=8-3-4, 13=8-3-4, 19=0-4-0
Max Horiz 19=73 (LC 36)
Max Uplift 10=-378 (LC 38), 12=-209 (LC 37), 13=-390 (LC 37), 19=-147 (LC 29)
Max Grav 10=687 (LC 33), 11=138 (LC 3), 12=1738 (LC 19), 13=3633 (LC 1), 19=1124 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-19=-1031/261, 1-2=-2973/714, 2-4=-3218/645, 4-5=-1082/499, 5-7=-919/2631, 7-8=-1138/2644, 8-9=-727/1096, 9-10=-666/403
BOT CHORD 18-19=-110/156, 16-18=-748/2967, 15-16=-1032/3212, 13-15=-936/1350, 12-13=-1952/1483, 11-12=-1009/1003, 10-11=-427/417
WEBS 2-18=-614/266, 4-16=-3/233, 5-15=-64/695, 7-13=-1296/284, 5-13=-3863/795, 4-15=-2218/561, 2-16=-295/436, 1-18=-681/2901, 8-12=-1414/430, 8-13=-1924/714, 9-12=-1298/817

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 20-8-0, Corner (3) 20-8-0 to 35-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Provide adequate drainage to prevent water ponding.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 19, 378 lb uplift at joint 10, 390 lb uplift at joint 13 and 209 lb uplift at joint 12.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) 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 27-7-4 to 35-9-12 for 243.7 plf.

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

Uniform Loads (lb/ft)
Vert: 1-7=-80, 7-9=-488, 10-19=-20

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482242
3907862	N17	Monopitch	12	1	Job Reference (optional)

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

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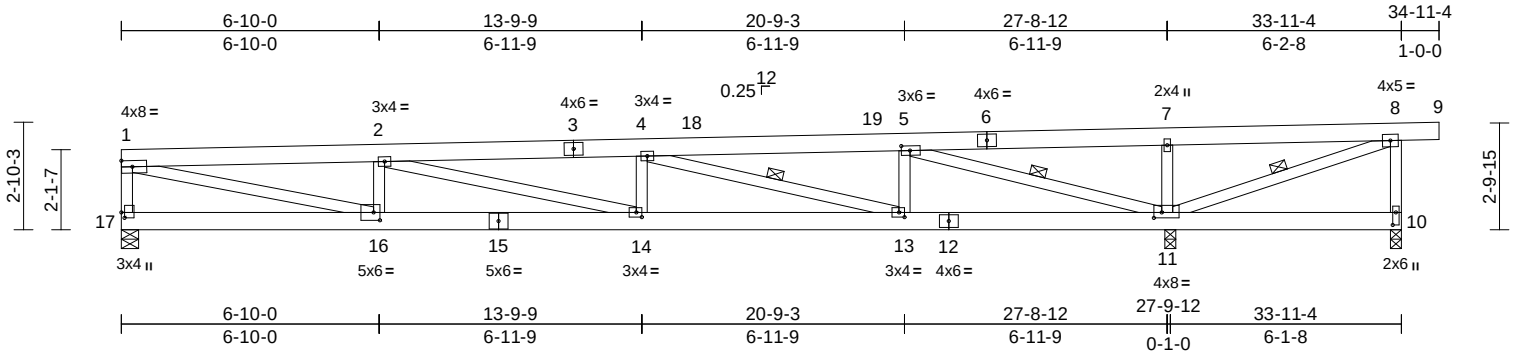

Scale = 1:61.1

Plate Offsets (X, Y): [5:0-2-12,0-1-8], [10:0-4-0,0-1-0], [11:0-2-8,0-1-12], [13:0-1-12,0-1-8], [14:0-1-12,0-1-8], [16:0-2-0,0-2-8], [17:0-1-12,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.24	14-16	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.48	14-16	>688	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 198 lb	FT = 10%

LUMBER
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 5-11:2x4 DF 1800F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 10-11.
WEBS 1 Row at midpt 4-13, 5-11, 8-11

REACTIONS (size) 10=0-3-8, 11=(0-3-8 + Two SBP4 MiTek), (req. 0-4-9), 17=0-5-8
Max Horiz 17=59 (LC 9)
Max Uplift 10=-503 (LC 1), 11=-163 (LC 12), 17=-69 (LC 8)
Max Grav 10=19 (LC 8), 11=2779 (LC 1), 17=1180 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-1084/207, 1-2=-3206/490, 2-4=-3586/542, 4-5=-1576/247, 5-7=-340/2081, 7-8=-335/2077, 8-9=-2/0, 8-10=-33/506
BOT CHORD 16-17=-113/168, 14-16=-554/3200, 13-14=-587/3579, 11-13=-268/1570, 10-11=-43/35
WEBS 7-11=-650/208, 5-13=0/655, 4-14=0/212, 2-16=-657/215, 1-16=-480/3126, 2-14=-58/392, 4-13=-2086/332, 5-11=-3805/584, 8-11=-2198/337

NOTES

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 15-1-12, Exterior (2) 15-1-12 to 19-11-4, Corner (3) 19-11-4 to 34-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 17, 503 lb uplift at joint 10 and 163 lb uplift at joint 11.
7) 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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482243
3907862	N18	Monopitch Supported Gable	2	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:51 Page: 1

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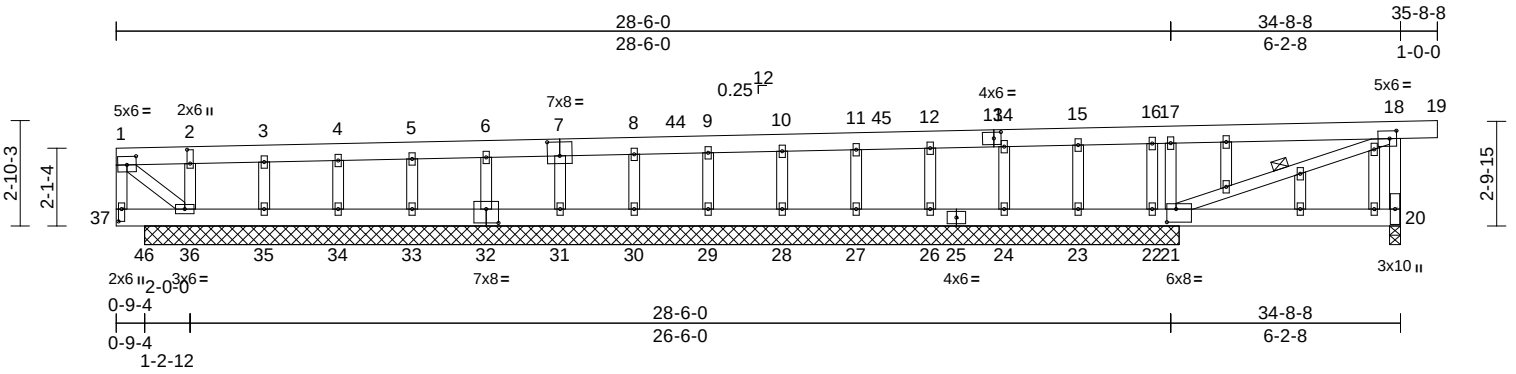

