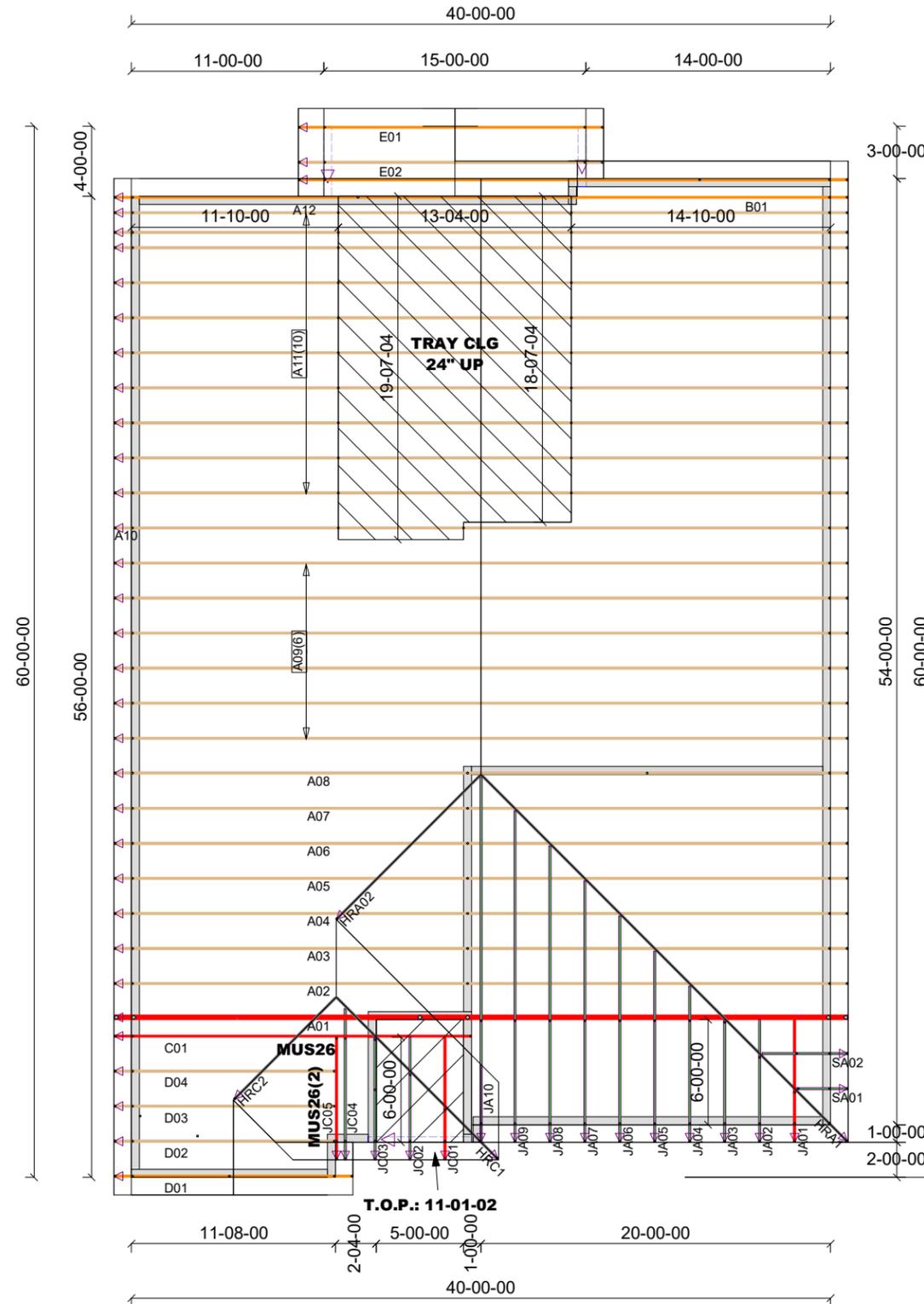


**TRIANGLE SHAPE ▲ INDICATES LEFT END ON LAYOUT AND TRUSS DRAWING ON STAMPED ENGINEERING PAGE**

**VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION**  
**T.O.P.:9-01-02 U.N.O**



Garage Right

Use LUS24 Hangers UNO

TC LL = 25  
 TC DL = 7  
 BC LL = 0  
 BC DL = 10  
 Total Load = 42  
 Wind Speed = 120  
 Exposure = B  
 Roof pitch = 7/12  
 Overhang = 12"

Jurisdiction Stamp

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

DATE: 3/13/2024	SCALE: NTS
SALESMAN: Jody Platta	PROJECT #: 3905208
DESIGNER: Karen Moreno	

SW Washington and Oregon Components  
 Woodland Office: 360-841-5900  
 Beaverton Office: 971-371-5971

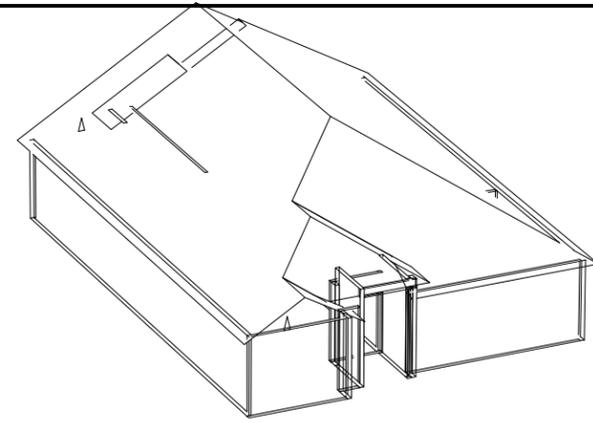


BUILDER: Canopy

PROJECT: 1708 plan

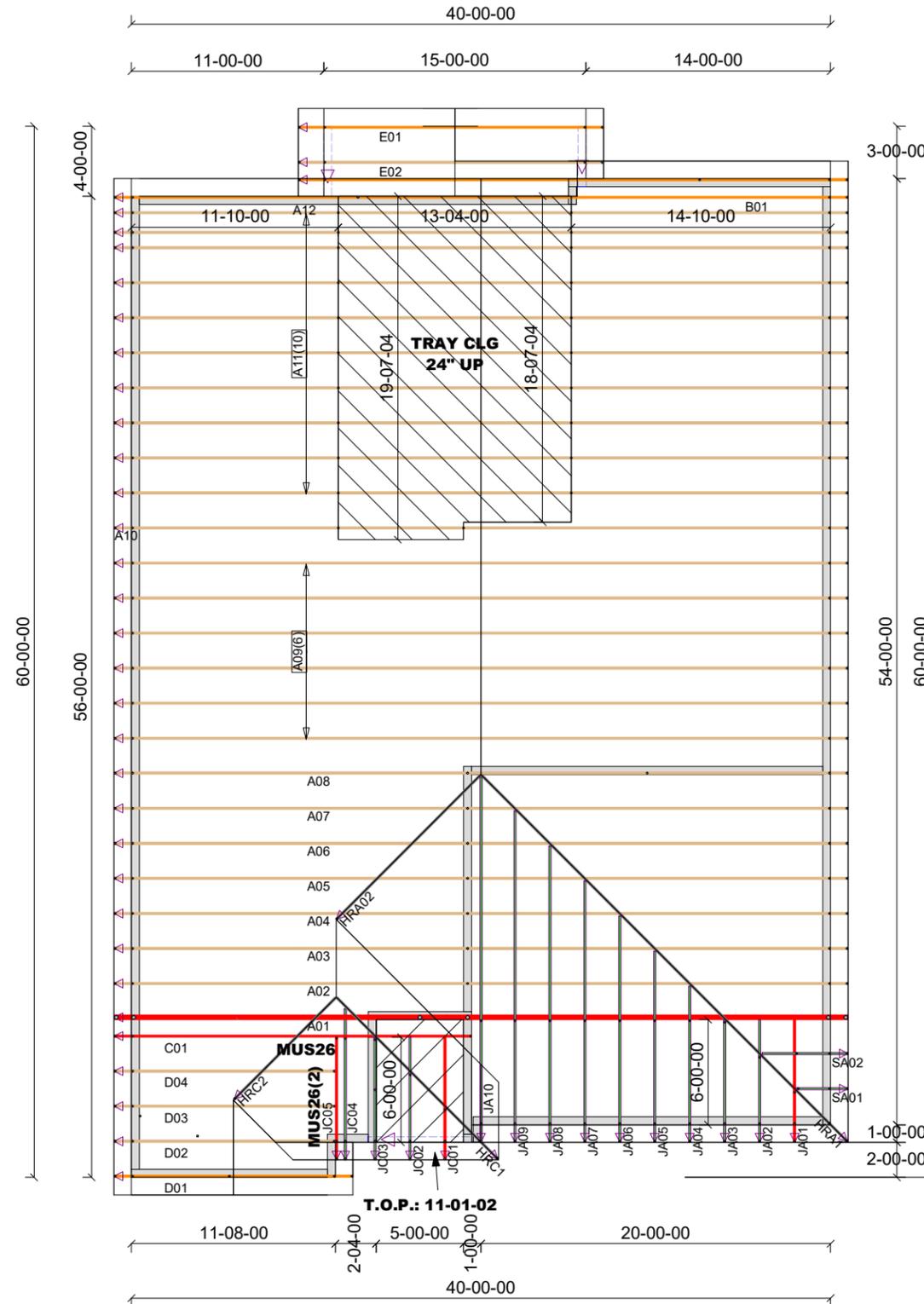
ADDRESS: 4016 N College St, Newberg, OR

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



**TRIANGLE SHAPE ▲ INDICATES LEFT END ON LAYOUT AND TRUSS DRAWING ON STAMPED ENGINEERING PAGE**

**VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION**  
**T.O.P.:9-01-02 U.N.O**



Garage Right

Use LUS24 Hangers UNO

TC LL = 25  
 TC DL = 7  
 BC LL = 0  
 BC DL = 10  
 Total Load = 42  
 Wind Speed = 120  
 Exposure = B  
 Roof pitch = 7/12  
 Overhang = 12"

Jurisdiction Stamp

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

DATE: 3/13/2024	SCALE: NTS
SALESMAN: Jody Platta	PROJECT #: 3905208
DESIGNER: Karen Moreno	

SW Washington and Oregon Components  
 Woodland Office: 360-841-5900  
 Beaverton Office: 971-371-5971



BUILDER: Canopy

PROJECT: 1708 plan

ADDRESS: 4016 N College St, Newberg, OR

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

Re: 3905208  
Canopy - 1708 plan

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 (Beaverton, OR).

Pages or sheets covered by this seal: R81312201 thru R81312241

My license renewal date for the state of Oregon is December 31, 2024.



*Dustin Reinmuth*  
EXPIRES: 12/31/2024

March 14, 2024

Reinmuth, Dustin

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

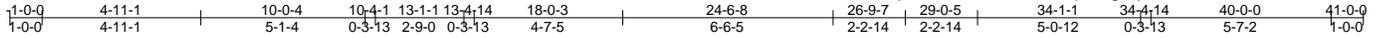
Job 3905208	Truss A01	Truss Type California Girder	Qty 1	Ply 2	Canopy - 1708 plan Job Reference (optional)	R81312201
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Builders FirstSource (Beaverton, OR),

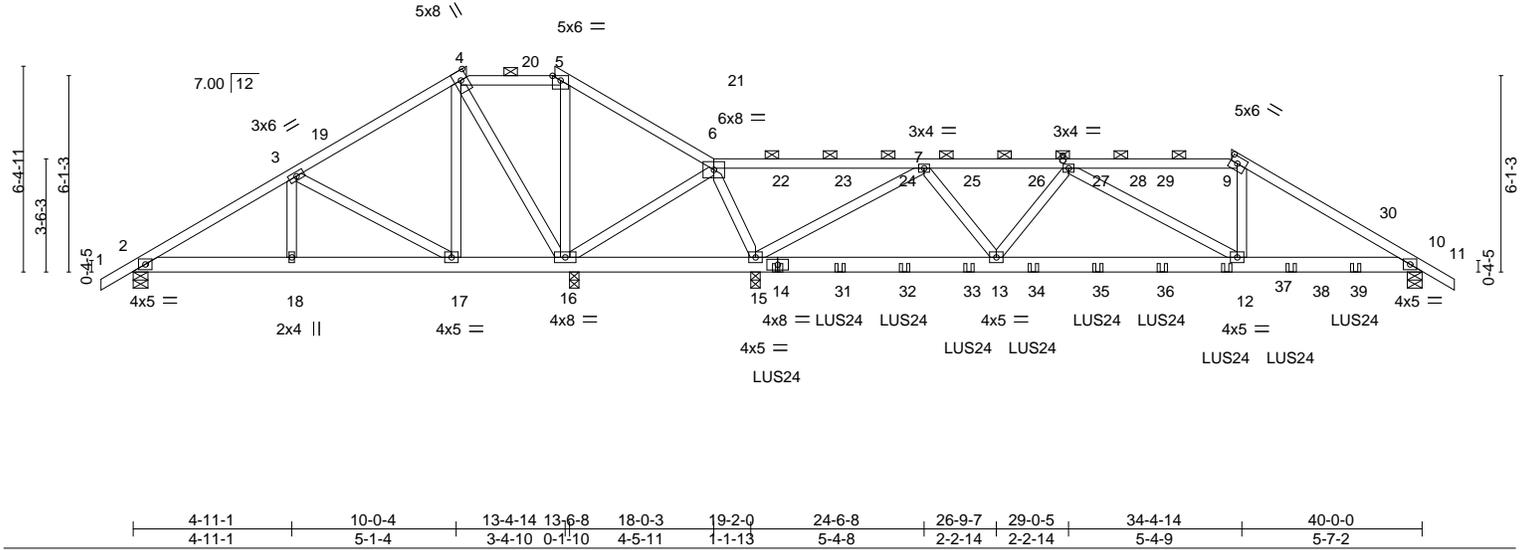
Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:38 2024 Page 1

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Scale = 1:71.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.42	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.23	Vert(LL) -0.03 12-13 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.39	Vert(CT) -0.07 12-13 >999 180		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH	Horz(CT) 0.01 10 n/a n/a		
				Weight: 446 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5, 6-9.
BOT CHORD 2x6 DF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17,15-16.
WEBS 2x4 DF No.2	

**REACTIONS.** All bearings 0-5-8 except (jt=length) 16=0-3-8, 15=0-3-8.  
 (lb) - Max Horz 2=102(LC 35)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 16 except 10=121(LC 13), 15=277(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) except 2=487(LC 25), 10=1387(LC 26), 16=820(LC 1), 15=2511(LC 26)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-538/117, 4-5=-17/386, 5-6=-22/513, 6-7=-144/1293, 7-8=-1727/221, 8-9=-1878/267, 9-10=-2272/263  
 BOT CHORD 2-18=-68/451, 17-18=-68/451, 15-16=-1029/161, 13-15=-239/1198, 12-13=-266/2057, 10-12=-162/1896  
 WEBS 3-17=-462/84, 4-17=0/312, 4-16=-756/95, 5-16=-526/106, 6-16=-164/791, 9-12=0/556, 6-15=-838/197, 7-15=-2886/443, 7-13=0/916, 8-13=-572/189, 8-12=-254/158

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-2-0, Exterior(2E) 10-2-0 to 13-3-2, Exterior(2R) 13-3-2 to 17-3-2, Interior(1) 17-3-2 to 34-3-2, Exterior(2R) 34-3-2 to 38-3-2, Interior(1) 38-3-2 to 41-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16 except (jt=lb) 10=121, 15=277.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



EXPIRES: 12/31/2024  
 March 14, 2024

Continued on page 2

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

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

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

Job 3905208	Truss A01	Truss Type California Girder	Qty 1	Ply <b>2</b>	Canopy - 1708 plan Job Reference (optional)	R81312201
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:38 2024 Page 2  
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**NOTES-**

- 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 6-0-0 oc max. starting at 20-0-0 from the left end to 37-11-4 to connect truss(es) to front face of bottom chord.
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 27-11-4 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 29-11-4 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 113 lb down and 128 lb up at 10-2-0, 34 lb down and 22 lb up at 12-2-12, 118 lb down and 132 lb up at 13-3-2, 207 lb down and 149 lb up at 20-0-0, 215 lb down and 148 lb up at 21-11-4, 215 lb down and 147 lb up at 23-11-4, 215 lb down and 146 lb up at 25-11-4, 215 lb down and 145 lb up at 27-11-4, 215 lb down and 144 lb up at 29-11-4, and 210 lb down and 138 lb up at 31-11-4, and 421 lb down and 249 lb up at 34-3-2 on top 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 (plf)

Vert: 1-4=-64, 4-5=-64, 5-6=-64, 6-9=-64, 9-11=-64, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-67 5=-73 9=-279 14=-36(F) 20=-34 22=-109 23=-117 24=-117 25=-117 26=-117 27=-117 29=-117 31=-37(F) 32=-37(F) 33=-37(F) 34=-37(F) 35=-37(F) 36=-37(F) 37=-37(F) 38=-37(F) 39=-39(F)

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

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

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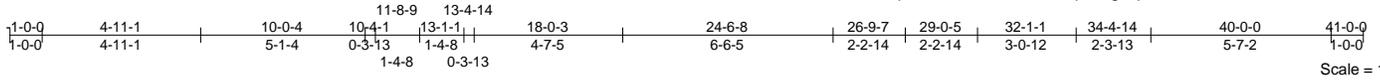
400 Sunrise Ave., Suite 270  
Roseville, CA 95661  
916.755.3571 / MiTek-US.com

Job 3905208	Truss A02	Truss Type CALIFORNIA GIRDER	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312202
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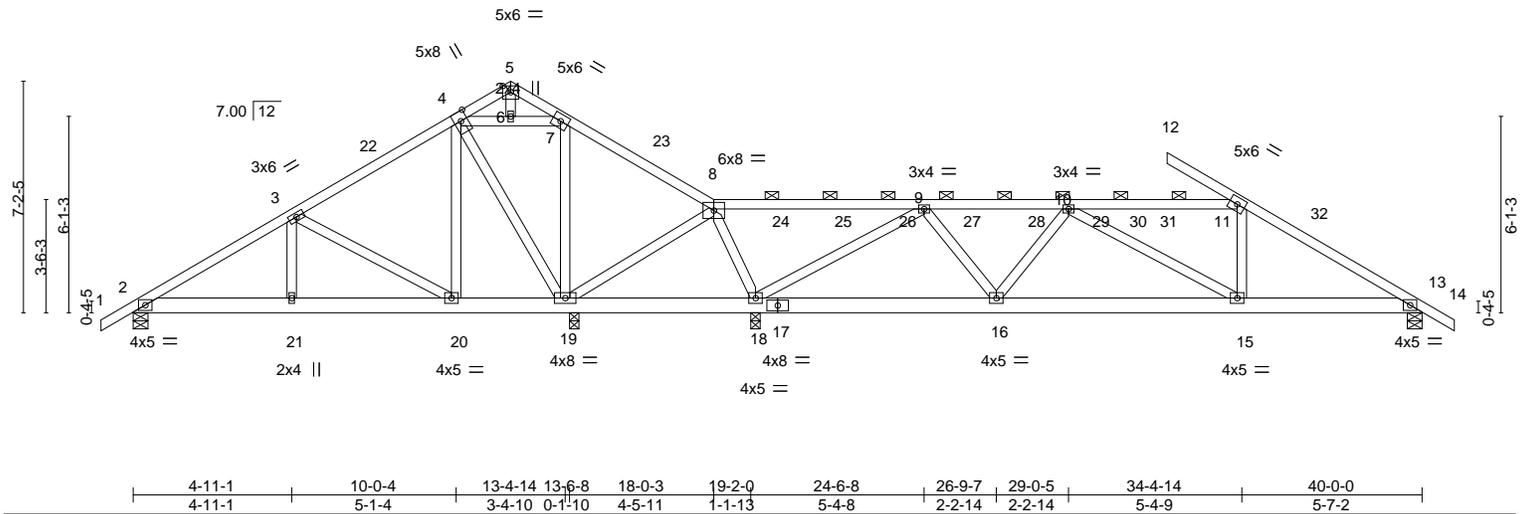
Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:39 2024 Page 1  
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Scale = 1:71.2



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL 2-0-0 Lumber DOL 1.15	TC 0.45 BC 0.24 WB 0.91 Matrix-SH	in (loc) l/defl L/d Vert(LL) -0.04 15-16 >999 240 Vert(CT) -0.07 15-16 >999 180 Horz(CT) 0.02 13 n/a n/a	MT20	220/195
TCDL 7.0	Rep Stress Incr NO				
BCLL 0.0 *	Code IRC2018/TPI2014				
BCDL 10.0				Weight: 232 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x6 DF No.2  
WEBS 2x4 DF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-7, 8-11.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20,18-19.

**REACTIONS.** All bearings 0-5-8 except (jt=length) 19=0-3-8, 18=0-3-8.  
(lb) - Max Horz 2=146(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 19 except 18=119(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) except 2=500(LC 25), 13=854(LC 26), 19=860(LC 1), 18=1398(LC 26)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-560/89, 7-8=0/408, 8-9=-63/702, 9-10=-894/280, 10-11=-1018/440, 11-13=-1262/308  
BOT CHORD 2-21=-47/471, 20-21=-47/471, 18-19=-553/233, 16-18=-84/620, 15-16=-167/1068, 13-15=-210/1026  
WEBS 3-20=-443/67, 4-20=0/294, 4-19=-638/50, 7-19=-404/69, 8-19=-52/372, 11-15=0/277, 8-18=-499/141, 9-18=-1522/348, 9-16=-76/478, 10-16=-303/191, 10-15=-272/208

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-8-9, Exterior(2R) 11-8-9 to 15-8-9, Interior(1) 15-8-9 to 34-3-2, Exterior(2R) 32-1-1 to 36-1-1, Interior(1) 36-1-1 to 41-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 19 except (jt=lb) 18=119.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 91 lb up at 20-0-0, 101 lb down and 92 lb up at 21-11-4, 98 lb down and 91 lb up at 23-11-4, 98 lb down and 91 lb up at 25-11-4, 98 lb down and 91 lb up at 27-11-4, and 93 lb down and 86 lb up at 29-11-4, and 139 lb down and 142 lb up at 32-0-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.



**LOAD CASE(S)** Standard

**EXPIRES: 12/31/2024**  
March 14, 2024

Continued on page 2

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

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

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Job 3905208	Truss A02	Truss Type CALIFORNIA GIRDER	Qty 1	Ply 1	Canopy - 1708 plan R81312202 Job Reference (optional)
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:39 2024 Page 2  
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**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-64, 4-5=-64, 5-7=-64, 7-8=-64, 8-31=-64, 11-31=-14, 11-12=-64, 11-14=-64, 2-13=-20

Concentrated Loads (lb)

Vert: 25=-3

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

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

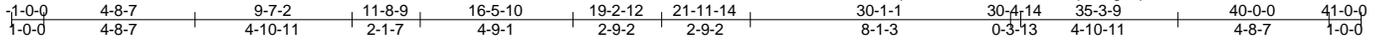
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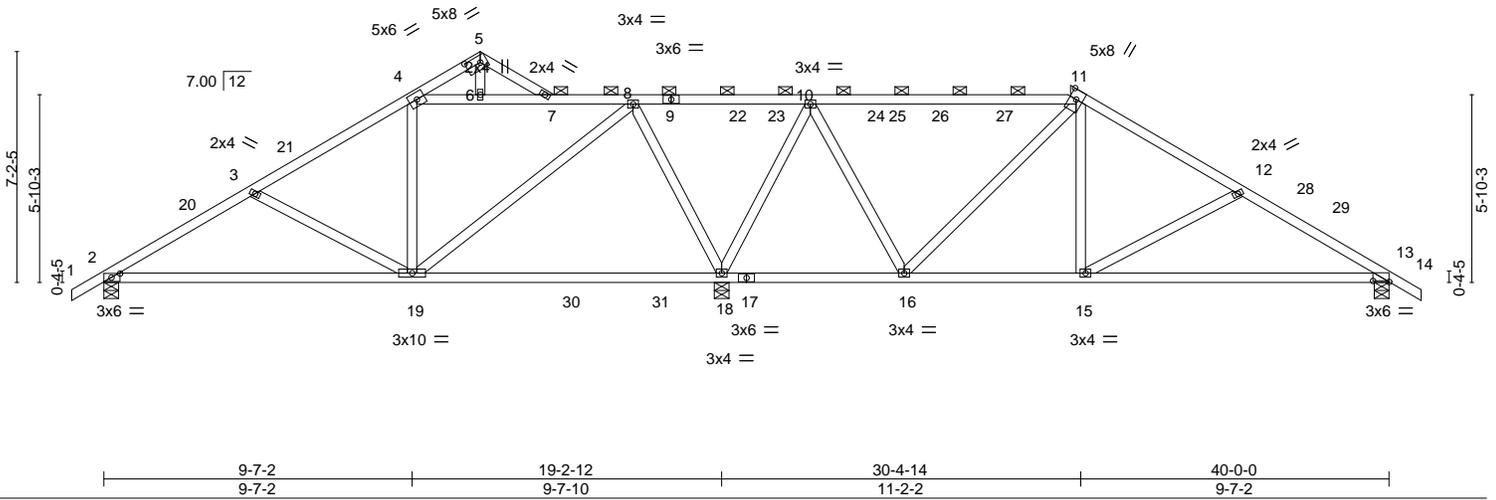
Job 3905208	Truss A03	Truss Type California	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312203
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:40 2024 Page 1

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Scale = 1:71.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.17 18-19 >999 240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.28 13-15 >888 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.02 13 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH		Weight: 200 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 DF No.1&Btr	2-0-0 oc purlins (6-0-0 max.): 4-11.
WEBS 2x4 DF No.2 *Except* 5-7: 2x4 DF No.1&Btr	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 2=0-5-8, 18=0-5-8, 13=0-5-8  
 Max Horz 2=110(LC 35)  
 Max Uplift 2=24(LC 37), 18=42(LC 12), 13=52(LC 13)  
 Max Grav 2=723(LC 19), 18=2139(LC 43), 13=847(LC 44)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-850/86, 3-4=-578/68, 4-6=-435/133, 6-7=-435/133, 7-8=-466/134, 8-10=0/658,  
 11-12=-804/111, 12-13=-1067/144  
 BOT CHORD 2-19=-82/778, 18-19=-313/80, 15-16=-28/609, 13-15=-81/882  
 WEBS 3-19=-322/89, 8-19=-28/906, 8-18=-863/68, 11-16=-626/46, 11-15=0/463,  
 12-15=-332/145, 10-18=-1172/170, 10-16=0/637

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-8-9, Exterior(2R) 13-11-12 to 19-7-10, Interior(1) 19-7-10 to 30-3-2, Exterior(2R) 30-3-2 to 35-11-0, Interior(1) 35-11-0 to 41-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 13.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down and 84 lb up at 20-0-0, 100 lb down and 82 lb up at 21-11-4, 100 lb down and 82 lb up at 23-11-4, 100 lb down and 82 lb up at 25-11-4, and 95 lb down and 78 lb up at 27-11-4, and 141 lb down and 113 lb up at 30-3-2 on top 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



EXPIRES: 12/31/2024  
 March 14, 2024

Continued on page 2

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

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

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Job 3905208	Truss A03	Truss Type California	Qty 1	Ply 1	Canopy - 1708 plan R81312203 Job Reference (optional)
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:40 2024 Page 2  
ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-4=-64, 4-5=-64, 7-11=-64, 11-14=-64, 2-13=-20

Concentrated Loads (lb)

Vert: 23=-3

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

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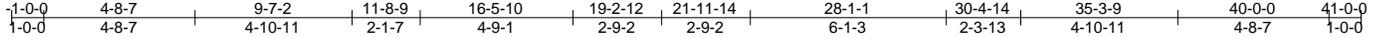
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Job 3905208	Truss A04	Truss Type California	Qty 1	Ply 1	Canopy - 1708 plan R81312204
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:41 2024 Page 1

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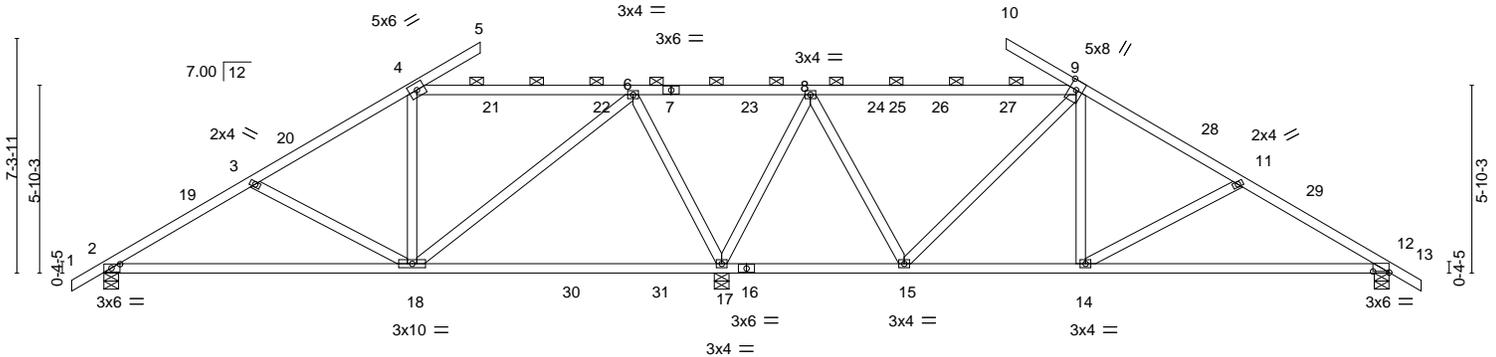


Plate Offsets (X,Y)--	[2:0-3-3,0-1-8], [12:0-6-0,0-0-6]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.57	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.53	Vert(LL) -0.17 17-18 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Vert(CT) -0.28 12-14 >882 180		
BCDL 10.0	Code IRC2018/TP12014	Matrix-SH	Horz(CT) 0.02 12 n/a n/a	Weight: 198 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 DF No.1&Btr	2-0-0 oc purlins (6-0-0 max.): 4-9.
WEBS 2x4 DF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 2=0-5-8, 17=0-5-8, 12=0-5-8  
 Max Horz 2=-133(LC 8)  
 Max Uplift 2=-11(LC 37), 17=-28(LC 9), 12=-39(LC 13)  
 Max Grav 2=739(LC 19), 17=2176(LC 2), 12=841(LC 44)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-927/76, 3-4=-667/95, 4-6=-534/223, 6-8=0/672, 9-11=-800/174, 11-12=-1048/140  
 BOT CHORD 2-18=-94/805, 17-18=-284/150, 14-15=-65/627, 12-14=-44/862  
 WEBS 3-18=-302/93, 6-18=-133/953, 6-17=-1014/207, 9-15=-664/139, 9-14=0/448,  
 11-14=-299/106, 8-17=-1150/261, 8-15=-62/668

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-8-9, Exterior(2R) 9-8-14 to 15-4-12, Interior(1) 15-4-12 to 30-3-2, Exterior(2R) 28-1-1 to 33-8-15, Interior(1) 33-8-15 to 41-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17, 12.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 82 lb up at 20-0-0, 81 lb down and 82 lb up at 21-11-4, 81 lb down and 82 lb up at 23-11-4, and 91 lb down and 78 lb up at 25-11-4, and 68 lb down and 131 lb up at 28-0-7 on top 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 (plf)
Vert: 1-4=-64, 4-5=-64, 4-21=-14, 21-27=-64, 9-27=-14, 9-10=-64, 9-13=-64, 2-12=-20
Concentrated Loads (lb)
Vert: 21=31



EXPIRES: 12/31/2024  
 March 14, 2024

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Job 3905208	Truss A05	Truss Type California	Qty 1	Ply 1	Canopy - 1708 plan R81312205
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:41 2024 Page 1

ID:Re14btGhkz4RiGOatcuqzLzbM9tRfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-0-0	4-8-7	9-7-2	13-10-15	16-5-10	19-2-12	21-11-14	26-1-1	30-4-14	35-3-9	40-0-0	41-0-0
1-0-0	4-8-7	4-10-11	4-3-13	2-6-11	2-9-2	2-9-2	4-1-3	4-3-13	4-10-11	4-8-7	1-0-0

Scale = 1:70.9

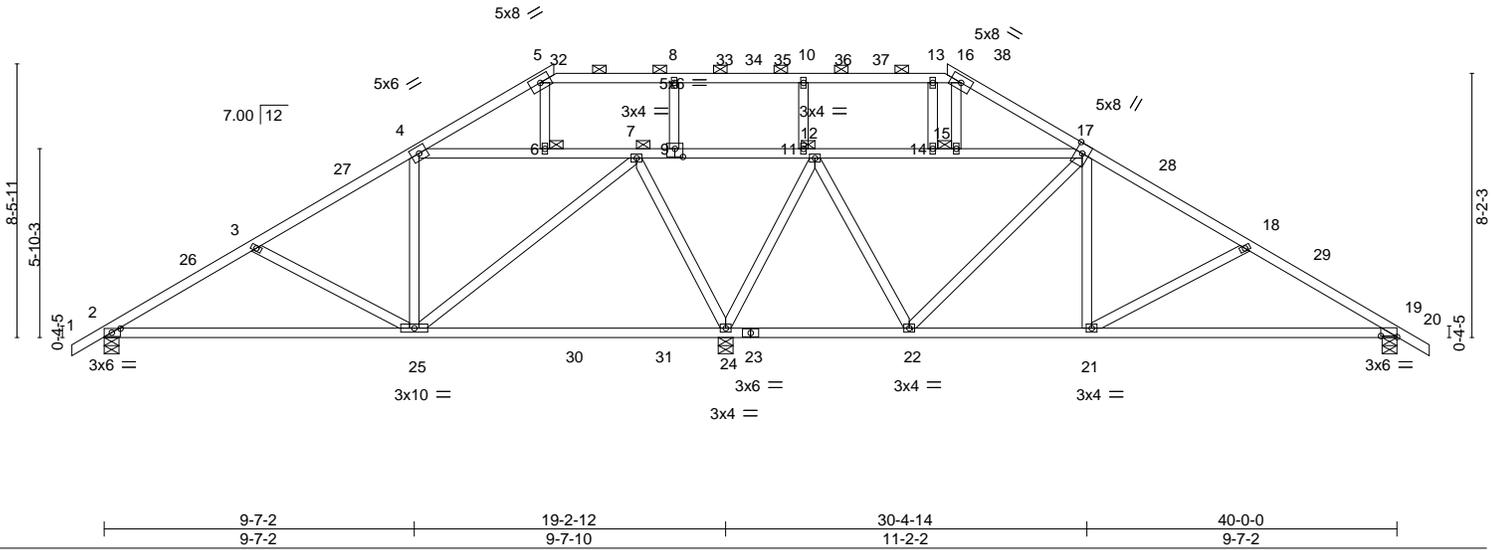


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [9:0-3-0,0-3-0], [19:0-6-0,0-0-6]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.17 24-25 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.65	Vert(CT) -0.28 19-21 >887 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 19 n/a n/a		
	Code IRC2018/TPI2014			Weight: 236 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins, except
BOT CHORD 2x4 DF No.1&Btr	2-0-0 oc purlins (6-0-0 max.): 4-17, 5-16.
WEBS 2x4 DF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 DF No.2	JOINTS 1 Brace at Jt(s): 7, 12, 6, 15

**REACTIONS.** (size) 2=0-5-8, 24=0-5-8, 19=0-5-8  
 Max Horz 2=135(LC 11)  
 Max Uplift 2=-29(LC 12), 24=-7(LC 12), 19=-53(LC 13)  
 Max Grav 2=783(LC 25), 24=2078(LC 43), 19=879(LC 44)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1024/78, 3-4=-736/70, 4-5=-371/115, 4-6=-419/117, 6-7=-425/118, 7-9=-18/812,  
 9-11=-17/810, 11-12=-17/810, 16-17=-368/112, 17-18=-865/103, 18-19=-1141/122  
 BOT CHORD 2-25=-93/880, 24-25=-257/70, 21-22=-5/678, 19-21=-51/937  
 WEBS 3-25=-311/85, 7-25=-32/991, 7-24=-921/72, 17-22=-677/46, 17-21=0/452,  
 18-21=-308/88, 12-24=-1096/139, 12-22=0/680, 10-11=-311/102

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-5-6, Exterior(2R) 13-5-6 to 19-1-5, Interior(1) 19-1-5 to 26-6-10, Exterior(2R) 26-6-10 to 32-2-8, Interior(1) 32-2-8 to 41-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 19.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 43 lb down and 105 lb up at 13-11-9, 81 lb down and 82 lb up at 20-0-0, 96 lb down and 82 lb up at 21-11-4, and 91 lb down and 78 lb up at 23-11-4, and 45 lb down and 113 lb up at 26-0-7 on top 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



EXPIRES: 12/31/2024  
 March 14, 2024

Continued on page 2

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

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Job 3905208	Truss A05	Truss Type California	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312205
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:42 2024 Page 2  
ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-4=-64, 4-5=-64, 16-17=-64, 17-20=-64, 2-19=-20, 5-16=-64

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

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Job 3905208	Truss A06	Truss Type California	Qty 1	Ply 1	Canopy - 1708 plan R81312206
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:42 2024 Page 1  
 ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

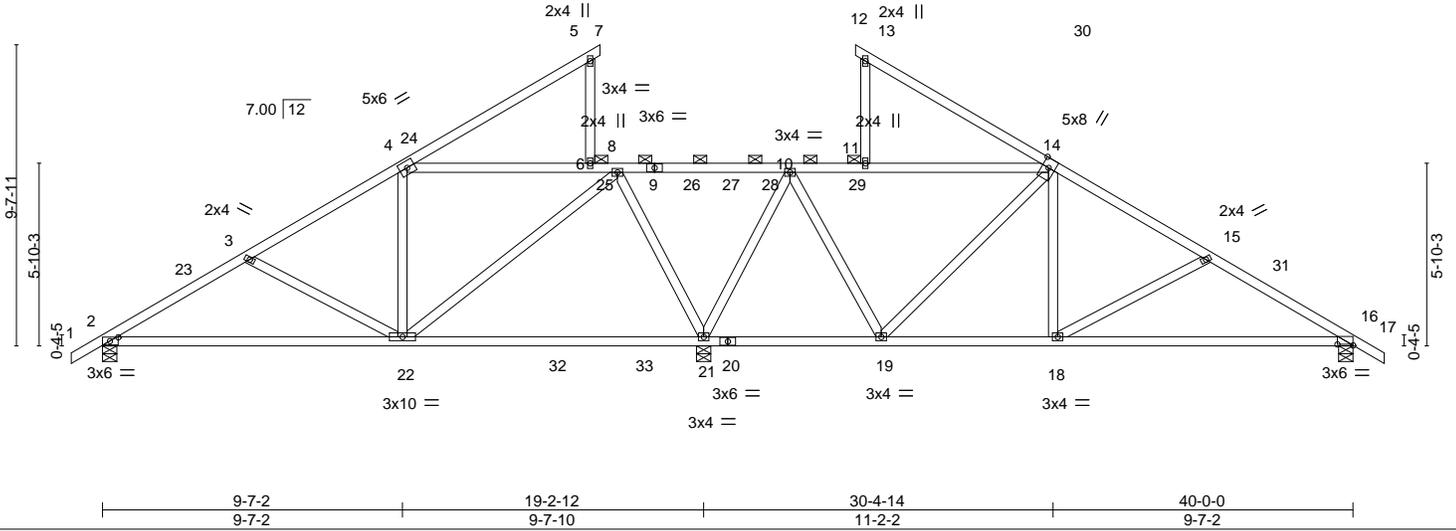
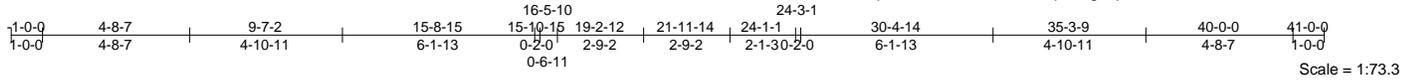


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [16:0-6-0,0-0-6]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.53	Vert(LL) -0.17 21-22 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.69	Vert(CT) -0.28 16-18 >886 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 16 n/a n/a		
	Code IRC2018/TPI2014			Weight: 220 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 DF No.1&Btr	2-0-0 oc purlins (6-0-0 max.): 4-14.
WEBS 2x4 DF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 2=0-5-8, 21=0-5-8, 16=0-5-8  
 Max Horz 2=-158(LC 10)  
 Max Uplift 2=-2(LC 12), 21=-9(LC 12), 16=-16(LC 13)  
 Max Grav 2=743(LC 25), 21=2223(LC 43), 16=840(LC 44)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-942/21, 3-4=-672/1, 4-6=-535/130, 6-8=-535/130, 8-10=0/683, 14-15=-799/35, 15-16=-1057/50  
 BOT CHORD 2-22=-77/832, 21-22=-295/96, 18-19=0/627, 16-18=0/862  
 WEBS 3-22=-291/79, 8-22=0/967, 8-21=-1039/115, 14-19=-685/18, 14-18=0/437, 15-18=-274/75, 10-21=-1158/145, 10-19=0/685

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 15-10-15, Exterior(2R) 15-7-3 to 21-3-1, Interior(1) 21-3-1 to 24-4-13, Exterior(2R) 24-1-1 to 29-8-15, Interior(1) 29-8-15 to 41-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 21, 16.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 124 lb down and 100 lb up at 15-11-9, 96 lb down and 82 lb up at 20-0-0, and 91 lb down and 78 lb up at 21-11-4, and 108 lb down and 75 lb up at 24-0-7 on top 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 (plf)  
 Vert: 1-4=-64, 4-7=-64, 6-25=-14, 25-29=-64, 11-29=-14, 12-14=-64, 14-17=-64, 2-16=-20



EXPIRES: 12/31/2024  
 March 14, 2024

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Job 3905208	Truss A07	Truss Type California	Qty 1	Ply 1	Canopy - 1708 plan R81312207
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Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:43 2024 Page 1

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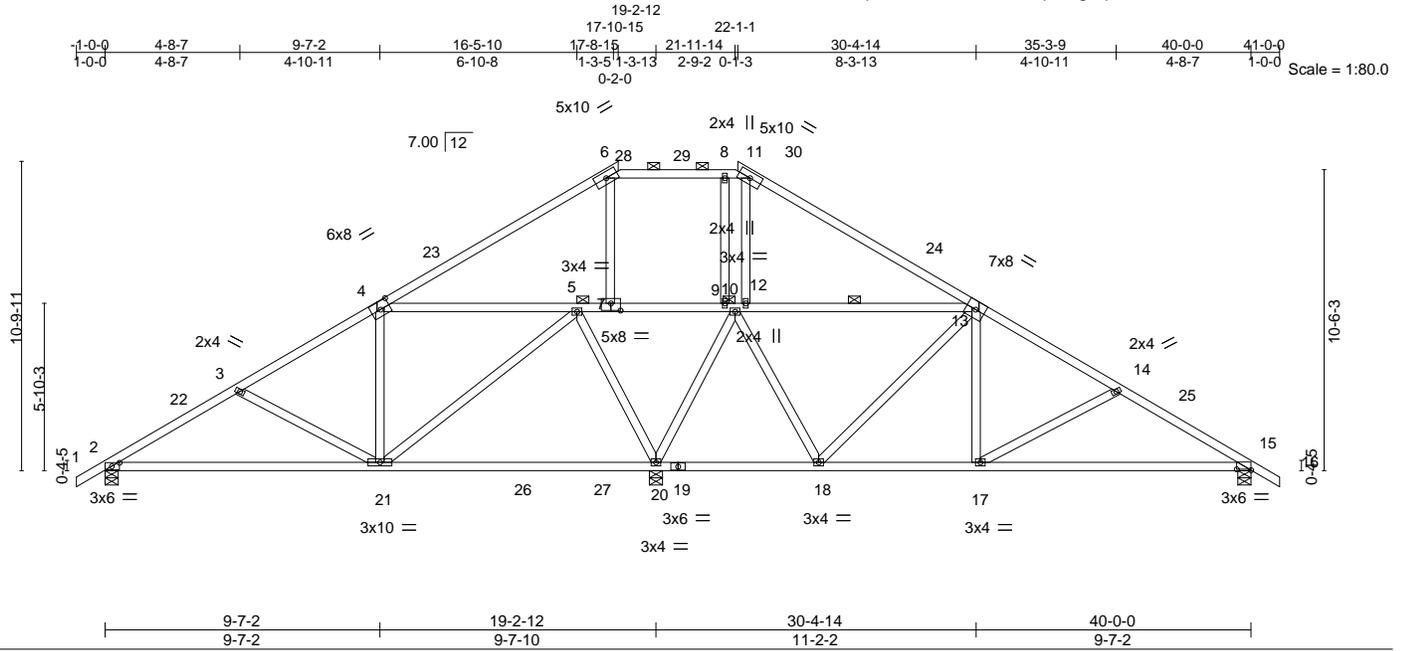


Plate Offsets (X, Y)--	[2:0-3-3,0-1-8], [4:0-4-0,0-3-4], [7:0-4-0,0-3-0], [15:0-6-0,0-0-6]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.17 20-21 >999 240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.28 15-17 >887 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT) 0.02 15 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH		Weight: 242 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 5-9-14 oc purlins, except
BOT CHORD 2x4 DF No.1&Btr	2-0-0 oc purlins (6-0-0 max.): 4-13, 6-11. Except:
WEBS 2x4 DF No.2	1 Row at midpt 10-13
OTHERS 2x4 DF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
	JOINTS 1 Brace at Jt(s): 5, 10

**REACTIONS.** (size) 2=0-5-8, 20=0-5-8, 15=0-5-8  
 Max Horz 2=172(LC 11)  
 Max Uplift 2=-49(LC 12), 20=-100(LC 12), 15=-66(LC 13)  
 Max Grav 2=827(LC 25), 20=2401(LC 2), 15=876(LC 26)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1090/107, 3-4=-827/100, 4-6=-435/222, 4-5=-584/118, 5-7=-66/828, 7-9=-62/808, 9-10=-62/808, 10-12=-286/141, 12-13=-272/144, 11-13=-335/237, 13-14=-911/132, 14-15=-1179/143  
 BOT CHORD 2-21=-154/887, 20-21=-324/109, 17-18=-12/724, 15-17=-68/964  
 WEBS 3-21=-275/66, 5-21=-54/987, 5-20=-1091/142, 13-18=-656/45, 13-17=0/443, 14-17=-287/66, 10-20=-1330/176, 10-18=0/664, 6-7=-461/109, 11-12=-347/122, 8-9=-294/204

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 17-5-6, Exterior(2E) 17-5-6 to 22-6-10, Exterior(2R) 22-6-10 to 28-2-8, Interior(1) 28-2-8 to 41-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 15.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 266 lb down and 199 lb up at 17-11-9, and 90 lb down and 77 lb up at 20-0-0, and 266 lb down and 206 lb up at 22-0-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard



EXPIRES: 12/31/2024  
 March 14, 2024

Continued on page 2

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

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

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Job 3905208	Truss A07	Truss Type California	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312207
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:43 2024 Page 2  
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**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-64, 4-6=-64, 11-13=-64, 13-16=-64, 2-15=-20, 6-11=-64  
Concentrated Loads (lb)  
Vert: 28=-221 30=-221

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

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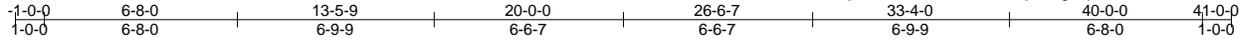
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Job 3905208	Truss A08	Truss Type Common	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312208
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:44 2024 Page 1

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5x6 =

Scale = 1:79.2

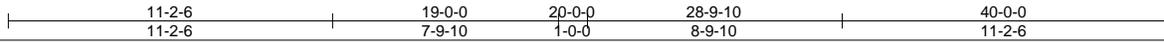
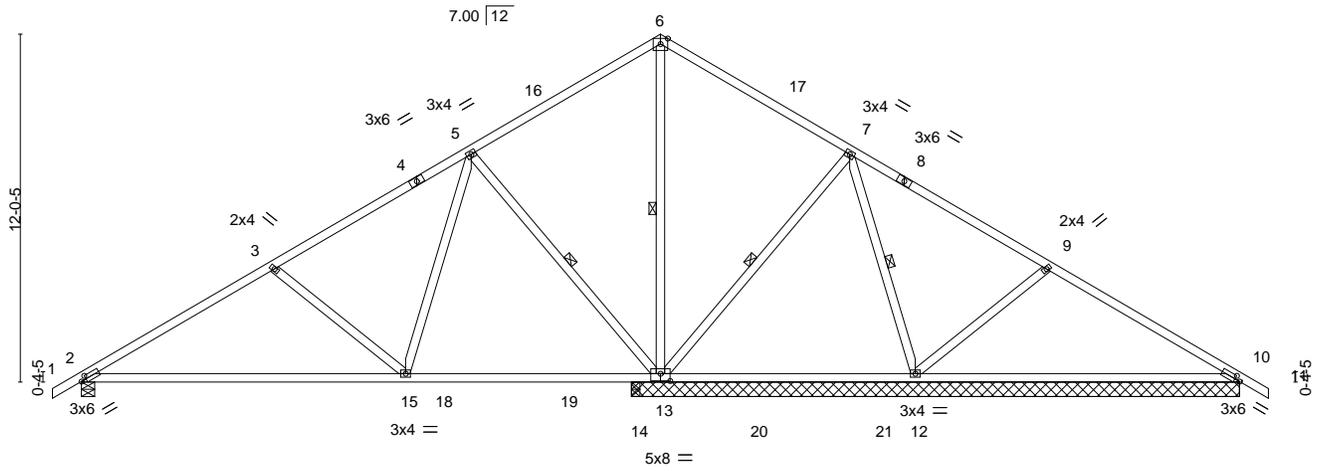


Plate Offsets (X, Y)-- [2:0-2-3,0-1-8], [10:0-2-3,0-1-8], [13:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.26 10-12 >518 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.40	Vert(CT) -0.54 10-12 >251 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 13 n/a n/a		
	Code IRC2018/TPI2014			Weight: 201 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 6-13, 7-13, 7-12, 5-13

**REACTIONS.**

All bearings 21-0-0 except (jt=length) 2=0-5-8, 14=0-3-8.  
 (b) - Max Horz 2=196(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 13, 12, 10  
 Max Grav All reactions 250 lb or less at joint(s) 14 except 2=761(LC 19), 13=1785(LC 19), 12=890(LC 28), 10=445(LC 26)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-833/81, 3-5=-549/64, 5-6=-11/499, 6-7=0/478, 7-9=0/340, 9-10=-305/97  
 BOT CHORD 2-15=-68/784, 14-15=-45/263, 13-14=-45/263  
 WEBS 6-13=-728/26, 7-13=-260/118, 7-12=-348/145, 9-12=-448/142, 5-13=-875/140, 5-15=0/713, 3-15=-421/137

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 41-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 12, 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
 March 14, 2024

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Job 3905208	Truss A09	Truss Type Common	Qty 6	Ply 1	Canopy - 1708 plan	R81312209
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:45 2024 Page 1

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5x6 =

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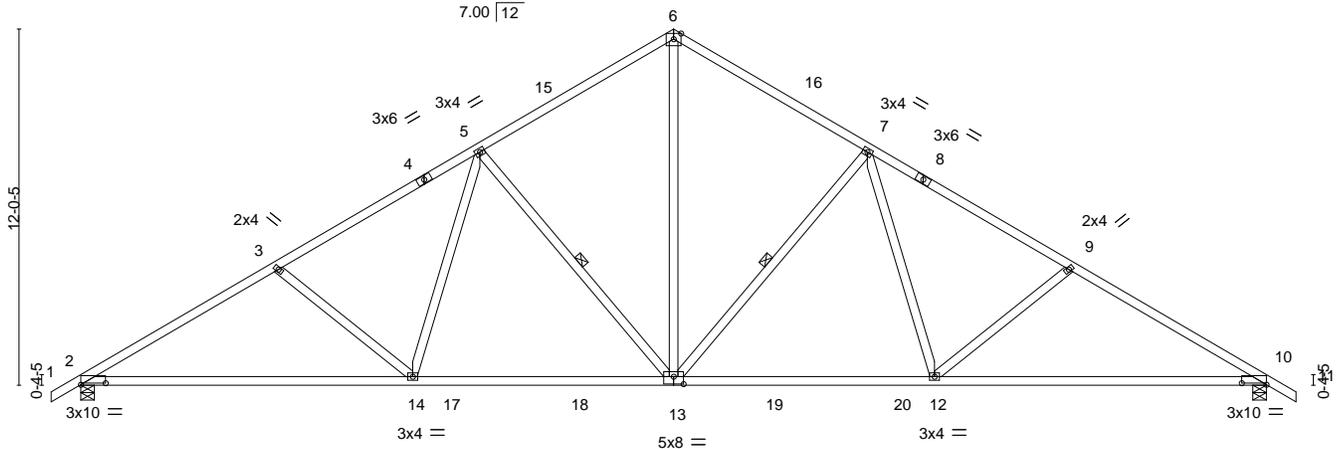


Plate Offsets (X, Y)-- [2:0-10-0,0-0-10], [10:0-10-0,0-0-10], [13:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.28	2-14	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.58	2-14	>813	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.11	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					Weight: 201 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 7-13, 5-13

**REACTIONS.**

(size) 2=0-5-8, 10=0-5-8  
 Max Horz 2=196(LC 11)  
 Max Grav 2=1908(LC 19), 10=1908(LC 20)

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

TOP CHORD 2-3=-2995/209, 3-5=-2720/193, 5-6=-1927/230, 6-7=-1927/230, 7-9=-2720/193,  
 9-10=-2995/209  
 BOT CHORD 2-14=-101/2655, 13-14=-8/2182, 12-13=-8/2084, 10-12=-100/2508  
 WEBS 7-13=-853/137, 7-12=0/686, 6-13=-108/1521, 9-12=-381/135, 5-13=-853/137,  
 5-14=0/685, 3-14=-381/135

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 41-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
 March 14, 2024

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

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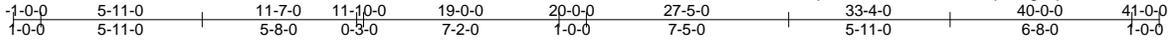
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Job 3905208	Truss A10	Truss Type Roof Special	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312210
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:45 2024 Page 1

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5x12 M18AHS

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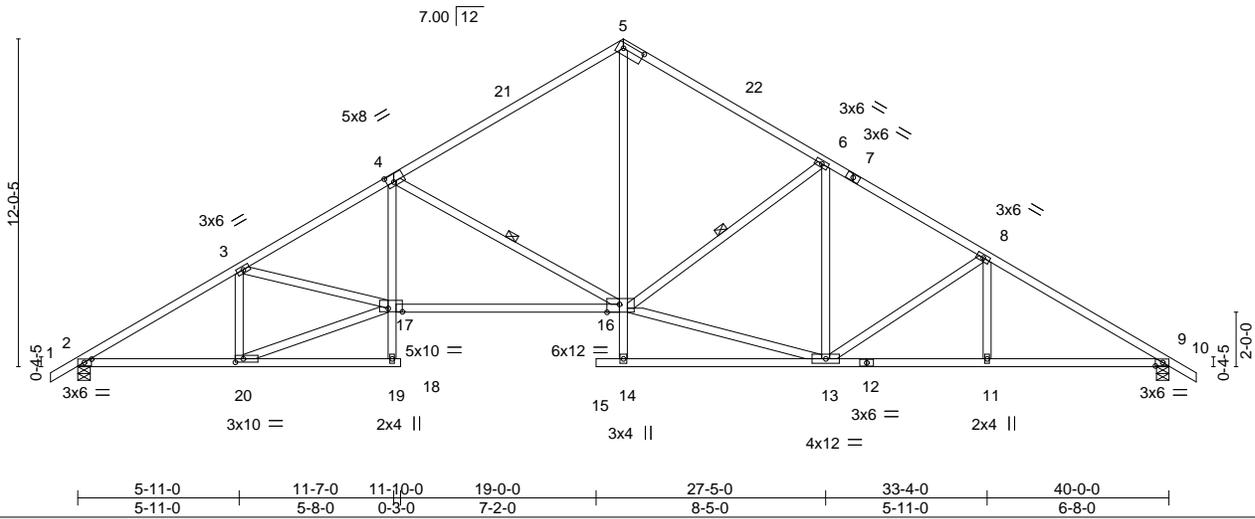


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [4:0-3-0,0-3-4], [5:0-9-4,0-2-4], [9:0-3-3,0-1-8], [16:0-5-8,Edge], [17:0-6-4,0-1-8], [20:0-3-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.88	Vert(LL) -0.21	16-17	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.48	16-17	>980	180	M18AHS	169/162
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.19	9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					Weight: 225 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
 BOT CHORD 2x4 DF No.1&Btr \*Except\*  
 4-19,5-14: 2x4 DF No.2  
 WEBS 2x4 DF No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
 10-0-0 oc bracing: 17-19, 14-16  
 WEBS 1 Row at midpt 4-16, 6-16

**REACTIONS.**

(size) 2=0-5-8, 9=0-5-8  
 Max Horz 2=196(LC 10)  
 Max Grav 2=1754(LC 1), 9=1751(LC 1)

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

TOP CHORD 2-3=-2884/150, 3-4=-3494/185, 4-5=-2158/188, 5-6=-2129/193, 6-8=-2368/188,  
 8-9=-2855/160  
 BOT CHORD 2-20=-61/2379, 4-17=0/922, 16-17=-25/2982, 5-16=-37/1546, 11-13=-61/2350,  
 9-11=-61/2350  
 WEBS 3-20=-747/86, 17-20=-49/2490, 3-17=0/587, 4-16=-1430/148, 6-16=-412/129,  
 13-16=0/2008, 8-13=-466/74, 8-11=0/252

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 41-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
 March 14, 2024

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 Roseville, CA 95661  
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Job 3905208	Truss A11	Truss Type Roof Special	Qty 10	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312211
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:46 2024 Page 1

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5x6 =

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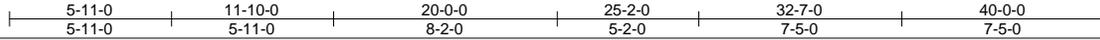
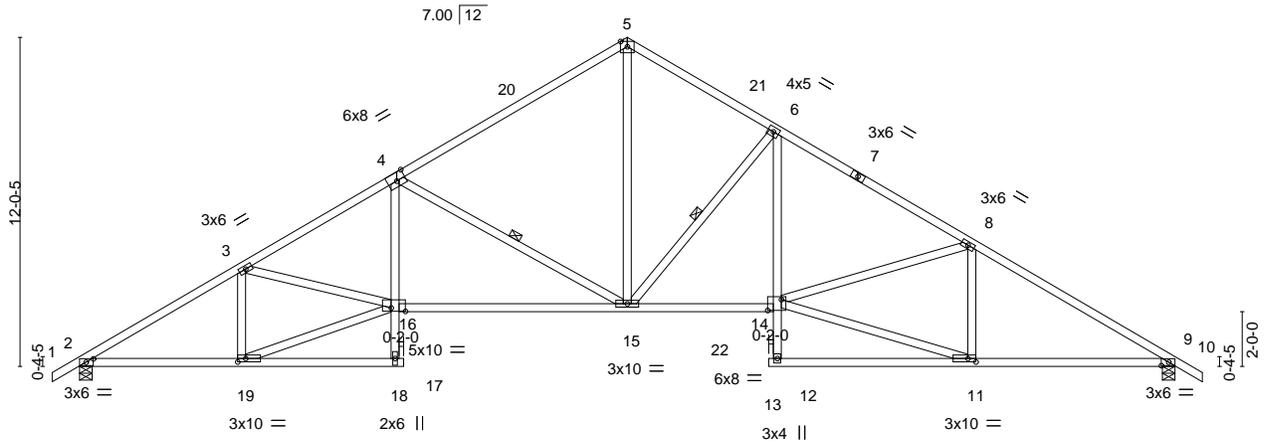


Plate Offsets (X, Y) -- [2:0-3-3,0-1-8], [4:0-4-0,Edge], [9:0-3-3,0-1-8], [11:0-3-8,0-1-8], [14:0-6-0,0-4-12], [16:0-6-4,0-1-8], [19:0-3-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.93	Vert(LL) -0.30 15-16 >999 240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.54 15-16 >878 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.23 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH		Weight: 222 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
 BOT CHORD 2x4 DF No.1&Btr \*Except\*  
 4-18,6-12: 2x4 DF No.2  
 WEBS 2x4 DF No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
 10-0-0 oc bracing: 16-18, 12-14  
 WEBS 1 Row at midpt 4-15, 6-15

**REACTIONS.**

(size) 2=0-5-8, 9=0-5-8  
 Max Horz 2=196(LC 10)  
 Max Grav 2=1870(LC 19), 9=1877(LC 20)

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

TOP CHORD 2-3=-3067/159, 3-4=-3755/200, 4-5=-2266/195, 5-6=-2240/209, 6-8=-3103/199,  
 8-9=-3032/168  
 BOT CHORD 2-19=-68/2685, 4-16=0/1117, 15-16=-40/3332, 14-15=0/2635, 6-14=0/1029,  
 9-11=-63/2504  
 WEBS 3-19=-765/90, 16-19=-60/2808, 3-16=0/630, 4-15=-1613/159, 5-15=-71/1817,  
 6-15=-1237/129, 11-14=-81/2542, 8-11=-525/109

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 41-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
 March 14, 2024

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

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

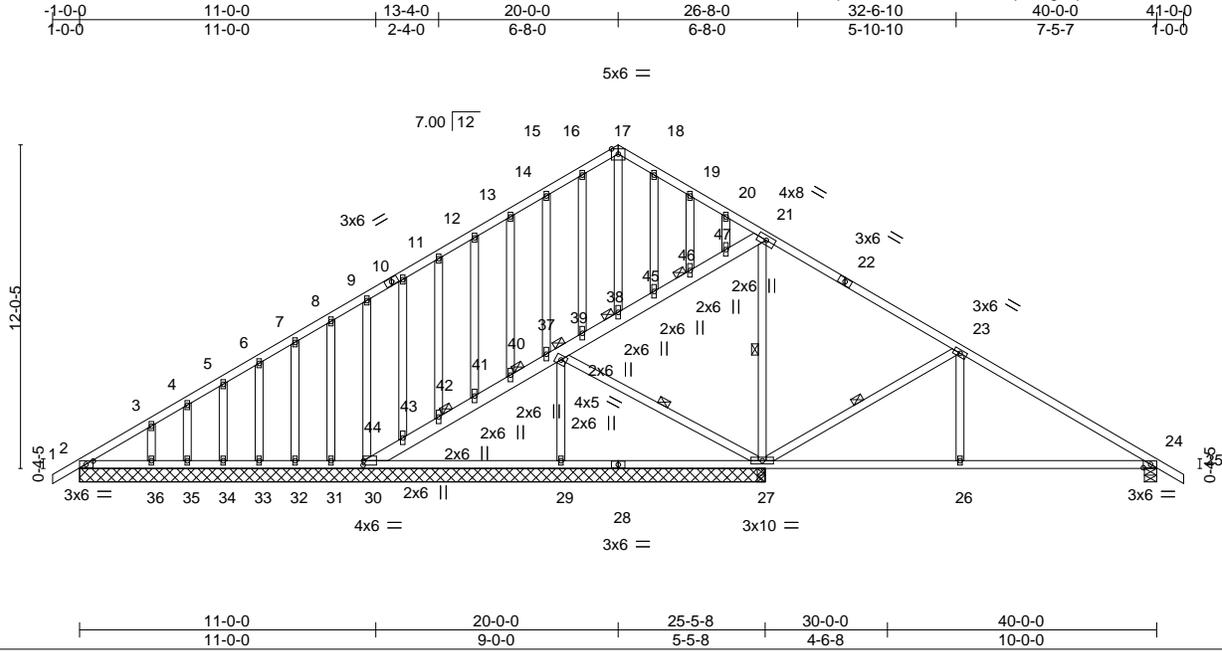
**MiTek®**

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

Job 3905208	Truss A12	Truss Type GABLE	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312212
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:47 2024 Page 1

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Scale = 1:85.1

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [24:0-3-3,0-1-8], [30:0-0-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) -0.05 24-26 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.27	Vert(CT) -0.10 24-26 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 24 n/a n/a		
	Code IRC2018/TPI2014			Weight: 305 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 DF No.1&Btr	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
WEBS 2x4 DF No.2 *Except*	10-0-0 oc bracing: 26-27,24-26.
21-30: 2x6 DF No.2	WEBS 1 Row at midpt 21-27, 27-37, 23-27
OTHERS 2x4 DF No.2	JOINTS 1 Brace at Jt(s): 37, 38, 41, 43, 46

**REACTIONS.** All bearings 25-5-8 except (jt=length) 24=0-5-8.  
 (lb) - Max Horz 2=196(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 30, 31, 32, 33, 34, 35, 36, 24  
 Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 35, 36 except 30=486(LC 25), 27=1211(LC 1), 27=1211(LC 1), 29=473(LC 25), 24=600(LC 26)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 21-23=0/267, 23-24=-640/38  
 BOT CHORD 26-27=0/459, 24-26=0/459  
 WEBS 46-47=0/274, 21-27=-661/58, 23-27=-657/103, 9-30=-253/107, 29-37=-323/87, 23-26=0/311

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 41-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 30, 31, 32, 33, 34, 35, 36, 24.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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

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

**MiTek®**

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Roseville, CA 95661  
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Job 3905208	Truss B01	Truss Type GABLE	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312213
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:47 2024 Page 1

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4x5 =

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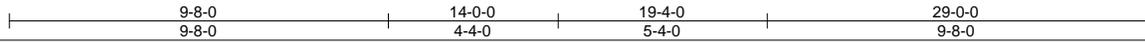
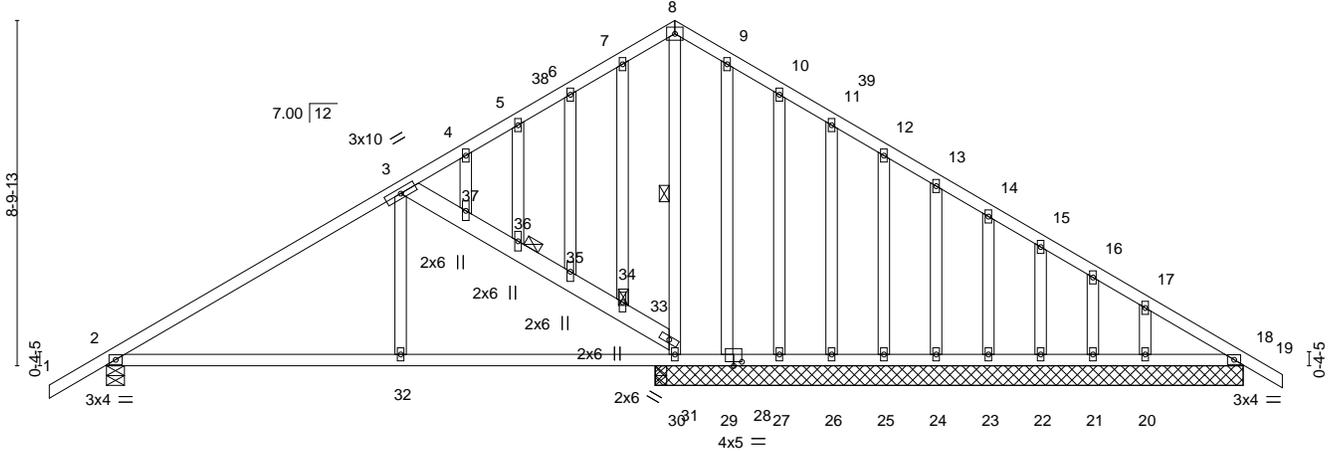


Plate Offsets (X, Y)-- [28:0-2-8,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.07	2-32	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.14	2-32	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT) 0.01	30	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH						
							Weight: 197 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
 BOT CHORD 2x4 DF No.1&Btr  
 WEBS 2x6 DF No.2 \*Except\*  
 3-32: 2x4 DF No.2  
 OTHERS 2x4 DF No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:  
 10-0-0 oc bracing: 2-32,31-32,30-31.  
 WEBS 1 Row at midpt 8-30  
 JOINTS 1 Brace at Jt(s): 34, 36

**REACTIONS.**

All bearings 15-0-0 except (jt=length) 2=0-5-8, 31=0-3-8.  
 (lb) - Max Horz 2=148(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 18, 27, 26, 25, 24, 23, 22, 21, 20, 2 except 30=159(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 18, 29, 27, 26, 25, 24, 23, 22, 21, 20 except 30=515(LC 1),  
 2=634(LC 1), 31=559(LC 3)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=610/73  
 BOT CHORD 2-32=-24/445, 31-32=-26/442, 30-31=-26/442  
 WEBS 3-37=-662/111, 36-37=-587/83, 35-36=-649/106, 34-35=-677/123, 33-34=-693/124,  
 3-32=0/301, 30-33=-757/52, 8-33=-351/7

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-5-8 to 1-6-8, Interior(1) 1-6-8 to 14-6-0, Exterior(2R) 14-6-0 to 17-6-0, Interior(1) 17-6-0 to 30-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 27, 26, 25, 24, 23, 22, 21, 20, 2 except (jt=lb) 30=159.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
 March 14, 2024

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

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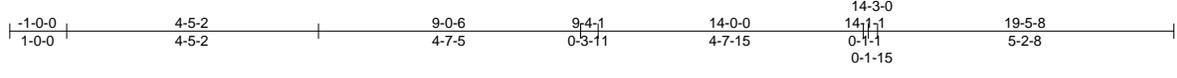
**MiTek®**

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 Roseville, CA 95661  
 916.755.3571 / MiTek-US.com

Job 3905208	Truss C01	Truss Type California Girder	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312214
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:48 2024 Page 1  
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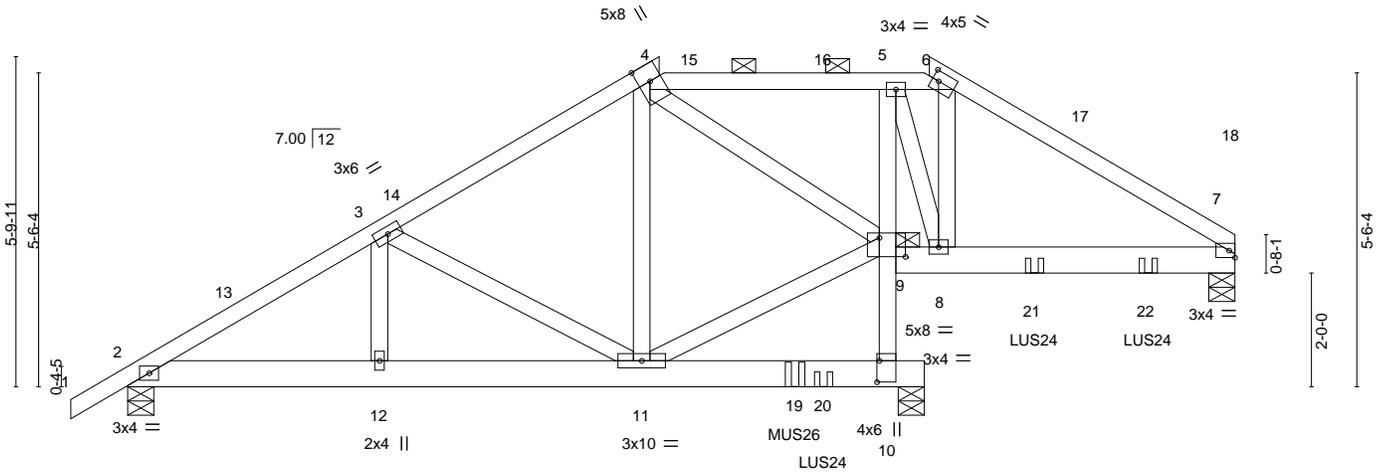


Plate Offsets (X, Y)-- [6:0-1-6,0-2-0], [9:0-5-8,0-4-0], [10:0-4-8,0-0-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.03 10-11	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.05 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH					Weight: 118 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 DF No.2 *Except*	2-0-0 oc purlins (6-0-0 max.): 4-6.
WEBS 2x4 DF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
	5-2-0 oc bracing: 9-10
	JOINTS 1 Brace at Jt(s): 9

**REACTIONS.** (size) 7=0-5-8, 2=0-5-8, 10=0-5-8  
 Max Horz 2=88(LC 34)  
 Max Uplift 7=-1(LC 13), 2=-24(LC 12), 10=-173(LC 12)  
 Max Grav 7=353(LC 26), 2=745(LC 1), 10=1824(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1012/70, 3-4=-730/95, 6-7=-347/50  
 BOT CHORD 2-12=-84/813, 11-12=-84/813, 9-10=-1310/194, 5-9=-772/127  
 WEBS 3-11=-377/118, 4-11=0/374, 9-11=-42/565, 4-9=-614/60, 5-8=-18/386

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-2-2, Exterior(2R) 9-2-2 to 13-4-4, Interior(1) 13-4-4 to 14-1-8, Exterior(2R) 14-1-8 to 18-4-7, Interior(1) 18-4-7 to 19-2-12 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
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2 except (jt=lb) 10=173.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) Use Simpson Strong-Tie MUS26 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 11-8-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
  - 10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 3-8-8 oc max. starting at 12-2-12 from the left end to 17-11-4 to connect truss(es) to front face of bottom chord.
  - 11) Fill all nail holes where hanger is in contact with lumber.
  - 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 46 lb up at 9-2-2, and 127 lb down and 111 lb up at 12-2-12, and 272 lb down and 183 lb up at 14-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
  - 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



EXPIRES: 12/31/2024  
 March 14, 2024

**CSA-MSC-101 (CSA) Standard**

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

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 916.755.3571 / MiTek-US.com

Job 3905208	Truss C01	Truss Type California Girder	Qty 1	Ply 1	Canopy - 1708 plan R81312214 Job Reference (optional)
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:48 2024 Page 2  
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**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-64, 4-6=-64, 6-7=-64, 2-10=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 6=-221 16=-118 19=-769(F) 20=-39(F) 21=-38(F) 22=-39(F)

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

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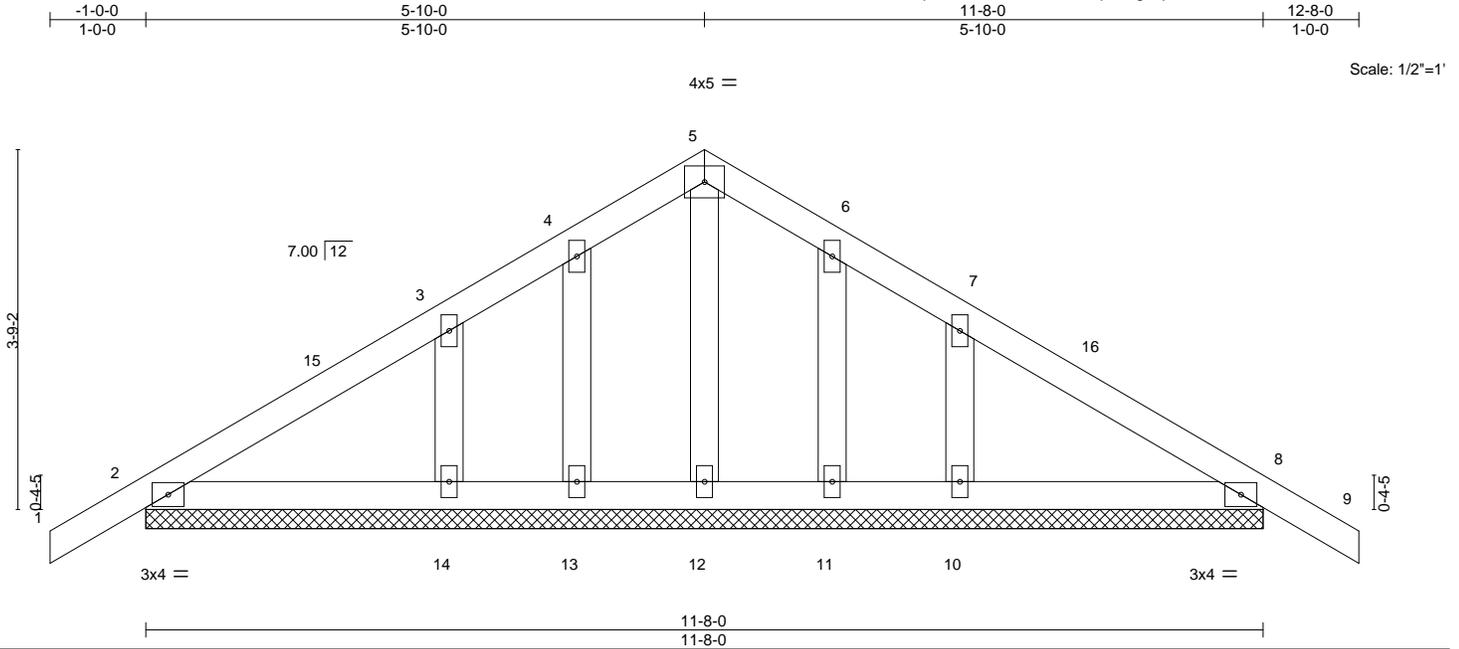
**MiTek**®

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Roseville, CA 95661  
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Job 3905208	Truss D01	Truss Type Common Supported Gable	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312215
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:49 2024 Page 1  
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 2-0-0	TC 0.06	Vert(LL) 0.00	8	n/r	120	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00	9	n/r	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH	Wind(LL) 0.00	8	n/r	90		
							Weight: 53 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 DF No.1&Btr  
OTHERS 2x4 DF 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.** All bearings 11-8-0.  
(lb) - Max Horz 2--64(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 8, 13, 14, 11, 10  
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 5-10-0, Corner(3R) 5-10-0 to 8-10-0, Exterior(2N) 8-10-0 to 12-8-0 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 13, 14, 11, 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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

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

**MiTek®**

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

Job 3905208	Truss D02	Truss Type Common	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312216
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Builders FirstSource (Beaverton, OR),

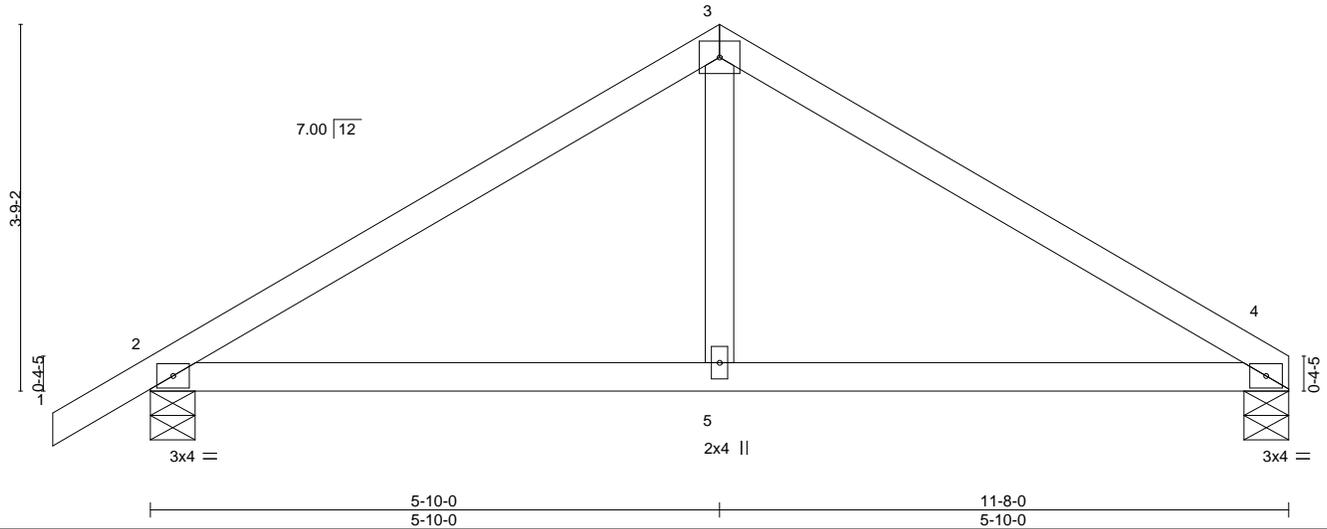
Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:49 2024 Page 1

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Scale = 1:23.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.29	Vert(LL)	-0.03	4-5	>999	240	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.23	Vert(CT)	-0.05	4-5	>999	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.01	4	n/a	n/a		
BCLD 10.0	Rep Stress Incr YES	Matrix-SH						Weight: 40 lb	FT = 20%
	Code IRC2018/TPI2014								

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
 BOT CHORD 2x4 DF No.1&Btr  
 WEBS 2x4 DF 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) 4=0-5-8, 2=0-5-8  
 Max Horz 2=61(LC 11)  
 Max Uplift 2=-4(LC 12)  
 Max Grav 4=466(LC 1), 2=554(LC 1)

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

TOP CHORD 2-3=-611/97, 3-4=-609/96  
 BOT CHORD 2-5=-12/440, 4-5=-12/440  
 WEBS 3-5=0/266

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-10-0, Exterior(2R) 5-10-0 to 8-10-0, Interior(1) 8-10-0 to 11-5-4 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
 March 14, 2024

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

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**MiTek®**

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

Job 3905208	Truss D03	Truss Type Common	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312217
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Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:50 2024 Page 1