Scale = 1:62.3

Plate Offsets (X, Y): [1:0-3-0,0-2-12], [2:0-4-8,0-1-0], [7:0-4-0,0-4-8], [13:0-2-5,0-2-0], [18:0-2-4,0-2-8], [21:0-3-0,0-4-4], [32:0-4-0,0-4-8], [37:0-4-0,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	0.01	35-36	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.01	20-21	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.74	Horz(CT)	-0.03	20	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 194 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-3 oc bracing.
WEBS 1 Row at midpt 18-21

REACTIONS (size) 20=0-3-8, 21=27-11-8, 22=27-11-8, 23=27-11-8, 24=27-11-8, 26=27-11-8, 27=27-11-8, 28=27-11-8, 29=27-11-8, 30=27-11-8, 31=27-11-8, 32=27-11-8, 33=27-11-8, 34=27-11-8, 35=27-11-8, 36=27-11-8
Max Horiz 36=95 (LC 31)
Max Uplift 20=-1198 (LC 38), 21=-1267 (LC 29), 22=-323 (LC 3), 24=-18 (LC 37), 26=-11 (LC 29), 27=-12 (LC 38), 28=-13 (LC 29), 29=-16 (LC 38), 30=-25 (LC 29), 31=-33 (LC 38), 32=-40 (LC 29), 33=-83 (LC 38), 34=-315 (LC 29), 35=-1325 (LC 32), 36=-1112 (LC 29)
Max Grav 20=1318 (LC 49), 21=1743 (LC 50), 22=-12 (LC 29), 23=129 (LC 1), 24=215 (LC 1), 26=198 (LC 1), 27=200 (LC 1), 28=200 (LC 1), 29=200 (LC 1), 30=201 (LC 1), 31=199 (LC 1), 32=200 (LC 1), 33=198 (LC 1), 34=408 (LC 50), 35=1391 (LC 49), 36=1253 (LC 50)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-37=-507/515, 1-2=-1002/1023, 2-3=-819/840, 3-4=-564/585, 4-5=-317/323, 5-6=-170/194, 6-8=-652/678, 8-9=-893/920, 9-10=-1134/1162, 10-11=-1375/1403, 11-12=-1616/1645, 12-14=-1857/1887, 14-15=-2090/2112, 15-16=-2339/2371, 16-17=-2400/2433, 17-18=-3127/3155, 18-19=-2/0, 18-20=-1272/1265
BOT CHORD 36-37=-242/253, 35-36=-957/897, 34-35=-654/594, 33-34=-351/291, 31-33=-721/661, 30-31=-1024/964, 29-30=-1327/1267, 28-29=-1630/1570, 27-28=-1933/1873, 26-27=-2236/2176, 24-26=-2539/2479, 23-24=-2842/2782, 22-23=-3115/3055, 21-22=-3221/3161, 20-21=-66/57
WEBS 17-21=-526/207, 18-21=-3401/3335, 2-36=-1082/1008, 3-35=-646/660, 4-34=-188/160, 5-33=-160/74, 6-32=-160/68, 7-31=-160/72, 8-30=-161/66, 9-29=-160/57, 10-28=-160/52, 11-27=-160/52, 12-26=-158/53, 14-24=-178/61, 15-23=-82/31, 16-22=-39/77, 1-36=-1456/1475

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 20-8-8, Corner (3) 20-8-8 to 35-8-8 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) 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) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1198 lb uplift at joint 20, 1267 lb uplift at joint 21, 1112 lb uplift at joint 36, 1325 lb uplift at joint 35, 315 lb uplift at joint 34, 83 lb uplift at joint 33, 40 lb uplift at joint 32, 33 lb uplift at joint 31, 25 lb uplift at joint 30, 16 lb uplift at joint 29, 13 lb uplift at joint 28, 12 lb uplift at joint 27, 11 lb uplift at joint 26, 18 lb uplift at joint 24 and 323 lb uplift at joint 22.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 26,2024

Continued on page 2

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12) 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 0-9-4 to 28-6-0 for 151.5 plf.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482244
3907862	N19	Monopitch Girder	1	1	Job Reference (optional)

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:52 Page: 1

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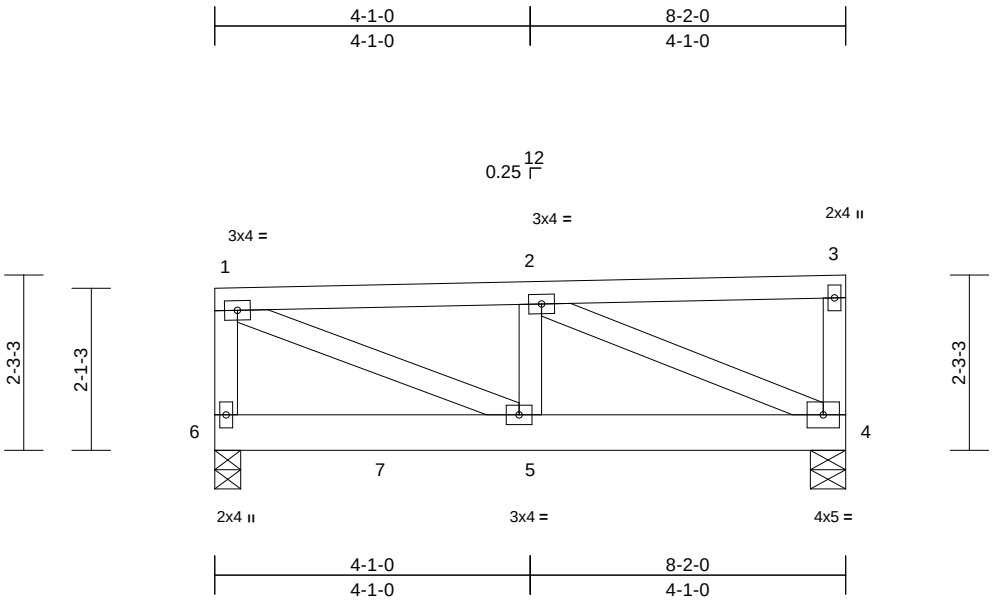