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4x5 =

Scale = 1:23.5

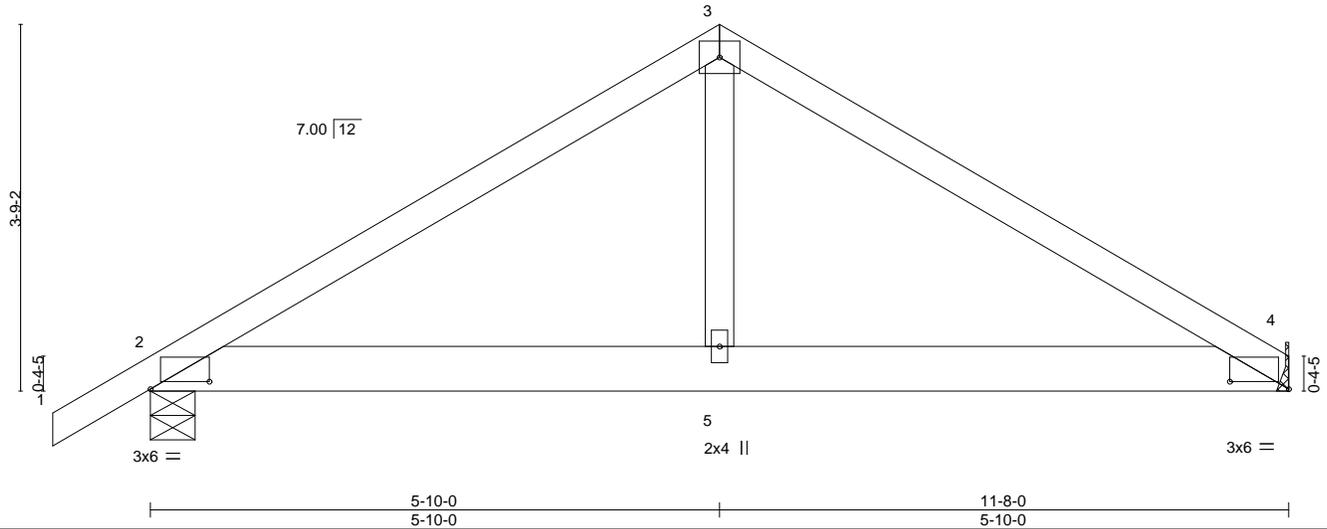


Plate Offsets (X,Y)--	[2:0-7-4,0-0-15], [4:0-7-4,0-0-15]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) -0.02	4-5	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.03	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					Weight: 49 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 DF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 DF No.2	

**REACTIONS.** (size) 4=Mechanical, 2=0-5-8  
 Max Horz 2=61(LC 9)  
 Max Uplift 2=-4(LC 12)  
 Max Grav 4=473(LC 1), 2=561(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-639/102, 3-4=-636/101  
 BOT CHORD 2-5=-17/464, 4-5=-17/464  
 WEBS 3-5=0/285

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-10-0, Exterior(2R) 5-10-0 to 8-10-0, Interior(1) 8-10-0 to 11-7-4 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
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

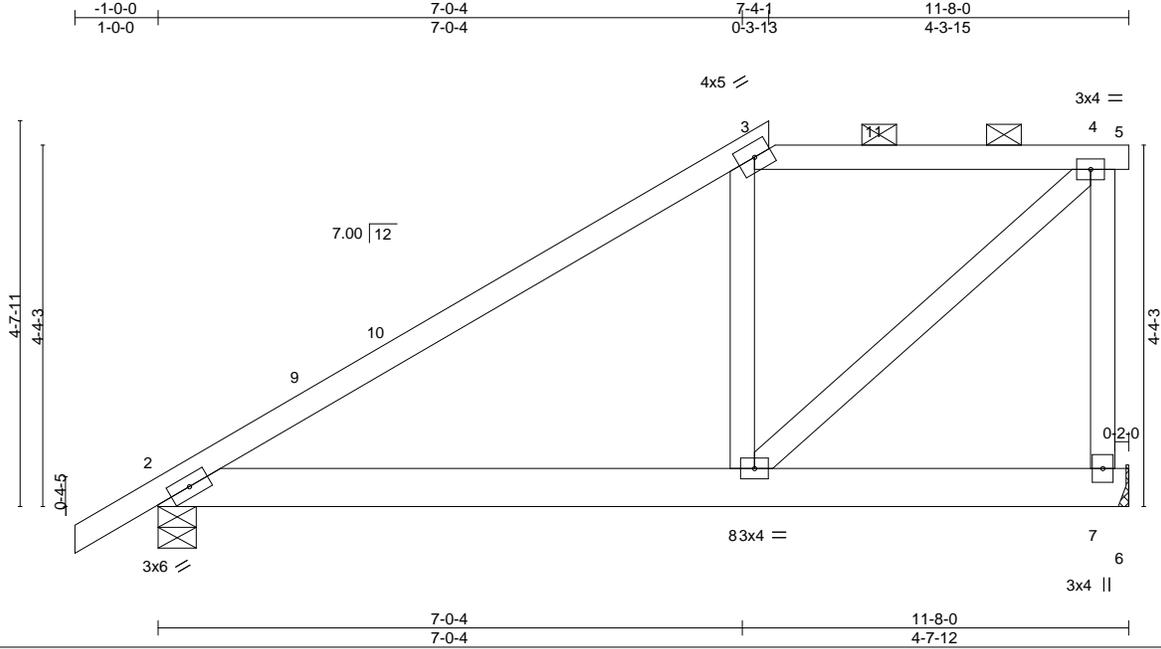


EXPIRES: 12/31/2024  
 March 14, 2024

Job 3905208	Truss D04	Truss Type Roof Special	Qty 1	Ply 1	Canopy - 1708 plan	R81312218
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:50 2024 Page 1  
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.37	Vert(LL) -0.03	2-8	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.05	2-8	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					Weight: 62 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x6 DF No.2  
WEBS 2x4 DF No.2

**BRACING-**

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

**REACTIONS.**

(size) 7=Mechanical, 2=0-5-8  
Max Horz 2=105(LC 9)  
Max Uplift 7=39(LC 9), 2=23(LC 12)  
Max Grav 7=558(LC 1), 2=592(LC 25)

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

TOP CHORD 2-3=-627/71, 3-4=-448/99, 4-7=-535/128  
BOT CHORD 2-8=-130/440  
WEBS 4-8=-124/593

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-2-0, Exterior(2E) 7-2-0 to 11-8-0 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 170 lb down and 142 lb up at 7-2-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-64, 3-4=-64, 4-5=-64, 2-6=-20  
Concentrated Loads (lb)  
Vert: 3=-110



EXPIRES: 12/31/2024  
March 14, 2024

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Roseville, CA 95661  
916.755.3571 / MiTek-US.com

Job 3905208	Truss E01	Truss Type Common Structural Gable	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312219
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:51 2024 Page 1  
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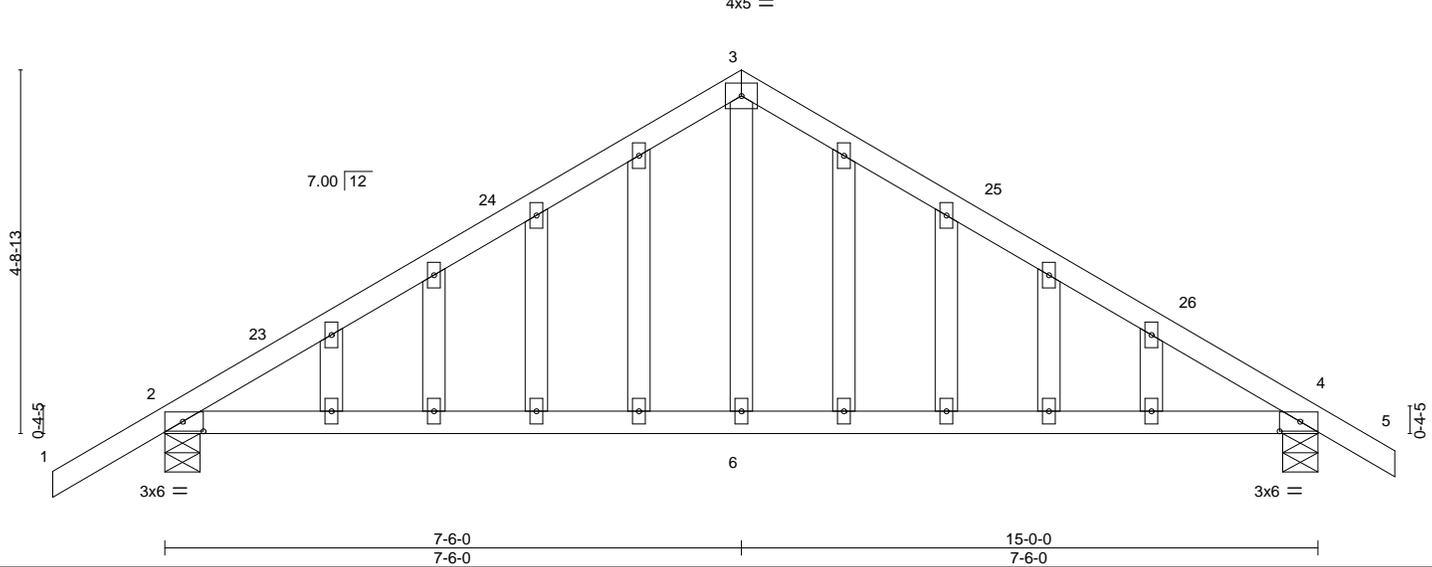
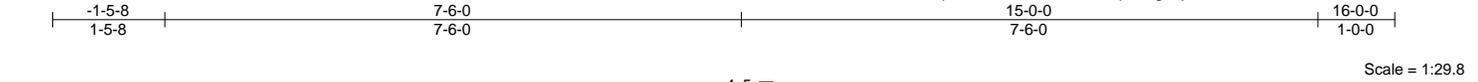


Plate Offsets (X, Y)--	[2:0-3-3,0-1-8], [4:0-3-3,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.07	4-6	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.14	4-6	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					Weight: 78 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 DF No.1&Btr	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 DF No.2	
OTHERS 2x4 DF No.2	

**REACTIONS.** (size) 2=0-5-8, 4=0-5-8  
 Max Horz 2=82(LC 11)  
 Max Uplift 2=6(LC 12), 4=-1(LC 13)  
 Max Grav 2=722(LC 1), 4=686(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-789/82, 3-4=-788/84  
 BOT CHORD 2-6=0/570, 4-6=0/570  
 WEBS 3-6=0/345

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-5-8 to 1-6-8, Interior(1) 1-6-8 to 7-6-0, Exterior(2R) 7-6-0 to 10-6-0, Interior(1) 10-6-0 to 16-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 studs spaced at 1-4-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
 March 14, 2024

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>400 Sunrise Ave., Suite 270        Roseville, CA 95661        916.755.3571 / MiTek-US.com</p>
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Job 3905208	Truss E02	Truss Type Common	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312220
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Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:51 2024 Page 1

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4x5 =

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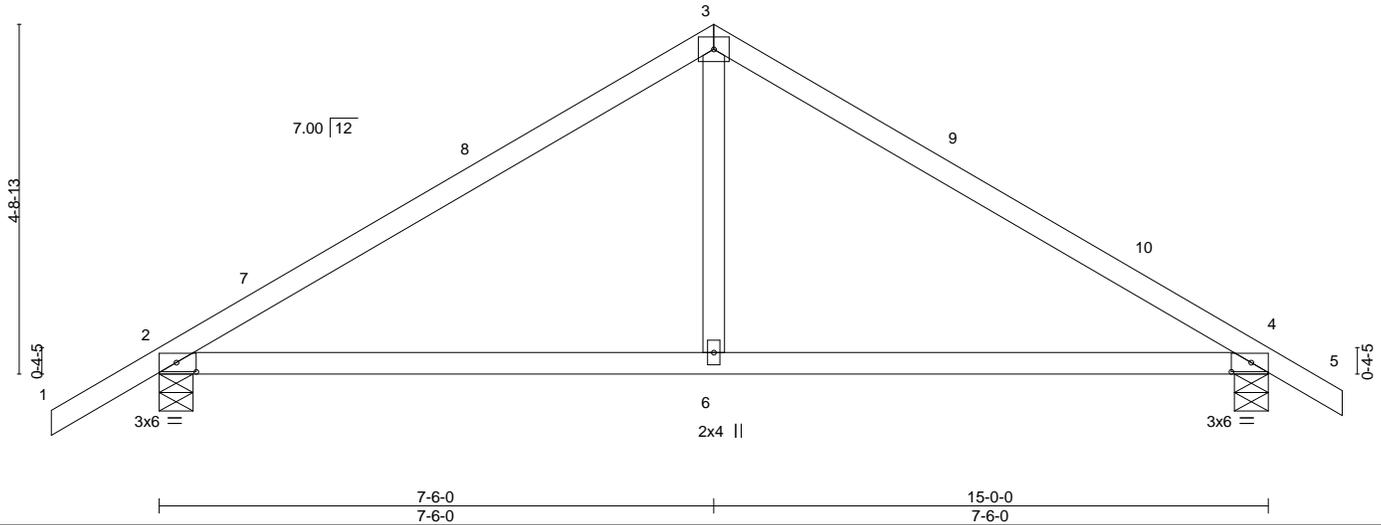


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [4:0-3-3,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.07	4-6	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.14	4-6	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					Weight: 54 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 DF No.1&Btr  
WEBS 2x4 DF 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=0-5-8, 4=0-5-8  
Max Horz 2=82(LC 11)  
Max Uplift 2=6(LC 12), 4=1(LC 13)  
Max Grav 2=722(LC 1), 4=686(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-789/82, 3-4=-788/84  
BOT CHORD 2-6=0/570, 4-6=0/570  
WEBS 3-6=0/345

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-5-8 to 1-6-8, Interior(1) 1-6-8 to 7-6-0, Exterior(2R) 7-6-0 to 10-6-0, Interior(1) 10-6-0 to 16-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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

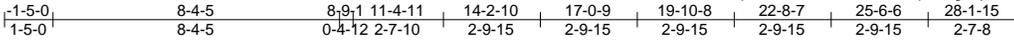
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Job 3905208	Truss HRA1	Truss Type Corner Rafter	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312221
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:52 2024 Page 1  
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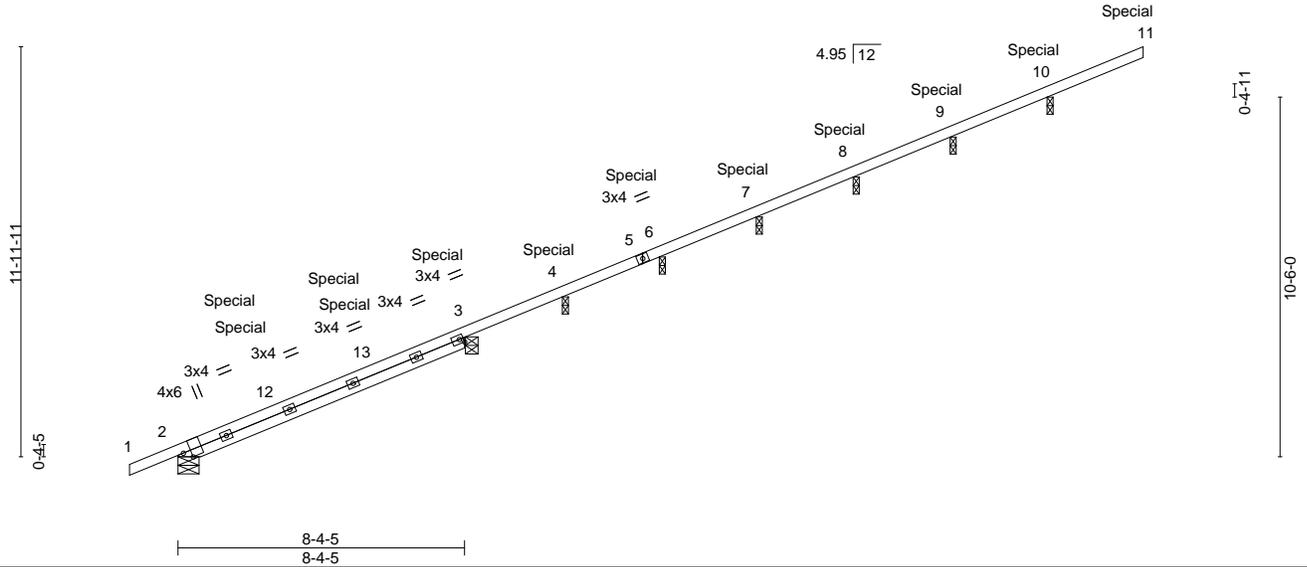


Plate Offsets (X,Y)--	[2:0-2-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.15 2-3 >689 240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.00	Vert(CT) -0.19 2-3 >538 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.01 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH		Weight: 56 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 DF No.1&Btr

**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.** All bearings 0-2-2 except (jt=length) 2=0-7-6, 3=0-4-7.  
 (lb) - Max Horz 2=258(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 4, 6, 7, 8, 9 except 3=161(LC 12), 10=133(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 4, 6, 7, 8, 9 except 2=381(LC 1), 3=460(LC 1), 10=402(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=601/226, 3-4=403/149, 4-6=345/127, 6-7=285/104

- NOTES-**
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) -1-4-15 to 2-9-15, Exterior(2R) 2-9-15 to 28-1-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4, 6, 7, 8, 9, 10.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6, 7, 8, 9 except (jt=lb) 3=161, 10=133.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 6, 7, 8, 9, 10.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 47 lb up at 2-9-8, 83 lb down and 47 lb up at 2-9-8, 107 lb down and 79 lb up at 5-7-7, 105 lb down and 77 lb up at 5-7-7, 132 lb down and 105 lb up at 8-5-6, 57 lb down and 41 lb up at 11-3-5, 59 lb down and 42 lb up at 14-1-4, 59 lb down and 42 lb up at 16-11-3, 59 lb down and 42 lb up at 19-9-2, 59 lb down and 42 lb up at 22-7-1, and 64 lb down and 40 lb up at 25-5-0, and 45 lb down and 30 lb up at 28-1-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-11=-64  
 Concentrated Loads (lb)  
 Vert: 11=-28(B) 3=-81(B) 13=-34(F=-22, B=-12)



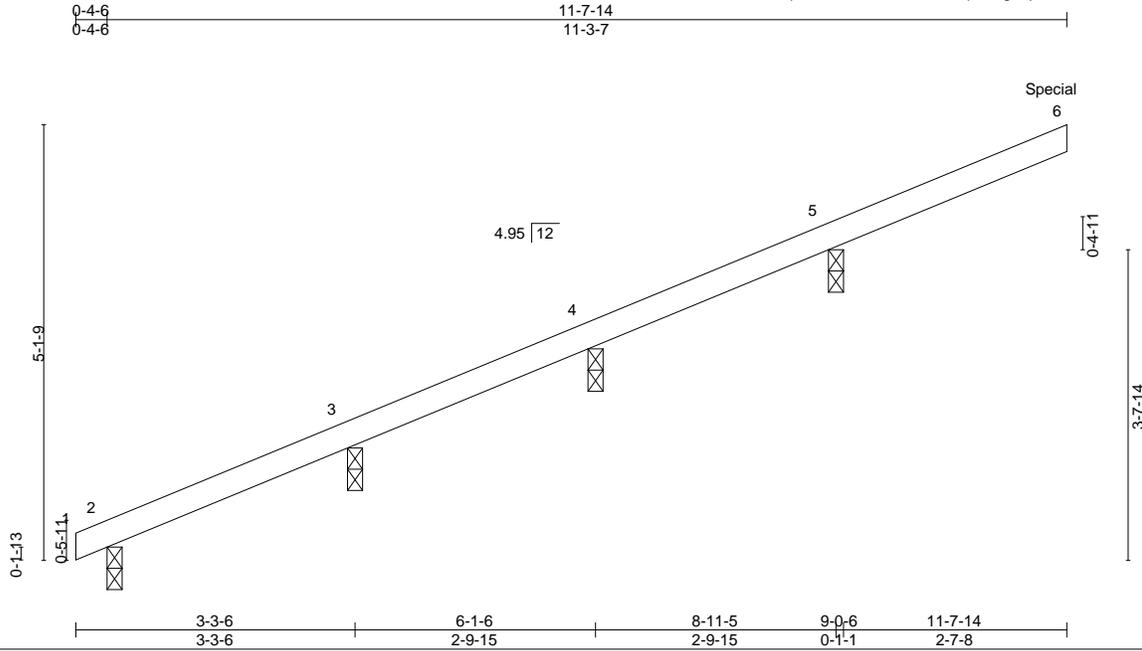
EXPIRES: 12/31/2024  
 March 14, 2024

Job 3905208	Truss HRA02	Truss Type Corner Rafter	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312222
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:51 2024 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.53	in (loc) l/defl L/d		
TCDL 7.0	Plate Grip DOL 1.15	BC 0.00	Vert(LL) 0.02 4-5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) 0.02 4-5 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 17 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr

**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.**

- All bearings 0-2-2.
- (lb) - Max Horz 2=99(LC 12)
- Max Uplift All uplift 100 lb or less at joint(s) 3, 4 except 5=126(LC 9)
- Max Grav All reactions 250 lb or less at joint(s) 2, 3, 4 except 5=402(LC 1)

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

**NOTES-**

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 11-7-14 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
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 3, 4, 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=126.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 3, 4, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 29 lb up at 11-7-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
  - Vert: 1-6=64
- Concentrated Loads (lb)
  - Vert: 6=28(F)



EXPIRES: 12/31/2024  
March 14, 2024

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Job 3905208	Truss HRC1	Truss Type Corner Rafter	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312223
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:53 2024 Page 1  
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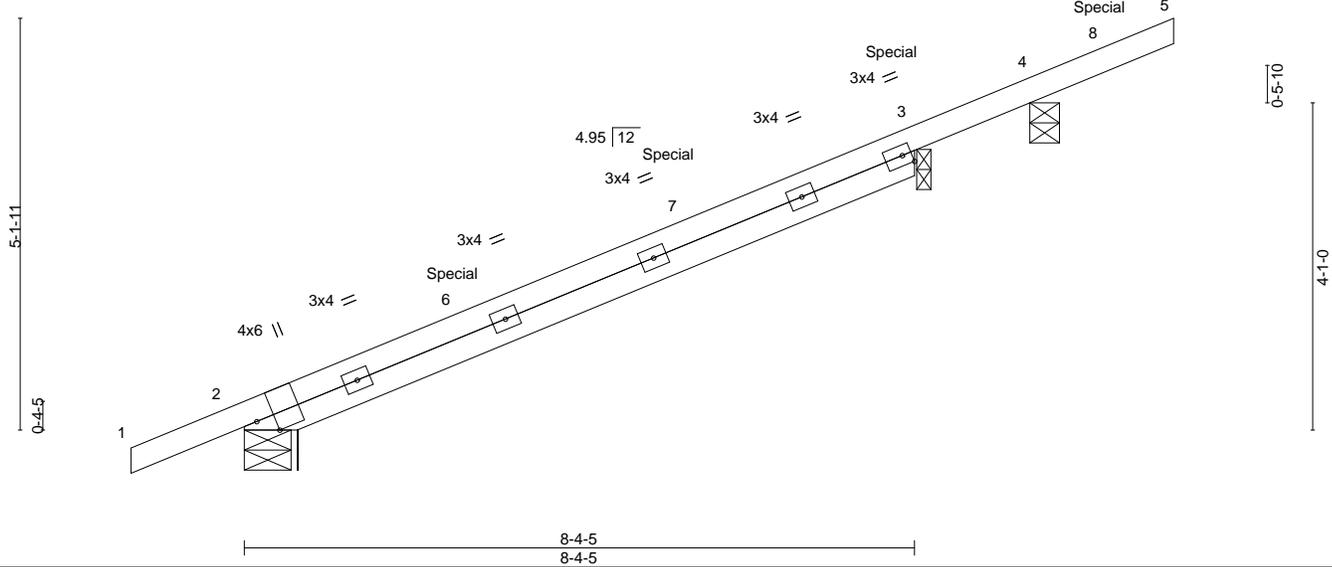


Plate Offsets (X,Y)--	[2:0-2-8,Edge]						Weight: 31 lb	FT = 20%	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL 1.15		TC 0.37	Vert(LL) -0.14	2-3	>745	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15		BC 0.00	Vert(CT) -0.18	2-3	>582	180		
BCLL 0.0 *	Rep Stress Incr NO		WB 0.00	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						

**LUMBER-**  
TOP CHORD 2x4 DF No.1&Btr

**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.** All bearings 0-7-0 except (jt=length) 3=0-2-2, 4=0-4-7.  
(lb) - Max Horz 2=111(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 4 except 3=127(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 4 except 2=372(LC 1), 3=372(LC 1), 3=360(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) -1-4-15 to 2-9-15, Exterior(2R) 2-9-15 to 11-7-2 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=length) 3=127.
  - 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 3, 4.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 48 lb up at 2-9-8, 106 lb down and 78 lb up at 5-7-7, and 135 lb down and 106 lb up at 8-5-6, and 14 lb down and 9 lb up at 10-10-6 on top 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 (plf)  
Vert: 1-5=-64
- Concentrated Loads (lb)  
Vert: 3=-91(B) 7=-16(B) 8=-3(B)



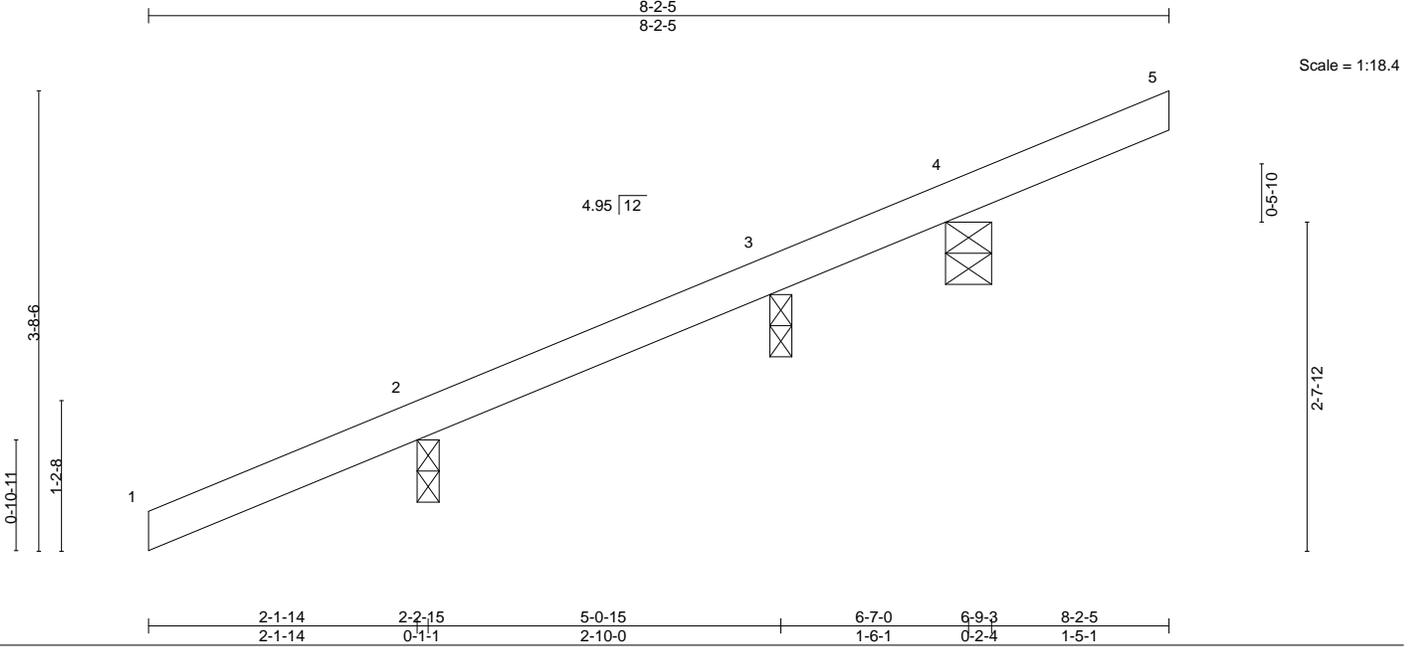
EXPIRES: 12/31/2024  
March 14, 2024

Job 3905208	Truss HRC2	Truss Type Corner Rafter	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312224
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:53 2024 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.27	Vert(LL) 0.01	2-3	>999	240		
TCDL 7.0	Lumber DOL 1.15	BC 0.00	Vert(CT) 0.01	2-3	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					Weight: 12 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr

**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=0-2-2, 3=0-2-2, 4=0-4-7  
Max Horz 2=66(LC 12)  
Max Uplift 2=-61(LC 8), 3=-16(LC 12), 4=-64(LC 9)  
Max Grav 2=291(LC 1), 3=27(LC 1), 4=206(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 8-2-5 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 3.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3, 4.
- 5) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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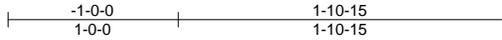
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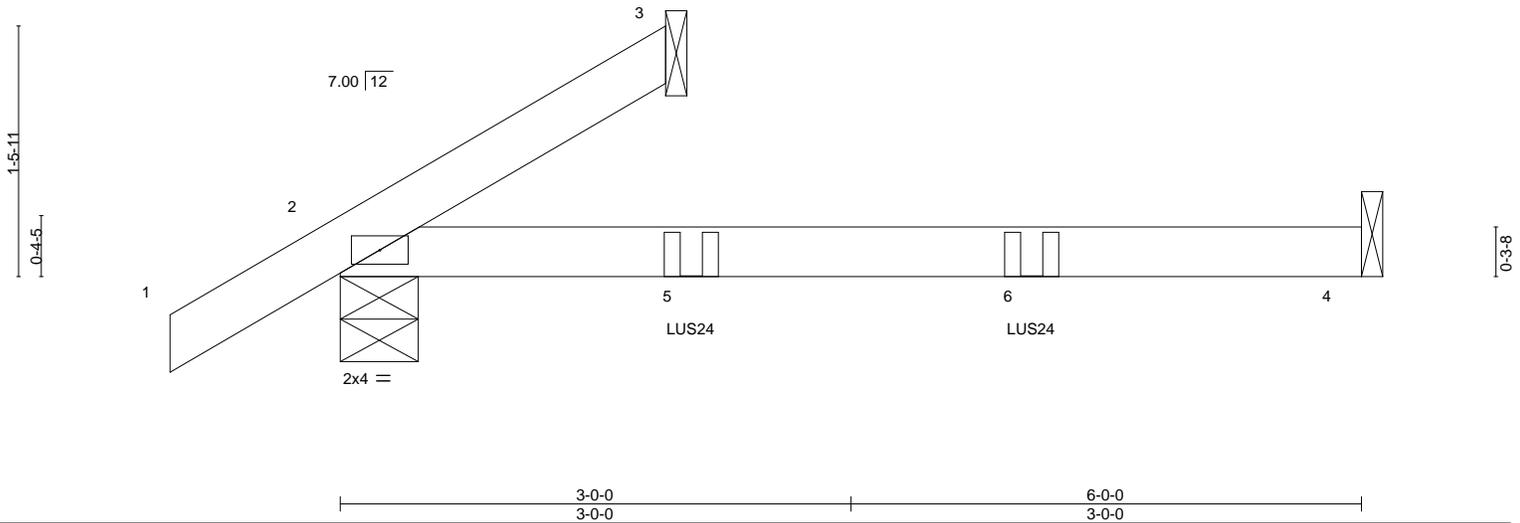
Job 3905208	Truss JA01	Truss Type Jack-Open Girder	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312225
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:53 2024 Page 1  
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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.06 2-4 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.13 2-4 >559 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 13 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=34(LC 12)  
Max Uplift 3=-16(LC 12)  
Max Grav 3=40(LC 19), 2=204(LC 1), 4=118(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 2-0-12 from the left end to connect truss(es) to front face of bottom chord.
- 8) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 4-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 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 (plf)  
Vert: 1-3=-64, 2-4=-20



EXPIRES: 12/31/2024  
March 14, 2024

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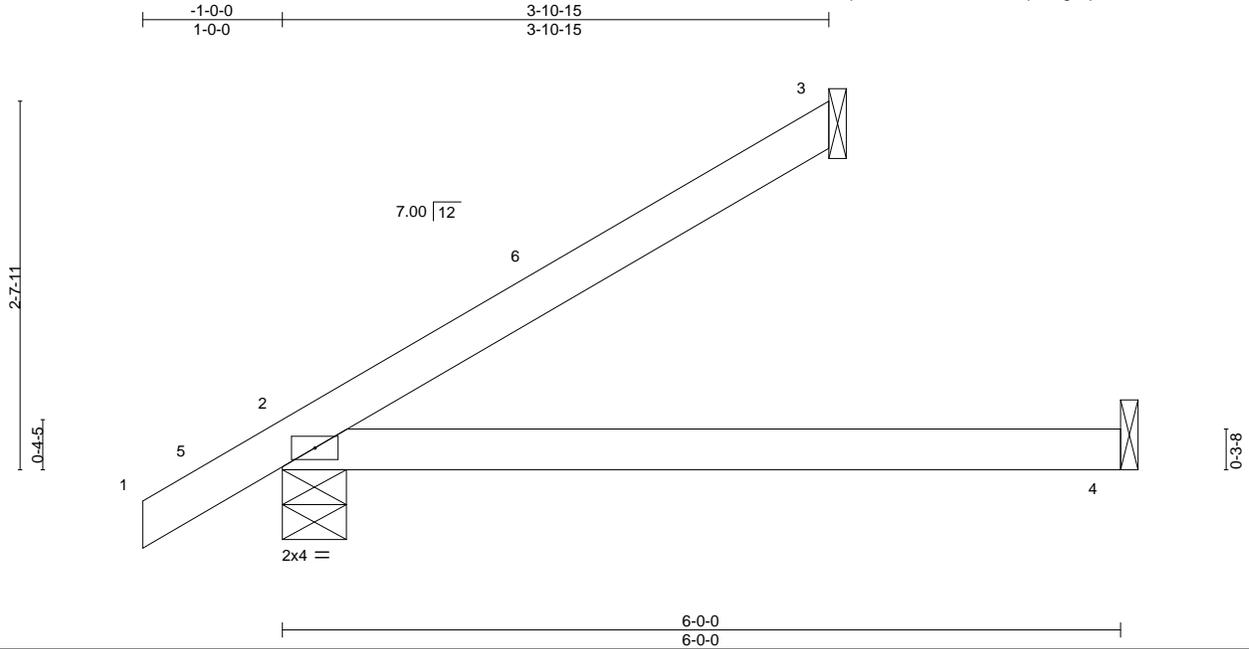
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Job 3905208	Truss JA02	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312226
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

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Scale = 1:16.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.13	Vert(LL)	-0.06	2-4	>999	240	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.34	Vert(CT)	-0.11	2-4	>615	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						Weight: 16 lb	FT = 20%
	Code IRC2018/TPI2014								

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=59(LC 12)  
Max Uplift 3=37(LC 12)  
Max Grav 3=102(LC 1), 2=265(LC 1), 4=114(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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

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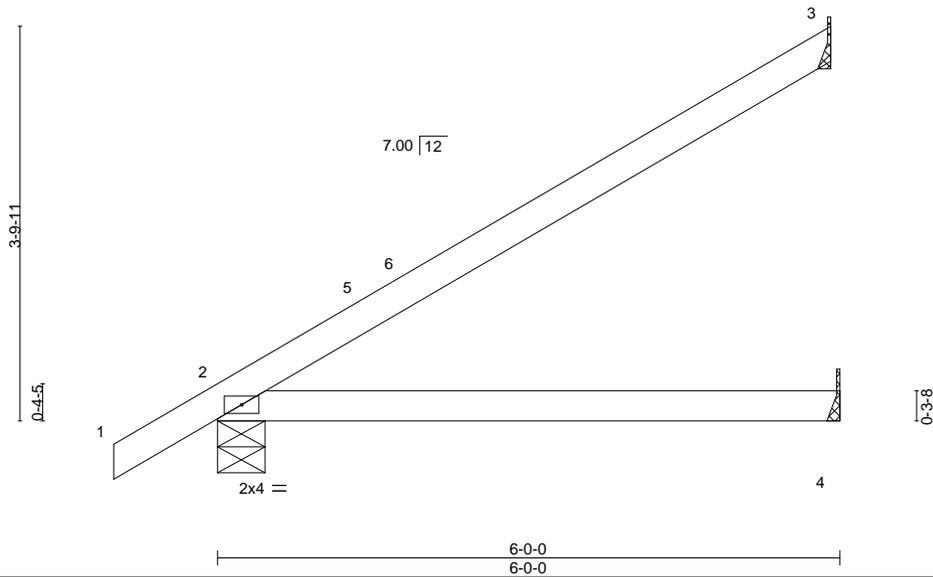
Job 3905208	Truss JA03	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312227
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Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:54 2024 Page 1

ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f  
5-10-15  
5-10-15



Scale = 1:22.1

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.06 2-4 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.11 2-4 >615 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 19 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=84(LC 12)  
Max Uplift 3=-59(LC 12)  
Max Grav 3=171(LC 1), 2=324(LC 1), 4=114(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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

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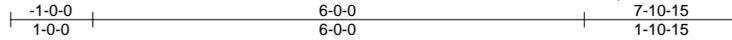
400 Sunrise Ave., Suite 270  
Roseville, CA 95661  
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Job 3905208	Truss JA04	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312228
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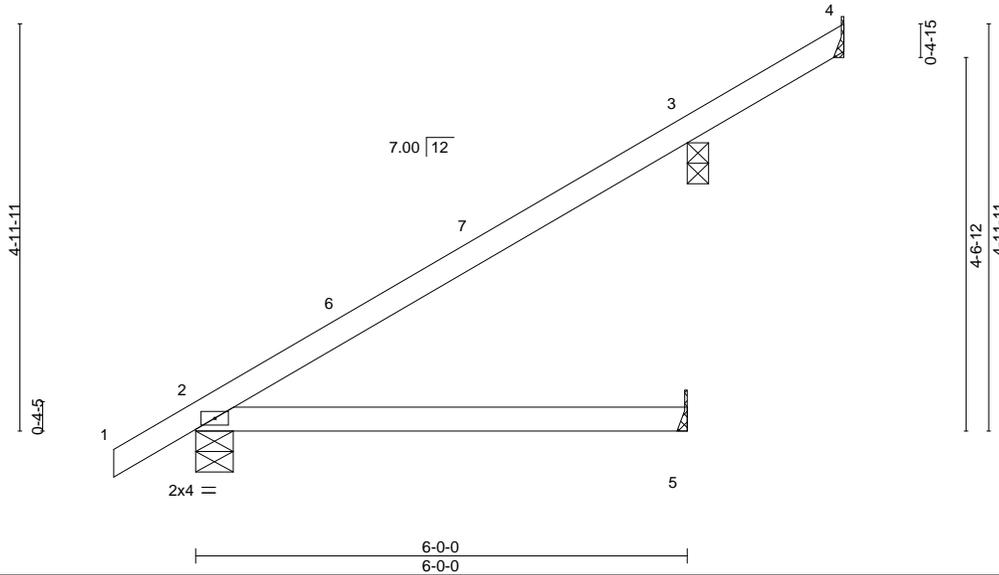
Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:55 2024 Page 1  
ID:Re14btGhkz4RiGOatcuqzLzbM9tRfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:28.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.06 2-5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.11 2-5 >615 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 4 n/a n/a		
	Code IRC2018/TPI2014			Weight: 22 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 DF 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.**

All bearings Mechanical except (jt=length) 2=0-5-8, 3=0-3-2.  
(lb) - Max Horz 2=110(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 4, 3  
Max Grav All reactions 250 lb or less at joint(s) 4, 5, 3 except 2=333(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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

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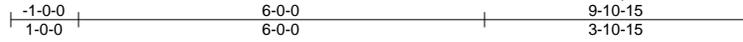
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Roseville, CA 95661  
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Job 3905208	Truss JA05	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312229
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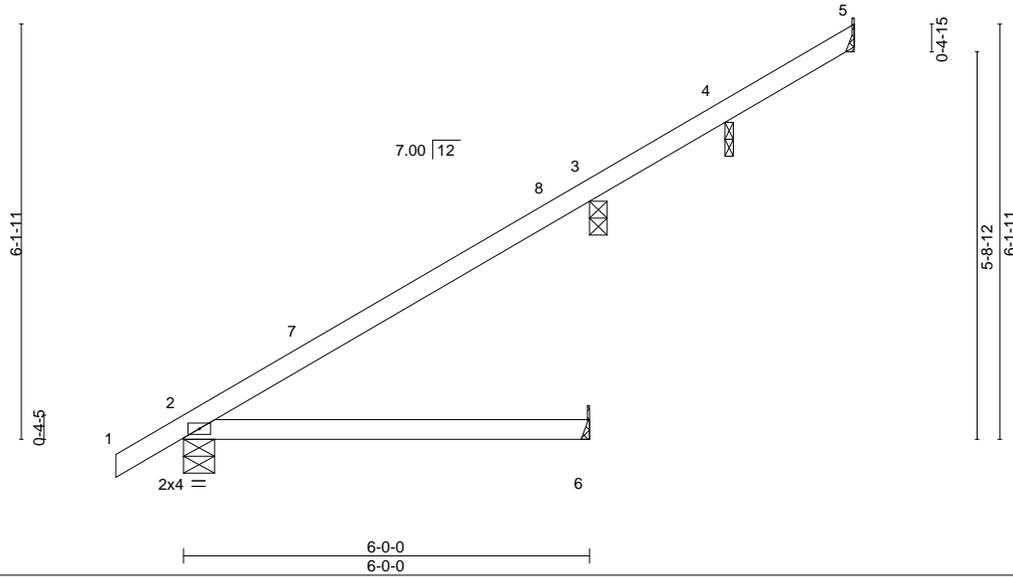
Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:55 2024 Page 1  
ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:33.9



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.06	2-6	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.11	2-6	>615	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 25 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 DF 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.**

All bearings Mechanical except (jt=length) 2=0-5-8, 3=0-3-2, 4=0-1-8.  
(lb) - Max Horz 2=135(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 5, 3, 4  
Max Grav All reactions 250 lb or less at joint(s) 5, 6, 3, 4 except 2=333(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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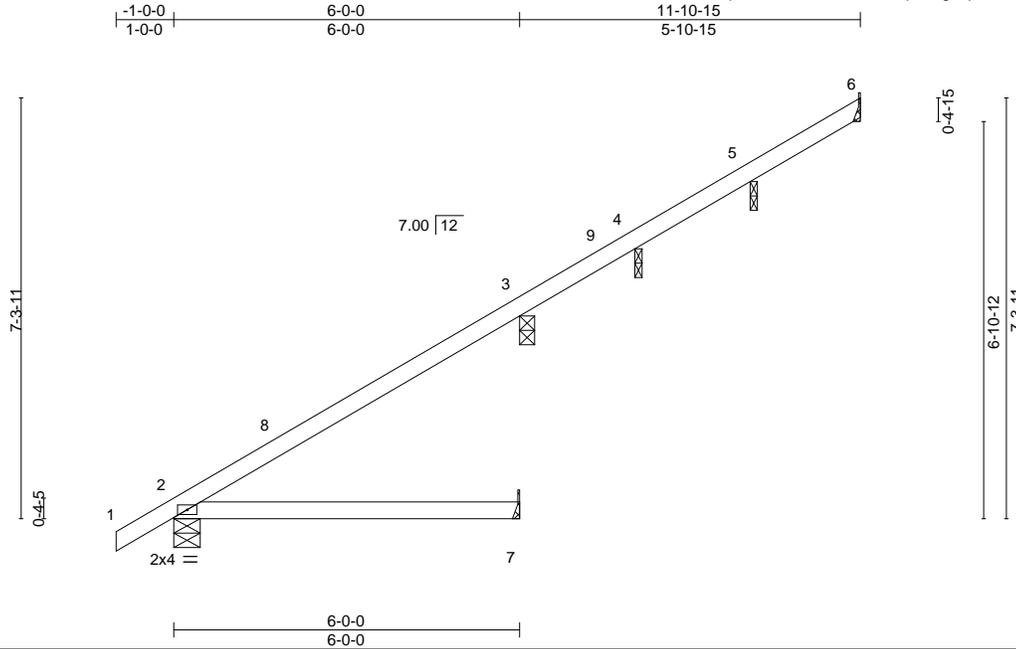
Job 3905208	Truss JA06	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312230
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Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:55 2024 Page 1

ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:39.8

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.06 2-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.11 2-7 >615 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 6 n/a n/a	Weight: 29 lb	FT = 20%
	Code IRC2018/TPI2014				

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 DF 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.** All bearings Mechanical except (jt=length) 2=0-5-8, 3=0-3-2, 4=0-1-8, 5=0-1-8.  
(lb) - Max Horz 2=161(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 6, 3, 4, 5  
Max Grav All reactions 250 lb or less at joint(s) 6, 7, 3, 4, 5 except 2=333(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-10-3 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4, 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3, 4, 5.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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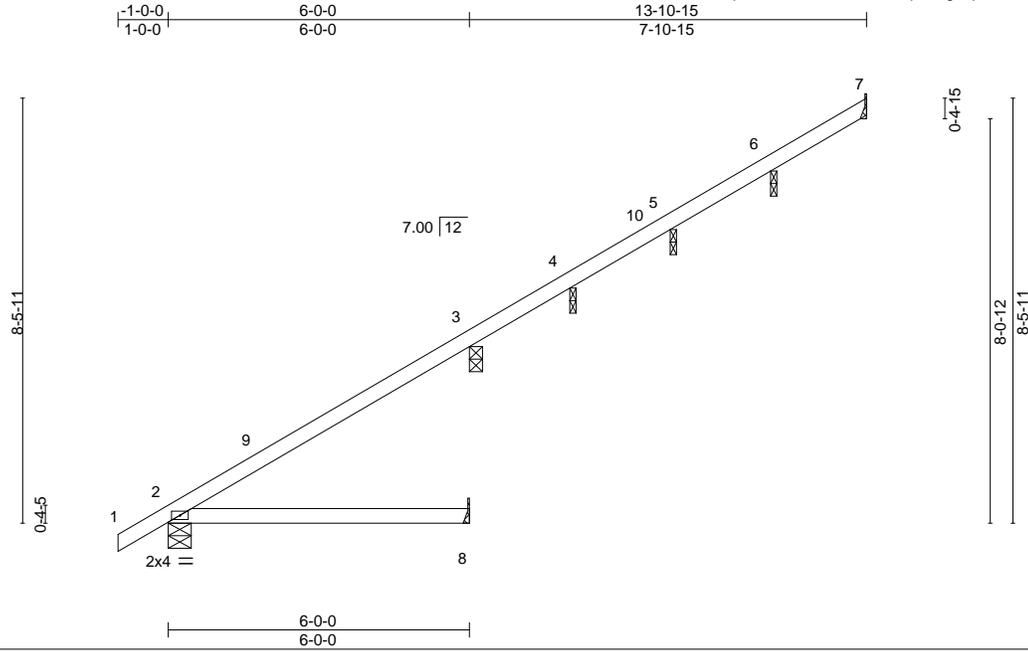
400 Sunrise Ave., Suite 270  
Roseville, CA 95661  
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Job 3905208	Truss JA07	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312231
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Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:56 2024 Page 1  
ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.06 2-8 >999 240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.11 2-8 >615 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 32 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 DF 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.** All bearings 0-1-8 except (jt=length) 7=Mechanical, 2=0-5-8, 8=Mechanical, 3=0-3-2.  
(lb) - Max Horz 2=186(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 7, 3, 4, 5, 6  
Max Grav All reactions 250 lb or less at joint(s) 7, 8, 3, 4, 5, 6 except 2=333(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-272/167

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 13-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4, 5, 6.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 3, 4, 5, 6.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5, 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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

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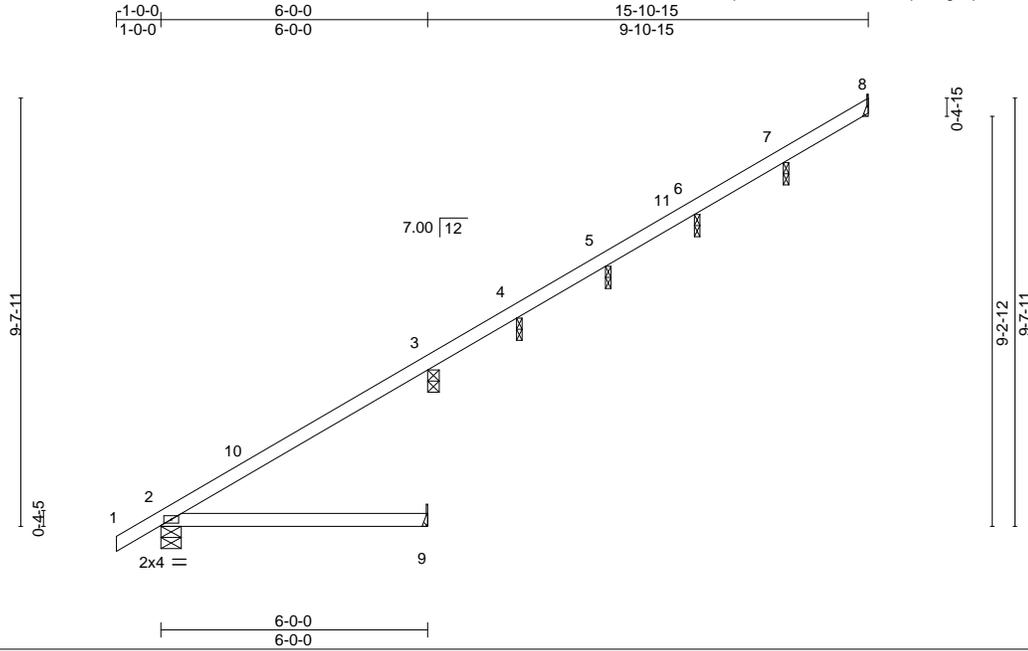
400 Sunrise Ave., Suite 270  
Roseville, CA 95661  
916.755.3571 / MiTek-US.com

Job 3905208	Truss JA08	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312232
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Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:56 2024 Page 1  
ID:Re14btGhkh4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.06 2-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.11 2-9 >615 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 8 n/a n/a	Weight: 35 lb	FT = 20%
	Code IRC2018/TPI2014				

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 DF 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.** All bearings 0-1-8 except (jt=length) 8=Mechanical, 2=0-5-8, 9=Mechanical, 3=0-3-2.  
(lb) - Max Horz 2=211(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 8, 3, 4, 5, 6, 7  
Max Grav All reactions 250 lb or less at joint(s) 8, 9, 3, 4, 5, 6, 7 except 2=333(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-319/194

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 15-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4, 5, 6, 7.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 3, 4, 5, 6, 7.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5, 6, 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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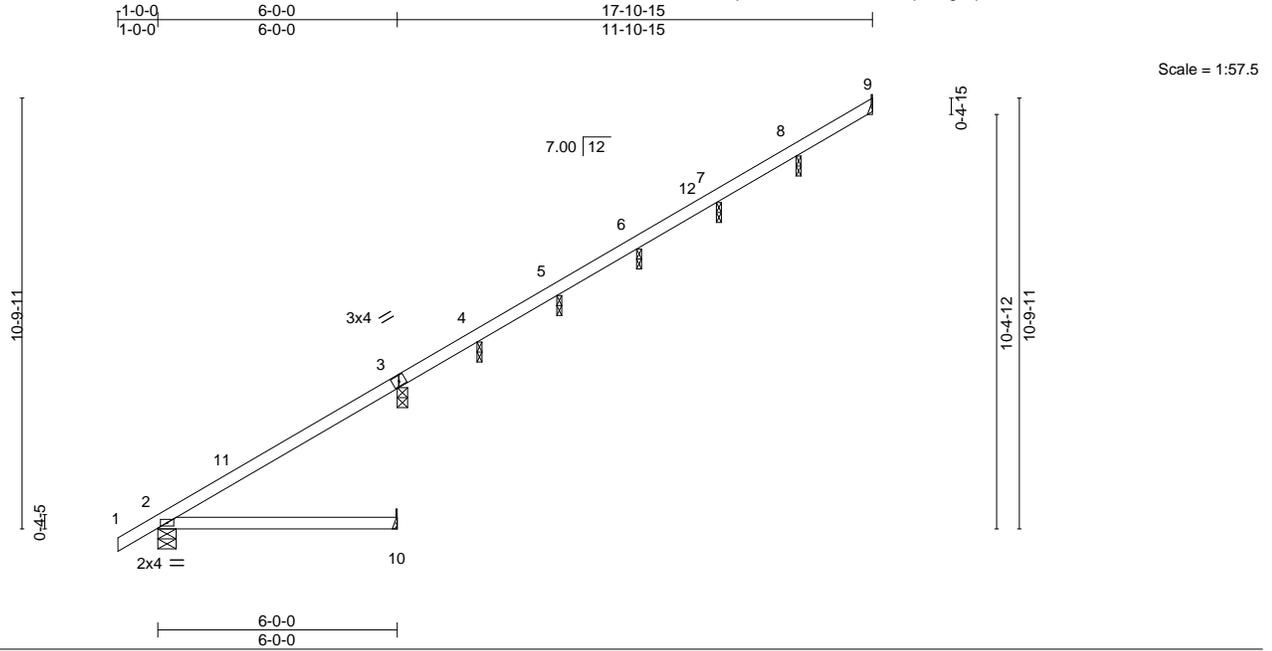
400 Sunrise Ave., Suite 270  
Roseville, CA 95661  
916.755.3571 / MiTek-US.com

Job 3905208	Truss JA09	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312233
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Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:57 2024 Page 1  
ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.06 2-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.11 2-10 >615 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 9 n/a n/a	Weight: 38 lb	FT = 20%
	Code IRC2018/TPI2014				

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 DF 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.** All bearings 0-1-8 except (jt=length) 3=0-3-2, 9=Mechanical, 2=0-5-8, 10=Mechanical.  
(lb) - Max Horz 2=237(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 3, 9, 4, 5, 6, 7, 8  
Max Grav All reactions 250 lb or less at joint(s) 3, 9, 10, 4, 5, 6, 7, 8 except 2=330(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-366/222, 3-4=-263/153

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 17-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4, 5, 6, 7, 8.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 9, 4, 5, 6, 7, 8.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5, 6, 7, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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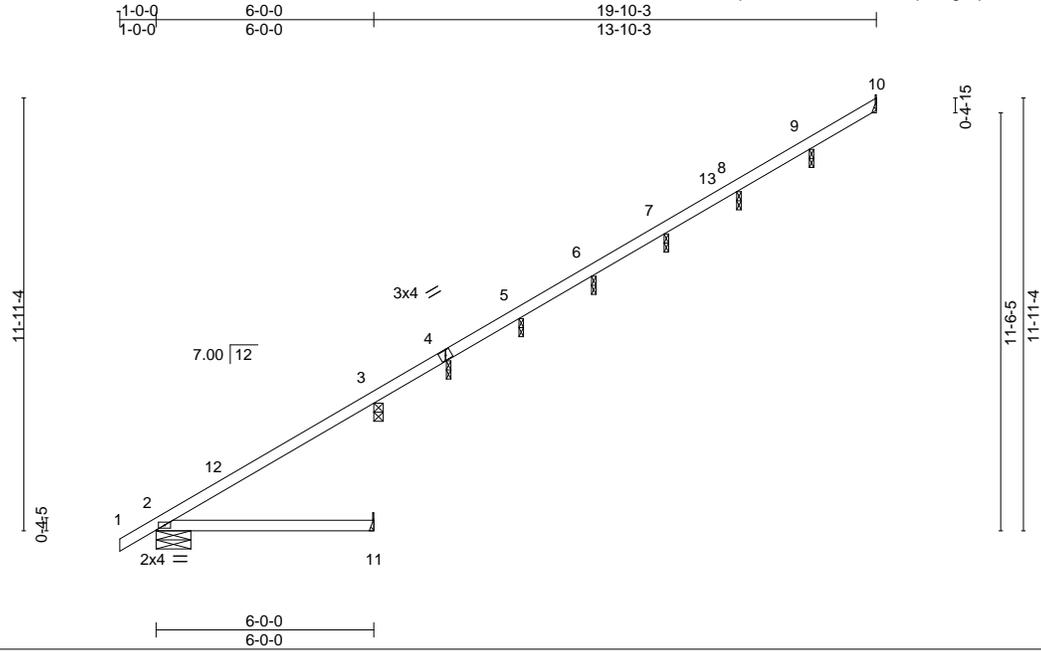
400 Sunrise Ave., Suite 270  
Roseville, CA 95661  
916.755.3571 / MiTek-US.com

Job 3905208	Truss JA10	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312234
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Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:57 2024 Page 1  
ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:63.2

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.32	Vert(LL) -0.05 2-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.10 2-11 >650 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.01 10 n/a n/a		
	Code IRC2018/TPI2014			Weight: 41 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 DF 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.** All bearings 0-1-8 except (jt=length) 2=0-11-8, 11=Mechanical, 10=Mechanical, 3=0-3-2.  
(lb) - Max Horz 2=261(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 4, 10, 3, 5, 6, 7, 8, 9  
Max Grav All reactions 250 lb or less at joint(s) 4, 11, 10, 3, 5, 6, 7, 8, 9 except 2=337(LC 1)

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

TOP CHORD 2-3=-412/250, 3-4=-307/178, 4-5=-262/152

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 19-9-7 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4, 5, 6, 7, 8, 9.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 10, 3, 5, 6, 7, 8, 9.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 3, 5, 6, 7, 8, 9.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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Roseville, CA 95661  
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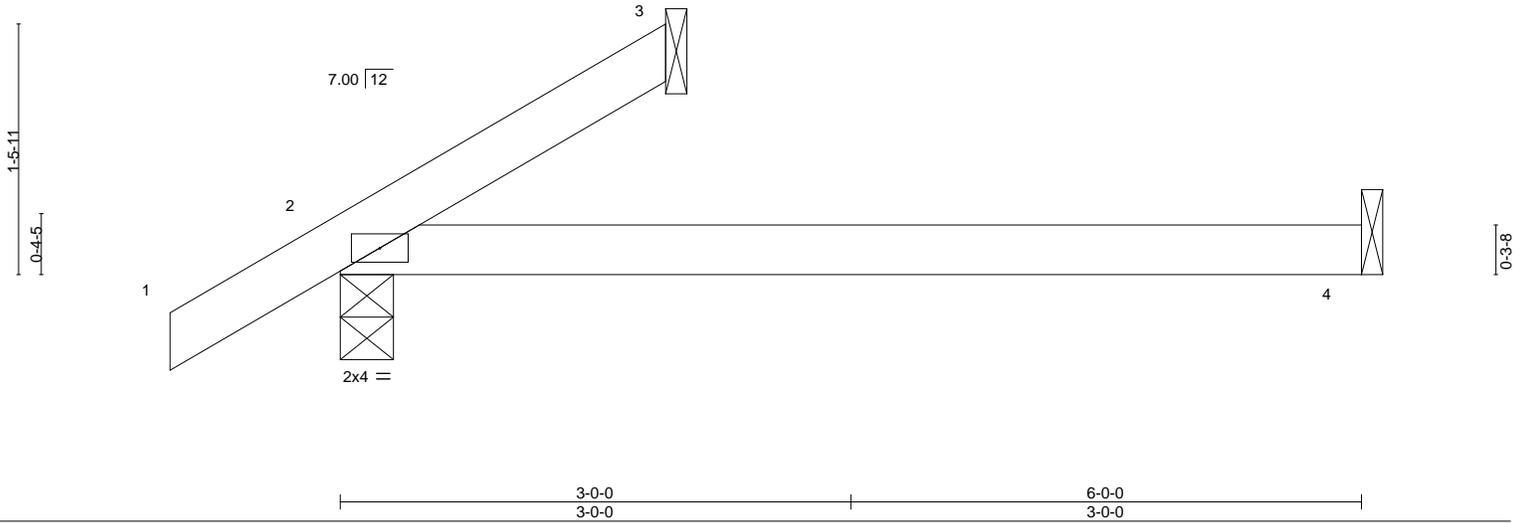
Job 3905208	Truss JC01	Truss Type Jack-Open Girder	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312235
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:58 2024 Page 1  
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Scale = 1:13.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.05	Vert(LL) -0.06	2-4	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.13	2-4	>555	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 13 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 3=Mechanical, 2=0-3-12, 4=Mechanical  
Max Horz 2=34(LC 12)  
Max Uplift 3=-16(LC 12)  
Max Grav 3=42(LC 1), 2=203(LC 1), 4=118(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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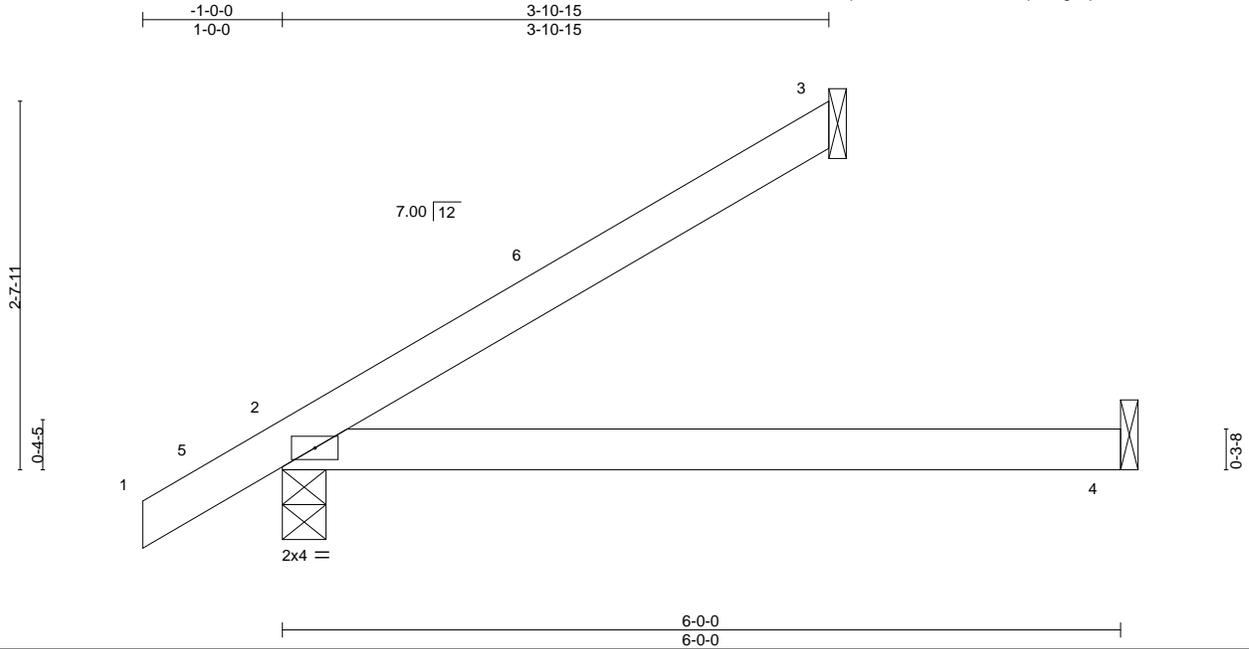
**MiTek®**

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Roseville, CA 95661  
916.755.3571 / MiTek-US.com

Job 3905208	Truss JC02	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312236
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:58 2024 Page 1  
ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.35	Vert(LL) -0.06 2-4 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.12 2-4 >592 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 16 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 3=Mechanical, 2=0-3-12, 4=Mechanical  
Max Horz 2=59(LC 12)  
Max Uplift 3=-38(LC 12)  
Max Grav 3=107(LC 1), 2=262(LC 1), 4=116(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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**MiTek®**

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Roseville, CA 95661  
916.755.3571 / MiTek-US.com

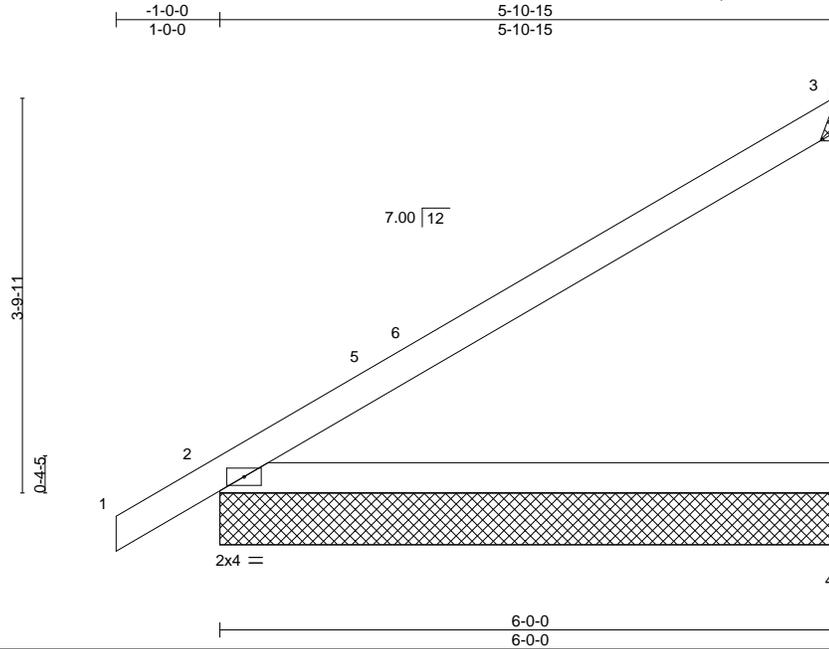
Job 3905208	Truss JC03	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312237
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Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:58 2024 Page 1

ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:22.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0 Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.07	2-4	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.14	2-4	>516	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 19 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 3=Mechanical, 2=6-0-0, 4=6-0-0  
Max Horz 2=84(LC 12)  
Max Uplift 3=60(LC 12)  
Max Grav 3=182(LC 1), 2=317(LC 1), 4=120(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: 12/31/2024  
March 14, 2024

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

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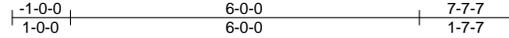
Job 3905208	Truss JC04	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312238
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Builders FirstSource (Beaverton, OR),

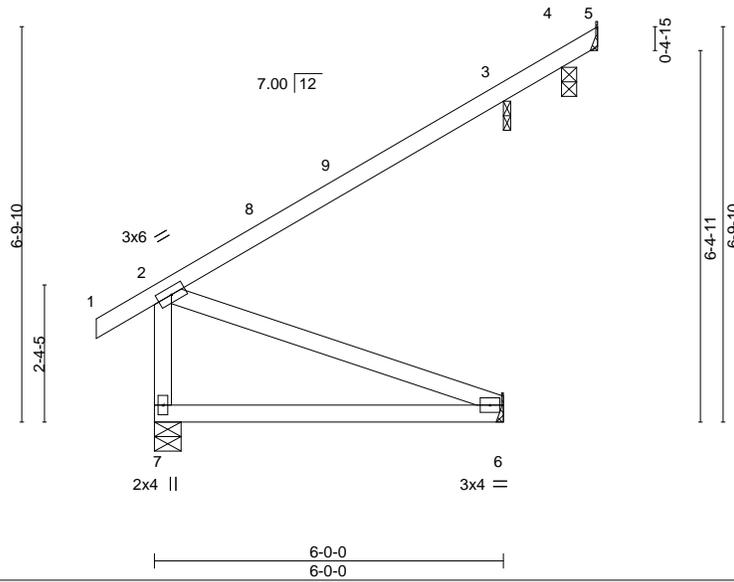
Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:35:59 2024 Page 1

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Scale = 1:39.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL) -0.06 6-7 >999 240	MT20	220/195
TCDL 7.0	Lumber DOL	1.15	BC 0.36	Vert(CT) -0.12 6-7 >570 180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-P		Weight: 33 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

All bearings Mechanical except (jt=length) 7=0-5-8, 3=0-1-8, 4=0-3-2.  
 (lb) - Max Horz 7=102(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 3, 4  
 Max Grav All reactions 250 lb or less at joint(s) 5, 6, 3, 4 except 7=328(LC 1)

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

TOP CHORD 2-7=-270/31

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-6-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 3, 4.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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 March 14, 2024

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Job 3905208	Truss JC05	Truss Type Jack-Closed Girder	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312239
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:36:00 2024 Page 1

ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:36.0

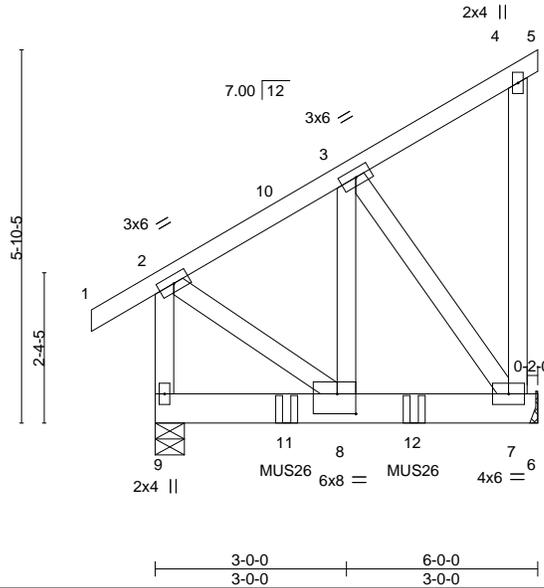


Plate Offsets (X,Y)-- [8:0-3-8,0-3-12]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.20	Vert(LL) -0.01	7-8	>999	240	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.27	Vert(CT) -0.01	7-8	>999	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-P					Weight: 47 lb	FT = 20%
	Code IRC2018/TPI2014							

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x6 DF No.2  
WEBS 2x4 DF No.2

**BRACING-**

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

**REACTIONS.**

(size) 9=0-5-8, 7=Mechanical  
Max Horz 9=139(LC 9)  
Max Uplift 7=-56(LC 9)  
Max Grav 9=767(LC 1), 7=789(LC 1)

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

TOP CHORD 2-9=-665/86, 2-3=-492/25  
BOT CHORD 8-9=-285/203, 7-8=-131/386  
WEBS 2-8=-18/474, 3-8=-20/564, 3-7=-657/131

**NOTES-**

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie MUS26 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-64, 2-4=-64, 4-5=-64, 6-9=-20  
Concentrated Loads (lb)  
Vert: 11=-453(B) 12=-538(B)



EXPIRES: 12/31/2024  
March 14, 2024

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Job 3905208	Truss SA01	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312240
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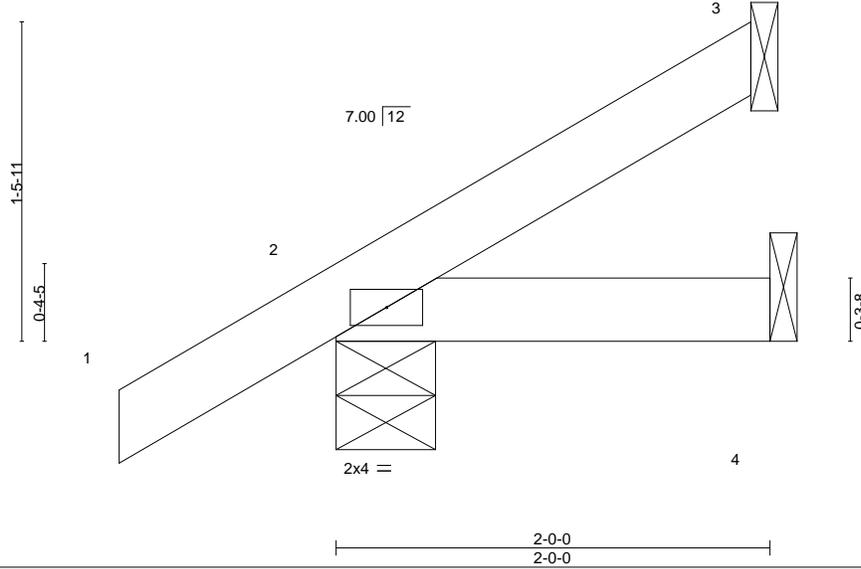
Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:36:00 2024 Page 1  
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Scale = 1:10.6



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	-0.00	2	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-P						Weight: 8 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=34(LC 12)  
Max Uplift 3=-16(LC 12), 2=-6(LC 12)  
Max Grav 3=40(LC 19), 2=165(LC 1), 4=39(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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March 14, 2024

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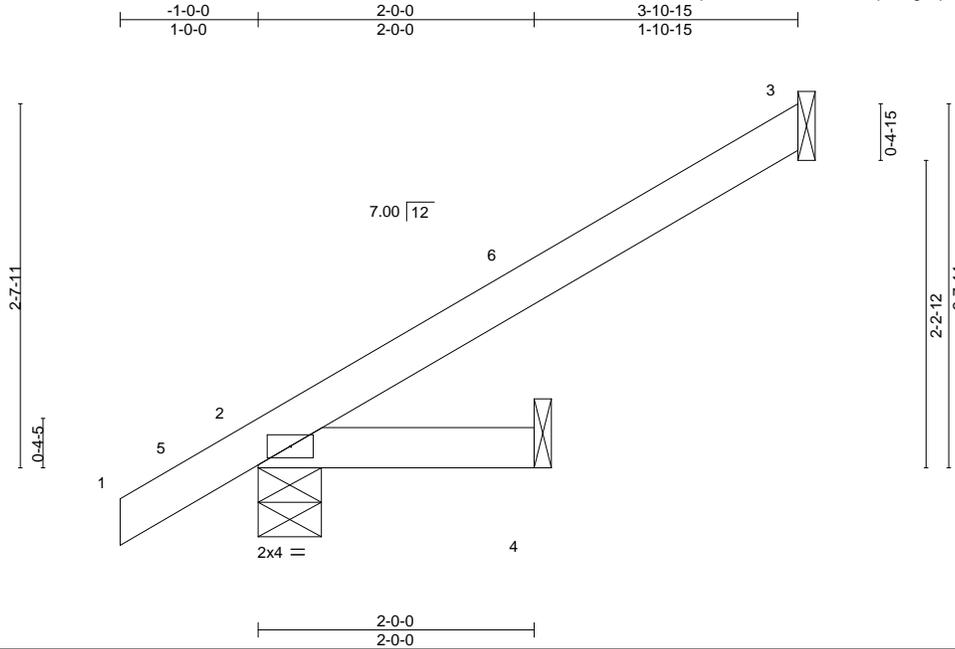
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Roseville, CA 95661  
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Job 3905208	Truss SA02	Truss Type Jack-Open	Qty 1	Ply 1	Canopy - 1708 plan Job Reference (optional)	R81312241
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Builders FirstSource (Beaverton, OR),

Beaverton, OR - 97005,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Mar 13 15:36:01 2024 Page 1  
ID:Re14btGhkz4RiGOatcuqzLzbM9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:16.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.15	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.03	Vert(LL) -0.00 2 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.00 2-4 >999 180		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) -0.00 3 n/a n/a	Weight: 11 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=59(LC 12)  
Max Uplift 3=-38(LC 12), 2=-10(LC 12)  
Max Grav 3=113(LC 1), 2=217(LC 1), 4=39(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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March 14, 2024

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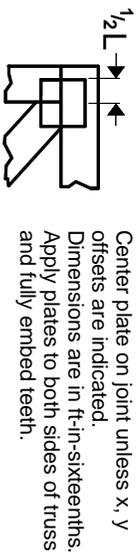
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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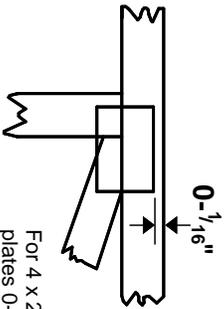
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Roseville, CA 95661  
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# Symbols

## 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 MITtek software or upon request.

## PLATE SIZE

4 X 4

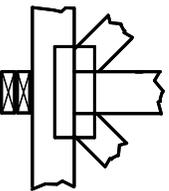
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

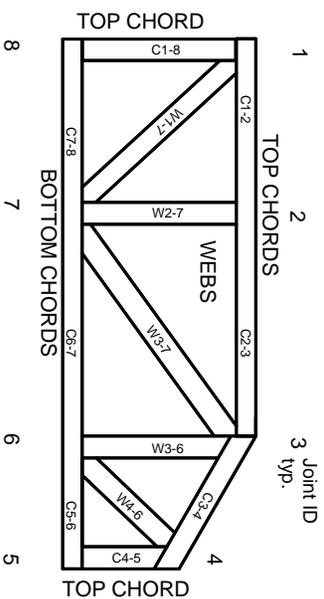


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TFP1: 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-1-1988, ESR-2-362, ESR-2-685, ESR-3-282  
ESR-4-722, ESL-1-388

# 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/TFP 1 section 6.3. These truss designs rely on Lumber values established by others.

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# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability/bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

# MITek®

MITtek Engineering Reference Sheet: Mill-7473 rev. 1/2/2023

**Moisture Content Acknowledgement Form**

I, Canopy Building Group, LLC <sup>(Seen on Net)</sup> <sub>are</sub> am the general contractor or the owner-builder at the following address:

Street Address

Newberg  
City

Permit#

If applicable:

Ranch Subdivision Lots  
Subdivision/Lot and/or Map and Tax Lot

To conform with the 2014 Oregon Residential Specialty Code (ORSC), Section R318.2, I am notifying the building official that I am aware of the moisture content requirement of ORSC Section R318.2 and have taken steps to meet this code requirement. [Section R318.2 is provided for reference.]

**Section R318.2 Moisture content.** Prior to issuance of the insulation/vapor barrier approval required by R109.1.5.2 of this code:

(A) All moisture-sensitive wood framing members used in construction shall have a moisture content of not more than 19 percent of the weight of dry wood framing members.

(B) The general contractor or the owner who was issued the structural permit shall notify the building official on a division approved form that the contractor or the owner who was issued the structural permit is aware of and has taken steps to meet the requirement in paragraph (A).

[Signature]  
Signature

02/07/2024  
Date

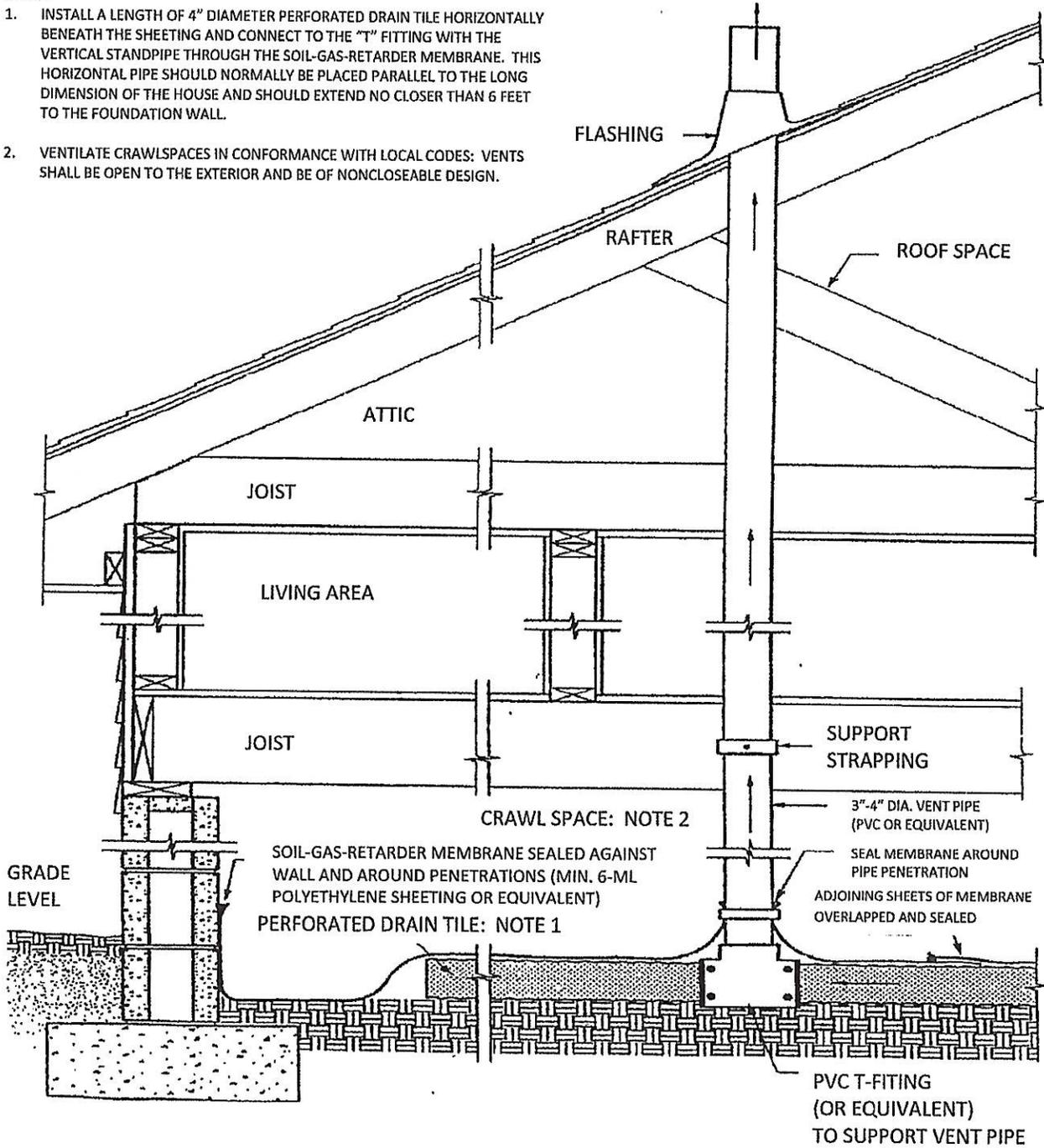
# RADON MITIGATION

PASSIVE RADON CONTROL SYSTEM IN CRAWL SPACE FOR NEW CONSTRUCTION.