Scale = 1:29.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.01	5-6	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 41 lb	FT = 10%

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

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

REACTIONS (size) 4=0-5-8, 6=0-4-0
Max Horiz 6=47 (LC 9)
Max Uplift 4=-46 (LC 12), 6=-71 (LC 8)
Max Grav 4=500 (LC 1), 6=569 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-461/215, 1-2=-739/277, 2-3=-25/24, 3-4=-123/83
BOT CHORD 5-6=-66/59, 4-5=-313/737
WEBS 1-5=-315/804, 2-5=-49/222, 2-4=-811/326

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 6 and 46 lb uplift at joint 4.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 140 lb down and 35 lb up at 2-1-12, and 140 lb down and 35 lb up at 4-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) 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 + Roof Live (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)

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482245
3907862	N20	Flat Supported Gable	1	1	Job Reference (optional)

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

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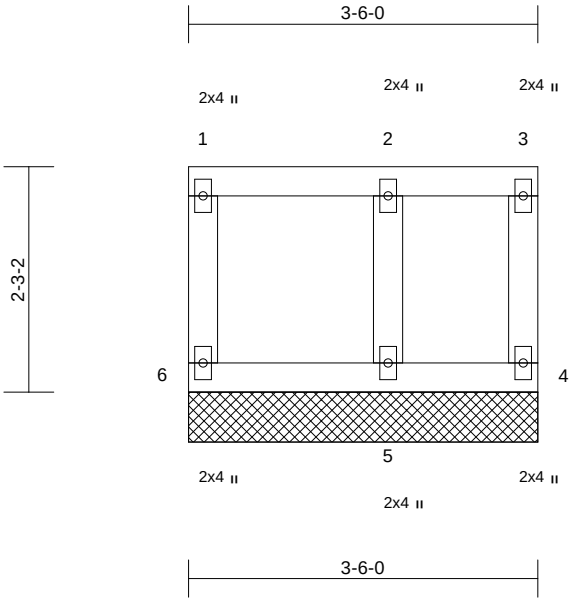

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 14 lb	FT = 10%

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

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

REACTIONS (size) 4=3-6-0, 5=3-6-0, 6=3-6-0
Max Horiz 6=48 (LC 9)
Max Uplift 4=-21 (LC 9), 5=-16 (LC 8), 6=-18 (LC 8)
Max Grav 4=51 (LC 1), 5=190 (LC 1), 6=80 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-64/62, 1-2=-8/11, 2-3=-8/11, 3-4=-40/48
BOT CHORD 5-6=-49/57, 4-5=-49/57
WEBS 2-5=-152/122

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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 6, 21 lb uplift at joint 4 and 16 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.

LOAD CASE(S) Standard

March 26,2024

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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482246
3907862	N21	Flat	1	1	Job Reference (optional)

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

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Page: 1

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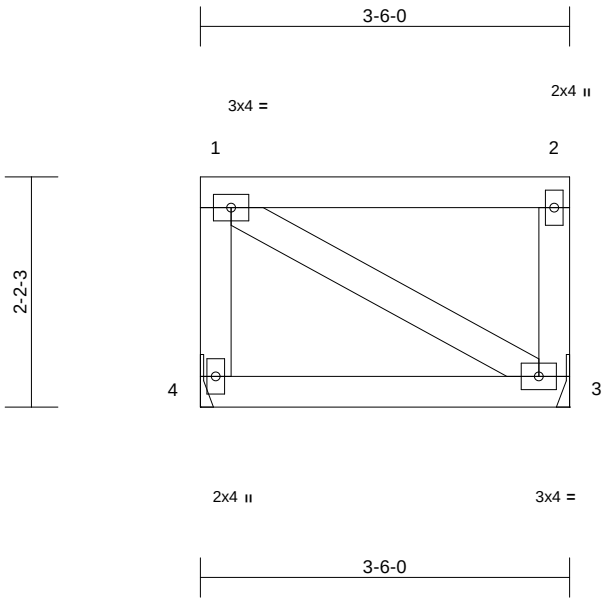

Scale = 1:21.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	3-4	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 16 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 3-6-0 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=-46 (LC 10)
Max Uplift 3=-23 (LC 9), 4=-23 (LC 8)
Max Grav 3=160 (LC 1), 4=160 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-128/125, 1-2=-23/25, 2-3=-128/100
BOT CHORD 3-4=-65/67
WEBS 1-3=-48/48

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 23 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

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482247
3907862	N22	Flat	1	1	Job Reference (optional)

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

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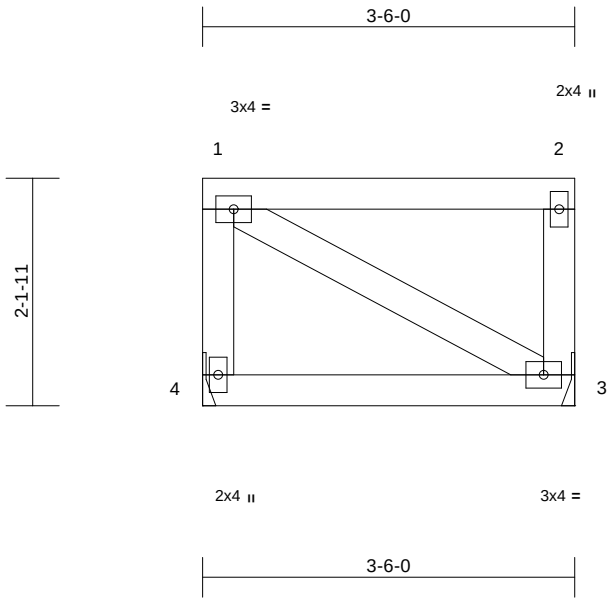

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	3-4	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 16 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 3-6-0 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=45 (LC 11)
Max Uplift 3=-23 (LC 9), 4=-23 (LC 8)
Max Grav 3=160 (LC 1), 4=160 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-128/124, 1-2=-23/25, 2-3=-128/100
BOT CHORD 3-4=-64/66
WEBS 1-3=-47/47

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 23 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

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482248
3907862	N23	Jack-Open Girder	1	1	Job Reference (optional)

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

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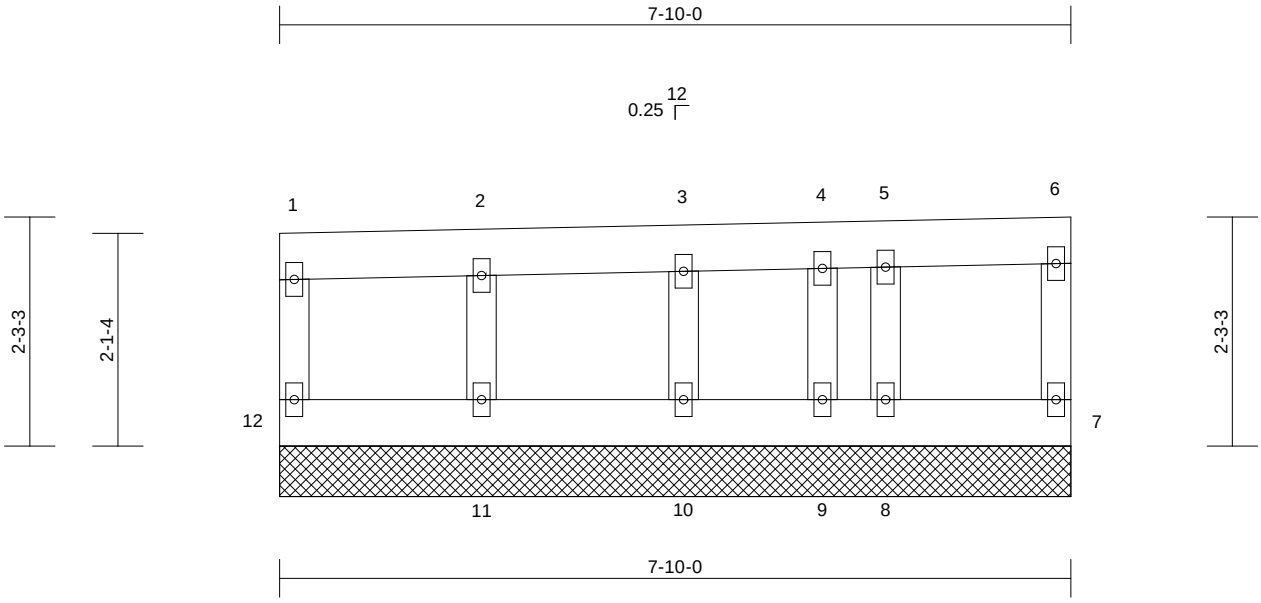

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 42 lb	FT = 10%

LUMBER

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

BRACING

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

REACTIONS (size) 7=7-10-0, 8=7-10-0, 9=7-10-0, 10=7-10-0, 11=7-10-0, 12=7-10-0
Max Horiz 12=45 (LC 9)
Max Uplift 7=-11 (LC 9), 8=-20 (LC 8), 9=-11 (LC 9), 10=-47 (LC 8), 11=-40 (LC 9), 12=-16 (LC 8)
Max Grav 7=76 (LC 1), 8=132 (LC 1), 9=85 (LC 1), 10=311 (LC 1), 11=356 (LC 1), 12=75 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-12=-60/51, 1-2=-9/8, 2-3=-9/10, 3-4=-8/12, 4-5=-8/14, 5-6=-8/15, 6-7=-61/55
BOT CHORD	11-12=-40/44, 10-11=-40/44, 9-10=-40/44, 8-9=-40/44, 7-8=-40/44
WEBS	4-9=-74/53, 2-11=-172/135, 3-10=-135/95, 5-8=-101/77

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) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
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 DF No.2 crushing capacity of 625 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 12, 11 lb uplift at joint 7, 11 lb uplift at joint 9, 40 lb uplift at joint 11, 47 lb uplift at joint 10 and 20 lb uplift at joint 8.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 140 lb down and 35 lb up at 1-9-12, and 140 lb down and 35 lb up at 3-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-80, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-140 (F), 10=-140 (F)

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482249
3907862	P01	Flat Supported Gable	2	1	Job Reference (optional)

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

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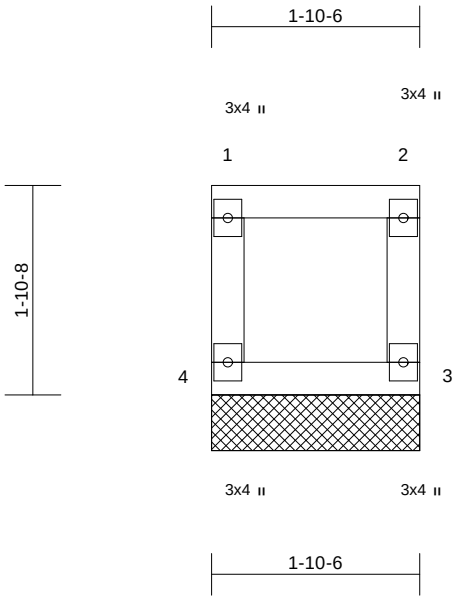

Scale = 1:20.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=1-10-6, 4=1-10-6
Max Horiz 4=-39 (LC 10)
Max Uplift 3=-117 (LC 32), 4=-117 (LC 29)
Max Grav 3=269 (LC 33), 4=269 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-194/45, 1-2=-90/83, 2-3=-168/79
BOT CHORD 3-4=-110/104

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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) 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.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) 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.
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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-164, 3-4=-20

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482250
3907862	P02	Flat	2	1	Job Reference (optional)

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

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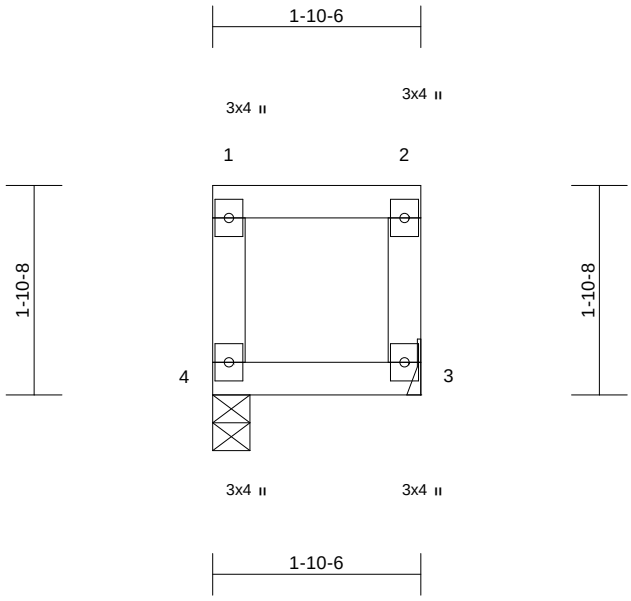