EXHAUST (10' FROM OPENINGS INTO  
CONDITIONED SPACES OF BUILDING)  
12" MIN. ABOVE ROOF

**NOTES**

1. INSTALL A LENGTH OF 4" DIAMETER PERFORATED DRAIN TILE HORIZONTALLY BENEATH THE SHEETING AND CONNECT TO THE "T" FITTING WITH THE VERTICAL STANDPIPE THROUGH THE SOIL-GAS-RETARDER MEMBRANE. THIS HORIZONTAL PIPE SHOULD NORMALLY BE PLACED PARALLEL TO THE LONG DIMENSION OF THE HOUSE AND SHOULD EXTEND NO CLOSER THAN 6 FEET TO THE FOUNDATION WALL.
2. VENTILATE CRAWLSPACES IN CONFORMANCE WITH LOCAL CODES: VENTS SHALL BE OPEN TO THE EXTERIOR AND BE OF NONCLOSEABLE DESIGN.



Appendix F: Radon mitigation AF103.4.8  
provide documentation that the ducts conform to performance standards.



**Residential Certificate of Lighting Fixtures**

City of Newberg – Building Division  
414 E. First Street • P.O. Box 970 • Newberg, OR 97132  
503-537-1240  
[www.newbergoregon.gov](http://www.newbergoregon.gov)

To conform with the 2014 Oregon Residential Specialty Code (ORSC), Section N1107.2, I am notifying the building official that a minimum of 50 percent of the permanently installed lighting fixtures are compact or linear florescent, or a minimum efficacy of 40 lumens per input watt.

**Additional Measures (check if applicable):**

- To conform with Section N1101.1, additional measure "D" or "E" was selected. I am notifying the building official that a minimum of 75 percent of the permanently installed lighting fixtures are compact or linear florescent, or a minimum efficacy of 40 lumens per watt.
- To conform with Section N1101.1, additional measure 2 was selected. I am notifying the building official that a minimum of 65 percent of the permanently installed lighting fixtures are compact or linear florescent, or a minimum efficacy of 40 lumens per watt.

Date: 02/07/2024

Building Permit Number: \_\_\_\_\_

Owner's Name: DMR @ Bill Rourke / Tom Fisher

Job Address: 1012 E. Rourke Ct

City: Newberg State: OR Zip Code: 97130

[Signature]  
General Contractor / Owner Signature

Sean O'Neil, President Conroy Building Group LLC  
Printed Name



# Residential Energy Additional Measure Selection

City of Newberg – Building Division  
414 E. First Street • P.O. Box 970 • Newberg, OR 97132  
503-537-1240  
[www.newbergoregon.gov](http://www.newbergoregon.gov)

Please select the type of construction

- New Construction.** All conditioned spaces within residential buildings must comply with Table N1101.1(1)
  - Select one numbered and one lettered measure from Table N1101.1(2) on page 2.

**Additions.** Additions to existing buildings or structures may be made without making the entire building or structure comply if the new additions comply with the requirements of this chapter. (N1101.3)

- Large Additions.** Additions that are equal to or more than 40 percent of the existing building heated floor area or 600 square feet (55 m<sup>2</sup>) in area, whichever is less. (N1101.3.1)
  - Select one numbered and one lettered measure from Table N1101.(2) on page 2
- Small Additions.** Additions that are less than 40 percent of the existing building heated floor area or less than 600 square feet in area, whichever is less. (N1101.3.2)
  - Select one measure from Table N1101.1(2) on page 2 or comply with Table N1101.3

- Exception.** Additions that are less than 15 percent of existing building heated floor area or 200 square feet (18.58 m<sup>2</sup>) is area, whichever is less, are not required to comply with Table N1101.1(2) or Table N1101.3.

Selected item number:   2   Selected item letter:   B    
 • Depending on which additional measures you have selected, there may be sub-options to specify. Check the appropriate box if provided.

Date: \_\_\_\_\_

Building Permit Number: \_\_\_\_\_

Owner's Name: Bill Bourke/Jim Fisher

Job Address: 1012 E. Bourke Ct.

City: Newberg State: OR Zip Code: 97130

Applicant's Signature: [Signature]

Printed Name: Sean O'Neill

### TABLE N1101.3 – Small Addition Additional Measures (select one)

- 1 – Increase the ceiling insulation of the existing portion of the home as specified in Table N1101.2.
- 2 – Replace all existing single-pane wood or aluminum windows to be U-value as specified in Table N1101.2.
- 3 – Insulate the floor system as specified in Table N1101.2 and install 50 percent of permanently installed lighting fixtures as CFL or linear fluorescent or minimum efficacy of 40 lumens per watt as specified in Section N1107.2.
- 4 – Test the entire dwelling with blower door and exhibit no more than 7.0 air changes per hour at 50 Pascals.
- 5 – Seal and performance test the duct system.
- 6 – Replace existing 78 percent AFUE or less gas furnace with a 92 percent AFUE or greater system.
- 7 – Replace existing electric radiant space heaters with a ductless mini-split system with a minimum HSPF of 8.5.
- 8 – Replace existing electric forced air furnace with an air source heat pump with a minimum HSPF of 8.5.
- 9 – Replace existing water heater for a natural gas/propane water heater with a minimum EF of 0.67.
- 10 – Install a solar water heating system with a minimum of 40 square feet of gross collector area.

**TABLE N1101.1(2) Additional Measures**

- 1 – High-Efficiency Walls and Windows**  
Exterior walls-U-0.047/R-19+5 (insulation sheathing)/SIPS, and one of the following options:
    - Windows – Max 15 percent of conditioned area, or
    - Windows – U-0.30
  - 2 – High-Efficiency Envelope**  
Exterior walls – U-0.058/R-21 Intermediate framing, and  
Vaulted ceilings – U-0.033/R-30A<sup>d,e</sup>, and  
Flat ceilings – U-0.25/R-49, and  
Framed Floors – U-0.025/R-38, and  
Windows – U-0.30; and
    - Doors – All doors U-0.20, or
    - Additional 15 percent of permanently installed lighting fixtures as high-efficacy lamps or
    - Conservation measure D and E
  - 3 – High-Efficiency Ceiling, Window and Duct Sealing (cannot be used with conservation measure E)**  
Vaulted ceilings – U-0.033/R-30A<sup>d,e</sup>, and  
Flat ceiling – U-0.025/R-49, and  
Windows – U-0.30, and performance tested duct systems<sup>b</sup>
  - 4 – High-Efficiency Thermal Envelope UA**  
Proposed UA is 15 percent lower than the Code UA when calculated in Table N1104.1(1)
  - 5 – Building Tightness Testing, Ventilation and Duct Sealing**  
A mechanical exhaust, supply, or combination system providing whole-building ventilation rates specified in Table N1101.1(3), or  
ASHRAE 62.2, and  
The dwelling must be tested with a blower door and found to exhibit no more than
    - 6.0 air changes per hour<sup>f</sup>, or
    - 5.0 air changes per hour<sup>f</sup> when used with conservation measure E, and performance tested duct systems<sup>b</sup>
  - 6 – Duct Tested HVAC Systems Within Conditioned Space: (cannot be used with conservation measure B or C)**  
All ducts and air handler are contained within building envelope<sup>d</sup>
- 
- A – High-Efficiency HVAC System**
    - Gas-fired furnace or boiler with minimum AFUE of 90 percent a, or
    - Air-source heat pump with minimum HSPF of 8.5 or
    - Closed-loop ground source heat pump with minimum COP of 3.0
  - B – Ducted HVAC Systems Within Conditioned Space**  
All ducts and air handler are contained within building envelope<sup>d</sup>
  - C – Ductless Heat Pump**  
Replace electric resistance heating in at least the primary zone of dwelling with at least one ductless mini-split heat pump having a minimum HSPF of 8.5. Unit must not have integrated backup resistance heat, and the unit (or units, if more than one is installed in the dwelling) must be sized to have capacity to meet the entire dwelling design heat loss rate at outdoor design temperature condition. Conventional electric resistance heating may be provided for any secondary zones in the dwelling. A packaged terminal heat pump (PTHP) with comparable efficiency ratings may be used when no supplemental zonal heaters are installed in the building and integrated backup resistance heat is allowed in a PTHP
  - D – High-Efficiency Water Heating and Lighting**  
Natural gas/propane, on-demand water heating with minimum EF of 0.80, and  
A minimum 75 percent of permanently installed lighting fixtures as CFL or linear fluorescent or a minimum efficacy of 40 lumens per watt as specified in Section N1107.2<sup>e</sup>
  - E – Energy Management Device and Duct Sealing**  
Whole building energy management device that is capable of monitoring or controlling energy consumption, and performance tested duct systems<sup>b</sup>, and A minimum 75 percent of permanently installed fixtures as high efficacy lamps
  - F – Solar Photovoltaic**  
Minimum 1 watt/square foot conditioned floor space<sup>g</sup>
  - G – Solar Water Heating**  
Minimum of 40 ft<sup>2</sup> of gross collector area<sup>h</sup>

For SI: 1 square foot = 0.093 m<sup>2</sup>, 1 watt per square foot = 10.8 W/m<sup>2</sup>.

a. Furnaces located within the building envelope must have sealed combustion air installed. Combustion air must be ducted directly from the outdoors.

b. Documentation of performance tested ductwork must be submitted to the building official upon completion of work. This work must be performed by a contractor certified by the Oregon Department of Energy's (ODOE) Residential Energy Tax Credit program and documentation must be provided that work demonstrates conformance to ODOE duct performance standards.

c. Section N1107.2 requires 50 percent of permanently installed lighting fixtures to contain high efficacy lamps. Each of these additional measures adds an additional percent to the Section N1107.2 requirement.

d. A = advanced frame construction, which must provide full required ceiling insulation value to the outside of exterior walls.

e. The maximum vaulted ceiling surface area must not be greater than 50 percent of the total heated space floor area unless vaulted area has a U-factor no greater than u-0.026.

f. Building tightness test must be conducted with a blower door depressurizing the dwelling 50 Pascal's from ambient conditions. Documentation of blower door test must be submitted to the building official upon completion of work.

g. Solar electric system size must include documentation indicating that total solar resource fraction is not less than 75 percent.

h. Solar water heating panels must be solar rating and certification corporation (SRCC) standard OG-300 certified and labeled, with documentation indicating that total solar resource fraction is not less than 75 percent.

i. A total of 5 percent of an HVAC systems ductwork must be permitted to be located outside of the conditioned space. Ducts located outside the conditioned space must have insulation installed as required in this code.



# City of Newberg PUBLIC WORKS — ENGINEERING Erosion Control & Sedimentation Permit Application



**DESCRIPTION OF WORK (check one of the following options):**

- Sing Family Residence     Erosion Control (Disturbing under 1 acre)
- 1200CN (Disturbing between 1-5 acres)
- 1200C (Disturbing over 5 acres, DEQ required)

Project Name: Rowke Estates  
 Project Address: 1012 E Rowke Ct.  
 Project Tax Map & Lot Number: Lot 5 Rowke Estates  
 Project Site Size: 5000 SF acres — Disturbed Work Area: \_\_\_\_\_ acres  
 Project Site Runoff Drains to (check one):  
 Catch Basin  Ditch  Pipe  Creek  Other: pond  
 Project is on (check one):  Private Property  Public Property

Property Owner Name: Bill Rowke / Jim Fisher  
 Address: \_\_\_\_\_  
 City/state: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Applicant Name: Sean O'Neill  
 Address: See below  
 City/state: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Signature: \_\_\_\_\_  
 General/Excavation Contractor Name: Canopy Building Group LLC  
 Address: 15962 Browns Ferry Rd #202  
 City/state: Lake Oswego, OR Zip: 97035  
 24hr Phone: 503 956 9302 Email: Sean@canopypk.com  
 CCB#: 2329250  
 Contact name & Title: Sean O'Neill, President

PERMIT INFORMATION	
PW Permit No:	_____
Bldg Permit No:	_____
Date Received:	_____
Date Paid:	_____
Receipt:	_____
Date Issued:	_____ By: _____

**FOR STAFF USE ONLY**

PERMIT FEE: \_\_\_\_\_  
 Application submittal fee: \$ \_\_\_\_\_  
 Additional fees: \$ \_\_\_\_\_  
 Application accepted:  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Application reviewed:  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Applicant notified:  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

**ADDITIONAL INFORMATION**

Meter Size (Circle what applies):

¾"  1"  1.5"  2"  3"  4"  6"  8"  10"

Number of backflow devices: 1

Wastewater Lateral Size (Circle what applies): 4"  6"  8"

Wastewater Class (check what applies):

- Residential;
- Multi-residential (BOD or 55 > 1 ½ lbs/100 cf);
- Nonstandard Discharge Strength. All nonresidential users with discharge strengths (BOD or 55) in excess of one and one-half pounds per 100 cubic feet (240 mg/liter) of discharge flow;
- Industrial (BOD or 55 > 1 ½ lbs/100 cf);
- Commercial 1 Discharge Strength (BOD or 55 > 1 ½ lbs/100 cf);
- Commercial 2 Discharge Strength;
- George Fox University; and
- Public agencies.

  
\_\_\_\_\_  
Applicant/Authorized Agent's signature

Sean O'Neil  
\_\_\_\_\_  
Print name

02/29/2004  
\_\_\_\_\_  
Date

**NOTE:** Person specified as "Applicant" shall be designated "Permittee" and shall provide financial assurance for work, if required by the city pursuant to Design and Construction Standards.

**\* BY SIGNING ABOVE, THE APPLICANT(S) SHALL CERTIFY THAT:**

- *The above request does not violate any recorded deed restrictions that may be attached to or imposed upon the subject property.*
- *If the application is granted, the applicant will exercise the rights granted in accordance with the terms and subject to all the conditions and limitations of the approval.*
- *All of the above statements and the statements in any plan, attachments, and exhibits transmitted, are true; and the applicants so acknowledge that any permit issued, based on this application, may be revoked if it is found that any such statements are false.*
- *The applicant has read the entire contents of the application, including the policies and criteria, and understands the requirements for approving or denying the application.*

## ENGINEERING FEES

### Public Improvement Application (PIA):

#### PLAN REVIEW FEE

**Part 1:** Required submittal fee 25% cost of public improvements

#### PERMIT FEE

**Part 2:** 33% cost of public improvements

#### REQUIREMENTS FOR ISSUANCE OF A PERMIT:

1. At the time of submittal of this application, the applicant shall submit a preliminary engineer's estimate.
2. A Public Improvement Development Permit will not be issued without an appropriate ESC Permit or any other required permit.
3. Contractor must be prequalified by the City and acquire a City of Newberg Business License prior to issuance of a Public Improvement Permit.
4. The contractor and any subcontractor shall not commence work until the contractor has obtained all insurance requirements including general liability insurance.
5. Applicant shall deliver to the City assurance such as a bond, bank credit or cash for the purpose of assuring full and faithful completion of all required improvements to existing public facilities within the public right-of-way, easements and of repair work to such public facilities which are damaged as a result of the development. All assurance shall be equivalent to the value of the improvements or repair work.
6. Applicant is to assure that all work performed in the public right-of-way results in the public right-of-way being restored to its original or better condition.

FOR STAFF USE ONLY

## DETAILED SUBMITTAL REQUIREMENTS

### FRANCHISE UTILITY AND SIDEWALK/ DRIVEWAY AND UTILITY CONNECTIONS, ETC. (work in the right of way)

#### Plans

(including information below)

- Dimensions
- Street Name
- Site Address

### FULL SCALE DEVELOPMENT

(Subdivisions/Partitions and Street Improvements)

#### Design Plans

(3 sets, 24x36 or 22x34)

- Cover – Site, Vicinity, Abbreviation, Legend
- General Notes (City, Water, Sewer, etc.)
- Street (Plan, Profile)
- Water, Storm and Sanitary (Plan Profile)
- Stormwater Facilities
- Grading
- Landscaping/Tree Plan
- Composite Utility Plan (Electrical, Phone, Gas, Storm, Sanitary, Water, Signage, Street Lights, etc)
- Details
- Sight Distance Certification
- Signing and Striping
- Street Light Plan and Photometric
- Engineers seal/signature

#### Additional Submittals

- Traffic Report
- Storm water Drainage Calculations
- Geotechnical Report
- Preliminary Access Report (Sight Distance)
- Proposed Plat
- Pavement Section Design Report
- Water System Evaluation Report
- Wastewater Conveyance Report

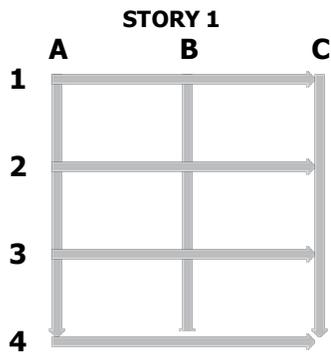
# APA Wall Bracing Calculator Project Report

Builder/Designer	Samedy Kem
Home/Building Plan Name	sk-1708-1
Development Address	
Code	BASED ON 2021 IRC
SDC (Seismic Design Category)	D1
Wind Speed	<= 110 mph
Wind Exposure Category	EXPOSURE C
Total Number of Stories	1 STORY
Cripple Wall	NO
Mean Roof Height less than 30 ft.	YES

---

## Designer Responsibilities:

- Check irregularities per IRC section R301.2.2.6
- Confirm load path to foundation per IRC section R403.1.6
- Design foundations per IRC section R403.1
  - Include interior braced wall line foundations per IRC Section R602.11
- Design cripple walls in one of two ways
  - Redesignate as the first story and use the calculator
  - Design by hand per IRC Section R602.10.10.

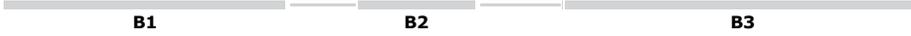


**WALL LINE ELEVATION VIEW**



Total Wall Line Length: 56' 0"

**WALL LINE PLAN VIEW**



Story	Wall Line	Bracing Method	Wind Factors	Wind Bracing Amount	Seismic Factors	Seismic Bracing Amount	Required Bracing	Qualified Bracing	Bracing Status
1st Story	A	CS-WSP	1.75	5.78	1.04	9.9	9.9	47	Compliant

**Furthest Distance to Adjacent BWL** 22' 0" **Stone or Masonry Veneer** Omitted  
**Roof Eave to Ridge Height** 12 feet **Wall Dead Load** > 8 psf but <= 15 psf  
**Wall Line Length** 56' 0" **Roof/Ceiling Dead Loads** 17 psf  
**Gypsum** Included  
**Blocking** Included

Wall Line Segment	Wall Height	Story Height	Bracing Method	Segment Length	Adjacent Opening Height	Qualified Segment	Nails	Tension Tie	Hold Down
B1	9'	10'	CS-WSP	17' 6"	8' 0"	17.5	6"/12"		
B2	9'	10'	CS-WSP	7' 4"	8' 0"	7.33	6"/12"		
B3	9'	10'	CS-WSP	22' 2"	8' 0"	22.17	6"/12"		

WALL LINE ELEVATION VIEW



Total Wall Line Length: 54' 0"

WALL LINE PLAN VIEW

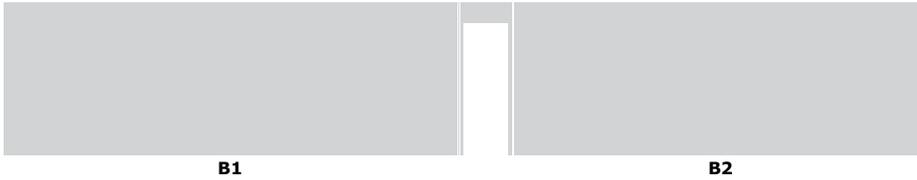


Story	Wall Line	Bracing Method	Wind Factors	Wind Bracing Amount	Seismic Factors	Seismic Bracing Amount	Required Bracing	Qualified Bracing	Bracing Status
1st Story	B	CS-WSP	1.75	5.25	1.04	9.55	9.55	46	Compliant

**Furthest Distance to Adjacent BWL** 20' 0" **Stone or Masonry Veneer** Omitted  
**Roof Eave to Ridge Height** 12 feet **Wall Dead Load** > 8 psf but <= 15 psf  
**Wall Line Length** 54' 0" **Roof/Ceiling Dead Loads** 17 psf  
**Gypsum** Included  
**Blocking** Included

Wall Line Segment	Wall Height	Story Height	Bracing Method	Segment Length	Adjacent Opening Height	Qualified Segment	Nails	Tension Tie	Hold Down
B1	9'	10'	CS-WSP	23' 3"	9' 0"	23.25	6"/12"		
B2	9'	10'	CS-WSP	2' 4"	9' 0"	0	6"/12"		
B3	9'	10'	CS-WSP	22' 9"	6' 8"	22.75	6"/12"		

WALL LINE ELEVATION VIEW



Total Wall Line Length: 54' 0"

WALL LINE PLAN VIEW

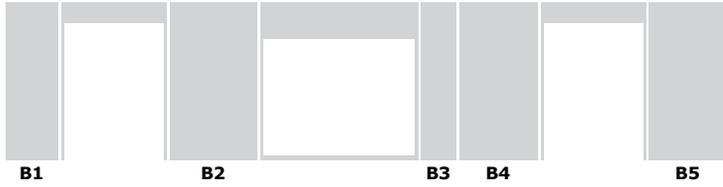


Story	Wall Line	Bracing Method	Wind Factors	Wind Bracing Amount	Seismic Factors	Seismic Bracing Amount	Required Bracing	Qualified Bracing	Bracing Status
1st Story	C	CS-WSP	1.75	4.73	1.04	9.55	9.55	51	Compliant

**Furthest Distance to Adjacent BWL** 18' 0" **Stone or Masonry Veneer** Omitted  
**Roof Eave to Ridge Height** 12 feet **Wall Dead Load** > 8 psf but <= 15 psf  
**Wall Line Length** 54' 0" **Roof/Ceiling Dead Loads** 17 psf  
**Gypsum** Included  
**Blocking** Included

Wall Line Segment	Wall Height	Story Height	Bracing Method	Segment Length	Adjacent Opening Height	Qualified Segment	Nails	Tension Tie	Hold Down
B1	9'	10'	CS-WSP	26' 9"	8' 0"	26.75	6"/12"		
B2	9'	10'	CS-WSP	24' 3"	8' 0"	24.25	6"/12"		

**WALL LINE ELEVATION VIEW**



Total Wall Line Length: 40' 0"

**WALL LINE PLAN VIEW**



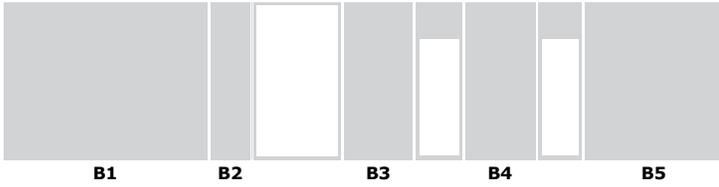
Story	Wall Line	Bracing Method	Wind Factors	Wind Bracing Amount	Seismic Factors	Seismic Bracing Amount	Required Bracing	Qualified Bracing	Bracing Status
1st Story	1	CS-WSP	1.95	7.45	1.04	7.07	7.45	14	Compliant

**Furthest Distance to Adjacent BWL** 25' 6" **Stone or Masonry Veneer** Omitted  
**Roof Eave to Ridge Height** 12 feet **Wall Dead Load** > 8 psf but <= 15 psf  
**Wall Line Length** 40' 0" **Roof/Ceiling Dead Loads** 17 psf  
**Gypsum** Included  
**Blocking** Included

Wall Line Segment	Wall Height	Story Height	Bracing Method	Segment Length	Adjacent Opening Height	Qualified Segment	Nails	Tension Tie	Hold Down
B1	9'	10'	CS-WSP	3' 0"	8' 0"	0	6"/12"		
B2	9'	10'	CS-WSP	5' 0"	8' 0"	5	6"/12"		
B3	9'	10'	CS-WSP	2' 0"	6' 8"	0	6"/12"		
B4	9'	10'	CS-WSP	4' 6"	8' 0"	4.5	6"/12"		
B5	9'	10'	CS-WSP	4' 6"	8' 0"	4.5	6"/12"		

Include proper HD details for IRC placement rules on the plans.

**WALL LINE ELEVATION VIEW**



Total Wall Line Length: 40' 0"

**WALL LINE PLAN VIEW**

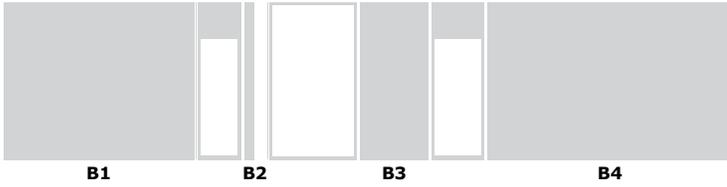


Story	Wall Line	Bracing Method	Wind Factors	Wind Bracing Amount	Seismic Factors	Seismic Bracing Amount	Required Bracing	Qualified Bracing	Bracing Status
1st Story	2	CS-WSP	1.95	5.38	1.04	7.07	7.07	23.59	Compliant

**Furthest Distance to Adjacent BWL** 18' 5" **Stone or Masonry Veneer** Omitted  
**Roof Eave to Ridge Height** 12 feet **Wall Dead Load** > 8 psf but <= 15 psf  
**Wall Line Length** 40' 0" **Roof/Ceiling Dead Loads** 17 psf  
**Gypsum** Included  
**Blocking** Included

Wall Line Segment	Wall Height	Story Height	Bracing Method	Segment Length	Adjacent Opening Height	Qualified Segment	Nails	Tension Tie	Hold Down
B1	9'	10'	CS-WSP	11' 8"		11.67	6"/12"		
B2	9'	10'	CS-WSP	2' 4"	9' 0"	0	6"/12"		
B3	9'	10'	CS-WSP	3' 11"	9' 0"	0	6"/12"		
B4	9'	10'	CS-WSP	4' 0"	6' 8"	4	6"/12"		
B5	9'	10'	CS-WSP	7' 11"	6' 8"	7.92	6"/12"		

**WALL LINE ELEVATION VIEW**



Total Wall Line Length: 40' 0"

**WALL LINE PLAN VIEW**

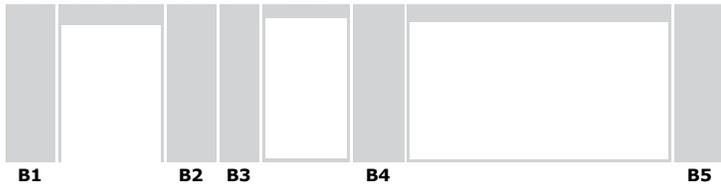


Story	Wall Line	Bracing Method	Wind Factors	Wind Bracing Amount	Seismic Factors	Seismic Bracing Amount	Required Bracing	Qualified Bracing	Bracing Status
1st Story	3	CS-WSP	1.95	4.47	1.04	7.07	7.07	25	Compliant

**Furthest Distance to Adjacent BWL** 15' 3" **Stone or Masonry Veneer** Omitted  
**Roof Eave to Ridge Height** 12 feet **Wall Dead Load** > 8 psf but <= 15 psf  
**Wall Line Length** 40' 0" **Roof/Ceiling Dead Loads** 17 psf  
**Gypsum** Included  
**Blocking** Included

Wall Line Segment	Wall Height	Story Height	Bracing Method	Segment Length	Adjacent Opening Height	Qualified Segment	Nails	Tension Tie	Hold Down
B1	9'	10'	CS-WSP	10' 11"	6' 8"	10.92	6"/12"		
B2	9'	10'	CS-WSP	0' 7"	9' 0"	0	6"/12"		
B3	9'	10'	CS-WSP	3' 11"	9' 0"	0	6"/12"		
B4	9'	10'	CS-WSP	14' 1"	6' 8"	14.08	6"/12"		

WALL LINE ELEVATION VIEW



Total Wall Line Length: 40' 0"

WALL LINE PLAN VIEW



Story	Wall Line	Bracing Method	Wind Factors	Wind Bracing Amount	Seismic Factors	Seismic Bracing Amount	Required Bracing	Qualified Bracing	Bracing Status
1st Story	4	CS-PF	1.95	5.62	1.04	7.07	7.07	13.83	Compliant

**Furthest Distance to Adjacent BWL** 19' 2" **Stone or Masonry Veneer** Omitted  
**Roof Eave to Ridge Height** 12 feet **Wall Dead Load** > 8 psf but <= 15 psf  
**Wall Line Length** 40' 0" **Roof/Ceiling Dead Loads** 17 psf  
**Gypsum** Included  
**Blocking** Included

Wall Line Segment	Wall Height	Story Height	Bracing Method	Segment Length	Adjacent Opening Height	Qualified Segment	Nails	Tension Tie	Hold Down
B1	9'	10'	CS-PF	2' 10"	8' 0"	2.83	3"/3" grid	1,700	
B2	9'	10'	CS-PF	2' 10"	8' 0"	2.83	3"/3" grid	1,700	
B3	9'	10'	CS-WSP	2' 4"	8' 0"	2.33	6"/12"		
B4	9'	10'	CS-PF	2' 11"	8' 0"	2.92	3"/3" grid	3,225	
B5	9'	10'	CS-PF	2' 11"	8' 0"	2.92	3"/3" grid	3,225	

Include proper PF or ABW details on the plans.

## APA Wall Bracing Calculator v2.7.0

### APA Makes No Warranties of Any Kind

All information in the Tool is provided "as is", with no guarantee of completeness, accuracy, timeliness or of the results obtained from the use of this information, and without warranty of any kind, express or implied, including, but not limited to warranties of performance, merchantability and fitness for a particular purpose. You can find the full terms and conditions for use here: [file:///C:/inetpub/wwwroot/APAWood\\_2017/apa-wall-bracing-calculator-disclaimer](file:///C:/inetpub/wwwroot/APAWood_2017/apa-wall-bracing-calculator-disclaimer)

NDWL24-0021 1012 E Rork Ct Plans - Approved  
Reviewed & Approved for Code Compliance  
bradburyj  
NEITHER THE APPROVAL OF PLANS AND SPECIFICATIONS OR THE ISSUANCE OF A BUILDING PERMIT SHALL BE CONSTRUED AS PERMISSION OR ENDORSEMENT TO VIOLATE THE CITIES ADOPTED BUILDING CODE OR ANY OTHER MUNICIPAL ORDINANCE PERMIT ISSUED IN ACCORD WITH THE BUILDING CODE SHALL BE VALID ONLY TO THE EXTENT THAT THE WORK OR USE WHICH IS AUTHORIZED IS LAWFUL  
DATE: 03/20/2024 PLANS EXAM: bradburyj

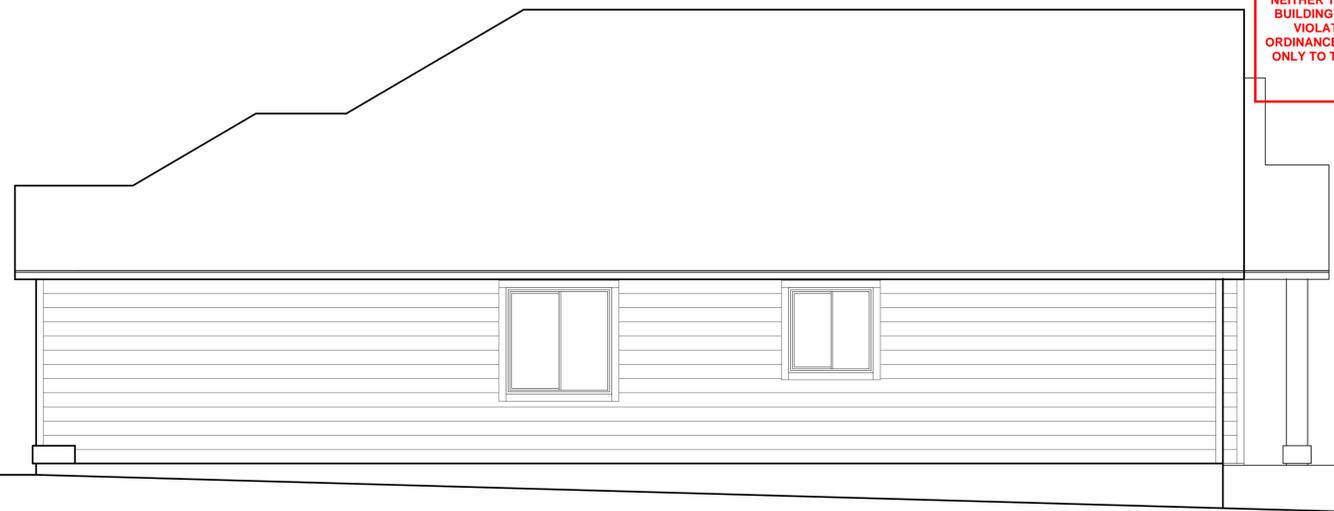


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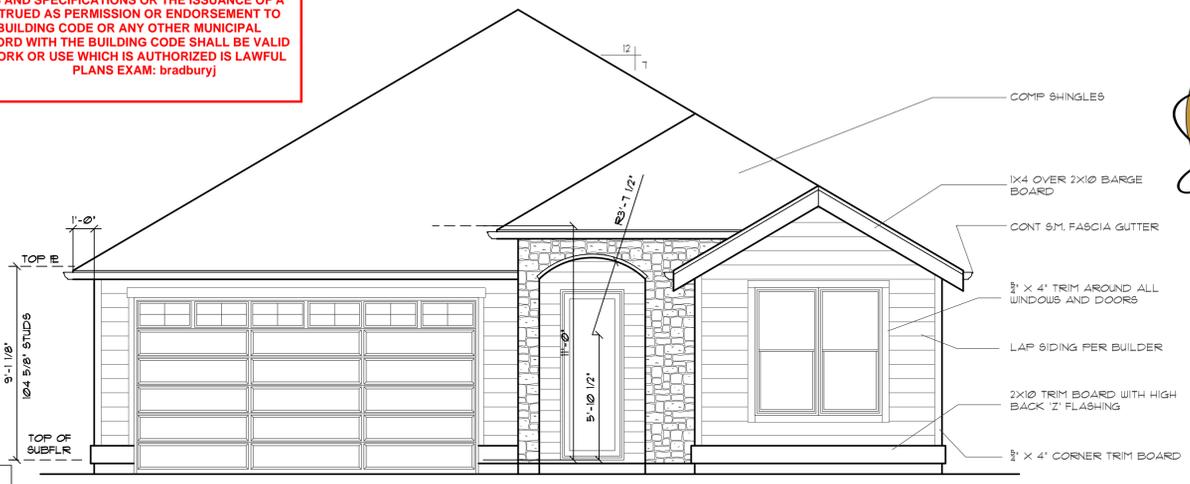
"Success is not measured by the position someone has reached in my life, but the obstacles he has overcome while trying to succeed"  
-Brooker T.

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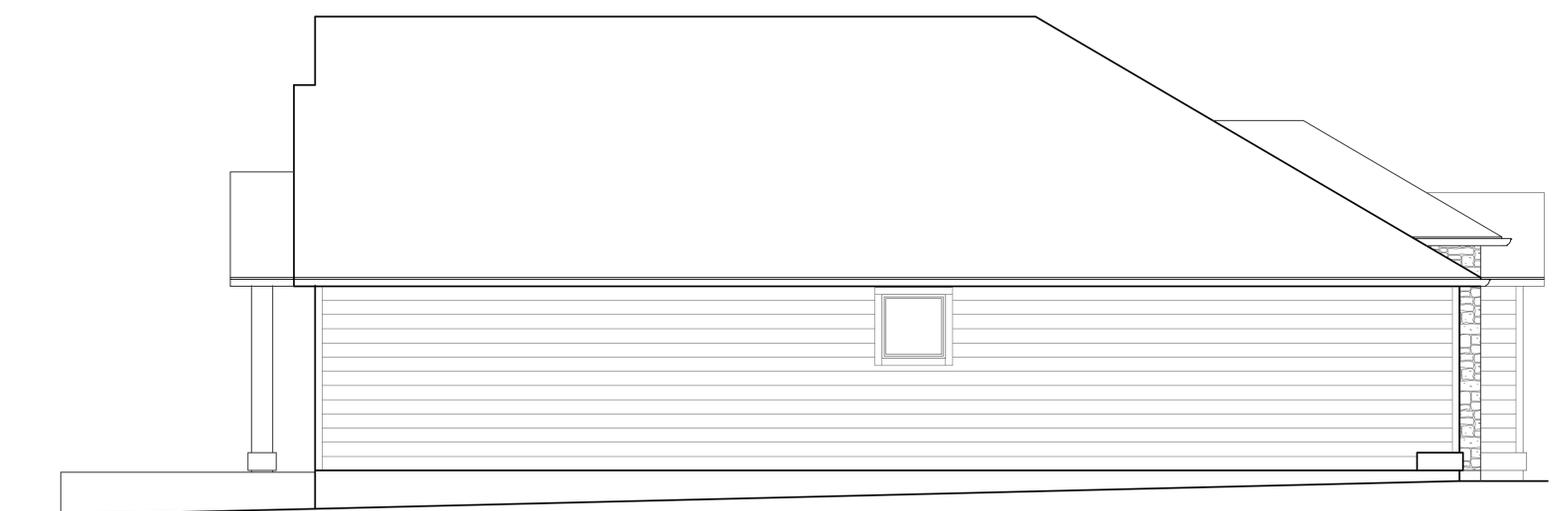
Right Elevation  
SCALE: 1/4"=1'-0"



Front Elevation  
SCALE: 1/4"=1'-0"

TABLE N100.1(1) PRESCRIPTIVE ENVELOPE REQUIREMENTS

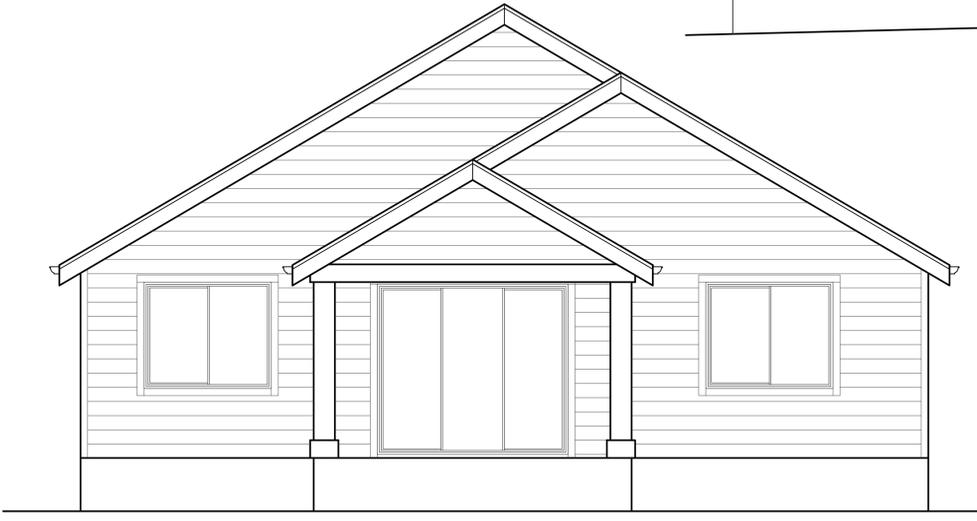
BUILDING COMPONENT	STANDARD BASE CASE	
	Required Performance	Equiv. Value (b)
Wall insulation - above grade	U-0.058 (c)	R-21 Intermediate (c)
Wall insulation - below grade (e)	C-0.063	R-15 c.i. / R-21
Flat Ceilings (f)	U-0.021	R-49
Vaulted Ceilings (g)	U-0.033	R-30 Rafter or R-30A(gh) Scissor Truss
Underfloors	U-0.033	R-30
Slab-edge Perimeter (m)	F-0.520	R-15
Heated Slab interior (l)	n/a	R-10
Windows (j)	U-0.27	U-0.27
Skylights	U-0.50	U-0.50
Exterior doors (k)	U-0.20	U-0.20
Exterior doors with >25ft(2) glazing (l)	U-0.40	U-0.40



Left Elevation  
SCALE: 1/4"=1'-0"

TABLE N101.1(2) ADDITIONAL MEASURES

1	<b>HIGH EFFICIENCY HVAC SYSTEM.</b> a. Gas-fired furnace or boiler AFUE 90% or b. Air source heat pump (ASHP) HSPF 10.0 SEER cooling, or c. Ground source heat pump COP 3.5 or Energy Star rated
2	<b>HIGH EFFICIENCY WATER HEATING SYSTEM</b> a. Natural gas propane water heater with minimum UEF 0.90, or b. Electric heat pump water heater with minimum 2.0 COP, or c. Natural gas propane tankless instantaneous heater with minimum 0.80 UEF and Drain Water Heat Recovery Unit installed on minimum of one shower tub-shower
3	<b>WALL INSULATION UPGRADE</b> Exterior walls - U-0.045/R-21 conventional framing with R-5.0 continuous insulation
4	<b>ADVANCED ENVELOPE</b> Windows - U-0.21 (Area weighted average), and Flat ceiling - U-0.017/R-40, and Framed floors - U-0.020/R-35 or slab edge insulation to F-0.48 or less (R-10 for 48", R-15 for 36" or R-5 fully insulated slab)
5	<b>DUCTLESS HEAT PUMP</b> For dwelling units with all electric heat provide: Ductless heat pump of minimum HSPF 10 in primary Programmable thermostat for all heaters in bedrooms
6	<b>HIGH EFFICIENCY THERMAL ENVELOPE UA.</b> Proposed UA is 8 percent lower than the code UA
7	<b>GLAZING AREA</b> Glazing area, measured as the total of framed openings is less than 12 percent of conditioned floor area
8	<b>3 ACH50 AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION</b> Achieve a maximum of 3.0 ACH50 whole-house air leakage when third-party sealed and provide a whole-house ventilation system including heat recovery with a minimum sensible heat recovery efficiency of not less than 66 percent



Rear Elevation  
SCALE: 1/4"=1'-0"

FINAL GRADING - SURFACE AFTER SHALL NOT DISPENSE ONTO ADJACENT PROPERTY  
STORM WATER CONVEYED BY PIPING NOT TO DISPENSE ONTO ADJACENT PROPERTY  
GUTTERS, DOWNSPOUTS, RAIN DRAIN PIPING IS REQUIRED. STORM WATER TO DISPERSE TO CITY APPROVED STORM DRAINAGE SYSTEM  
WET WEATHER STARTS OCTOBER 1 - MAY 31  
ALL APPLICABLE EROSION CONTROL MEASURES MUST BE IN USED.