Scale = 1:20.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	0.00	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4=0-4-0
Max Horiz 4=-39 (LC 10)
Max Uplift 3=-117 (LC 32), 4=-117 (LC 29)
Max Grav 3=269 (LC 33), 4=269 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-191/47, 1-2=-90/81, 2-3=-168/77
BOT CHORD 3-4=-108/104

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Refer to girder(s) for truss to truss connections.
7) 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.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-164, 3-4=-20

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482251
3907862	P03	Flat	18	1	Job Reference (optional)

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

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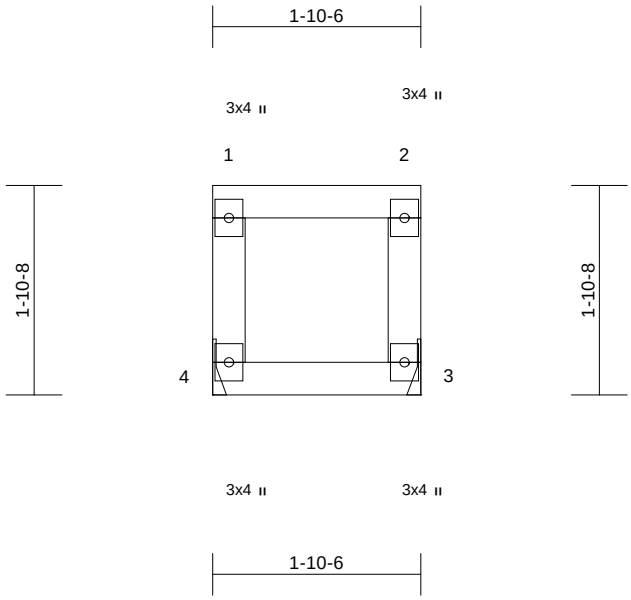

Scale = 1:20.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	0.00	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-10-6 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=-39 (LC 10)
Max Uplift 3=-117 (LC 32), 4=-117 (LC 29)
Max Grav 3=269 (LC 33), 4=269 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-191/47, 1-2=-90/81, 2-3=-168/77
BOT CHORD 3-4=-108/104

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Refer to girder(s) for truss to truss connections.
7) 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.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-164, 3-4=-20

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482252
3907862	P04	Roof Special	2	1	Job Reference (optional)

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

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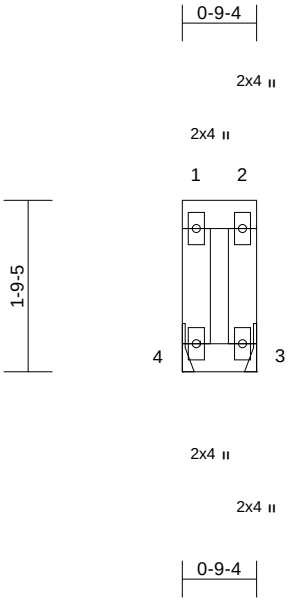

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 5 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 0-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=-37 (LC 10)
Max Uplift 3=-187 (LC 32), 4=-187 (LC 29)
Max Grav 3=233 (LC 33), 4=233 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-137/75, 1-2=-29/27, 2-3=-114/103
BOT CHORD 3-4=-58/44

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 4 and 187 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.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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 0-9-4 for 100.0 plf.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-164, 3-4=-20

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482253
3907862	P05	Flat	8	1	Job Reference (optional)

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

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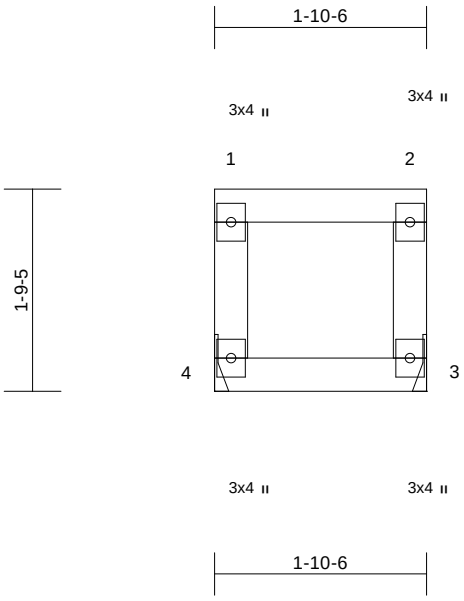

Scale = 1:20.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	0.00	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-10-6 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 10)
Max Uplift 3=-105 (LC 32), 4=-105 (LC 29)
Max Grav 3=257 (LC 33), 4=257 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-185/44, 1-2=-90/80, 2-3=-164/70
BOT CHORD 3-4=-106/103

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 4 and 105 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.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-164, 3-4=-20

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482254
3907862	P06	Flat Supported Gable	27	1	Job Reference (optional)

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

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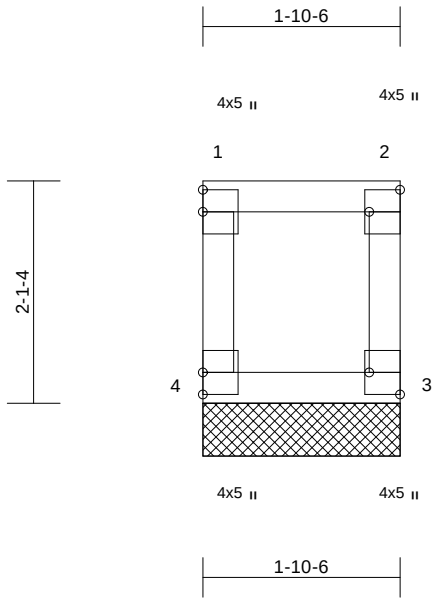

Scale = 1:21.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=1-10-6, 4=1-10-6
Max Horiz 4=45 (LC 35)
Max Uplift 3=-392 (LC 32), 4=-392 (LC 29)
Max Grav 3=412 (LC 33), 4=412 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-234/207, 1-2=-164/167, 2-3=-204/252
BOT CHORD 3-4=-200/181

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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 392 lb uplift at joint 4 and 392 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 200.0 plf.

LOAD CASE(S) Standard

March 26,2024

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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 LEGACY EAST TOWN CROSSING BLD G R81482255
3907862	P07	Flat Supported Gable	26	1	Job Reference (optional)

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

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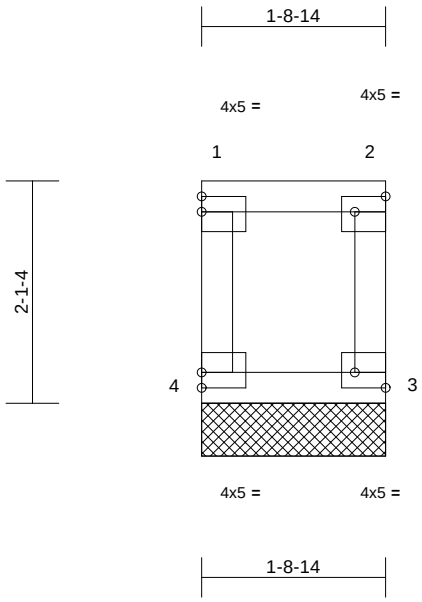

Scale = 1:21.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.39	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=1-8-14, 4=1-8-14
Max Horiz 4=-45 (LC 8)
Max Uplift 3=-532 (LC 32), 4=-532 (LC 29)
Max Grav 3=550 (LC 33), 4=550 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-301/273, 1-2=-206/209, 2-3=-270/318
BOT CHORD 3-4=-243/223

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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) 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.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 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 1-8-14 for 276.0 plf.

LOAD CASE(S) Standard

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482256
3907862	P08	Flat Supported Gable	2	1	Job Reference (optional)

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

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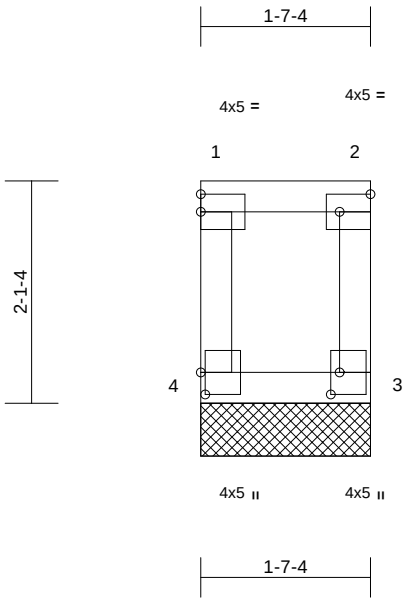

Scale = 1:21.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.35	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-7-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=1-7-4, 4=1-7-4
Max Horiz 4=-45 (LC 8)
Max Uplift 3=-534 (LC 32), 4=-534 (LC 29)
Max Grav 3=551 (LC 33), 4=551 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-300/272, 1-2=-188/190, 2-3=-268/315
BOT CHORD 3-4=-225/205

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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) 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.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482257
3907862	P09	Flat Supported Gable	2	1	Job Reference (optional)

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

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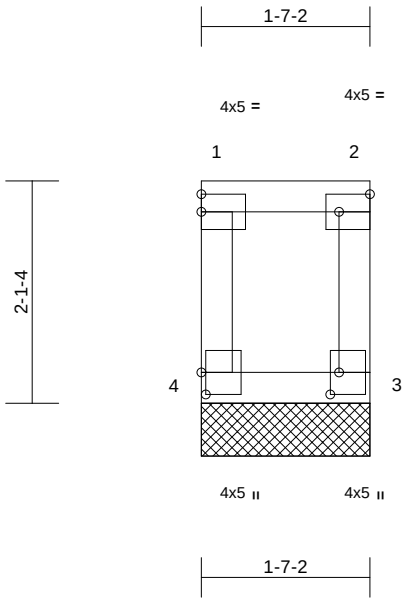

Scale = 1:21.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.35	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=1-7-2, 4=1-7-2
Max Horiz 4=-45 (LC 8)
Max Uplift 3=-534 (LC 32), 4=-534 (LC 29)
Max Grav 3=551 (LC 33), 4=551 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-300/272, 1-2=-186/188, 2-3=-268/315
BOT CHORD 3-4=-223/203

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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) 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.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 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 1-7-2 for 276.0 plf.

LOAD CASE(S) Standard

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482258
3907862	P10	Roof Special	2	1	Job Reference (optional)

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

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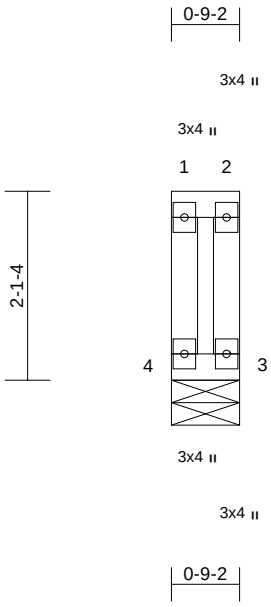

Scale = 1:25.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 0-9-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=0-9-2, 4=0-9-2
Max Horiz 4=-45 (LC 30)
Max Uplift 3=-587 (LC 32), 4=-587 (LC 29)
Max Grav 3=593 (LC 33), 4=593 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-308/269, 1-2=-70/72, 2-3=-267/313
BOT CHORD 3-4=-110/88

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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) 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.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 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 0-9-2 for 276.0 plf.

LOAD CASE(S) Standard

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482259
3907862	P11	Roof Special	2	1	Job Reference (optional)

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

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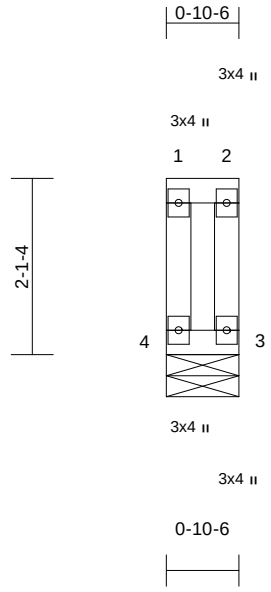

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 6 lb	FT = 10%

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

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

REACTIONS (size) 3=0-10-6, 4=0-10-6
Max Horiz 4=-45 (LC 33)
Max Uplift 3=-572 (LC 32), 4=-572 (LC 29)
Max Grav 3=579 (LC 33), 4=579 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-305/270, 1-2=-85/86, 2-3=-269/312
BOT CHORD 3-4=-124/103

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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 572 lb uplift at joint 4 and 572 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 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 0-10-6 for 276.0 plf.