Canopy Building Group, LLC  
Lake Oswego, Oregon

410 Garage SF  
1708 SF  
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**Footings and Foundations; Residential Concrete:**

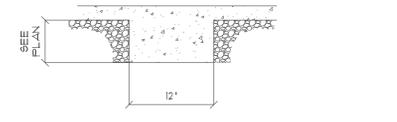
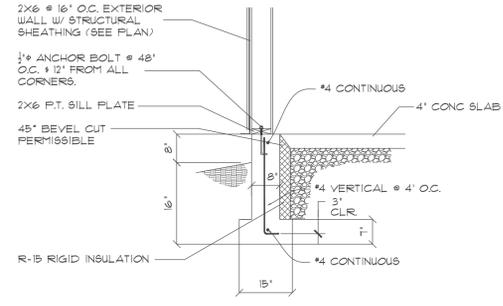
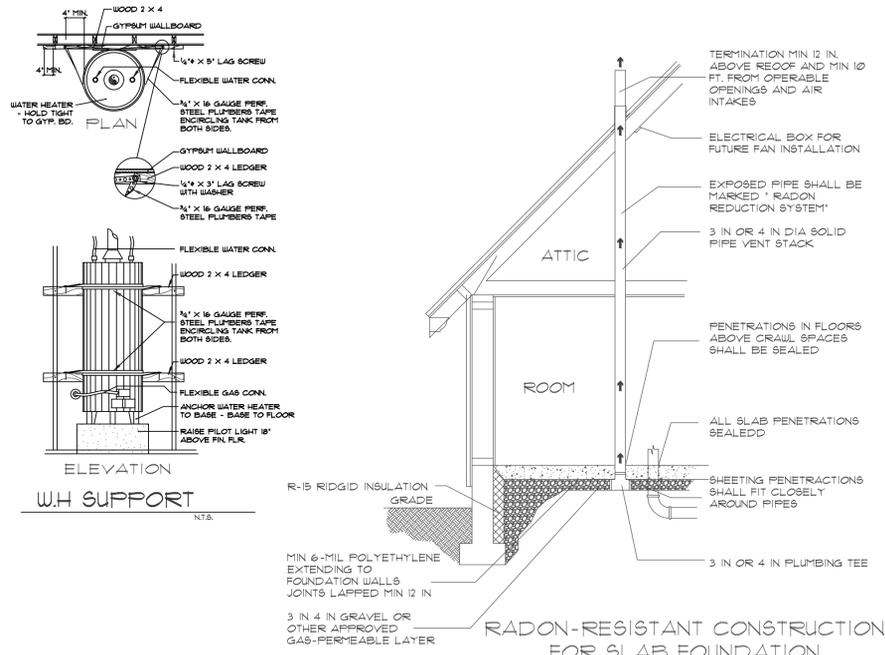
- Compressive Strength. Required minimum compressive strength of concrete (psi) at 28 days:
  - Basement walls, foundation walls and other concrete not exposed to the weather 2500 psi
  - Basement slabs and interior slabs on grade, except garage floor slabs 2500 psi
  - Basement, foundation, exterior walls, other vertical concrete exposed to the weather 3000 psi
  - Porch, carport slabs and steps exposed to the weather and garage floor slabs 3000 psi
 Concrete shall be air entrained (5%-7%) for strengths of 3000 psi and 3500 psi and when subject to freezing and thawing during construction for 2500 psi concrete. See Table R403.2.
- Footings shall be placed on undisturbed natural soil or engineered fill. See Section R403.1.
- Minimum depth. Bottoms of exterior wall, bearing wall, pier and column footings shall be not less than 18 inches below finished grade. See Section 403.1.5.
- Minimum sizes for concrete or masonry footings shall be as set forth in Table R403.1 and Figure R403.1(1). See R403.1.1.
- Slope. The top surfaces of footings shall be level. The bottom surface of footings shall not have a slope exceeding 1 in 10. Footings shall be stepped where the ground surface is more than 1 in 10. See Section 403.1.6.
- Ground clearance. Wood siding, sheathing and wall framing on the exterior of a building shall have a clearance of not less than 6 inches from the ground. See Section R319.1 Item 5.
- Seismic reinforcing. Foundation with stem walls shall be provided with a minimum of one No. 4 bar within 12 inches of the top of the wall and one No. 4 bar located 3 inches to 4 inches from the bottom of the footing.
 

EXCEPTION: Foundations constructed monolithically shall be permitted to have a minimum of two No. 4 bars placed in the footing. Section R403.1.4.1

 Where a construction joint is created between a concrete footing and stem wall, a minimum of one No. 4 bar shall be provided at no more than 4 feet on center. The vertical bar shall extend 3 inches clear of the bottom of the footing, have a standard hook and extend a minimum of 14 inches into the stem wall. See Section R403.1.4.
- NOTE: Unless otherwise detailed on plan, a 6 inch 90 degree bend on the short leg (hook) will be considered as meeting the intent of this section.
- Grounding electrodes. When concrete reinforcing bars are installed in concrete footings, the following requirements shall be met to provide for a grounding electrode system:
  - Uncoated No. 4 reinforcing bar installed not less than 3 inches from the bottom of the footing and not less than 20 feet in length encased with a minimum of 2 inches of concrete.
  - An uncoated No. 4 reinforcing bar stubbed up at least 12 inches above the floor plate line and tightly attached to the reinforcing bar located in the footing with 3 ties. The spliced lap of the stubbed up bar to the footing bar shall be a minimum of 12 inches. Section R403.1.7
  - Wood sill plate anchor bolts shall be min. 1/2-inch diameter, 7 inches embedment, max. 6 feet on center and not more than 12 inches from a corner or mudsill splices or less than 7 bolt diameters from mudsill splice. Min. 2 anchor bolts per plate. See Sections R403.1.8 and R403.1.8.1.
 Plate washers conforming to Section R602.11.1 shall be provided for all anchor bolts over the full length of required braced wall lines. Properly sized cut washers shall be permitted for anchor bolts in wall lines not containing braced wall panels. Plate washers, a minimum of 0.229 inches by 3 inches by 3 inches in size, shall be installed between the foundation sill plate and the nut. The hole in the plate washer is permitted to be diagonally slotted with a width of up to 3/16 inch larger than the bolt diameter and a slot length not to exceed 1-3/4 inches, provided a standard cut washer is placed between the plate washer and the nut. See Section R602.11.1.
- Concrete slab on ground floors shall be not less than 3 1/2 inches thick. Where slabs and footings are constructed monolithically, footings shall comply with requirements in Figure 403.1.1(1).
- Concrete foundation walls. Concrete foundation walls shall be constructed as set forth in Tables R404.1.1 (5) and shall also comply with the provisions of Section R404 and the applicable provisions of Section R402.2. In Seismic Design Categories D1 and D2, concrete foundation walls shall comply with Section R404.1.4.

**Crawl spaces:**

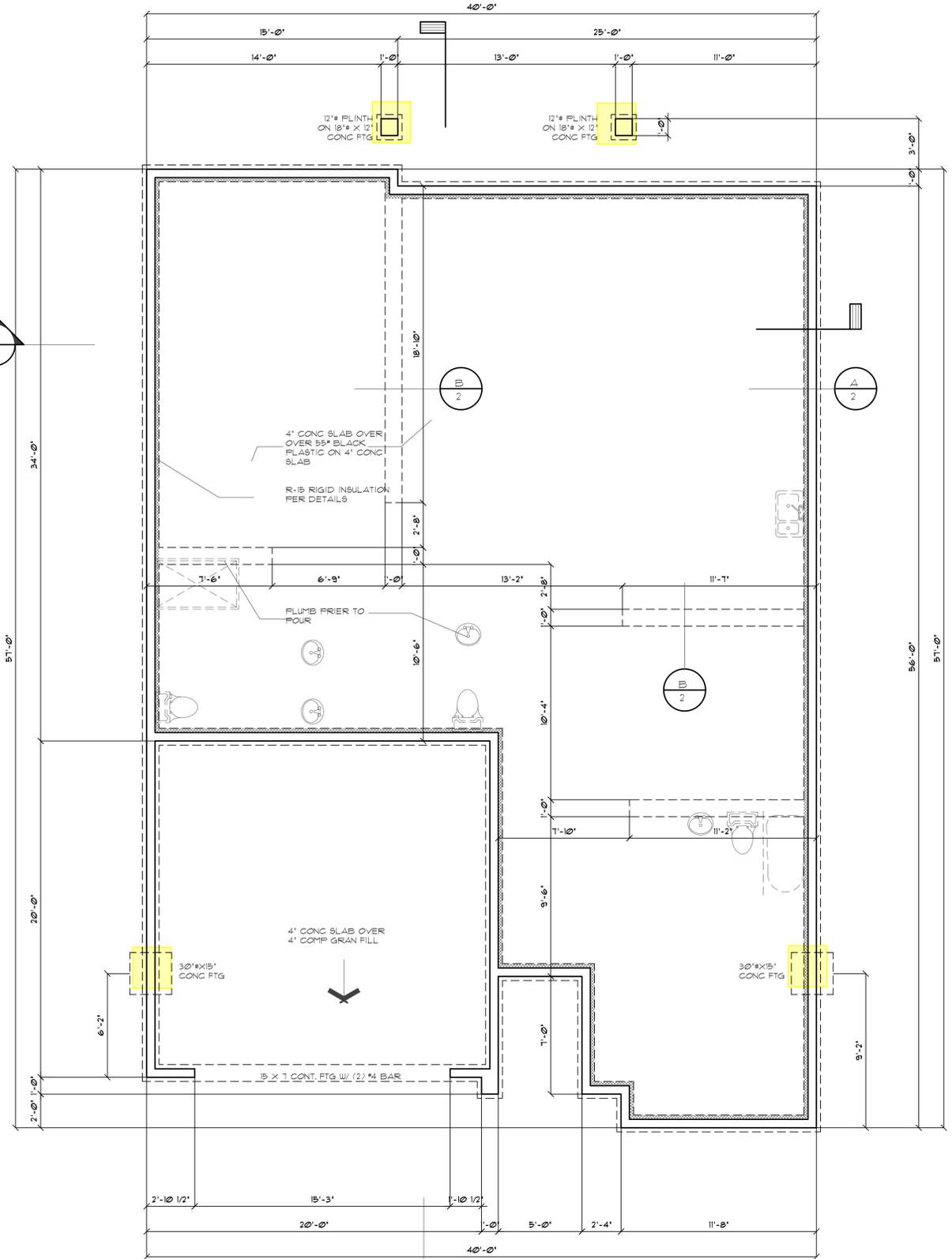
- Access opening. Crawl spaces shall be provided with a minimum 18 inches by 24 inches access opening. Openings through a perimeter wall shall be not less than 16 inches by 24 inches. When any portion of the through-wall access is below grade, an airway not less than 16 inches by 24 inches shall be provided. Pipes, ducts and other construction must not obstruct accessibility to and within the crawl space. Section R408.3. See Section M1305.1.4 for access requirements where mechanical equipment is located under floor.
- Under-floor space ventilation. The under-floor space between the bottom of the floor joists and the earth under any building (except space occupied by a basement) shall have ventilation openings through foundation walls or exterior walls. The minimum net area of ventilation openings shall not be less than 1 square foot for each 150 square feet of under-floor space area. One ventilating opening shall be required within 3 feet of each corner of the building. The openings shall be covered with corrosion resistant wire mesh or equivalent with 1/8-inch minimum dimension. Ventilation openings may be omitted on one side of a building. Ventilation openings may be omitted when continuously operated mechanical ventilation is provided at a rate of 1.0 cfm for each 50 square feet of crawl space floor area and ground surface is covered with an approved vapor barrier material. Sections R408.1 and R408.2.
- Drainage. Provide water drainage from the crawl space by means of crawl space and foundation drains sloped for gravity drainage and extending to a storm sewer, street gutter, road ditch or other drainage way or raise the finish grade in the crawl space to the level of finish grade outside. Section R408.5
- Removal of debris. The under-floor grade shall be cleaned of all vegetation and organic material. All wood forms used for placing concrete shall be removed before a building is occupied or used for any purpose. All construction materials shall be removed before a building is occupied or used for any purpose. Section R408.4



**TYP. MONOLITHIC FTG SLAB**  
1/2" = 1'-0"

**THICKEN FTG SLAB DTL**  
1/2" = 1'-0"

**RADON-RESISTANT CONSTRUCTION FOR SLAB FOUNDATION**



**Foundation Plan**  
SCALE: 1/4"=1'-0"



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*"Success is not measured by the position someone has reached in my life, but the obstacles he has overcome while trying to succeed"*  
Brooker T.  
Washington

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**Canopy Building Group, LLC**  
Lake Oswego, Oregon

410 Garage SF  
1708 SF  
2-16-2024  
Date:  
sK-1708-1  
Project Number



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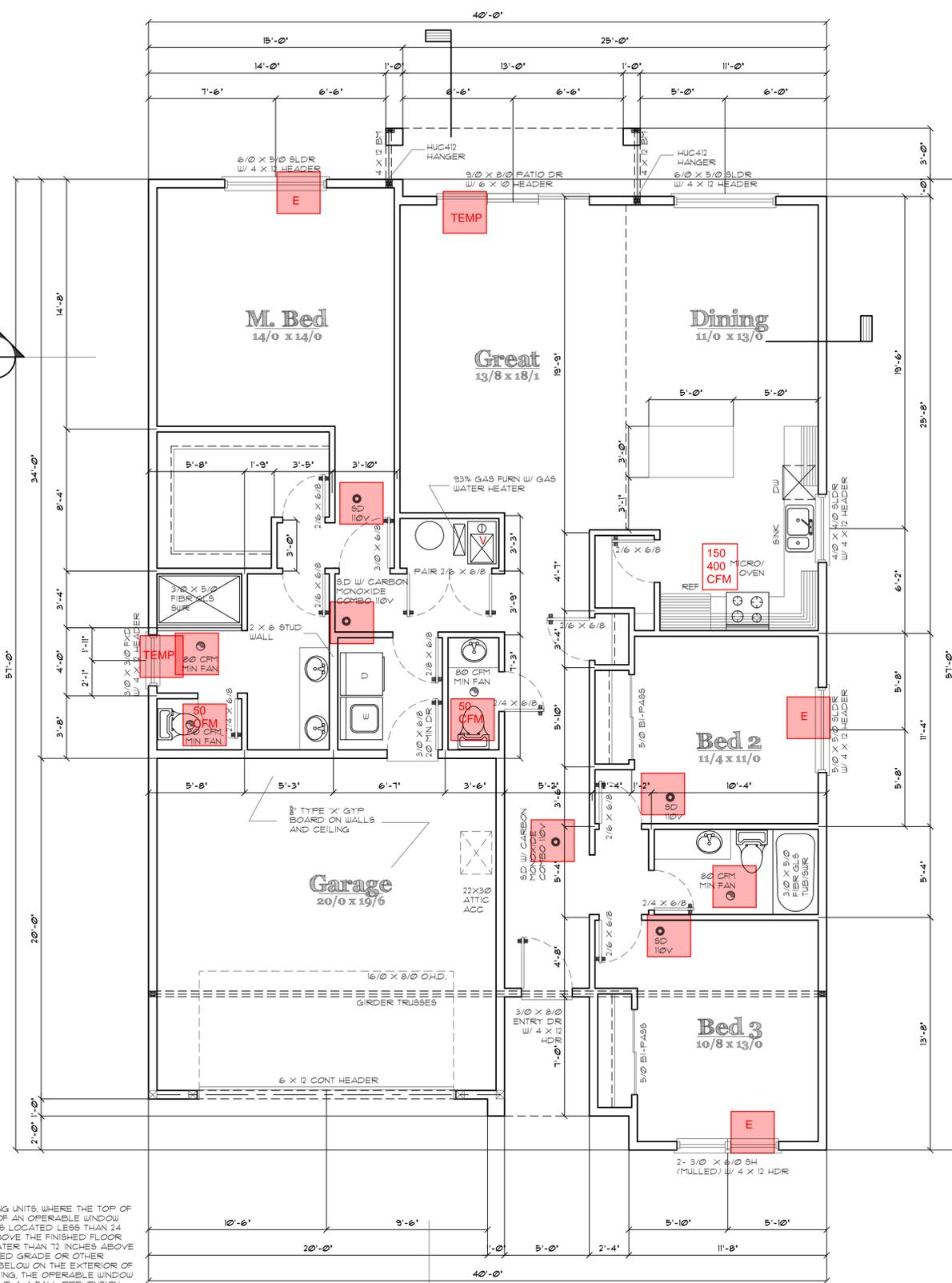
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Canopy Building Group, LLC Lake Oswego, Oregon



IN DWELLING UNITS, WHERE THE TOP OF THE SILL OF AN OPERABLE WINDOW OPENING IS LOCATED LESS THAN 24 INCHES ABOVE THE FINISHED FLOOR AND GREATER THAN 12 INCHES ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING, THE OPERABLE WINDOW SHALL HAVE A FALL PREVENTION DEVICE THAT COMPLY WITH ASTM F2090 OR OPERABLE WINDOWS THAT ARE PROVIDED WITH WINDO OPENING CONTROL DEVICES THAT COMPLY WITH SECTION R312.2.

NOTE: If duct work will be located unconditioned space, Duct must meet the minimum energy code, N1014, N1022 & N1023.

# Main Floor Plan

SCALE: 1/4"=1'-0"

### FLOOR PLAN GENERAL NOTES:

- 1) ALL EXTERIOR WALLS TO BE 2X6 STUDS @ 16" O.C.
- 2) PROVIDE SOLID STUDS UNDER ALL BRG POINTS
- 3) SMOKE DET. TO BE HARDWIRED TO HOUSE POWER
- 4) PROVIDE SMOKE DET AT EACH SLEEPING AREA
- 5) ■ INDICATES SOLID STUD UNDER BEARING POINTS
- 6) □ INDICATES 4X OR 6X UNDER BEARING POINTS

Safety glazing shall be provided at hazardous locations such as:

- Tub or shower enclosures where the glazing is less than 60" above any standing surface or the drain.
- Within 24" of a door and less than 60" above the floor.
- Individual panes greater than 9 sq. ft. and bottom edge less than 18" above the floor.
- Glazing adjacent to stairways, landings or ramps and within 36" horizontal from the walking surface when the exposed surface of the glass is located less than 60" above the walking surface.
- Glazing adjacent to stairways within 60" horizontally of the bottom tread of a stairway in any direction when the exposed surface of the glass is less than 60" above the nose of the tread.

**SMOKE & CARBON MONOXIDE ALARM**  
Smoke alarms with battery backup that are interconnected and connected to the house wiring are required in each sleeping room, outside of each separate sleeping area in the immediate vicinity of the bedrooms, and on each additional story including basements. Ionization alarms are not allowed near kitchens, bathrooms with tubs/showers, and HVAC supply registers. Photoelectric alarms are suitable for all locations

Carbon monoxide alarms shall be installed in each sleeping room or within 15 feet outside each sleeping room door. CO alarms may be hard-wired or battery-powered. CO alarms may be combination smoke/CO alarms when installed as required for smoke alarms.

**HVAC**  
Every dwelling unit shall be provided with heating facilities capable of maintaining a minimum room temperature of 68°F (20 °C) at a point 3 feet (914 mm) above the floor and 2 feet (610 mm) from exterior walls in all habitable rooms at the design temperature. The installation of one or more portable space heaters shall not be used to achieve compliance with this section.

DOORS	ROUGH OPENING W/ EXAMPLE
BI-FOLD	1" BIGGER IN WIDTH X 82 3/4" W. EXAMPLE: 5'0" X 6'8" (RO=62" X 82 3/4")
BI-PASS	SAME AS DOOR WIDTH X 82 3/4" W. EXAMPLE: 5'0" X 6'8" (RO=60" X 82 3/4")
POCKET DR.	2 X WIDTH + 2" X 84 1/2" H. EXAMPLE: 2'6" X 6'8" (RO=62" X 84 1/2")
DOUBLE DR.	2 3/4" BIGGER IN WIDTH X 6'-10 3/4" H. EXAMPLE: PAIR 2'6" X 6'8" (RO=62 3/4" X 82 3/4")
SINGLE DR.	2" BIGGER IN WIDTH X 6'-10 3/4" H. EXAMPLE: 2'6" X 6'8" (RO=32" X 82 3/4")

TABLE M105.4.3(1)  
CONTINUOUS WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM AIRFLOW RATE REQUIREMENTS

DWELLING UNIT FLOOR AREA (square feet)	NUMBER OF BEDROOMS				
	0 - 1	2 - 3	4 - 5	6 - 7	> 7
< 1,500	30	45	60	75	90
1,501 - 3,000	45	60	75	90	105
3,001 - 4,500	60	75	90	105	120
4,501 - 6,000	75	90	105	120	135
6,001 - 7,500	90	105	120	135	150
E 7,500	105	120	135	150	165

For 81: 1 square foot = 0.0929 m<sup>2</sup>; 1 cubic foot per minute = 0.0004719 m<sup>3</sup>/s.

TABLE M105.4.3(2)  
INTERMITTENT WHOLE-HOUSE MECHANICAL VENTILATION RATE FACTORS a, b

RUN-TIME PERCENTAGE IN EACH 4-HOUR SEGMENT	25%	33%	50%	66%	75%	100%
Factor a	4	3	2	1.5	1.3	1.0

a. For ventilation system run time values between those given, the factors are permitted to be determined by interpolation.  
b. Extrapolation beyond the table is prohibited.

**Lifebreath RNC 205 Residential Heat Recovery Ventilator (HRV)**  
Model RNC205

Top port design for flexible installations, with door port balancing and 3 select high speed settings. Featuring the high efficiency HEX core.

Warranty: Units carry a lifetime warranty on the HRV core and a 5 year replacement parts warranty.

- High Efficiency Hex Core
- Door Port Balancing & Adjustable Dampers
- Top Ported
- Excellent Low Temperature Performance.
- Energy Star: This product earned the ENERGY STAR® by meeting strict energy efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR® requirements only when used in Canada.

DOORS	ROUGH OPENING W/ EXAMPLE
BI-FOLD	1" BIGGER IN WIDTH X 82 3/4" W. EXAMPLE: 5'0" X 6'8" (RO=62" X 82 3/4")
BI-PASS	SAME AS DOOR WIDTH X 82 3/4" W. EXAMPLE: 5'0" X 6'8" (RO=60" X 82 3/4")
POCKET DR.	2 X WIDTH + 2" X 84 1/2" H. EXAMPLE: 2'6" X 6'8" (RO=62" X 84 1/2")
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410 Garage SF  
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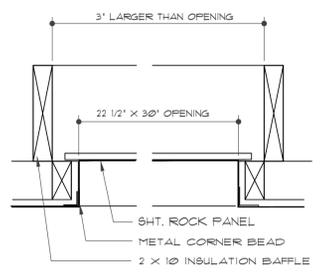
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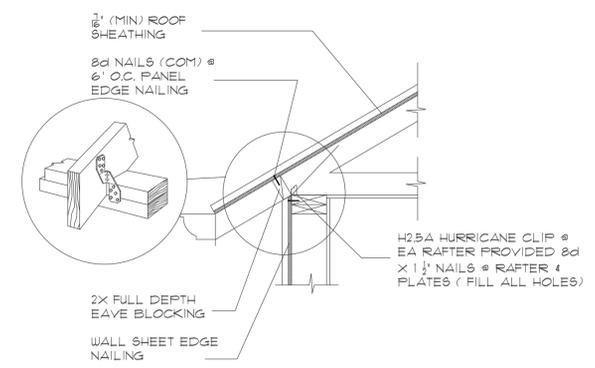
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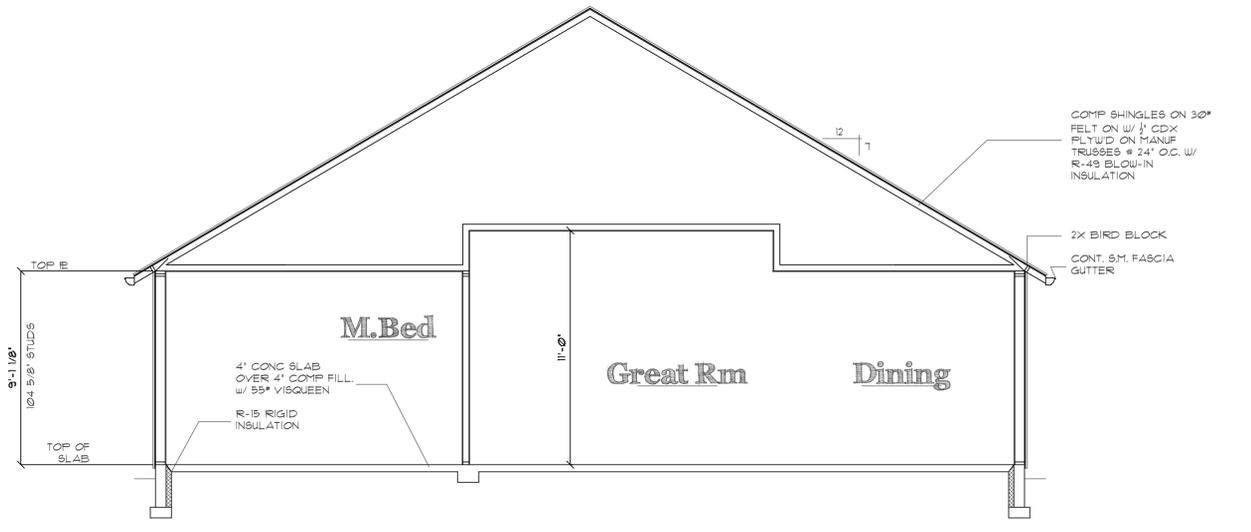


**ATTIC ACCESS HATCH**  
 SCALE: 1 1/2" = 1'-0"

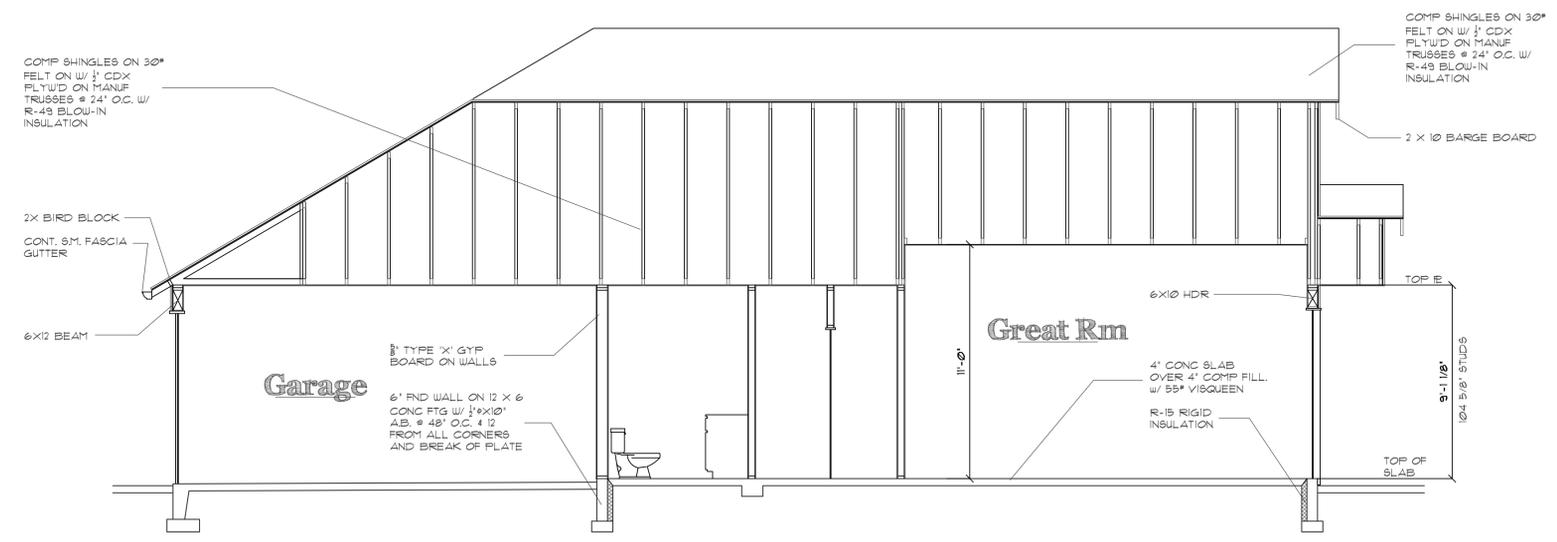
- ROOFING**
- Ventilation required.** Enclosed attics and enclosed rafter spaces formed where ceiling is applied to the underside of roof rafters shall have cross ventilation for each separate space by ventilated openings protected against the entrance of rain or snow. Ventilation openings shall be provided with corrosion-resistant wire mesh, with 1/8 inch minimum to 3/4 inch maximum openings. Section R806.1 (For unvented attic assemblies, see Section R806.4)
  - Minimum area.** The total net free ventilating area shall be not less than 1/150 of the space ventilated. The minimum net free ventilation area shall be 1/300 of the vented space provided one or more of the following conditions are met:
    - A Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.
    - Not less than 40 percent and not more than 50 percent of the required ventilating area is provided by ventilators located in the upper portion of the attic or rafter space. Upper ventilators shall be located not more than 3 feet (914 mm) below the ridge or highest point of the space, measured vertically, with the balance of the required ventilation provided by eave or cornice vents. Where the location of wall or roof framing members conflicts with the installation of upper ventilators, installation more than 3 feet (914 mm) below the ridge or highest point of the space shall be permitted.
    - Fasteners for roof covering shall be in accordance with Chapter 9 of the Oregon Residential Specialty Code, based on type of material used. In all cases, fasteners shall be long enough to penetrate into roof sheathing 3/4 inches or through the thickness of sheathing, whichever is less. Sections R905.2.6 and R905.3.6
    - Flashing shall be installed at junctions of chimneys and roofs, in roof valleys and around all roof openings. See Chapter 9 of the Oregon Residential Specialty Code for specific requirements.
    - Roof covering application.** Roof coverings shall be applied in accordance with the applicable provisions of this section and the manufacturer's installation instructions. Section R905.1 (A copy of code requirements for the kind of roofing material used shall be available on request.)



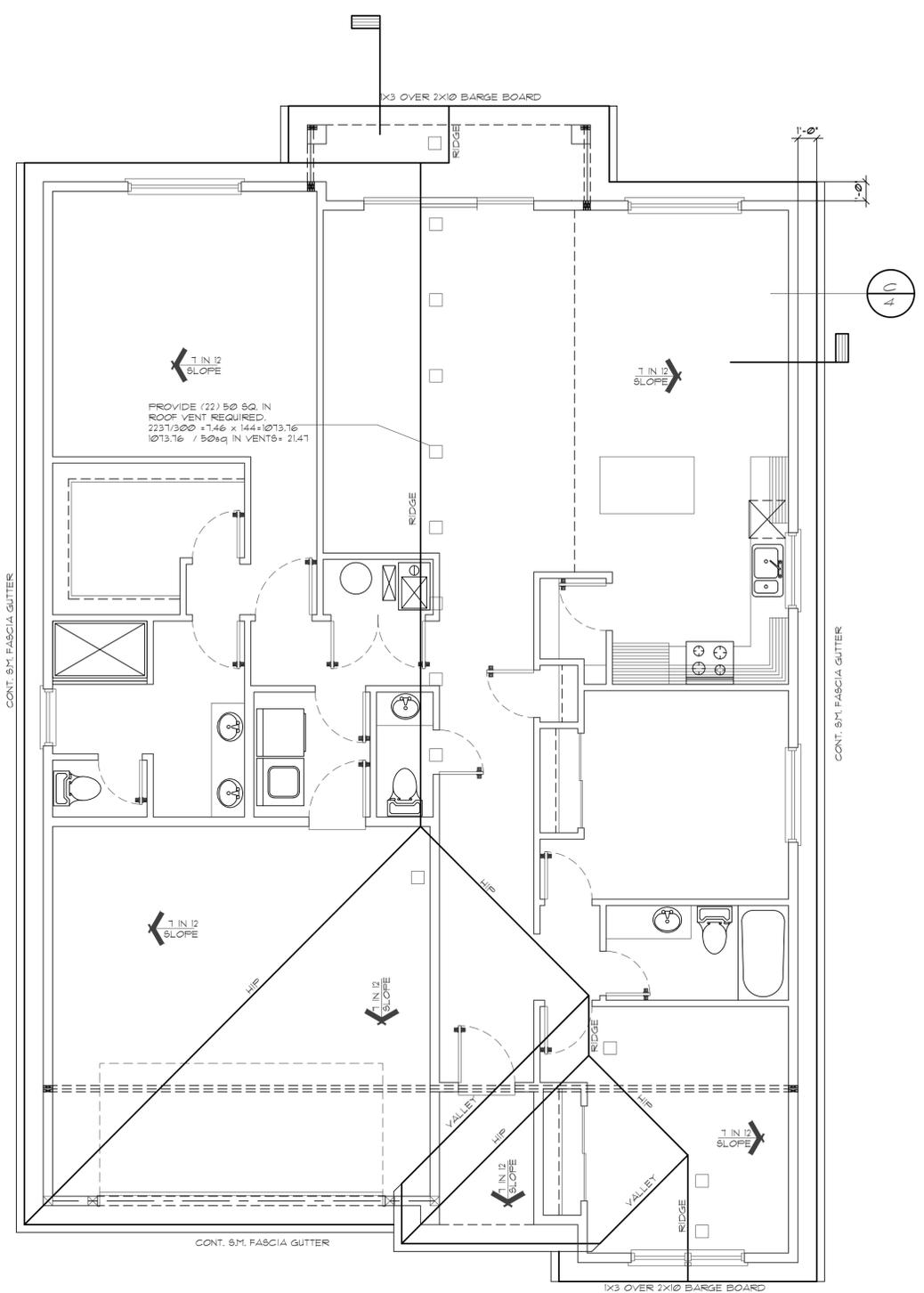
**TYPICAL EAVE BLOCKING DETAIL**  
 C 4



**Building Section**  
 SCALE: 1/4" = 1'-0"  
 B 4



**Building Section**  
 SCALE: 1/4" = 1'-0"  
 A 4

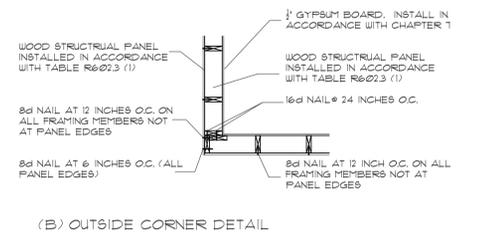
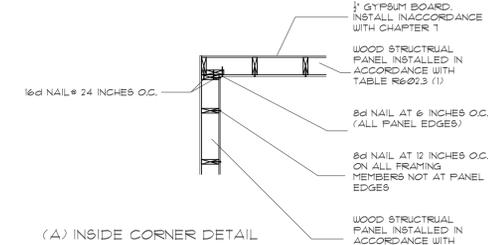
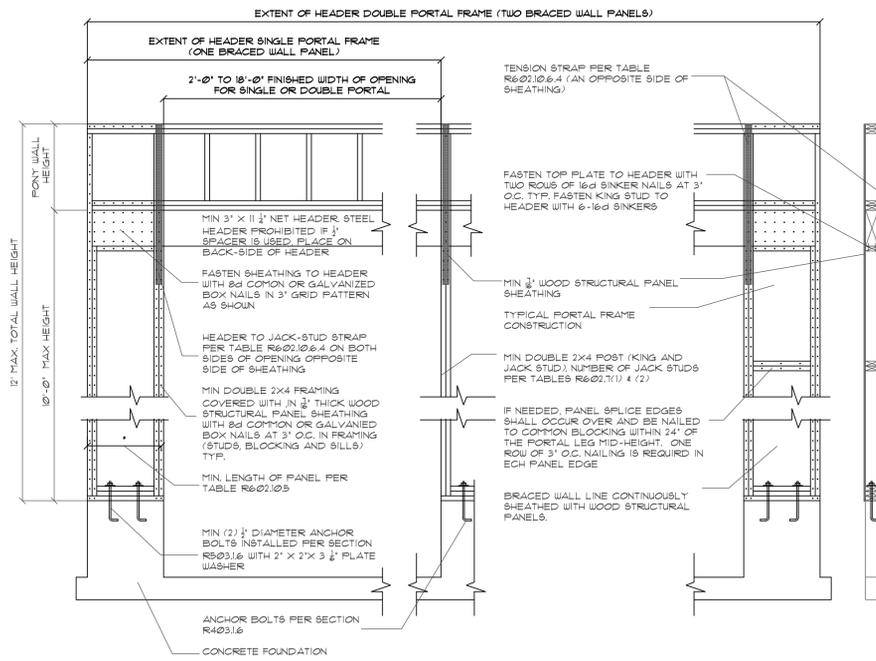


**Roof Plan**  
 SCALE: 1/4" = 1'-0"  
 D 4

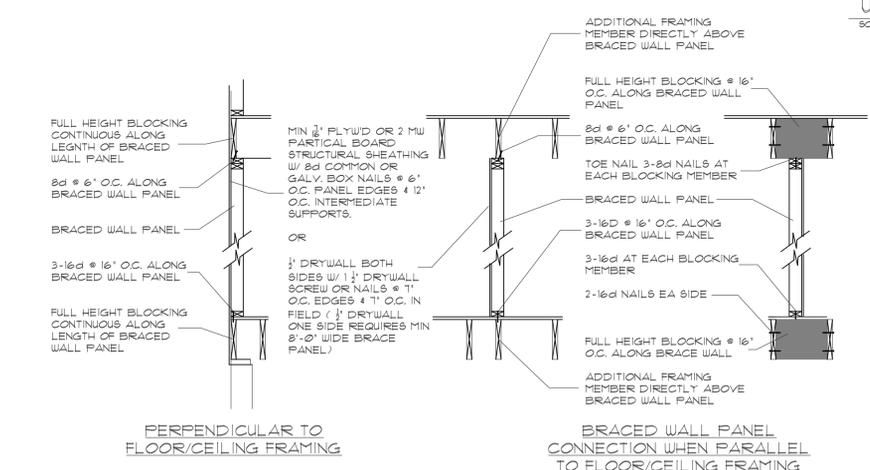
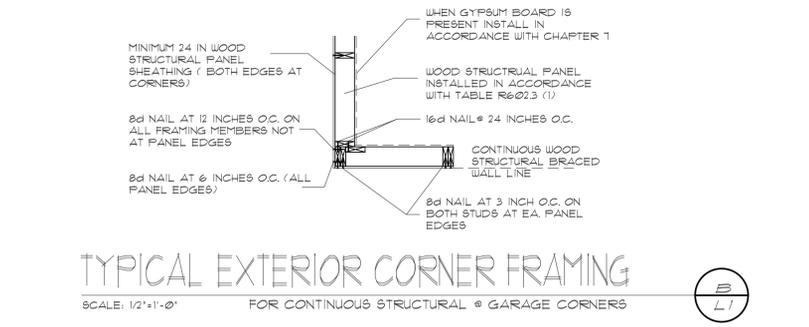
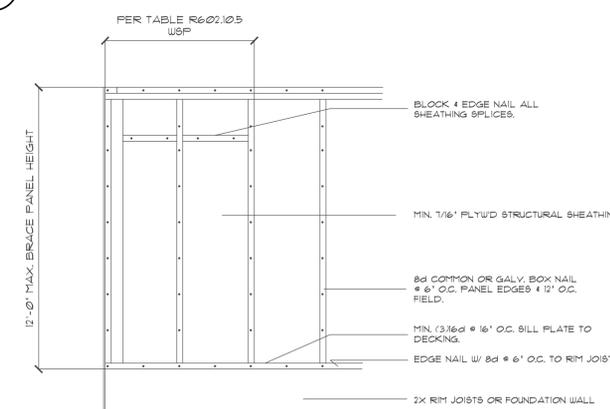
- ROOF PLAN GENERAL NOTES:**
- PROVIDED (22) 50" SQ IN ROOF VENTS PER CODE REQ'D EACH UNIT
  - ROOF SLOPE TO BE 1 IN 12
  - MANUFACTURER TO PROVIDE TRUSS LAYOUT AND ALL HANGERS, CLIPS, ETC.
  - VERIFIED PLAN FOR OVERHANG AND RAKE

410 Garage SF  
 1708 SF  
 2-16-2024  
 Date:  
 sK-1708-1  
 Project Number

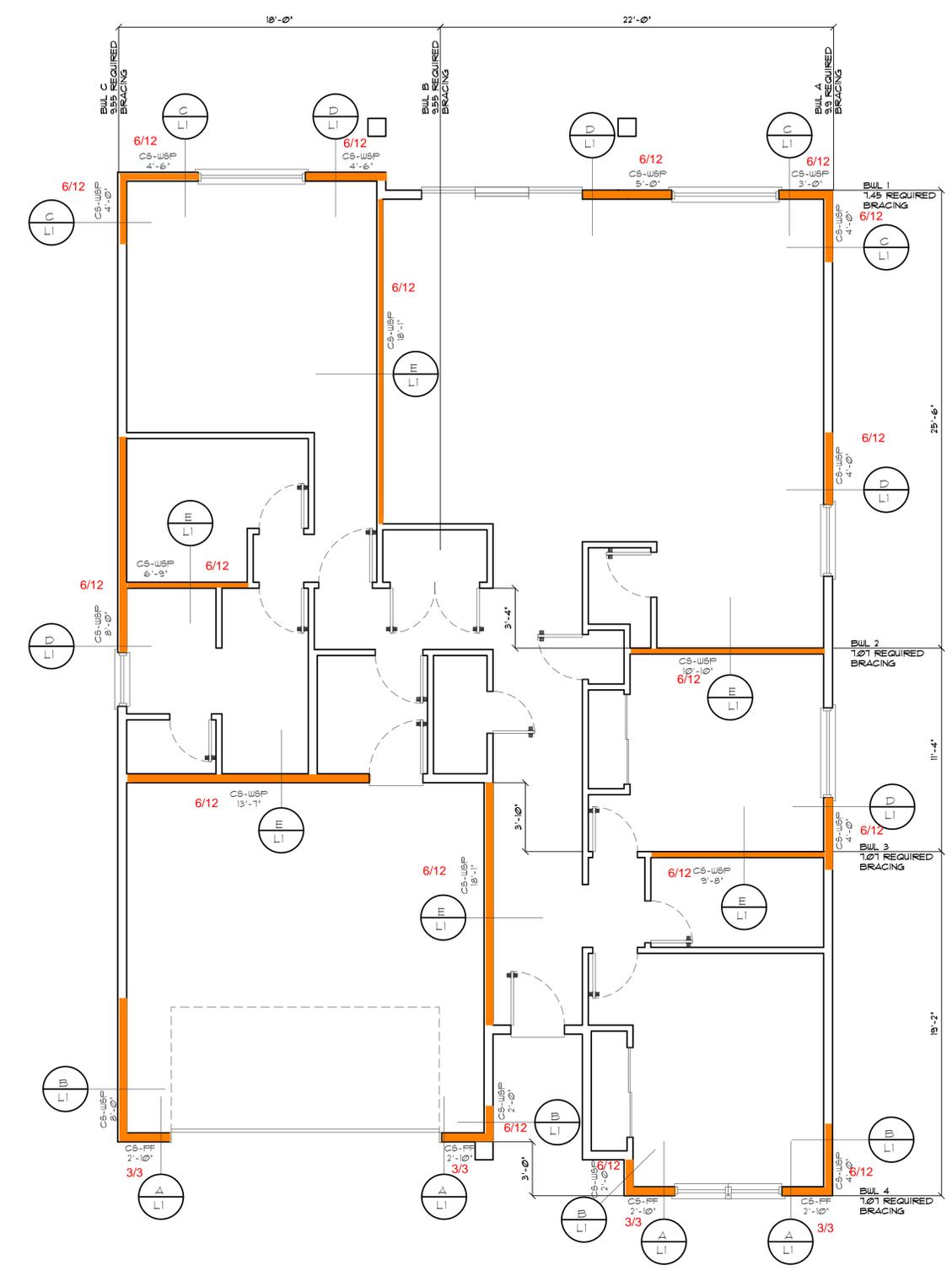
## WALL BRACE ALTERNATE METHOD CONTINUOUSLY SHEATHED WALLS



### TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS STRUCTURAL



### BWP CONN. WHEN PARALLEL TO FLOOR/CEILING FRAMING



P.O. Box 1571  
Hillsboro, Oregon 97123  
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"Success is not measured by the position someone has reached in my life, but the obstacles he has overcome while trying to succeed"  
-Brooker T. Washington

Written dimensions on these drawing shall have precedence over scaled dimensions. Contractor shall assume responsibility for all dimensions and conditions on the job. Samedy Kem, Designer must be notified and consented to any variation from dimensions set forth herein.