LOAD CASE(S) Standard

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482260
3907862	P12	Flat Supported Gable	1	1	Job Reference (optional)

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:53 Page: 1
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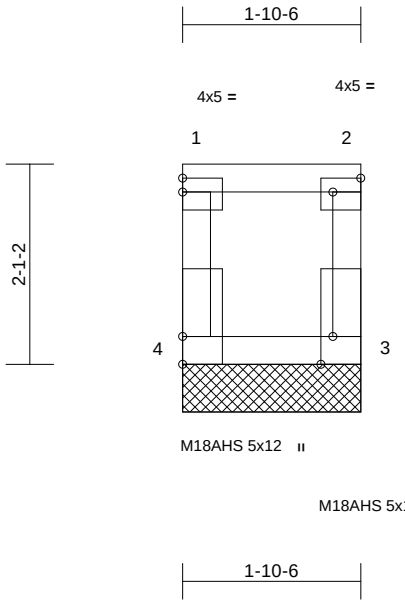

Scale = 1:24.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	M18AHS	145/140
TCDL	15.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	n/a	-	n/a	999	MT20	185/148
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-10 oc bracing.

REACTIONS (size) 3=1-10-6, 4=1-10-6
Max Horiz 4=44 (LC 35)
Max Uplift 3=-528 (LC 32), 4=-528 (LC 29)
Max Grav 3=548 (LC 33), 4=548 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-301/275, 1-2=-224/227, 2-3=-271/319
BOT CHORD 3-4=-259/240

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) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
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 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 528 lb uplift at joint 4 and 528 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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482261
3907862	P13	Flat Supported Gable	22	1	Job Reference (optional)

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:53 Page: 1
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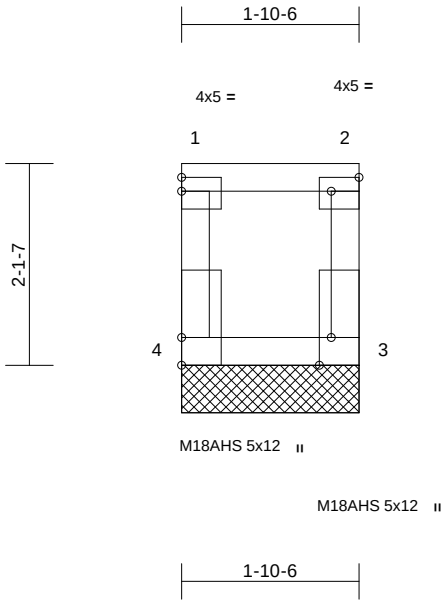

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Plate Offsets (X, Y): [1:Edge,0-1-12], [2:Edge,0-1-12], [3:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	M18AHS	145/140
TCDL	15.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	n/a	-	n/a	999	MT20	185/148
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-3 oc bracing.

REACTIONS (size) 3=1-10-6, 4=1-10-6
Max Horiz 4=-45 (LC 29)
Max Uplift 3=-536 (LC 32), 4=-536 (LC 29)
Max Grav 3=556 (LC 33), 4=556 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-305/278, 1-2=-224/227, 2-3=-275/323
BOT CHORD 3-4=-260/241

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) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
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 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 536 lb uplift at joint 4 and 536 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

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482262
3907862	P14	Flat Supported Gable	2	1	Job Reference (optional)

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

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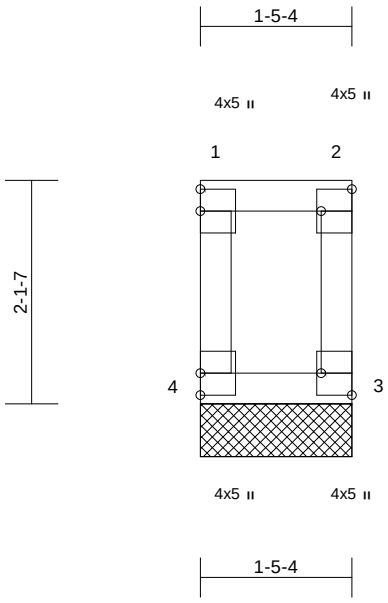

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Plate Offsets (X, Y): [2:Edge,0-3-8], [3:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=1-5-4, 4=1-5-4
Max Horiz 4=-45 (LC 10)
Max Uplift 3=-544 (LC 32), 4=-544 (LC 29)
Max Grav 3=559 (LC 33), 4=559 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-303/275, 1-2=-164/166, 2-3=-271/316
BOT CHORD 3-4=-203/182

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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 544 lb uplift at joint 4 and 544 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 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 1-5-4 for 276.0 plf.

LOAD CASE(S) Standard

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482263
3907862	P15	Flat Supported Gable	4	1	Job Reference (optional)

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

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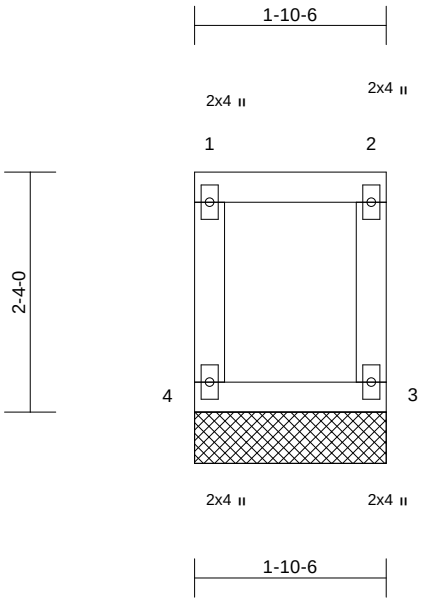

Scale = 1:22.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 9 lb	FT = 10%

LUMBER
TOP CHORD 2x4 DF 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 10-0-0 oc bracing.

REACTIONS (size) 3=1-10-6, 4=1-10-6
Max Horiz 4=-50 (LC 10)
Max Uplift 3=-71 (LC 9), 4=-71 (LC 8)
Max Grav 3=665 (LC 19), 4=654 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-639/370, 1-2=-33/23, 2-3=-639/370
BOT CHORD 3-4=-58/75

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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 4 and 71 lb uplift at joint 3.
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
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-812, 3-4=-20

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482264
3907862	P16	Flat	2	1	Job Reference (optional)

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

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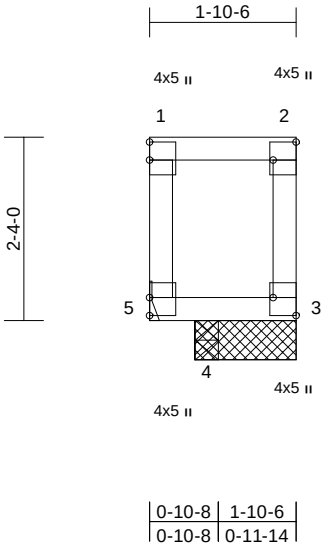

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Plate Offsets (X, Y): [2:Edge,0-3-8], [3:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	0.00	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 9 lb	FT = 10%

LUMBER
TOP CHORD 2x4 DF 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=1-3-8, 4=0-3-8, 5= Mechanical
Max Horiz 5=50 (LC 35)
Max Uplift 3=-261 (LC 32), 4=-122 (LC 1), 5=-325 (LC 29)
Max Grav 3=704 (LC 19), 4=79 (LC 29), 5=731 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-638/421, 1-2=-125/117, 2-3=-639/466
BOT CHORD 4-5=-153/138, 3-4=-146/132

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 325 lb uplift at joint 5, 261 lb uplift at joint 3 and 122 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) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-812, 3-5=-20

March 26,2024

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

Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482265
3907862	P17	Flat	6	1	Job Reference (optional)

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

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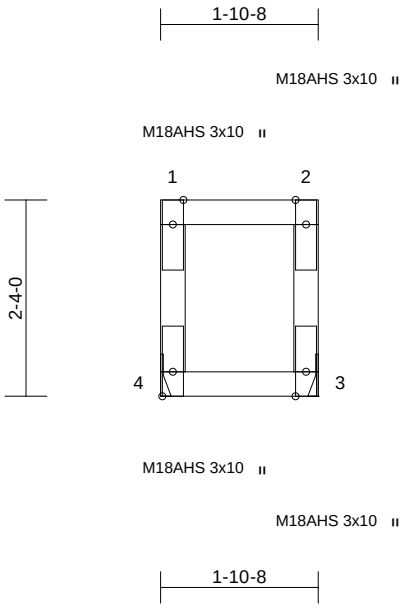

Scale = 1:27.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	0.00	3-4	>999	240	M18AHS	145/140
TCDL	15.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	0.00	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 9 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-10-8 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=50 (LC 35)
Max Uplift 3=-275 (LC 32), 4=-275 (LC 29)
Max Grav 3=669 (LC 19), 4=659 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-643/422, 1-2=-104/99, 2-3=-643/473
BOT CHORD 3-4=-134/117

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 4 and 275 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.
9) 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 1-10-8 for 100.0 plf.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-812, 3-4=-20

March 26,2024

MiTek®
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Roseville, CA 95661
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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482266
3907862	P18	Flat	2	1	Job Reference (optional)

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:54 Page: 1
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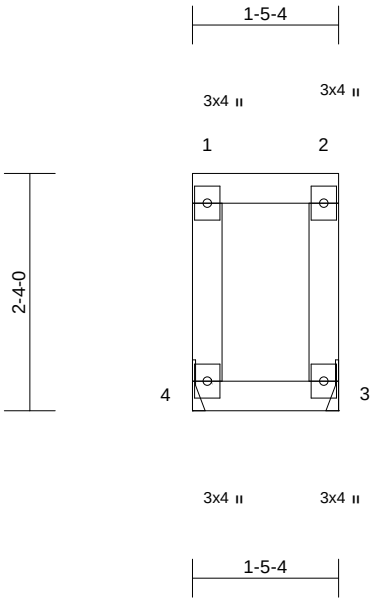
PRMU20240404



Scale = 1:22.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.00	3-4	>999	240	MT20	185/148
TCDL	15.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.00	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 1-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=50 (LC 11)
Max Uplift 3=-277 (LC 32), 4=-277 (LC 29)
Max Grav 3=553 (LC 33), 4=492 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-465/316, 1-2=-73/70, 2-3=-469/382
BOT CHORD 3-4=-105/86

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) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 4 and 277 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.
9) 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 1-5-4 for 100.0 plf.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-812, 3-4=-20

March 26,2024

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Job	Truss	Truss Type	Qty	Ply	MKM LEGACY EAST TOWN CROSSING BLD G R81482267
3907862	P19	Flat	10	1	Job Reference (optional)

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

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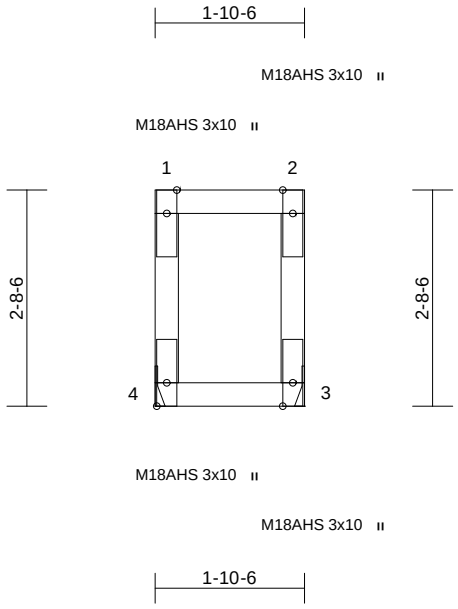

Scale = 1:28.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.00	3-4	>999	240	M18AHS	145/140
TCDL	15.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	0.00	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							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 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=59 (LC 11)
Max Uplift 3=-290 (LC 32), 4=-290 (LC 29)
Max Grav 3=310 (LC 33), 4=310 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-185/152, 1-2=-87/86, 2-3=-147/203
BOT CHORD 3-4=-133/110

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 290 lb uplift at joint 4 and 290 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.
9) 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

March 26,2024

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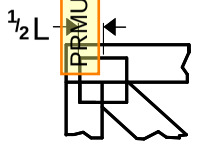
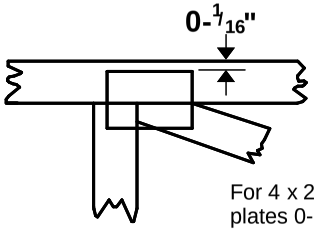
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

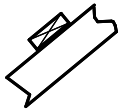
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

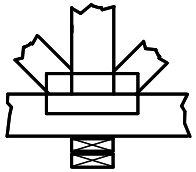
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

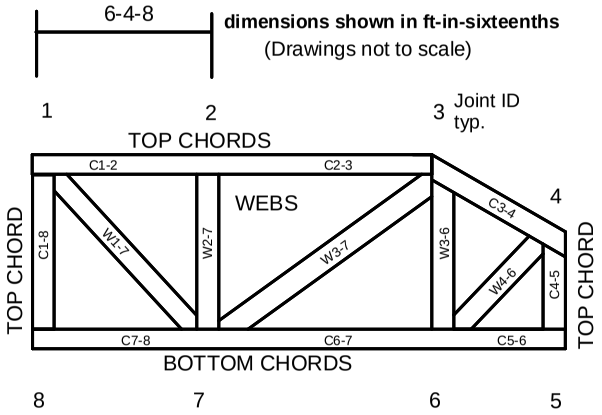


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

MiTek®

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.