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**Canopy Building Group, LLC**  
Lake Oswego, Oregon

410 Garage SF  
1708 SF  
2-16-2024  
Date:  
sk-1708-1  
Project Number

**L1**  
Sheet Number of L1

## GENERAL NOTES

- ALL WORK IS TO COMPLY WITH THE 2021 ORSC CODE AND ANY APPLICABLE STATE, COUNTY OR LOCAL REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE TO CHECK THE PLANS AND TO NOTIFY THE DESIGNER OF ANY ERRORS OR OMISSIONS PRIOR TO THE START OF CONSTRUCTION.
- WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- DESIGN LOADS:
 

ROOF	30 PSF (LIVE LOAD)
FLOOR	40 PSF (LIVE LOAD)
STAIRS	150 PSF
GARAGE FLOOR	125 PSF (200# FT)
DECKS	60 PSF
- (IF YOUR LOCAL AREA REQUIRES DIFFERENT DESIGN LOADS, CONSULT WITH A LOCAL STRUCTURAL ENGINEER TO DETERMINE THE APPROPRIATE REVISIONS).
- PROVIDE INSULATION BARRIERS AT EAVE VENTS BETWEEN RAFTERS.
- THE EVENT OF CARBON MONOXIDE AND SMOKE DETECTORS SHALL BE POWERED BY INDIVIDUAL, CONNECTED TO HOUSE ELECTRIC SYSTEM. INTERCONNECT WITH EACH ONE SO THAT IF ANY ONE TRIPS, ALL WILL TRIP. THE PLATE LINE SHALL ALSO HAVE A BATTERY BACKUP AND BE LOCATED IN THE EVENT OF CONFLICT BETWEEN PERMIT CODES AND REGULATIONS AND REFERENCED STANDARDS OF THESE SPECIFICATIONS, THE MORE STRINGENT PROVISIONS SHALL GOVERN.
- STRUCTURAL DRAWINGS SHALL NOT BE ANCHORED TO STRUCTURE NOR SHALL THEY BE IN EXCESS OF DESIGN LOADINGS INDICATED ON DRAWINGS.
- BUILDER SHALL VERIFY ALL MATERIALS, DIMENSIONS, AND CONDITIONS SHOWN ON STRUCTURAL DRAWINGS OR NOTED IN STRUCTURAL SPECIFICATIONS, ANY VARIANCES WITHIN STRUCTURAL DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO OWNER IN WRITING BEFORE COMMENCEMENT OF ANY WORK EFFECTED BY SUCH VARIANCES.
- BUILDER SHALL RIGIDLY ADHERE TO ALL LAWS, CODES, AND ORDINANCES WHICH APPLY TO THIS WORK. HE SHALL NOTIFY AND RECEIVE CLARIFICATION FROM OWNER IN WRITING OF ANY VARIATIONS BETWEEN CONTRACT DOCUMENTS AND GOVERNING REGULATIONS.
- ALL MANUFACTURED MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PROVIDED APPROVED ICCBO RESEARCH RECOMMENDATIONS, WHERE SPECIFIC MANUFACTURED PRODUCTS ARE CALLED FOR. GENERIC EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE USED.
- NO VARIANCE BY A BUILDING OFFICIAL SHALL BE BINDING ON DESIGNER.
- BUILDER SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESS POOLS, CULVERTS, FOUNDATIONS, ETC. IF ANY SUCH ITEMS ARE FOUND, OWNER SHALL BE NOTIFIED IMMEDIATELY.
- CARBON MONOXIDE DETECTORS SHALL BE PROVIDED IN ANY HOME WITH A GAS APPLIANCE. ONE SHALL BE LOCATED WITHIN EACH BEDROOM OR WITHIN 10' OF EACH BEDROOM DOOR. BEDROOMS ON SEPARATE FLOORS REQUIRE SEPARATE DETECTORS.
- DISCHARGE COOKTOP RANGE VENT DUCTED TO OUTSIDE AIR WITH MIN 150 CFM INTERMITTENT RATED FAN.

## FOUNDATION NOTES

- FOOTINGS ARE TO BEAR ON UNDISTURBED LEVEL SOIL. DEVOID OF ANY ORGANIC MATERIAL AND STEPPED AS REQUIRED TO MAINTAIN THE REQUIRED DEPTH BELOW THE FINAL GRADE.
- SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF. ANY FILL UNDER GRADE SUPPORTED SLABS TO BE A MINIMUM OF 4" GRANULAR MATERIAL COMPACTED TO 95%.
- CONCRETE TO DEVELOP A MIN. OF 2500 PSI AT 28 DAYS WITH A MIN. OF 6 BAGS OF CEMENT PER YARD AND A MAXIMUM SLAB THICKNESS OF 4".
- CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25' (MAXIMUM) INTERVALS EA WAY.
- CONCRETE SIDEWALKS TO HAVE 3/4" TOOLED JOINTS AT 5' O.C. (MINIMUM).
- REINFORCING STEEL TO BE A-615 GRADE #6. WELDED WIRE MESH TO BE #4.
- EXCAVATE THE SITE TO PROVIDE A MINIMUM OF 18" CLEARANCE UNDER ALL GIRDER.
- COVER ENTIRE CRUILSPACE WITH 6 MIL BLACK 'VISQUEEN' AND EXTEND UP THE STEM WALL 12" (MIN).
- PROVIDE A MINIMUM OF 150 FT OF VENTILATION AREA FOR EACH 150 SQ FT OF CRUILSPACE AREA. VENTS SHALL HAVE 1/4" OPENINGS IN CORROSIIVE RESISTANT SCREEN.
- WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR PROTECTED WITH 32# ROLL ROOFING.
- BEAM POCKETS IN CONCRETE TO HAVE 1/2" AIRSPACE AT SIDES AND ENDS WITH A MINIMUM BEARING OF 3".
- PROVIDE CRUILSPACE DRAIN AS PER SEC. R409.1 OF ORSC.
- THE GRADE AULF FROM DRN WALLS SHALL FALL 6" MIN. WITHIN FIRST 10'.
- SLOPE FOR PERMANENT FILLS AND CUT SLOPES SHALL NOT EXCEED 2 UNITS HORIZ. TO 1 UNIT VERT.
- BACKFILL SHALL NOT BE PLACED UNTIL WALL HAS SUFFICIENT STRENGTH AND HAS BEEN ANCHORED TO FLOOR ABOVE ON WALLS W/ MORE THAN 4" UNBALANCED BACKFILL.
- BUILDER SHALL BE RESPONSIBLE FOR SUPPORT OF ALL TEMPORARY EMBANKMENTS AND EXCAVATIONS.
- FOOTINGS SHALL BE FOUNDED ON FIRM, UNDISTURBED, NATIVE, FREE DRAINING SOILS. CONDITIONS FOUND TO BE OTHERWISE SHALL BE REPORTED TO OWNER.
- ALL GROUND OVER WHICH FOOTINGS AND SLABS ON-GRADE ARE TO BE PLACED SHALL BE FREE OF EXPANSIVE OR COMPRESSIBLE DEBRIS AND ORGANIC MATERIAL.
- FOOTINGS AND SLABS ON-GRADE CONCRETE SHALL NOT BE PLACED ON MUDDY OR FROZEN GROUND. SUB-GRADE FOR SLABS ON-GRADE WHERE VAPOR BARRIER IS NOT REQUIRED SHALL BE DAMP AT TIME OF CONCRETE PLACEMENT.
- WOOD SOLE PLATES AT ALL EXTERIOR WALLS ON MONOLITHIC SLABS, AT ALL INTERIOR BRACE WALL PANELS ON MONOLITHIC SLABS AND AT ALL WOOD BILL FLATES SHALL BE ANCHORED TO THE FOUNDATION WITH MIN 1/2"x1/2" BOLTS AT 6' O.C. A #229x3x3/32" WASHER SHALL BE TIGHTENED ON EACH ANCHOR BOLT. INSTALL MIN (2) BOLTS AT THE MIDDLE THIRD POINTS OF EACH PLATE.

## TRUSS NOTE

- SUBMIT TRUSS DESIGN FOR ENGINEERING PRIOR TO FABRICATION AT PERMIT LOCATION OR GREATER. TRUSSES W/ TRUSS COMPANY PAPER TO FORMING FOUNDATION WALLS AS TO PROVIDE FOR ADDITIONAL LOADING FROM VARYING TRUSS DESIGN.
- VERIFY ALL TRUSS SPANS & CONFIGURATIONS ON JOB SITE PRIOR TO FABRICATION.

## FRAMING NOTES

- ALL EXTERIOR WALL AND BEARING WALL OPENINGS TO HAVE DP-2 AXI8 HEADERS UNLESS OTHERWISE INDICATED. JOISTS THAT ARE ATTACHED TO FLUSH BEAMS ARE TO BE HUNG WITH SIMPSON LWF OR EQUIV.
- DOUBLE JOISTS THAT ARE ATTACHED TO FLUSH BM'S ARE TO BE HUNG WITH SIMPSON LWF TYPE OR EQUIV.
- PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS OVER.
- PROVIDE FIREBLOCKING, DRAFTSTOPS & FIRESTOPS AS PER THE ORSC SEC R602.9
- LUMBER SPECIES:
 

POSTS, BEAMS, HEADERS, JOISTS AND RAFTERS	NO2 DOUG FIR
B. SILLS, PLATES, BLOCKING BRIDGING, ETC.	NO1 DOUG FIR
C. STUDS	STUD GRADE D.F.
D. POST AND BEAM DECKING	UTILITY GRADE D.F.
E. FLYWOOD SHEATHING	3/4" CDX PLY, 32'6"-10'40" DRY' ADH.
- NOTCHES IN SOLID LUMBER JOISTS, RAFTERS, AND BEAMS SHALL NOT EXCEED ONE-SIXTH OF THE DEPTH OF THE MEMBER. SHALL NOT BE LONGER THAN ONE-THIRD OF THE DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN. NOTCHES AT THE ENDS OF THE MEMBER SHALL NOT EXCEED ONE-FOURTH THE DEPTH OF THE MEMBER, THE TENSION SIDE OF MEMBERS 4" (102mm) OR GREATER IN NOMINAL THICKNESS SHALL NOT BE NOTCHED EXCEPT AT ENDS OF THE MEMBERS. THE NUMBER OF HOLES BORED OR CUT INTO MEMBERS SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE MEMBER. HOLES SHALL NOT BE CLOSER THAN 1" TO THE TOP OR BOTTOM OF THE MEMBER, OR TO ANY OTHER HOLE LOCATED IN THE MEMBER. WHERE THE MEMBER IS ALSO NOTCHED, THE HOLE SHALL NOT BE CLOSER THAN 2" (51mm) TO THE NOTCH.
- STUDS IN AN EXTERIOR WALL OR LOAD-BEARING PARTITIONS SHALL BE PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25% OF ITS WIDTH. STUDS IN NON-LOAD-BEARING PARTITIONS SHALL BE PERMITTED TO BE NOTCHED TO A DEPTH NOT TO EXCEED 40% OF A SINGLE STUD WIDTH. STUDS SHALL BE PERMITTED TO BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NO GREATER THAN 40% OF THE STUD WIDTH. THE EDGE OF THE HOLE IS NO CLOSER THAN 5/8" (15.8mm) TO THE EDGE OF THE STUD, AND THE HOLE IS NOT LOCATED IN THE SAME SECTION AS A CUT OR NOTCH.
- INSTALLING ALL HOLDING MEMBERS WITH CROWN UP.
- ALL MEMBERS IN BEARING SHALL BE ACCURATELY CUT AND ALIGNED SO THAT FULL BEARING IS PROVIDED WITHOUT USE OF SHIMS OR SPACERS. SHALL HAVE FULL BLOCKING OR SUPPORT UNDER.
- ALL JOISTS SHALL HAVE A MINIMUM OF 2" BEARING AT SUPPORTS. LAPPING JOISTS SHALL HAVE 6" LAPS CENTERED OVER INTERIOR SUPPORTS.
- LEDGERS AND STUD WALL FOUNDATION BILL FLATES SHALL BE BOLTED TO CONCRETE W/ ANCHOR BOLTS OF SIZE AND MINIMUM SPACING AS SHOWN ON DRAWINGS.
- AT LEAST TWO BOLTS PROVIDED FOR EACH PIECE W/ ONE BOLT WITHIN 1/2' OF EACH END.
- ALL FLYWOOD WALL SHEATHING SHALL BE APPLIED AS FOLLOWS: CENTER VERTICAL JOIST COVER STUDS AND CENTER HORIZONTAL JOINT OVER 2" BLOCKING OR PLATE. NAIL TOP OF PANELS TO DOUBLE TOP PLATE, AND NAIL BOTTOM OF PANELS TO ANCHORED BILL FLATE. JOINTS GYPSUM BOARD SO THAT END JOINTS OF ADJACENT COURSE DO NOT OCCUR AT THE SAME STUD.

## SECTION N107 LIGHTING

ALL PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN HIGH EFFICACY LAMPS. SCREW IN CONTACT FLUORESCENT AND LED LAMPS COMPLY WITH THIS REQUIREMENT. EXCEPTION: TWO PERMANENTLY INSTALLED LIGHTING FIXTURES ARE NOT REQUIRED TO HAVE HIGH EFFICACY LAMPS.

ALL EXTERIOR LIGHTING FIXTURES AFFIXED TO THE EXTERIOR OF THE BUILDING SHALL CONTAIN HIGH EFFICACY LAMPS. EXCEPTION: TWO PERMANENTLY INSTALLED LIGHTING FIXTURES ARE NOT REQUIRED TO HAVE HIGH EFFICACY LAMPS.

### N107.1.4 SOLAR INTERCONNECTION PATHWAY

A SQUARE METAL JUNCTION BOX NOT LESS THAN 4 INCHES WIDE AT THE MAIN ELECTRICAL BOX COVER SHALL BE PROVIDED WITHIN 24 INCHES HORIZONTALLY OR VERTICALLY OF THE MAIN ELECTRICAL PANEL. A MINIMUM 3/4 INCH NONFLEXIBLE METAL RECAUITY SHALL EXTEND FROM THE JUNCTION BOX TO A CAPPED ROOF TERMINATION OR TO AN ACCESSIBLE LOCATION IN THE ATTIC WITH A VERTICAL CLEARANCE NOT LESS THAN 36 INCHES. WHERE RECAUITY TERMINATES IN THE ATTIC, THE TERMINATION SHALL BE LOCATED NOT LESS THAN 6 INCHES ABOVE THE INSULATION. THE END OF THE RECAUITY SHALL BE MARKED AS 'RESERVED FOR SOLAR'.

## FLOOR PLAN NOTES

- EACH BEDROOM TO HAVE A MINIMUM WINDOW OPENING OF 51 SQ FT WITH A MIN WIDTH OF 20" AND A MIN HEIGHT OF 24" AND A SILL LESS THAN 44" OFF THE FLOOR.
- ALL WINDOWS WITHIN 10' OF THE FLOOR AND WITHIN 24" OF ANY DOOR ARE TO HAVE TEMPERED GLAZING. SEE SECTION R608.4 IN ORSC FOR ADDITIONAL INFO.
- SKYLITES ARE TO BE GLAZED WITH TEMPERED GLASS ON OUTSIDE AND LAMINATED GLASS ON INSIDE (UNLESS FLEXIGLASS). GLASS TO HAVE MAXIMUM CLEAR SPAN OF 25". SKYLITE FRAME IS TO BE ATTACHED TO A 2 X CURB WITH MINIMUM OF 4" ABOVE ROOF PLANE.
- ALL TUB OR SHOWER ENCLOSURES ARE TO BE GLAZED WITH SAFETY GLAZING.
- ALL EXTERIOR WINDOWS ARE TO BE DOUBLE GLAZED AND ALL EXTERIOR DOORS ARE TO BE SOLID CORE WITH WEATHERSTRIPPING PROVIDED TO DEGRADE LOCKING ON ALL EXTERIOR DOORS AND LOCKING DEVICES ON ALL DOORS OR WINDOWS WITHIN 10' (VERTICAL) OF GRADE. PROVIDE FREE HOLE # 54" - 66" ABOVE FLOOR ON EXTERIOR DOORS.
- PROVIDE COMBUSTION AIR VENTS (W/ SCREEN AND BLACK DAMPER) FOR FIREPLACES, WOOD STOVES AND ANY APPLIANCES WITH AN OPEN FLAME.
- BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED TO THE OUTSIDE WITH A MINIMUM OF A 50 CFM FAN INTERMITTENT AND CONTROLLED BY A PRESSURE SWITCH OR SIMILAR MEANS OF CONTROL. RANGE HOODS ARE ALSO TO BE VENTED TO OUTSIDE @ 150 CFM INTERMITTENT.
- Advanced frame construction. See section N104.6
- Heated slab interior applies to concrete slab floors (both on and below grade) that incorporate a radiant heating system within the slab. Insulation shall be installed underneath the entire slab.
- Sliding glass doors shall comply with window performance requirements. Windows exempt from testing in accordance with Sections NF112, Item 3 shall comply with window performance requirements if constructed with thermal break aluminum, wood, or vinyl, or fiberglass frames and double pane glazing with low-emissivity coatings of #20 or less. Buildings designed to incorporate passive solar elements may include glazing with a U-factor greater than #25 by using Table N104.1(1) to demonstrate equivalence to building envelope requirements.
- A maximum of 28 square feet of exterior door area per dwelling unit can have a U-factor of .34 or less.
- Glazing that is either double pane with low-e coating on one surface, or triple pane shall be deemed to comply with this .30 requirement.
- Minimum 24 inch horizontal or vertical below grade

## INSULATION SPECIFICATIONS

## ELECTRICAL REQUIREMENTS

**LIGHTING REQUIREMENTS:**  
 AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY BEDROOM AND IN BATHROOMS, HALLWAYS, STAIRS, ATTACHED GARAGES, DETACHED GARAGES PROVIDED WITH ELECTRICAL POWER AND AT THE EXTERIOR SIDE OF EGRESS DOORS.  
**STAIRWAY LIGHTING CONTROLS:**  
 ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS OF ILLUMINATION TO THE STAIR, INCLUDING THE LANDINGS AND TREADS, TO BE CONTROLLED BY A SWITCH AT EACH FLOOR LEVEL. INTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF EACH LANDING AT THE TOP AND BOTTOM OF THE STAIR. EXTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP LANDING OF THE STAIR. EXCEPTION: WHERE THE DIFFERENCE BETWEEN FLOOR LEVELS REQUIRES LESS THAN 6 STAIR RISES.  
**FIXTURES IN GLAZED GLAZETS:**  
 SURFACE MOUNTED FLUORESCENT FIXTURES SHALL BE INSTALLED ON THE WALL ABOVE THE DOOR OR ON THE CEILING, PROVIDED THERE IS A MINIMUM CLEARANCE OF 18" BETWEEN THE FIXTURE AND THE NEAREST POINT OF A STORAGE SPACE.  
**WET OR DAMP LOCATIONS:**  
 FIXTURES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED 60 INCHES ABOVE THE CEILING AND ACCUMULATE IN WIRING COMPARTMENTS, LAMP HOLDERS OR OTHER ELECTRICAL PARTS. ALL FIXTURES INSTALLED IN WET LOCATIONS SHALL BE MARKED 'SUITABLE FOR WET LOCATIONS'. ALL FIXTURES INSTALLED IN DAMP LOCATIONS SHALL BE MARKED 'SUITABLE FOR WET LOCATIONS' OR 'SUITABLE FOR DAMP LOCATIONS'.  
**LIGHT SWITCH ACCESS:**  
 ALL SWITCHES SHALL BE LOCATED TO ALLOW OPERATION FROM A READILY ACCESSIBLE LOCATION.  
**RECEPTACLE OUTLET REQUIREMENTS:**  
 IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, DEN, BEDROOM, OR SIMILAR ROOM OR AREA OF DUELLING UNITS, RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET MEASURED HORIZONTALLY FROM AN OUTLET IN THAT SPACE, INCLUDING ANY WALL SPACE THAT IS 2 FEET OR MORE IN WIDTH. KITCHENS:  
 RECEPTACLE OUTLETS WITH GFI PROTECTION SHALL BE INSTALLED EVERY 24' ON ALL COUNTER SPACES THAT MEASURE 12" OR WIDER.  
**BATHROOMS:**  
 AT LEAST ONE WALL RECEPTACLE OUTLET, WITH GFI PROTECTION, SHALL BE INSTALLED IN BATHROOMS ADJACENT TO EACH BATH LOCATION.  
**OUTDOORS:**  
 AT LEAST ONE RECEPTACLE OUTLET, WITH GFI PROTECTION, SHALL BE INSTALLED OUTDOORS AT THE FRONT AND BACK OF EACH DWELLING UNIT HAVING DIRECT ACCESS TO GRADE.  
**HALLWAYS:**  
 RECEPTACLE OUTLETS OF 10 FEET OR MORE IN LENGTH SHALL HAVE AT LEAST ONE RECEPTACLE OUTLET.  
**HVAC OUTLET:**  
 A CONVENIENCE RECEPTACLE OUTLET SHALL BE INSTALLED FOR THE SERVICING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT LOCATED IN ATTICS AND CRAWL SPACES.  
**WET LOCATIONS:**  
 RECEPTACLES INSTALLED IN A WET LOCATION SHALL BE IN A WEATHER PROOF ENCLOSURE. THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN THE ATTACHMENT PLUG CAP IS INSERTED.

\*ADDITIONAL INFORMATION CAN BE FOUND IN THE OREGON RESIDENTIAL SPECIALTY CODE BOOK IN SECTIONS:

**HIGH-EFFICIENCY INTERIOR LIGHTING SYSTEM:**  
 ALL PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN HIGH EFFICACY LAMPS. SCREW IN CONTACT FLUORESCENT AND LED LAMPS COMPLY WITH THIS REQUIREMENT. (EXCEPTION: TWO PERMANENTLY INSTALLED LIGHTING FIXTURES ARE NOT REQUIRED TO HAVE HIGH EFFICACY LAMPS).

**HIGH-EFFICIENCY EXTERIOR LIGHTING SYSTEM:**  
 ALL EXTERIOR LIGHTING FIXTURES AFFIXED TO THE EXTERIOR OF THE BUILDING SHALL CONTAIN HIGH EFFICACY LAMPS. (EXCEPTION: TWO PERMANENTLY INSTALLED LIGHTING FIXTURES ARE NOT TO HAVE HIGH EFFICACY LAMPS).

### TABLE N101.1(1) DESCRIPTIVE ENVELOPE REQUIREMENTS

BUILDING COMPONENT	MIN. REQUIRED VALUE
WALL INSULATION - ABOVE GRADE	R-21 INTERMEDIATE c
WALL INSULATION - BELOW GRADE *	R-15 c, R/21
FLAT CEILING <sup>1</sup>	R-49
VAULTED CEILING <sup>2</sup>	R-30 RAFTER OR R-30A GJ 5C180R TRUS
UNDERFLOORS	R-30
SLAB EDGE PERIMETER *	R-15
HEATED SLAB INTERIOR <sup>1</sup>	R-10
WINDOWS <sup>1</sup>	U-0.21
SKYLIGHTS	U-0.50
EXTERIOR DOORS <sup>1</sup>	U-0.20
EXTERIOR DR <sup>3</sup> W/ >25 SQ. FT. GLAZING	U-0.40

FOR S1: 1 inch = 25.4mm, 1 sq. ft. = 0.929 m<sup>2</sup>, 1 degree = 0.0175 rad, n = not applicable

- As allowed in Section N104.4, thermal performance of a component may be adjusted provided that overall heat loss does not exceed the total resulting from conformance to the required U-value standards. Calculations to document equivalent heat loss shall be performed using the procedure and approved U-values contained in Table N104.1(1).
- R-values used in this table are nominal for the insulation only in standard wood framed construction and not for the entire assembly.
- Wall insulation requirements apply to all exterior wood framed, concrete or masonry walls that are above grade. This includes cripple walls and rim joist areas. Nominal compliance with R-21 insulation and Intermediate Framing (N104.5.2) with insulation heaters.
- Below-grade wood, concrete or masonry walls include all walls that are below grade and do not include those portions of such walls that extend more than 24 inches above grade. R-21 for insulation in framed cavity; R-15 continuous insulation.
- Insulation levels for ceilings that have limited attic/crawlspace depth such as dormers, bay windows or similar features totaling not more than 150 square feet in area may be reduced to not less than R-21 when reduced, the cavity shall be filled (except for equipment spaces) R-49 insulation installed to minimum 6-inch depth at top plate exterior of structure to achieve U-factor g. Vaulted ceiling surface area exceeding 50 percent of the total heated space floor area shall have a U-factor no greater than U-0.206 (equivalent to R-38 rafter or scissor truss with R-38 advanced framing).

- Advanced frame construction. See section N104.6
- Heated slab interior applies to concrete slab floors (both on and below grade) that incorporate a radiant heating system within the slab. Insulation shall be installed underneath the entire slab.
- Sliding glass doors shall comply with window performance requirements. Windows exempt from testing in accordance with Sections NF112, Item 3 shall comply with window performance requirements if constructed with thermal break aluminum, wood, or vinyl, or fiberglass frames and double pane glazing with low-emissivity coatings of #20 or less. Buildings designed to incorporate passive solar elements may include glazing with a U-factor greater than #25 by using Table N104.1(1) to demonstrate equivalence to building envelope requirements.
- A maximum of 28 square feet of exterior door area per dwelling unit can have a U-factor of .34 or less.
- Glazing that is either double pane with low-e coating on one surface, or triple pane shall be deemed to comply with this .30 requirement.
- Minimum 24 inch horizontal or vertical below grade

## TABLE N101.1(2) ADDITIONAL ZONE MEASURES

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NO. & TYPE OF FASTENER <sup>4,5,6</sup>	SPACING AND LOCATION
1	HIGH EFFICIENCY HVAC SYSTEM: <sup>a</sup> (a) GAS FIRED FURNACE OR BOILER AFUE 94%, OR (b) AIR SOURCED HEAT PUMP HSFF 10/4.0 SEER COOLING, OR (c) GROUND SOURCED HEAT PUMP COP 3.5 OR ENERGY STAR RATED		
2	HIGH EFFICIENCY WATER HEATING SYSTEM: a. NATURAL GAS / PROPANE WATER HEATER WITH UEF 0.90 OR b. ELECTRIC HEAT PUMP WATER HEATER WITH MINIMUM 2.0 COP OR c. NATURAL GAS/PROPANE TANKLESS/INSTANTANEOUS HEATER WITH MIN. 0.850 UEF AND DRAIN WATER HEAT RECOVERY UNIT INSTALLED ON MIN OF ONE SHOWER/TUB-SHOWER.		
3	WALL INSULATION UPGRADE: EXTERIOR WALLS = U-0.245/R-21 CONVENTIONAL FRAMING WITH R-5.0 CONTINUOUS INSULATION		
4	ADVANCED ENVELOPE: WINDOW = U-0.21 (AREA WEIGHTED AVERAGE) AND FLAT CEILING <sup>9</sup> = U-0.21/R-60 AND FRAMED FLOOR <sup>10</sup> = U-0.21/R-38 OR SLAB EDGE INSULATION TO F-0.48 OR LESS (R-10 FOR 48" R-15 FOR 36" OR R-5 FULLY INSULATED SLAB)		
5	DUCTLESS HEAT PUMP: FOR DUELLING UNITS WITH ALL ELECTRIC HEAT PROVIDE: DUCTLESS HEAT PUMP OF MIN. HSFF 10 IN PRIMARY ZONE ELECTRIC HEAT SOURCES AND PROGRAMMABLE THERMOSTAT FOR ALL HEATERS IN BEDROOMS		
6	HIGH EFFICIENCY THERMAL ENVELOPE U <sub>EA</sub> <sup>c</sup> PROPOSED UA IS 8% LOWER THAN THE CODE UA		
1	GLAZING AREA: GLAZING AREA, MEASURED AS THE TOTAL FRAMED OPENINGS IS LESS THAN 12 PERCENT OF THE CONDITIONED FLOOR AREA		
2	AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION: ACHIEVE A MAXIMUM OF 3.0 ACH50 WHOLE HOUSE AIR LEAKAGE WHEN THIRD PARTY TESTED AND PROVIDE A WHOLE-HOUSE VENTILATION SYSTEM INCLUDING HEAT RECOVERY WITH A MIN SENSIBLE HEAT RECOVERY OF NOT LESS THAN 66 PERCENT		

FOR S1: 1 SQUARE FOOT = 0.093 M<sup>2</sup>, 1 WATT PER SQUARE FOOT = 108 W/M<sup>2</sup>

- Appliances located within the building thermal envelope shall have sealed combustion air installed. Exhaust air shall be ducted directly from the outdoors.
- The maximum vaulted ceiling surface area shall not be greater than 50 percent of the total heated space floor area unless vaulted area has a U-factor greater than U-0.206.
- In accordance with table N104.1(1), the Proposed UA total of the Proposed Alternative Design shall be a minimum of 8 percent less than the code UA total of the Standard Base Case.

### TABLE 602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

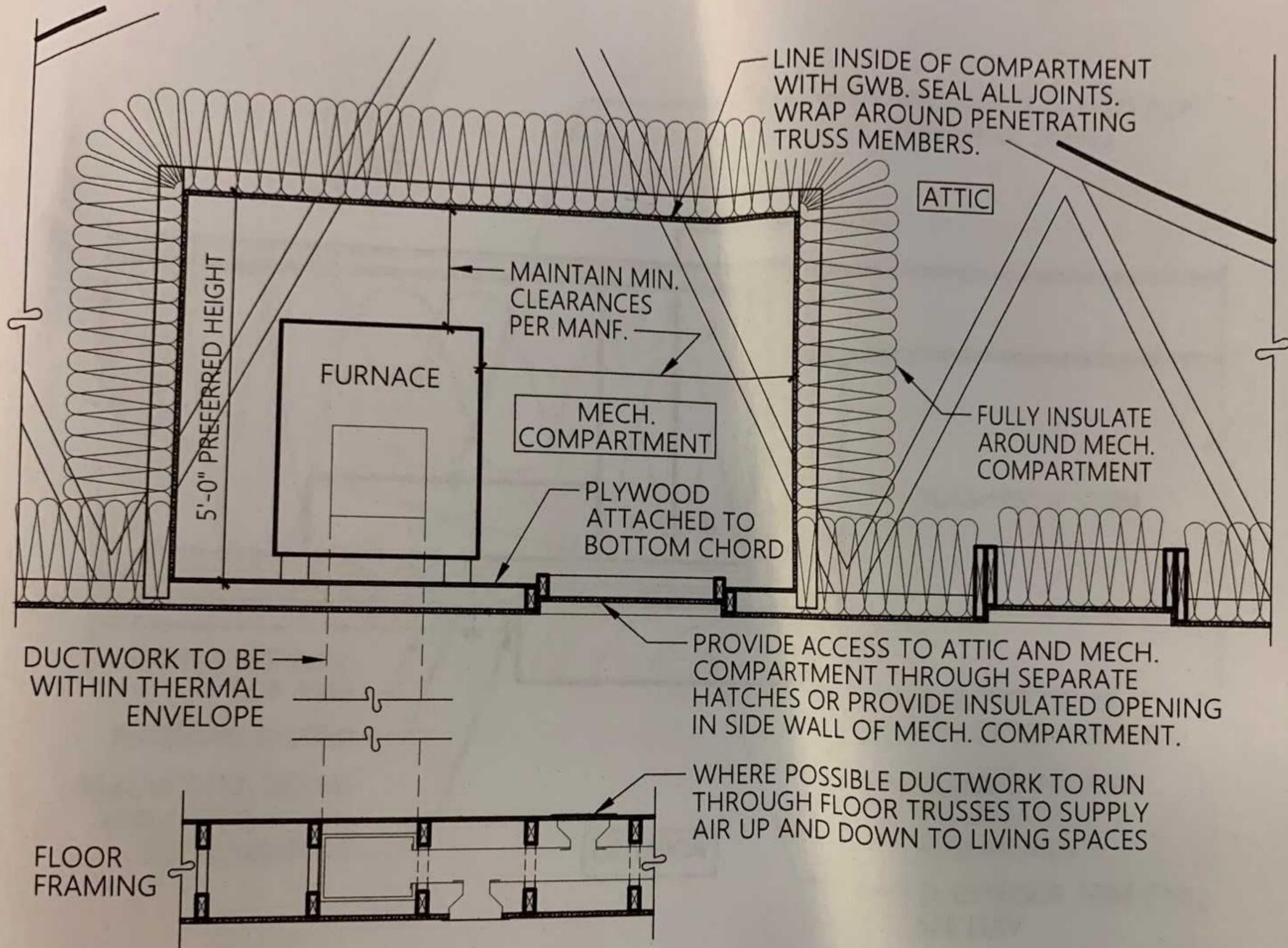
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NO. & TYPE OF FASTENER <sup>4,5,6</sup>	SPACING AND LOCATION
Floor			
1	Joist to sill, top plate or girder	4-Bd box (2 1/2"x0.131") or 3-Bd common (2 1/2"x0.131") or 3-1/2" x 0.131" nails	Toe nail
E31-404	BOLTS	8d box (2 1/2"x0.131")	4' o.c. toe nail
22	Rim joist, band joist or blocking to sill or top plate (roof applications also)	8d common (2 1/2"x0.131") or 8d box (2"x0.128") or 3"x0.131" nails	6' o.c. toe nail
23	1'x6' subfloor or less to each joist	3-Bd box (2 1/2"x0.131") or 2-Bd common (2 1/2"x0.131") or 3-1/2" x 0.131" nails	Face nail
24	2' subfloor to joist or girder	3-1/2" x 0.131" nails or 2-1/2" x 0.162"	Blind and face nail
25	2' planks (plank and beam - floor and roof)	3-1/2" x 0.131" nails or 2-1/2" x 0.162"	At each bearing, face nail
26	Band or rim to joist	4-1/2" x 0.131" nails or 4-3"x1/4" gal. staples, 1/16" crowns	End nail
27	Built-up girders and beams, 2 inch lumber layers	20d common (4"x0.192")	Nail each layer as follows: 32' o.c. at top and bottom, staggered
		10d box (3"x0.128") or 3-3"x0.131" nails	24' o.c. face nail at top and bottom staggered on opposite sides
		And: 2-20d common (4"x0.192") or 3-10d box (3"x0.128") or 3-3"x0.131" nails	Face nail at ends and at each splice
28	Ledger strip supporting joists or rafters	4-1/2" x 0.131" nails or 3-1/2" x 0.162" or 4-1/2" x 0.131" nails or 3-3"x0.131" nails	At each joist or rafter, face nail
29	Bridging to joist	2-1/2" x 0.128" or 2-Bd common (2 1/2"x0.131") or 2-3"x0.131" nails	Each end, toe nail

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NO. & TYPE OF FASTENER <sup>4,5,6</sup>	SPACING OF FASTENERS (inches) <sup>7</sup>	
Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing. (see table R602.3(3) for wood structural panel exterior wall sheathing to wall framing)				
30	3/8" - 1/2"	6d common (2"x0.131") nail (subfloor, wall) or 8d common (2 1/2"x0.131") nail (roof) or R18S-01 (2 1/2"x0.131") nail (roof)	6	12
31	1/2" - 1"	8d common (2 1/2"x0.131") nail (roof) or R18S-01 (2 1/2"x0.131") nail (roof)	6	12
32	1 1/8" - 1 1/4"	10d common (3"x0.148") nail or 8d (2 1/2"x0.131") deformed nail	6	12
Other wall sheathing <sup>8</sup>				
33	1/2" structural cellululosic fiberboard 4x8'g	1 1/2" galvanized roofing nail, 1/16" head diameter, or 1/4" long crown staple 16 ga. with 1/16" or 1" crown	3	6
34	2x3/2" structural cellululosic fiberboard 4x8'g	1 1/2" galvanized roofing nail, 1/16" head diameter, or 1/4" long crown staple 16 ga. with 1/16" or 1" crown	3	6
35	1/2" gypsum sheathing	1/2" galvanized roofing nail; staple galvanized, 1 1/4" screws, Type W or S	1	1
36	5/8" gypsum sheathing	1 3/4" galvanized roofing nail; staple galvanized, 1 5/8" screws, Type W or S	1	1
Wood structural panels, combination subfloor underlayment to framing				
37	3/4" and less	6d deformed (2"x0.128") nail or 8d common (2 1/2"x0.131") nail	6	12
38	1/8" - 1"	8d common (2 1/2"x0.131") nail or 8d deformed (2 1/2"x0.128") nail	6	12
39	1 1/8" - 1 1/4"	10d common (3"x0.148") nail or 8d deformed (2 1/2"x0.128") nail	6	12

- FOR S1: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 MPH = 0.441 M/S, 1 KSI = 6.895 MPa
- ALL NAILS ARE SMOOTH-CROWN, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 ksi (551 MPa) FOR SHANK DIAMETER OF 0.192" INCH (20d COMMON NAIL), 90 KSI FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.111 INCH, AND 100 KSI FOR SHANK DIAMETERS SMALLER THAN 0.111 INCH.
  - STAPLES ARE 16 GAUGE WIRE AND HAVE A MINIMUM 1/16-INCH O.D. CROWN WIDTH.
  - NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES O.C. AT ALL SUPPORTS WHERE SPAN ARE 48 INCHES OR GREATER.
  - 4'-FOOT-BY-8'-FOOT OR 4'-FOOT-BY-8'-FOOT PANELS SHALL BE APPLIED VERTICALLY.
  - SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE 602.3(2).
  - FOR WOOD STRUCTURAL PANEL SHEATHING ATTACHED TO GABLE END ROOF FRAMING AND TO INTERMEDIATE SUPPORTS WITHIN 48 INCHES OF ROOF EDGES AND RIDGES, NAILS SHALL BE SPACED AT 6" ON CENTER WHERE THE BASIC DESIGN WIND SPEED, V, IS LESS THAN 120 MPH AND SHALL BE SPACED 4 INCHES ON CENTER WHERE THE BASIC WIND SPEED, V, IS 120 MPH OR GREATER BUT LESS THAN 140 MPH.
  - GYPSPUM SHEATHINGS SHALL CONFORM TO ASTM C1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253.
  - FIBERBOARD SHEATHINGS SHALL CONFORM TO ASTM C208.
  - SPACING OF STAPLERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT ALL FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING, BLOCKING TO ROOF OR FLOOR SHEATHING PANEL EDGES PERMITTED TO THE FRAMING MEMBERS BEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.
  - WHERE A RAFTER FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TWO NAILS FROM THE CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.
  - R18S-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS OF ASTM F1661

## TABLE 602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NO. & TYPE OF FASTENER <sup>4,5,6</sup>	SPACING AND LOCATION
Roof			
1	Blocking between ceiling joists or rafters to top plate	4-Bd box (2 1/2"x0.131") or 3-Bd common (2 1/2"x0.131") or 3-1/2" x 0.131" nails	Toe nail
2	Ceiling joists to top plate	4-Bd box (2 1/2"x0.131") or 3-Bd common (2 1/2"x0.131") or 3-1/2" x 0.131" nails	Per Joist, toe nail
3	Ceiling joists not attached to parallel rafter, laps over partitions (see Sections R602.5.2 and Table R602.5.2)	4-1/2" x 0.131" nails or 3-1/2" x 0.162"	Face nail
4	Ceiling joists attached to parallel rafter, heel joint (see Sections R602.5.2 and Table R602.5.2)	Table R602.5.2	Face nail
5	Collar tie to rafter, face nail on 1/4"x20" ga ridge strap to rafter	4-1/2" x 0.131" nails or 3-1/2" x 0.162"	Face nail each rafter
6	Rafter or roof truss to plate	3-1/2" x 0.131	



20

# ATTIC MECH. COMPARTMENT

3/8" = 1'-0"

SECTION

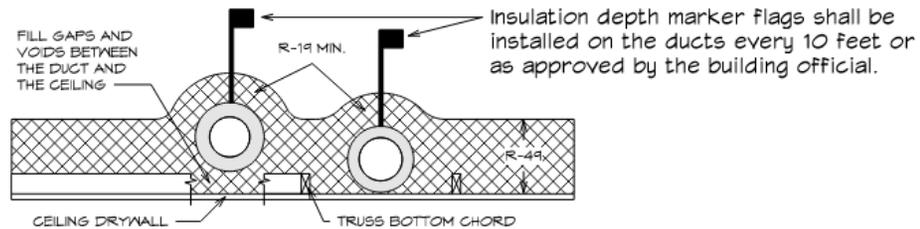
*Ducts deeply buried in insulation.*

Insulation shall be installed to fill gaps and voids between the duct and the ceiling, and a minimum of R-19 insulation shall be installed above the duct, between the duct, and unconditioned attic.

**NOTE:**

For buried ducts to be considered inside conditioned space, the air handler must be installed inside conditioned space. This practice typically requires constructing a mechanical closet below the ceiling plane.

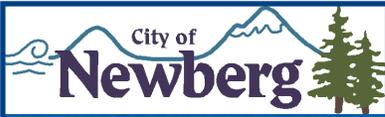
For air handlers installed in attics, the unit should not be buried in insulation to ensure access for maintenance and proper function of equipment.



**1 Ducts Deeply Buried in Insulation**

3/4" = 1'-0"

*WHEN APPLICABLE*



# NEW SINGLE FAMILY - 1 UNIT PERMIT City of Newberg

PERMIT NUMBER  
**NDWL24-0021**

PERMIT TYPE: <b>NEW SINGLE FAMILY - 1 UNIT</b>	SUBDIVISION/COMM SITE:	TAX MAP NO: <b>R3208 02900</b>
PERMIT SUB TYPE : <b>WITH BACKFLOW</b>		BLDG USE GROUP:
JOB ADDRESS: <b>1012 E RORK CT</b>		
DESCRIPTION: <b>New Single Family Residence - 1 Story Home w/ NFPA13r system</b>		
ZONED AS:	TOTAL SQFT: <b>0</b>	SPRINKLERS:
TOTAL WORK VALUE: <b>\$316,448.76</b>	TYPE OF CONSTRUCTION:	BUILDING USE:

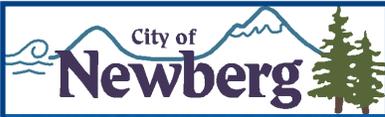
APPLICANT: <b>SAMEDY KEM</b>	PHONE: <b>(971)563-0552</b>
MAILING ADDRESS: <b>PO Box 1571 Hillsboro, OR 97123</b>	FAX:
ARCHITECT/DESIGNER/ENGINEER-WHO DREW THE PLANS: <b>SAMEDY KEM</b>	PHONE: <b>(971)563-0552</b>
MAILING ADDRESS: <b>PO Box 1571 Hillsboro, OR 97123</b>	FAX:
CONTRACTOR: <b>Canopy Building Group, LLC</b>	PHONE: <b>(503)956-9307</b>
MAILING ADDRESS: <b>15962 Boones Ferry Rd - Suite 202 Lake Oswego, OR 97035</b>	FAX:
CONTRACTOR: <b>LAKESIDEHVAC Inc</b>	PHONE: <b>(503)880-8492</b>
MAILING ADDRESS: <b>7021 McEwan Rd Lake Oswego, Or 97035</b>	FAX:
CONTRACTOR: <b>Stumptown Plumbing Co.</b>	PHONE: <b>(503)635-5253</b>
MAILING ADDRESS: <b>18705 Joyce Ct Oregon City, OR 97045</b>	FAX:
OWNER: <b>Canopy Building Group, LLC</b>	PHONE: <b>(503)956-9307</b>
MAILING ADDRESS: <b>15962 Boones Ferry Rd - Suite 202 Lake Oswego, OR 97035</b>	FAX:

<b>COMMENTS</b>
Fee Increase April 1 2024

FEES			
DESCRIPTION	ACCOUNT	QUANTITY	PAID AMOUNT
1 AND 2 FAMILY NEW - BATHROOMS	08-0000-322002	0	\$419.69
APPLIANCE VENTS/AIR DUCTS	08-0000-322002	4	\$57.56
BACKFLOW DEVICE	08-0000-322002	0	\$105.17
COMMUNITY DEVELOPMENT FEE .75 PERCENT	01-0000-322009	0	\$2373.37
CPRD SINGLE FAMILY FEE - CITY	01-0000-202002	0	\$187.78
CPRD SINGLE FAMILY FEE - PARKS	01-0000-202002	0	\$9201.22
FAU/GRAVITY FURNACE UP TO 100K	08-0000-322002	1	\$25.93
GAS PIPE OUTLETS	08-0000-322002	3	\$17.70
MECHANICAL PLAN REVIEW FEE 50 PERCENT	08-0000-322002	0	\$79.38
NEWBERG SCHOOL DISTRICT CET RESIDENTIAL FEE - CITY	01-0000-202003	0	\$17.08
NEWBERG SCHOOL DISTRICT CET RESIDENTIAL FEE - SCHOOL	01-0000-202003	0	\$1690.92

General Questions: 503-537-1240 | Inspections: [trakit.newbergoregon.gov/etrakit](http://trakit.newbergoregon.gov/etrakit) or 503-554-7714 | Website: [newbergoregon.gov](http://newbergoregon.gov)





# NEW SINGLE FAMILY - 1 UNIT PERMIT

## City of Newberg

PERMIT NUMBER  
**NDWL24-0021**

P WATER DEVELOPMENT 1" METER FEE	47-0000-349002	0	\$13338.40
SIDEWALK OR DRIVEWAY APPROACH PERMIT FEE	02-0000-332003	180	\$94.34
SINGLE FAMILY PLAN & STORMWATER REVEIW & FINAL	17-0000-332004	0	\$203.68
STATE SURCHARGE FEE 12 PERCENT - MECHANICAL	08-0000-202012	0	\$19.05
STATE SURCHARGE FEE 12 PERCENT - PLUMBING	08-0000-202012	0	\$62.98
STATE SURCHARGE FEE 12 PERCENT - STRUCTURAL	08-0000-202011	0	\$162.43
STRUCTURAL PERMIT FEE	08-0000-322001	0	\$221.11
STRUCTURAL PERMIT FEE	08-0000-322001	0	\$1132.46
STRUCTURAL PLAN REVIEW FEE 85 PERCENT	08-0000-322001	0	\$962.59
STRUCTURAL PLAN REVIEW-POST	08-0000-322001	0	\$0.00
STRUCTURAL PLAN REVIEW-POST	08-0000-322001	0	\$187.94
TECHNOLOGY FEE - ENGINEERING 5%	36-8675-3090001	0	\$50.06
TECHNOLOGY FEE 5 PERCENT - MECHANICAL	08-0000-341006	0	\$7.94
TECHNOLOGY FEE 5 PERCENT - PLUMBING	08-0000-341006	0	\$26.24
TECHNOLOGY FEE 5 PERCENT - STRUCTURAL	08-0000-341006	0	\$67.68
TRANSPORTATION DEVELOPMENT SINGLE FAMILY / OTHER - PER UNIT	42-0000-349002	0	\$6266.08
VENTILATION SINGLE	08-0000-322002	4	\$57.56
WASTE WATER DEVELOPMENT 1-18 FIXTURES FEE	46-0000-349002	0	\$6039.00
WASTE WATER DEVELOPMENT EACH FIXTURE UNIT OVER 18 FEE	46-0000-349002	0	\$2180.75
WATER CONNECTION FEE	07-0000-349001	0	\$703.20
WOOD/FIREPLACE/MASONRY/FACTORY BUILT	08-0000-322002	0	\$0.00
<b>TOTAL:</b>			<b>\$45,959.29</b>

**ALL WORK TO CONFORM TO THE CURRENT EDITION OF THE ORSC AND OSCC.  
INSPECTIONS REQUESTED PRIOR TO 7AM ILL BE COMPLETED THE SAME BUSINESS DAY.  
INSPECTION RECIEVED AFTER 7AM WILL BE SCHEDULE FOR THE NEXT BUSINESS DAY.**

**8.15.150 UNNECESSARY NOISE – PERMITTED EXCEPTIONS.**

**A. UNREASONABLE NOISE AND EXCEPTIONS.**

**3. The following acts are declared to be per se violations of this section. This enumeration does not constitute an exclusive list:**

**j. Construction or Repair of Buildings, or Excavation of Streets and Highways. The construction, demolition, alteration or repair of any building or the excavation of streets and highways other than between the hours of 7:00 a.m. and 7:00 p.m. on weekdays. In cases of emergency, construction or repair noises are exempt from this provision. In nonemergency situations, the city may issue a permit, upon application, if the city determines that the public health and safety, as affected by loud and raucous noise caused by construction or repair of buildings or excavation of streets and highways between the hours of 7:00 p.m. and 7:00 a.m. will not be impaired, and if the city further determines that loss or inconvenience would otherwise result. The permit shall grant permission in nonemergency cases for a period of not more than three days. The permit may be renewed once for a period of three days or less.**

**Building Official: Brooks Bateman**

**Issued By: Michele Faber**

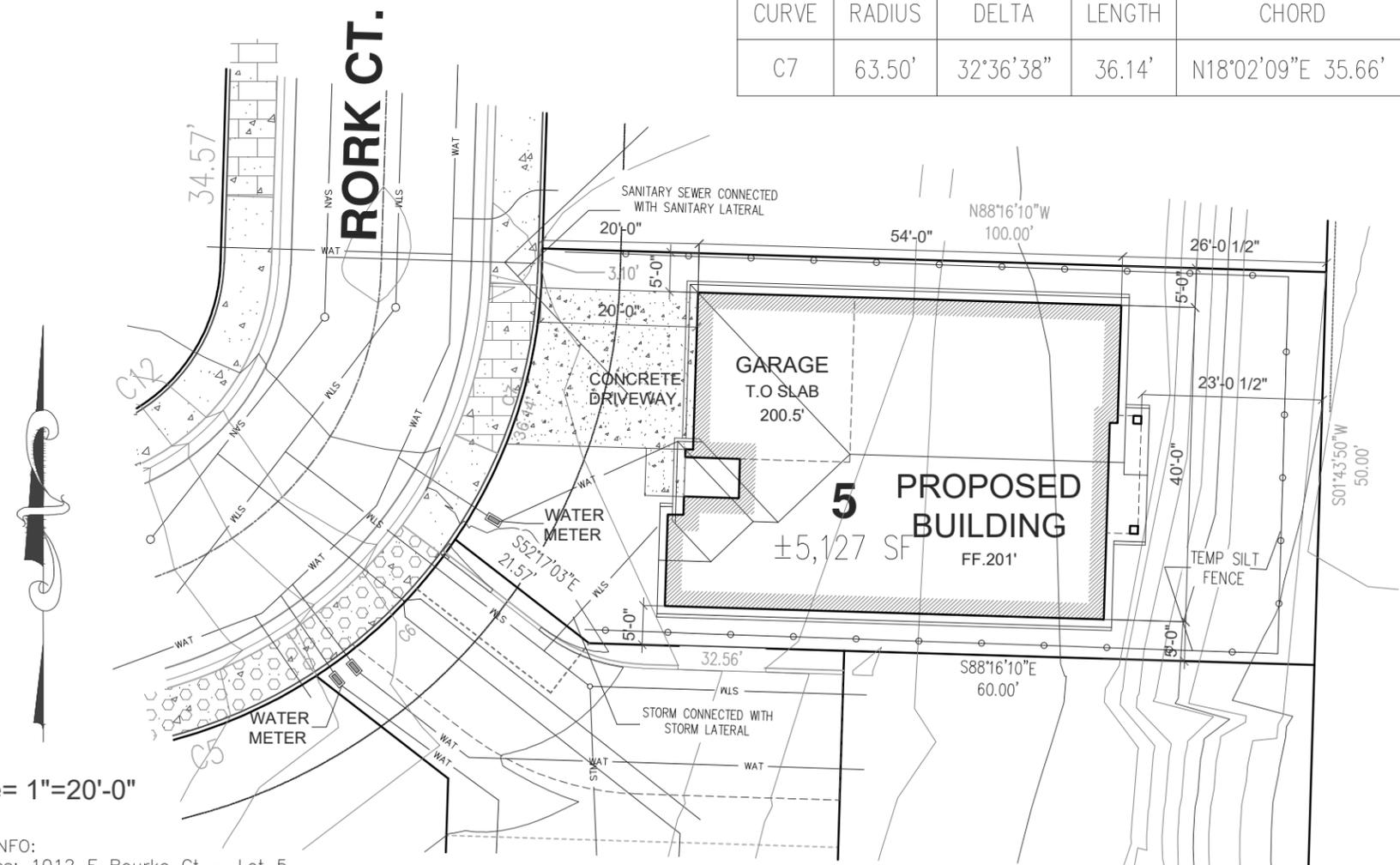
**Date: 5/3/2024**



<b>LOT AREA:</b>	<b>5,127 SF</b>
BUILDING FOOTPRINT	2,238 SF
INCLUDES COVERD PORCH (DOES NOT INCLUDE OVERHANGS)	
BUILDING LOT COVERAGE (MAXIMUM BUILDING COVERAGE: 50%)	44%
PARKING AREA	427 SF
PARKING COVERAGE (MAXIMUM PARKING COVERAGE: 30%)	9%
COMBINED BUILDING/PARKING BUILDING/PARKING COVERAGE: (MAX. BUILDING/PARKING COVERAGE: 60%)	2,665 SF 52%

TYP. STREET TREES ( JAPANESE DOGWOOD) TO BE PLANTED IN PLANTER STRIP AT 35'-40' O.C. INSTALL ROOT BARRIER ON SIDEWALK SIDE OF THE TREE TO PREVENT FUTURE SIDEWALK OR UTILITY CONFLICT. RE: LANDSCAPE PLAN FOR DETAILS

CURVE TABLE				
CURVE	RADIUS	DELTA	LENGTH	CHORD
C7	63.50'	32°36'38"	36.14'	N18°02'09"E 35.66'



- EROSION CONTROL NOTES:**
1. INSTALL GRAVEL CONSTRUCTION ENTRANCE PER STANDARD DETAILS 601
  2. PLACE SUBGRADE ROCK ALONG LENGTH OF SIDEWALK TO INTERCEPT FLOW PER CLEAN WATER SERVICES STANDARD DETAIL 895
  3. PUT BIO-BAGS AT NEAREST DOWNSTREAM CATCH BASIN PER DETAIL 605
  4. INSTALL SEDIMENT FENCE PER DETAIL 602 ALONG PERIMETER OF THE PROPERTY, EXCLUDING LINE PROPERTY FRONTAGE.
- STORMWATER NOTES:**
1. STORM OUTLET THROUGH WEEPHOLES IN CURB.

scale= 1"=20'-0"

SITE INFO:  
Address: 1012 E Rourke Ct – Lot 5  
Newberg, Oregon 97132  
LOT SIZE 5,124 SF

BUILDER:;  
Canopy Building Group, LLC

ADDRESS:  
159662 SW BOONES FERRY ROAD, SUITE 202  
LAKE OSWEGO, OREGON 97035

## Michele Faber

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**From:** Sean O'Neill <sean@scotiawsh.com>  
**Sent:** Thursday, May 2, 2024 5:08 PM  
**To:** Brett Musick  
**Cc:** Michele Faber; Fe Bates  
**Subject:** Re: NWDL 24-0021 SDC Deferral

This email originated from outside the City of Newberg's organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Brett,

Per your email below in reference to 13.05.090.A.1 we would like to pay our SDC fees 48 hours prior to requesting our insulation inspection.

Please let me know if you need anything further from me on this matter.

Thank You,

Sean O'Neill

On Wed, May 1, 2024 at 3:17 PM Brett Musick <[Brett.Musick@newbergoregon.gov](mailto:Brett.Musick@newbergoregon.gov)> wrote:

Sean,

The Newberg Municipal Code (NMC) does not have a provision for deferral of System Development Charge (SDC) payments except as noted in NMC 13.05.090(A)(1) for single-family residences and duplexes. There is an option to apply for a paying the System Development Charges (SDC) in installments. Please let me know if you are interested in more information on the process to apply for an SDC payment installment plan.

The NMC chapter associated with System Development Charges is available at: [Chapter 13.05 GENERAL PROVISIONS \(codepublishing.com\)](#)

Below are amendments to NMC 13.05.090 that became effective on April 1, 2024 in accordance with Ordinance 2024-2922. Ordinance 2024-2922 is available at: [Posting Notice for Ordinance 2024.2922 | Newberg Oregon](#)

**13.05.090 Collection of charge.**

*A. The system development charge is due and payable at the earliest of the following:*

- 1. At the time a request for an insulation inspection is made on single-family residences and duplexes. To allow timely processing of payment, payment must be made not less than 48 hours prior to a request for inspection and no insulation inspection shall be scheduled without proof of payment;*
- 2. Issuance of a building permit for all other habitable structures (a development permit);*
- 3. Issuance of a development permit that does not require the issuance of a building permit;*
- 4. Issuance of a permit to connect to the water system; or*
- 5. Issuance of a permit to connect to the wastewater system.*

*B. If no building or connection permit is required, the system development charge is payable at the time the usage of the capital improvement is increased based on changes in the use of the property unrelated to seasonal or ordinary fluctuations in usage.*

*C. If development is commenced or connection is made to the water, stormwater, or wastewater systems without an appropriate permit, the system development charge is immediately payable upon the earliest date that a permit was required.*

*D. The city manager shall collect the applicable system development charge when a permit that allows building or development of a parcel is issued or when a connection to the water, stormwater, or wastewater system of the city is made. The applicable charge is the charge in place at the time of collection, not the time of permit application.*

*E. The city manager shall not issue such permit or allow such connection until the charge has been paid in full, except for single-family residences and duplexes per subsection (A)(1) of this section, provision for installment payments has been made pursuant to NMC 13.05.110, or unless an exemption is granted*

pursuant to NMC 13.05.120. [Ord. 2869 § 1, 11-16-20; Ord. 2823 § 1, 3-19-18; Ord. 2306, 6-18-91. Code 2001 § 50.09.]

Below is NMC 13.05.110 for reference.

### **13.05.110 Installment payment.**

*A. An owner of property obligated to pay a system development charge in an amount exceeding \$2,500 may apply to pay the charge in semiannual installments over a period not to exceed 10 years, but will pay minimum semiannual installments of not less than \$1,250. Installments shall include interest on the unpaid balance at the rate equal to three percent per annum above the prime rate of interest quoted by the Wall Street Journal as of January 2nd of the year in which the charge is imposed.*

*B. The city manager shall provide application forms for installment payments, which shall include a waiver of all rights to contest the validity of the lien, except for the correction of computational errors.*

*C. An applicant for installment payments shall have the burden of demonstrating the applicant's authority to assent to the imposition of a lien on the development and that the interest of the applicant is adequate to secure payment of the lien.*

*D. The city manager shall docket the lien in the lien docket. From that time the city shall have a lien upon the described parcel for the amount of the system development charge, together with interest on the unpaid balance. The lien shall be enforceable in the manner provided in ORS Chapter 223. [Ord. 2823 § 1, 3-19-18; Ord. 2306, 6-18-91. Code 2001 § 50.11.]*

Below are amendments to NMC 13.05.120 that became effective on April 1, 2024 in accordance with Ordinance 2024-2922. Ordinance 2024-2922 is available at: [Posting Notice for Ordinance 2024.2922 | Newberg Oregon](#)

### **13.05.120 Exemptions.**

*A. Structures and uses established and existing on or before June 18, 1991, are exempt from a system development charge, except water and wastewater charges, to the extent of the structure or use then existing and to the extent of the parcel of land as it is constituted on that date. Structures and uses affected by this section shall pay the water or wastewater charges pursuant to the terms of this article upon the receipt of a permit to connect to the water or wastewater system.*

*B. Additions to single-family dwellings that do not constitute the addition of a dwelling unit, as defined by the current Oregon Residential Specialty Code, are exempt from all portions of the system development charge.*

*C. An alteration, addition, replacement, or change in use that does not increase the parcel's or structure's use of the public improvement facility are exempt from all portions of the system development charge.*

*D. No transportation system development charges shall be charged for applications that only request a change in use for improvements existing at the time of application submission.*

*E. Development of child care facilities as defined by ORS 329A.250(5) and certified per ORS 329A.300 are exempt from all system development charges established under this Chapter.*

As noted above, please let me know if you are interested in more information on the process to apply for an SDC payment installment plan.

**Brett Musick, PE**  
*Senior Engineer*

**City of Newberg**  
**Direct:** 503-554-1631  
**Cell:** 971-281-1559



Please let us know how you feel about our services by filling out this [City Services Customer Satisfaction Survey](#).

OUR OFFICE HAS TEMPORARILY MOVED TO THE WASTE WATER TREATMENT PLANT AT: 2301 NE WYNOOSKI RD.  
We will be open to the Public for any Permitting or Planning needs from **8:30 to 3:30**, Monday- Friday

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**From:** Sean O'Neill <[sean@scotiawsh.com](mailto:sean@scotiawsh.com)>  
**Sent:** Tuesday, April 30, 2024 1:20 PM  
**To:** ENGINEERING <[engineering@newbergoregon.gov](mailto:engineering@newbergoregon.gov)>  
**Subject:** NWDL 24-0021 SDC Deferral

This email originated from outside the City of Newberg's organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

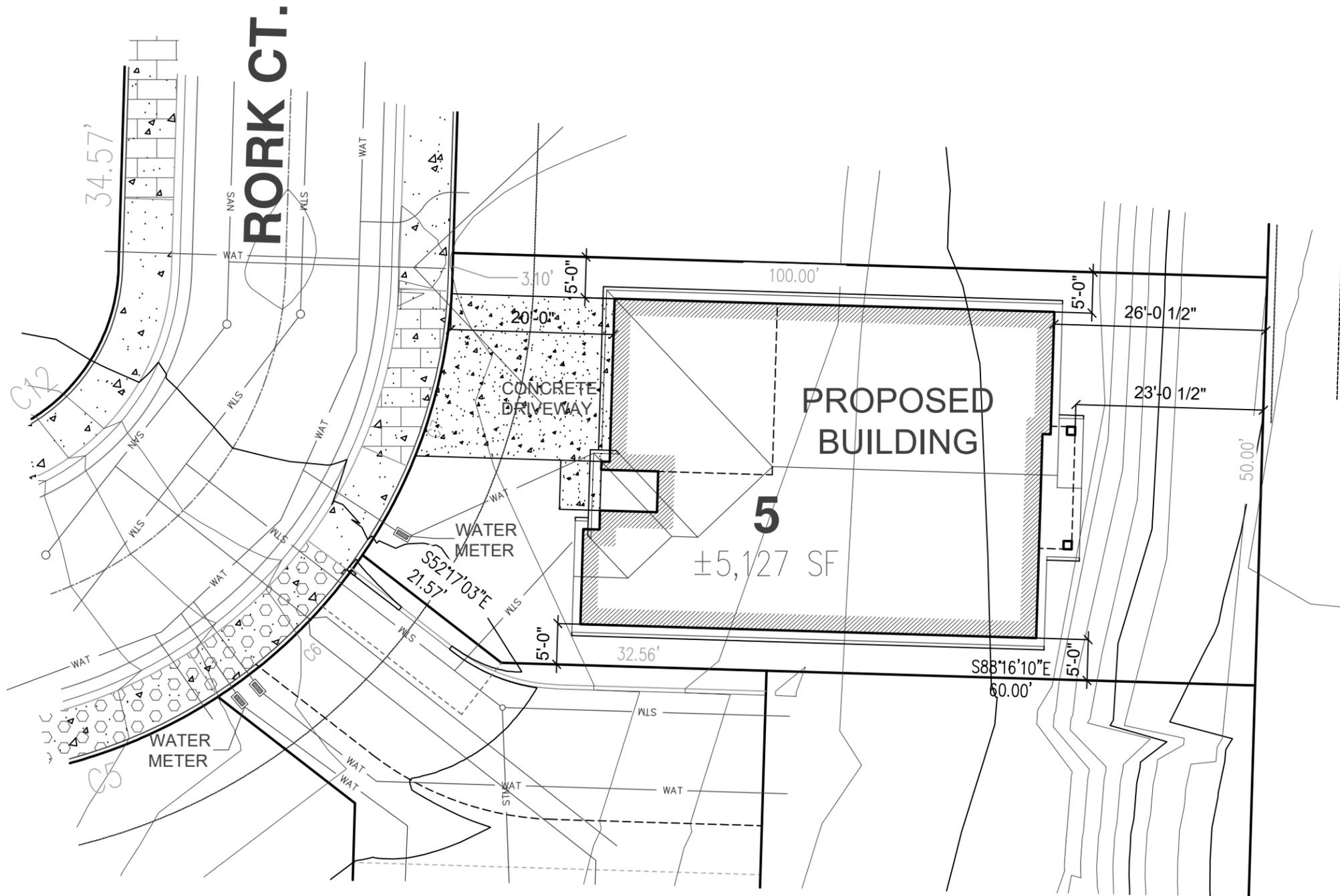
Hello,

I spoke with Michele earlier and she asked me to email you with our request. We are hoping that we can defer our SDCs on the above permit. Is this something that we are able to do and what would it take for us to do so? Typically, we are able to do this for a 6, 9 or 12 month period and the fees get paid at the end of the deferral period or at closing, whichever is sooner.

Please advise what we would need to do in order to have this be accomplished on our property.

Thank You,

Sean O'Neill



scale= 1"=15'-0"

SITE INFO:  
 Address: 1012 E Rourke Ct – Lot 5  
 Newberg, Oregon 97132  
 LOT SIZE 5,124 SF  
 PROPOSED COVERAGE= 2,238 SQ 47%

BUILDER;:  
 Canopy Building Group, LLC

ADDRESS:  
 159662 SW BOONES FERRY ROAD, SUITE 20;  
 LAKE OSWEGO, OREGON 97035



# PERMIT APPLICATION

www.newbergoregon.gov

trakit.newbergoregon.gov/etrakit

## Site Information

Business | Project Name:

Site Address 1012 E Rourke Ct - Rourke Estates - Lot 5 - Newberg, OR 97132

Land Use Project # \_\_\_\_\_

House Sq. Ft. 1708 x \$167.37 = \$ 285,867.96 | Garage Sq. Ft. 410 x \$66.48 = \$ 27,256.80

Carport | Covered Porch | Patio | Deck Sq. Ft. 60 & 35 x \$30.22 = \$ 2,870.90

**Estimated Project Valuation:** \$250,000.00

**Com:** Const. Type \_\_\_\_\_ Occupancy Type \_\_\_\_\_ Occupant Load \_\_\_\_\_ Fire Sprinklers  | Fire Alarm

New  Alteration |  Single Family ( Backflow Included)  Multi-Family  Commercial / Industrial

**Project Description** New Construction - 1 Story Home

## Owner Information

Owner Name: Canopy Buiding Group, LLC

Mailing Address: 15962 Boones Ferry Rd - Suite City/State/Zip: Lake Oswego, OR 97035

Cell: 503-956-9307 Phone: \_\_\_\_\_ Email: sean@scotiawsh.com

## Architect | Engineer | Designer | Who Drew the Plans Information

Business Name: Samedy Kem- Consultant Email: samedy@kem-consultant.com

Mailing Address: PO Box 1571 City/State/Zip: Hillsboro, OR 97123

Cell / Phone: 971-563-0552 License: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

## Building | General Contractor Information

Business Name: Canopy Building Group, LLC Email: sean@scotiawsh.com

Mailing Address: 15962 Boones Ferry Rd - Suite 202 City/State/Zip: Lake Oswego, OR 97035

Cell / Phone: 503-956-9307 CCB: 232358 Expiration Date: 9/28/2024

## Mechanical Contractor Information Commercial Valuation: \$

Business Name: Lakeside HVAC, INC Email: \_\_\_\_\_

Mailing Address: 7021 McEwan Rd City/State/Zip: Lake Oswego, OR 97035

Cell / Phone: 503-635-5253 CCB: 227694 Expiration Date: 08/26/2025

## Plumbing | Landscape Contractor Information Interior based on fixtures affected, list fixtures in description Commercial Only— Pipe Size Under 2" Over 2"

Business Name: Stumptown Plumbing Co Email: \_\_\_\_\_

Mailing Address: 18705 Joyce Ct City/State/Zip: Oregon City, OR 97045

Cell / Phone: 503-635-5253 CCB | LCB: 242859 Expiration Date: 10/13/2024

## Applicant Information Owner Architect Contractor Other - complete form below\*

Signature: Samedy Kem Print: Samedy Kem Date: 2/26/24

\*Business Name: Samedy Kem - Consultant \*Email: samedy@kem-consultant.com

\*Mailing Address: PO Box 1571 Hillsboro, OR 97123 \*Cell / Phone: 971-563-0552

Office Use Only—Permit #:

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# PERMIT APPLICATION

[www.newbergoregon.gov](http://www.newbergoregon.gov)

[trakit.newbergoregon.gov/etrakit](http://trakit.newbergoregon.gov/etrakit)

## Required Information

**Applicant** "MUST" provide "ALL" required contractor information. It is the responsibility of the owner or contractor to call for inspections. I hereby state that I have read and understand both sides of this application and the information provided on both sides is correct.

## Expiration Information

**This application** will expire 180 days from the submittal date. Any subsequent permits issued will be come null and void if work or construction authorized is not commenced within 180 days, or if construction or work is suspended or abandoned for a period of 180 days after work has commenced.

## Plumbing Information

**Plumbing Permit:** I certify that all plumbing work will be done in accordance with applicable provisions of the City of Newberg Ordinances and Oregon Revised Statutes Chapters 447 and 693, and applicable codes, and that no help will be employed unless under ORS 693.

## Development Information

**Development Permit:** In consideration thereof, the signee does hereby agree to pay the City of Newberg, the cost of sewer and/or water connection and development fees in accordance with City ordinances and resolutions. The signee does also acknowledge that a building permit will not be issued until the connection costs and development fees are paid in full. Applicant further understands that the City will begin billing in accordance with Resolution No. 93-1812, from the date of meter installation.

## EPA Information

**EPA** (Environmental Protection Agency) The US Environmental Protection Agency requires that renovation, repair and painting projects that the disturb lead-based paint in pre-1978 homes, childcare facilities and schools must be performed by an EPA certified renovator working for an EPA certified firm and specific work practices must be implemented to prevent lead contamination. More information is available at 1-800-424-LEAD (5323) or [www2.epa.gov/lead](http://www2.epa.gov/lead).

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## Michele Faber

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**From:** Sean O'Neill <sean@scotiawsh.com>  
**Sent:** Thursday, May 2, 2024 5:08 PM  
**To:** Brett Musick  
**Cc:** Michele Faber; Fe Bates  
**Subject:** Re: NWDL 24-0021 SDC Deferral

This email originated from outside the City of Newberg's organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Brett,

Per your email below in reference to 13.05.090.A.1 we would like to pay our SDC fees 48 hours prior to requesting our insulation inspection.

Please let me know if you need anything further from me on this matter.

Thank You,

Sean O'Neill

On Wed, May 1, 2024 at 3:17 PM Brett Musick <[Brett.Musick@newbergoregon.gov](mailto:Brett.Musick@newbergoregon.gov)> wrote:

Sean,

The Newberg Municipal Code (NMC) does not have a provision for deferral of System Development Charge (SDC) payments except as noted in NMC 13.05.090(A)(1) for single-family residences and duplexes. There is an option to apply for a paying the System Development Charges (SDC) in installments. Please let me know if you are interested in more information on the process to apply for an SDC payment installment plan.

The NMC chapter associated with System Development Charges is available at: [Chapter 13.05 GENERAL PROVISIONS \(codepublishing.com\)](#)

Below are amendments to NMC 13.05.090 that became effective on April 1, 2024 in accordance with Ordinance 2024-2922. Ordinance 2024-2922 is available at: [Posting Notice for Ordinance 2024.2922 | Newberg Oregon](#)

**13.05.090 Collection of charge.**

*A. The system development charge is due and payable at the earliest of the following:*

- 1. At the time a request for an insulation inspection is made on single-family residences and duplexes. To allow timely processing of payment, payment must be made not less than 48 hours prior to a request for inspection and no insulation inspection shall be scheduled without proof of payment;*
- 2. Issuance of a building permit for all other habitable structures (a development permit);*
- 3. Issuance of a development permit that does not require the issuance of a building permit;*
- 4. Issuance of a permit to connect to the water system; or*
- 5. Issuance of a permit to connect to the wastewater system.*

*B. If no building or connection permit is required, the system development charge is payable at the time the usage of the capital improvement is increased based on changes in the use of the property unrelated to seasonal or ordinary fluctuations in usage.*

*C. If development is commenced or connection is made to the water, stormwater, or wastewater systems without an appropriate permit, the system development charge is immediately payable upon the earliest date that a permit was required.*

*D. The city manager shall collect the applicable system development charge when a permit that allows building or development of a parcel is issued or when a connection to the water, stormwater, or wastewater system of the city is made. The applicable charge is the charge in place at the time of collection, not the time of permit application.*

*E. The city manager shall not issue such permit or allow such connection until the charge has been paid in full, except for single-family residences and duplexes per subsection (A)(1) of this section, provision for installment payments has been made pursuant to NMC 13.05.110, or unless an exemption is granted*

pursuant to NMC 13.05.120. [Ord. 2869 § 1, 11-16-20; Ord. 2823 § 1, 3-19-18; Ord. 2306, 6-18-91. Code 2001 § 50.09.]

Below is NMC 13.05.110 for reference.

### **13.05.110 Installment payment.**

*A. An owner of property obligated to pay a system development charge in an amount exceeding \$2,500 may apply to pay the charge in semiannual installments over a period not to exceed 10 years, but will pay minimum semiannual installments of not less than \$1,250. Installments shall include interest on the unpaid balance at the rate equal to three percent per annum above the prime rate of interest quoted by the Wall Street Journal as of January 2nd of the year in which the charge is imposed.*

*B. The city manager shall provide application forms for installment payments, which shall include a waiver of all rights to contest the validity of the lien, except for the correction of computational errors.*

*C. An applicant for installment payments shall have the burden of demonstrating the applicant's authority to assent to the imposition of a lien on the development and that the interest of the applicant is adequate to secure payment of the lien.*

*D. The city manager shall docket the lien in the lien docket. From that time the city shall have a lien upon the described parcel for the amount of the system development charge, together with interest on the unpaid balance. The lien shall be enforceable in the manner provided in ORS Chapter 223. [Ord. 2823 § 1, 3-19-18; Ord. 2306, 6-18-91. Code 2001 § 50.11.]*

Below are amendments to NMC 13.05.120 that became effective on April 1, 2024 in accordance with Ordinance 2024-2922. Ordinance 2024-2922 is available at: [Posting Notice for Ordinance 2024.2922 | Newberg Oregon](#)

### **13.05.120 Exemptions.**

*A. Structures and uses established and existing on or before June 18, 1991, are exempt from a system development charge, except water and wastewater charges, to the extent of the structure or use then existing and to the extent of the parcel of land as it is constituted on that date. Structures and uses affected by this section shall pay the water or wastewater charges pursuant to the terms of this article upon the receipt of a permit to connect to the water or wastewater system.*

*B. Additions to single-family dwellings that do not constitute the addition of a dwelling unit, as defined by the current Oregon Residential Specialty Code, are exempt from all portions of the system development charge.*

*C. An alteration, addition, replacement, or change in use that does not increase the parcel's or structure's use of the public improvement facility are exempt from all portions of the system development charge.*

*D. No transportation system development charges shall be charged for applications that only request a change in use for improvements existing at the time of application submission.*

*E. Development of child care facilities as defined by ORS 329A.250(5) and certified per ORS 329A.300 are exempt from all system development charges established under this Chapter.*

As noted above, please let me know if you are interested in more information on the process to apply for an SDC payment installment plan.

**Brett Musick, PE**  
*Senior Engineer*

**City of Newberg**  
**Direct:** 503-554-1631  
**Cell:** 971-281-1559



Please let us know how you feel about our services by filling out this [City Services Customer Satisfaction Survey](#).

OUR OFFICE HAS TEMPORARILY MOVED TO THE WASTE WATER TREATMENT PLANT AT: 2301 NE WYNOOSKI RD.  
We will be open to the Public for any Permitting or Planning needs from **8:30 to 3:30**, Monday- Friday

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**From:** Sean O'Neill <[sean@scotiawsh.com](mailto:sean@scotiawsh.com)>  
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